

DDS VENDOR RATE STUDY AND RATE MODELS

– submitted to –

California Department of Developmental Services

– prepared by –

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EXECUTIVE SUMMARY

The Department of Developmental Services is submitting the rate study completed by Burns & Associates, Inc. in accordance with the requirements of ABX2-1 (Chapter 3, Statutes of 2016, Second Extraordinary Session). The rate study reflects nearly two years of work and information and input from thousands of service providers, consumers and families, and stakeholders across the State.

ABX2-1 requires DDS to submit a rate study to the appropriate fiscal and policy committees of the Legislature by March 1, 2019, addressing the sustainability, quality, and transparency of community-based services for individuals with developmental disabilities. Additionally, it requires DDS to consult with stakeholders through the Developmental Services Task Force in developing the study, and requires the study include:

1. An assessment of the effectiveness of the methods used to pay each category of community service provider,
2. Whether the current rate methods provide an adequate supply of providers to allow consumer choice,
3. Comparisons of the estimated fiscal effects of alternative rate methodologies,
4. How different rate methodologies incentivize outcomes for consumers, and
5. An evaluation of the number and type of service codes for regional center services.

This report is accompanied by rate models and payment methodologies for home and community-based services that account for more than 90 percent of total spending on services delivered through the State's 21 nonprofit Regional Centers. The models aim to standardize rate methodologies, account for the costs of providing services consistent with State and federal requirements, improve insight into service utilization, and promote a stable and high-quality supply of providers.

The rate study report is divided into four parts:

- Part 1 outlines the various methodologies for establishing rates for home and community-based services and summarizes current rates and methodologies in California.
- Part 2 provides an overview of the rate study, including the multiple strategies employed to involve stakeholders, principles adopted to guide the study, and data sources used to inform the rate models.
- Part 3 covers the major components of the rate models, including direct care worker wages, benefits and productivity, indirect costs such as program operations and provider administrative costs, and adjustments to account for regional cost differences.
- Part 4 summarizes the rate study results and the rate models.

More than 330,000 children and adults with developmental disabilities, developmental delays, or established risk conditions receive services funded by DDS through the Regional Centers and delivered by a network of thousands of nonprofit and for-profit service providers. The methods for establishing payment rates for these providers vary by service, including rates established in statute or regulation, set by DDS, tied to Medi-Cal or Department of Social Services rates, negotiated with providers, or billed based on the usual and customary rates the provider charges to the general public. In response to statewide funding limitations between 2003 and 2015, payment rates were subject to various reductions, freezes, and other constraints.

In 2016, ABX2-1 was passed during the Second Extraordinary Session of the Legislature and provided immediate rate increases to service providers. Specifically, the legislation appropriated \$244.9 million in General Fund for rate increases; including federal funds, rates were increased by more than \$400 million in total. To further examine the long-term sustainability, quality, and transparency of services, ABX2-1 required DDS to conduct a rate study that considered the sustainability, quality, and transparency of services and the effectiveness of payment methodologies in supporting an adequate supply of providers and incentivizing outcomes for consumers.

DDS released a request for proposals to obtain assistance in the facilitation of the rate study and the development of rate models. Through a competitive procurement process, DDS awarded a contract to B&A in June 2017. B&A is a national health policy consulting firm that has conducted similar rate studies in ten other states.

Drawing on this experience, B&A employs an ‘independent rate model’ approach to develop HCBS rates. In this approach, rate models are constructed to reflect the reasonable costs providers incur in the delivery of services. These rate models have been constructed in accordance with DDS’ policies and requirements.

The development of the rate models therefore began with a detailed review of service requirements. With B&A’s assistance, DDS undertook a comprehensive review of service definitions. This process also included a review of California-specific laws – such as labor-related requirements – that impact providers’ costs. From this review, DDS is compiling a list of potential statutory and regulatory changes that would be needed should the rate models be implemented.

The rate models are built on detailed assumptions regarding a number of factors, including the wages, benefits, and productivity of the direct care worker; the agency’s program operation and administrative costs; staffing ratios and staffing levels, attendance/absence factors, travel-related expenses, facility costs, and program supplies.

The rate models are labeled *independent* because cost assumptions are not *dependent* on any single source of information. In particular, providers’ current cost data is an important

consideration in the development of rate model assumptions, but it is not the only consideration. This is because provider costs are related to the rates they are paid, particularly in HCBS systems wherein there are few, if any, other payers. Thus, independent data sources are used to determine reasonable costs. Examples include wage data from the Bureau of Labor Statistics and wage growth data from the Bureau of Economic Analysis, the Internal Revenue Service's mileage rate, real estate cost data published by commercial real estate brokers, and the Workers' Compensation Insurance Rating Bureau's (WCIRB) workers' compensation rates.

Additionally, the rate study was informed by significant input from stakeholders, including:

- A series of six meetings with the Developmental Services Task Force's Rates Workgroup
- Meetings with the Association of Regional Center Agencies, the California Person-Centered Advocacy Partnership, the California Disability Services Association, the Service Employees International Union, and other groups
- A provider cost survey completed by more than 1,100 organizations, accounting for 52 percent of total spending on in-scope services
- Approximately ten provider site visits during which B&A observed service delivery firsthand and had in-depth discussions regarding program operations and costs
- An individual and family survey completed by more than 1,700 respondents to gather information regarding what is important to service users as well as their current satisfaction with services
- A public comment process that is currently underway to collect feedback on the models

Key features of the rate models resulting from the rate study include:

- A standardized approach to rate-setting such that providers delivering the same service in the same area receive the same payment
- Simplification of service codes by consolidating a number of existing codes based on the assumption that a support should be associated with the same service code regardless of where that support is provided
- Further alignment of payment rates with Medi-Cal rates for certain medical and clinical practitioners
- The use of market-based cost data to reflect providers' costs to promote a stable and high-quality supply of providers
- A detailed and transparent accounting of these costs should changes be considered over time
- Recognition of differences in wage, travel, and real estate costs across the State by developing separate rate models for each Regional Center

- Supporting high-quality services through investments in direct care workers by building into the rate models market-based wages that consider the State's increasing minimum wage, a comprehensive benefits package, enhanced training, supervision, and other program operations.
- The development of enhanced rates for services delivered to individuals who do not speak English when delivered by staff who speak their language, including American Sign Language

The rate study estimates the cost of fully implementing the rate models would be approximately \$1.8 billion total funds on an annualized basis. An estimated 60 percent, or \$1.1 billion, of these costs would be General Fund. Although rates would increase overall, the rate models for some services and for some providers are less than current rates.

In addition to the cost of implementing the rates, a substantial effort would be required amongst DDS, Regional Centers, and providers to create and amend statutes, regulations, and policies; develop reporting requirements to track the impact of any increases in payment rates; change billing systems; and establish new authorizations and vendorizations.

To support the deliberative process, this report, which summarizes the rate study process conducted in accordance with the requirements of ABX2-1 as well as the underlying rate and policy change assumptions, is accompanied by supporting documentation including the rate models, a supplemental report on regional cost variation, provider survey materials, and individual and family survey materials.

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LIST OF ACRONYMS AND ABBREVIATIONS

ABX2-1	Legislation authorizing the DDS Vendor Rate Study
ARM	Alternative residential model
B&A	Burns & Associates, Inc.
BEA	United States Bureau of Economic Analysis
BLS	United States Bureau of Labor Statistics
CMS	Centers for Medicare and Medicaid Services
DDS	Department of Developmental Services
DHCS	Department of Health Care Services
DS Task Force	Developmental Services Task Force
DSP	Direct service professional
DSS	Department of Social Services
HCBS	Home and community-based services
HSRI	Human Services Research Institute
I/DD	Intellectual and developmental disabilities
IPP	Individualized program plan
MSA	Metropolitan statistical area
RFP	Request for proposals
WCIRB	Workers' Compensation Insurance Rating Bureau
WIC	Welfare and Institutions Code

INTRODUCTION

Pursuant to Section 4519.8 of the Welfare and Institutions Code as added by ABX2-1 during the Second Extraordinary Session of the 2015-16 Legislature, Burns & Associates, Inc. has prepared this report to summarize the results of the Department of Developmental Services vendor rate study and the resultant rate models.

This report is the culmination of nearly two years of work that has included the review of applicable statutes and regulations, analysis of current payment rates and service use patterns, and identification of benchmark data sources to inform the development of the rate models. B&A would like to acknowledge and express its appreciation for the thousands of service providers, individuals and families, and stakeholders across the State who provide information and input, including:

- The members of the Developmental Services Task Force's Rates Workgroup who offered counsel at key points during the project,
- The more than 1,100 agencies that completed and submitted the provider survey,
- The more than 1,700 consumers and families that participated in the individual and family survey,
- The providers that hosted B&A staff and allowed them to observe their operations,
- The organizations that provided B&A a forum to explain the rate study to their members, and
- The DDS staff who contributed thousands of hours to guide the project.

The rate study report is divided into four parts:

- Part 1 outlines the various methodologies for establishing rates for home and community-based services and summarizes current rates and methodologies in California.
- Part 2 provides an overview of the rate study, including the multiple strategies employed to involve stakeholders, principles adopted to guide the study, and data sources used to inform the rate models.
- Part 3 covers the major components of the rate models, including direct care worker wages, benefits and productivity, indirect costs such as program operations and provider administrative costs, and adjustments to account for regional cost differences.
- Part 4 summarizes the rate study results and the rate models.

The rate study was conducted in accordance with the requirements included in ABX2-1 as summarized below.

Both the rate study and the rate models address *the transparency of services and rates*. The rate study began with an in-depth review of service requirements as described in Section 2.3. When service requirements are overly broad or ambiguous, the rate study assumes that detailed guidance will be developed so that there is a shared and clear understanding of ‘what’ each service is. Further, the rates themselves were developed in a transparent fashion, based on models that detail the factors, values, and data sources included in each rate. Key rate model assumptions and data sources are summarized in Part 3.

Relatedly, the rate study also evaluated the *number and type of service codes*, noting instances of potential duplication and inconsistent usage across Regional Centers. Assumptions regarding the consolidation of a number of service codes are described in Section 4.1.

The development of independent rate models that rely on data both from provider agencies and from other market sources is intended to produce rates that are aligned with providers’ costs, thereby supporting a *sufficient supply of providers and the sustainability of community-based services*. In order to enhance the supply of providers across the State and across demographic groups, the rate models also include ‘regional adjustment factors’ to account for cost differences in various parts of the State and ‘non-English stipends’ to serve non-English speakers in their language. Section 1.3 discusses the supply of providers generally while Section 4.1 includes discussion of the specific elements of the rate models related to the supply of providers.

The rate study includes consideration of *the quality of services and consumer outcomes*. As discussed in Section 1.3, linking rates to quality and outcomes is a challenge in the HCBS environment because of substantial differences in the needs of individuals as well as difficulties in defining and measuring quality and outcomes. The rate study and rate models therefore take an indirect approach to quality and outcomes as described in Section 4.1. Recognizing the pivotal role played by direct care workers in quality services and achieving outcomes, the rate models include market-based wages, a comprehensive benefits package, and more training for these staff. Additionally, the rate models assume increased funding amounts for program operations expenses such as supervision, quality assurance, training, and curriculum development.

B&A and DDS *consulted with stakeholders through the Developmental Services Task Force* several times during the rate study. Additionally and as described above, DDS and B&A sought to involve stakeholders in a far broader manner than required by the legislation, including surveys of providers as well as consumers and families, provider site visits, and a public comment process. Stakeholder involvement is described in detail in Section 2.1.

The *estimated cost* of implementing the rate models is described in Section 4.3.

PART 1: BACKGROUND ON DDS VENDOR RATE STUDY AND HCBS RATE-SETTING

The California Department of Developmental Services provides a variety of services to more than 330,000 children and adults with developmental disabilities, developmental delays, or established risk conditions.¹ Home and community-based services are primarily delivered through 21 nonprofit Regional Centers that, in turn, contract with several thousand nonprofit and for-profit service providers.

The State's system for establishing payment rates for the services delivered by these providers is complex, encompassing several different methodologies depending on the service provided. Rates are often inconsistent, with providers delivering the same service in the same area being paid different rates. Further, between 2003 and 2015, these payment rates were subject to various reductions, freezes, and other constraints, particularly during economic downturns.

In response to concerns regarding rates raised by Regional Centers, providers, and other stakeholders, the Legislature mandated that DDS conduct a study of payment rates. The rate study began with an inventory of the various approaches to rate-setting for HCBS as well as the methodologies currently employed in California.

"Ensuring accurate and adequate reimbursement to providers of waiver services facilitates the right services being available to individuals receiving community-based long-term services and supports."

- U.S. Centers for Medicare and Medicaid Services²

Section 1.1: Current DDS Payment Rates Environment

A primer prepared by DDS for the Developmental Services Task Force as part of its study of payment rates offers an overview of current rates for Regional Center services.³ The primer

¹ California Department of Developmental Services. (February 11, 2019). Monthly Consumer Caseload Report (through January 2019). Retrieved from <https://www.dds.ca.gov/FactsStats/docs/January2019Caseload.pdf>.

² Centers for Medicare & Medicaid Services. (February 2016). Rate Methodology in a FFS HCBS Structure. Retrieved from <https://www.medicare.gov/medicaid/hcbs/downloads/rate-setting-methodology.pdf>.

³ California Department of Developmental Services – Developmental Services Task Force. (n.d.). Regional Center Services Rates Overview. Retrieved from https://www.dds.ca.gov/DSTaskForce/docs/DSTF-R_2_RevisedRateProcessOverview.pdf. The DS Task Force was originally established in 2013 to address the service needs developmental residents. Its charge was later expanded to include a review of rate methodologies and other issues related to the developmental services system.

summarizes the variety of rate-setting methodologies employed by DDS and the Regional Centers, including rates that are:

- *Set by DDS* based on provider cost statements, fee schedules, regulation, or statute. Service rates covered by this methodology include community-based day programs, community care facilities (set by the Alternative Residential Model, ARM), in-home respite, supported employment, work activity programs, and infant development programs.
- Based on a *schedule of maximum allowances* through which the rate paid by a Regional Center is equivalent to the rate established by the Department of Health Care Services for the same service. This methodology primarily applies to medical service providers, such as nurses, home health aides, and therapists.
- Established as *usual and customary* rates that allow providers to charge the same rate that they charge to the general public if at least 30 percent of the provider's customers are not Regional Center consumers. Examples of services with usual and customary rates include day care, diaper services, and public transportation providers.
- *Set by the Department of Social Services*. This methodology applies to out-of-home respite services in facilities with rates established by DSS.
- *Negotiated* between the Regional Center and the provider. For new providers, the upper limit of negotiated rates for each service is the lesser of the Regional Center's current median rate or the current statewide median rate. Examples of services subject to negotiated rates include supported living, specialized residential facilities, and behavior analysts.
- *Fixed at the Regional Center's mileage rate* for its employees. This methodology applies to transportation provided by a family member.

For some services, multiple methodologies may be applicable. In these instances, the rate is based on the provider's already established rate (that is, based on the schedule of maximum allowance or a usual and customary rate) or the rate established by DDS. Otherwise, the rate is negotiated between the provider and the Regional Center up to the applicable median.

A companion document to the rates overview primer prepared for the DS Task Force notes that rate adjustments were infrequent and modest between July 2003 and June 2015, as illustrated in Figure 1-1.⁴

⁴ California Department of Developmental Services – Developmental Services Task Force. (n.d.). Rate Actions History July 2003 through June 2015. Retrieved from https://www.dds.ca.gov/DSTaskForce/docs/DSTF-R_3_RateActionsHistory2003to2015.pdf.

Figure 1-1: Changes to DDS Service Rates, Fiscal Years 2003-04 Through 2014-15

Fiscal Year	Adjustment
FY2003-04	▼ Rate freezes for a number of services, including community-based day programs, in-home respite agencies, supported living, and transportation
FY2004-05	▼ Rates for work activity programs were frozen
FY2006-07	▲ Rate increases to account for rising statewide minimum wage
	▲ 3 percent increase for a number of services with rates set by DDS or through negotiation with the Regional Centers
	▲ Targeted 3.86 percent wage enhancement for certain services provided in integrated settings
	▲ 24 percent increase for supported employment
FY2007-08	▲ Rate increases to account for rising statewide minimum wage
FY2008-09	▼ Rate freeze for all services with negotiated rates
	▼ Implementation of statewide median rates that set a limit on negotiated rates for new providers
	▼ 10 percent reduction for supported employment
FY2009-10	▼ 3 percent reduction for all services except for supported employment and usual and customary rates
FY2010-11	▼ 1.25 percent reduction for all services except for supported employment and usual and customary rates
FY2011-12	Institution of updated statewide median rates
FY2012-13	▲ Restoration of 3 percent reduction
FY2013-14	▲ Restoration of 1.25 percent reduction
FY2014-15	▲ Rate increases to account for rising statewide minimum wage
	▲ 5.82 percent increase for in-home respite, supported living, and personal assistance due to change in federal overtime rules

In the midst of the rate reductions that occurred during and immediately after the Great Recession that began in late 2007 and ended in mid-2009, the University of California, Los Angeles' Center for Health Policy Research issued a policy note⁵ that identified a number of resultant challenges, including:

⁵ University of California, Los Angeles Center for Policy Research. (March 2011). Policy Note: Challenges to Sustaining California's Developmental Disability Services System. Retrieved from

- A number of providers reporting an operating deficit, threatening their financial viability
- Providers forced to offer lower pay to staff than paid by comparable employers, resulting in a struggle to recruit and retain direct care workers
- A potential inability for the system to meet the needs of service recipients

In the years after that report, rates were increased several times, first to restore a portion of the previous reductions and then to fund changes to the State's minimum wage and federal overtime requirements. Despite these increases, a number of stakeholders continued to express concerns regarding both rate methodologies and the actual rates.

Section 1.2: Requirement for Vendor Rate Study

In June 2015, Governor Edmund G. Brown, Jr. issued a proclamation calling for, amongst other provisions, "Sufficient funding to provide additional rates increases for providers of Medi-Cal and developmental disability services."⁶ Ultimately, the California Legislature passed ABX2-1 during the Second Extraordinary Session of the 2015-16 legislature.⁷ This legislation appropriated \$244.9 million in General Fund for DDS vendor rate increases. Including federal funds, rates were increased by more than \$400 million in total. The legislation targeted these increases to a number of areas, including direct care workers, agency administrative expenses, and targeted increases for supportive and independent living services, respite, supported employment, and transportation.

In addition to the rate increases, the legislation required that DDS undertake a rate study⁸:

On or before March 1, 2019, the department shall submit a rate study to the appropriate fiscal and policy committees of the Legislature addressing the sustainability, quality, and transparency of community-based services for individuals with developmental disabilities. The department shall consult with stakeholders, through the developmental services task force process, in developing the study. The study shall include, but not be limited to, all of the following:

<http://healthpolicy.ucla.edu/publications/Documents/PDF/Challenges%20to%20Sustaining%20California%E2%80%99s%20Developmental%20Disability%20Services%20System.pdf>.

⁶ State of California Executive Department. (June 16, 2015). A Proclamation by the Governor of the State of California. Retrieved from https://www.ca.gov/archive/gov39/wp-content/uploads/2017/09/6.16.15_Health_Care_Special_Session.pdf.

⁷ 2015-2016 2nd Ex. Sess., Ch. 3, Cal. Stat. 2016.

⁸ Codified at WIC § 4519.8.

- (a) An assessment of the effectiveness of the methods used to pay each category of community service provider. This assessment shall include consideration of the following factors for each category of service provider:
 - (1) Whether the current method of ratesetting for a service category provides an adequate supply of providers in that category, including, but not limited to, whether there is a sufficient supply of providers to enable consumers throughout the state to have a choice of providers, depending upon the nature of the service.
 - (2) A comparison of the estimated fiscal effects of alternative rate methodologies for each service provider category.
 - (3) How different rate methodologies can incentivize outcomes for consumers.
- (b) An evaluation of the number and type of service codes for regional center services, including, but not limited to, recommendations for simplifying and making service codes more reflective of the level and types of services provided.

DDS released a request for proposals in February 2017 for a contractor to assist in the facilitation of the rate study.⁹ Through this competitive procurement process, DDS awarded a contract to Burns & Associates, Inc. in June 2017.

B&A is a national health policy consulting firm that consults primarily to State Medicaid and related public health agencies. One of the firm's primary focuses is the intellectual and developmental disabilities field, with particular emphases in the areas of rate-setting, the use of assessments to inform individualized budgets, and program operations, including policy development, fiscal analysis, and billing rules. Over the past ten years, B&A has conducted or is in the process of conducting similar comprehensive rate studies for HCBS for individuals with I/DD in ten other states: Arizona, Georgia, Hawaii, Maine, Mississippi, New Mexico, Oregon, Rhode Island, Vermont, and Virginia.

B&A's project team included two subcontractors:

- The Human Services Research Institute is a nonprofit organization working in the I/DD field since 1976, with areas of emphases including quality improvement, systems design promoting person-centered thinking, self-direction, and community integration. Additionally, HSRI, in partnership with the National Association of State Directors of Developmental Disabilities Services, developed the National Core Indicators to measure quality across 100 consumer, family, systems, cost, and health and safety outcomes.

⁹ RFP# HD 169057, entitled DDS Vendor Rate Study.

- Mission Analytics Group is a San Francisco-based firm with focuses on long-term services and supports; developmental disabilities; children, youth, and families; and healthcare delivery. Mission has been DDS' risk management contractor since 2005.

The scope of work outlined in the DDS Vendor Rate Study RFP called for the contractor to conduct a rate study consistent with the requirements of ABX2-1 and specifically mandated the development of rate models that:

- Detail specific assumptions related to direct care worker wages, benefits, and billable hours; staffing ratios; member attendance; transportation; agency overhead; and any other relevant factors,
- Rely on data collected through a provider survey and other independent sources, and
- Include supporting documentation.

In terms of the services to be considered, DDS generally excluded service codes with rates that are set by external parties or forces. Services reimbursed according to a schedule of maximum allowances (that is, set by DHCS), rates set by DSS, or usual and customary rates (that is, set by the larger marketplace) were not part of the rate study. Thus, of the more than 150 service codes, only 62 were included in the rate study. However, these 62 service codes, which are listed in Figure 1-2, accounted for more than 90 percent of HCBS spending in fiscal year 2016-17.

Figure 1-2 (part 1): List of Service Codes Included in Vendor Rate Study

017- Crisis Team-Eval./ Behavior Modification	025- Tutor Services-Group
028- Socialization Training Program	048- Client/Parent Supp. Behavior Intervention
055- Community Integration Training Prog.	062- Personal Assistance
063- Community Activities Support Services	073- Parent Coordinator Supported Living
091- In-Home/Mobile Day Program	093- Parent-Coordinated Personal Assistance
094- Creative Arts Program	103- Specialized Health, Treatment, Training
106- Specialized Recreational Therapy	108- Parenting Support Services
109- Program Support Group-Residential	110- Program Support Group-Day Service
111- Program Support Group-Other Services	113- DSS Licensed-Spec Residential Facility
115- Specialized Therapeutic Services (3-20)	116- Early Start Specialized Therapeutic Svcs.
117- Specialized Therapeutic Services (21+)	420- Voucher Respite
465- Participant-Directed Respite Services	475- Participant-Directed Comm. Training
505- Activity Center	510- Adult Development Center
515- Behavior Management Program	520- Independent Living Program
525- Social Recreation Program	605- Adaptive Skills Trainer
612- Behavior Analyst	613- Associate Behavior Analyst
615- Behavior Management Assistant	616- Behavior Technician-Paraprofessional
620- Behavior Management Consultant	635- Independent Living Specialist
645- Mobility Training Services Agency	650- Mobility Training Services Specialist
680- Tutor	805- Infant Development Program

Figure 1-2 (part 2): List of Service Codes Included in Vendor Rate Study

860- Homemaker Services	862- In-Home Respite Services
864- In-Home Respite Worker	875- Transportation Company
880- Transportation-Additional Component	882- Transportation-Assistant
883- Transportation Broker	894- Supported Living Administration
896- Supported Living Services	899- Comm. Crisis Home Transitional Costs
900- Enhanced Behav. Supp. Home Facility	901- Enhanced Behav. Supp. Home Individual
902- Comm. Crisis Home Facility Component	903- Community Crisis Home Individual
904- Family Home Agency	905- Residential Facility Adults, Owner Oper.
910- Residential Facility Child, Owner Oper.	915- Residential Facility Adult, Staff Operated
920- Residential Facility Child, Staff Operated	950- Supported Employment-Group
952- Supported Employment-Individual	954- Rehab Work Activity Program

Section 1.3: Overview of HCBS Rate-Setting Methodologies

The federal Centers for Medicare and Medicaid Services conducted a series of presentations in 2016 and 2017 on setting rates for home- and community-based services that comply with federal Medicaid requirements.¹⁰ In these presentations, CMS identifies and defines five common rate-setting methods¹¹:

1. *Fee schedule.* The provider receives a fixed, pre-determined rate for a single service for a designated unit of time. Rates do not vary by client, acuity, or provider.
2. *Negotiated market rate.* The provider is paid a rate based upon a negotiation to reach an agreed-upon market price for a service. This approach typically involves a range of permissible rates determined by reviewing prices for other providers of similar services.
3. *Cost reconciliation.* The provider files cost reports created by the state, ultimately to be reimbursed at the true cost of service. Since these payments are retrospective (that is, based on costs that are actually incurred), providers are initially paid an interim rate. Final rates based on the cost reports are ‘reconciled’ against the interim rate with providers being paid or paying back the difference.
4. *Tiered rate.* The provider receives payment based on a rate that varies by identified characteristics of the individual (often based on an assessment), the provider, or some combination of both.
5. *Bundled rate.* The provider is paid a rate that encompasses two or more discrete services with distinct purposes that are not closely related.

¹⁰ Centers for Medicare & Medicaid Services. Home & Community Based Services Training Series. Accessed at <https://www.medicare.gov/medicaid/hcbs/training/index.html>.

¹¹ Centers for Medicare & Medicaid Services.(n.d.). Documentation of Rate Setting Methodology. Retrieved from <https://www.medicare.gov/medicaid/hcbs/downloads/hcbs-1b-transparent-documentation.pdf>.

In practice, these methodologies may overlap. This is particularly true for tiered rates and bundled rates. In B&A's experience, these rates are typically paid according to a fee schedule, making them a subset of this methodology rather than separate, discrete methods.

CMS also presents a number of risks, advantages, and disadvantages associated with each of these methodologies, which are reported in Figures 1-3, 1-4, and 1-5.¹²

Figure 1-3: Potential Risks Associated with HCBS Rate-Setting Methodologies (from CMS)

<p><i>Fee Schedule</i></p> <ul style="list-style-type: none"> • Undocumented services (e.g., fraud) • Rates are typically based on averages, but actual costs of individual providers can vary widely depending on size, competitive wage rate, transportation costs, etc. • Perceived low rates might lead to access issues and shallow provider networks
<p><i>Negotiated Market Rate</i></p> <ul style="list-style-type: none"> • Improper training of negotiators (both providers and State officials) can lead to improper rate agreements • Product/ services purchased through negotiated prices could greatly exceed average prices of such goods • Lack of accountability in oversight, rate determinations, and billing processes
<p><i>Cost Reconciliation</i></p> <ul style="list-style-type: none"> • Lengthy and cumbersome process of creating cost reports for providers • Incorrect or inaccurate cost reports used • Lag in reimbursement due to drawn out reconciliation process • Higher or lower-than-expected outlays realized during reconciliation
<p><i>Tiered Rate</i></p> <ul style="list-style-type: none"> • Unreliability of assessment tools can undermine credibility of assessment results <ul style="list-style-type: none"> ○ Selecting a tool that does not align with state needs can lead to this problem ○ Results can also be skewed by not sufficiently addressing the needs of outliers
<p><i>Bundled Rate</i></p> <ul style="list-style-type: none"> • Low levels of provider participation due to complex and lengthy applications and/or low rates • State needs to be able to document that services were actually provided

¹² Centers for Medicare & Medicaid Services. (February 2016). Rate Methodology in a FFS HCBS Structure. Retrieved from <https://www.medicaid.gov/medicaid/hcbs/downloads/rate-setting-methodology.pdf>.

Figure 1-4: Potential Advantages of HCBS Rate-Setting Methodologies (from CMS)

<p><i>Fee Schedule</i></p> <ul style="list-style-type: none"> • Easy to calculate estimated spending • Simple to explain and understandable to the provider community • Simple to administer
<p><i>Negotiated Market Rate</i></p> <ul style="list-style-type: none"> • Flexibility • Each subcategory has its own resources and labor costs
<p><i>Cost Reconciliation</i></p> <ul style="list-style-type: none"> • Rates will reflect the actual administrative, staff, and care costs of operating the facility
<p><i>Tiered Rate</i></p> <ul style="list-style-type: none"> • Creates incentives to serve beneficiaries with higher service needs
<p><i>Bundled Rate</i></p> <ul style="list-style-type: none"> • Useful in setting rates for services that are difficult to separate by components

Figure 1-5: Potential Disadvantages of HCBS Rate-Setting Methodologies (from CMS)

<p><i>Fee Schedule</i></p> <ul style="list-style-type: none"> • Could lead to over-utilization • Incentivizes services to individuals at lower levels of acuity
<p><i>Negotiated Market Rate</i></p> <ul style="list-style-type: none"> • Difficult for State to establish guidance for negotiations • Parameters for spending tend to localize spending at the upper limit
<p><i>Cost Reconciliation</i></p> <ul style="list-style-type: none"> • Developing cost reports will take time and there is no one set way to do this • Educating the provider on completing the cost report and cost settlement process will add burden to the state and the provider in the first few years
<p><i>Tiered Rate</i></p> <ul style="list-style-type: none"> • Tier descriptions must be specific and precise • Tiers applied statewide may need to consider regional rates to reflect differences in direct care costs • Greatly increases the number of rates to monitor in your payment system
<p><i>Bundled Rate</i></p> <ul style="list-style-type: none"> • Incentivizes providers to serve individuals with lower care needs and avoid individuals when their needs push against the payment amount • Incentivizes providers to set their internal admission and retention policy to balance acuity so that the rate meets the needs of an average individual

- More labor intensive to develop a bundled rate particularly if it is directly tied to the person's individualized service plan

Each of these methodologies are employed in states across the country to produce rates that comply with Medicaid requirements. In fact, DDS uses elements of each of these methodologies in its current rate-setting practices for various services.

For the purposes of this rate study, ABX2-1 directed DDS to evaluate rate-setting methodologies based on whether they would support a sufficient supply of providers to allow consumer choice, the fiscal impact, and the extent to which they incentivize outcomes. Ultimately, achieving the goal of a community-based services system that is sustainable, of high quality, and transparent is less a function of the specific rate-setting methodology than it is of the rates themselves.

This is particularly true in regards to the supply of providers. If payment rates are insufficient, it is unlikely that a robust provider network will be sustained, regardless of the rate-setting methodology. A cursory comparison of California's rates for three primary service groups to those paid by several other western states provides some evidence that existing rates may not be sufficient.¹³

Figure 1-6 shows that California's rates for these core services are generally lower than those paid in other states, except for independent living program rates that are in the range paid by other states. The findings from the rate comparison suggest that the existing rates *may* affect the stability and quality of providers.¹⁴ However, the inconsistent use of service codes across Regional Centers makes it difficult to compare service usage across the State.

¹³ Comparisons of HCBS payment rates across states are often imprecise because of differences in service requirements (for example, staffing levels or definitions of billable activities) as well as cost of living. For this reason, the rate study did not include more extensive rate benchmarking. While a comparison between any two rates would require adjustments to account for these differences, comparisons across multiple states are useful in determining whether a given state is outside of the typical range of rates.

¹⁴ The rate study does not attempt to offer a quantifiable standard for "an adequate supply of providers". There is no national standard and the federal requirement that rates be "sufficient to enlist enough providers so that care and services are available under the plan at least to the extent that such care and services are available to the general population in the geographic area" is difficult to apply to HCBS for persons with I/DD as there is no substantial private market for comparative purposes.

Figure 1-6: Comparison of Select HCBS Payment Rates in California and Four Other Western States

State	Residential (per month) ^a	Day Habilitation (per day) ^b	In-Home Supports (per hour)
California^c	Comm. Care Facility, 4 or Fewer Beds \$3,674 – \$8,170	Adult Develop. Center/ Adult Activity Center \$28.74 – \$74.15	Independent Living Program \$25.41 – \$48.74
Arizona^d	Habilitation, Group Home, 4 Residents \$1,328 – \$9,999	Day Treatment and Training, Adult \$39.90 – \$68.16	Habilitation, Support \$21.81 – \$22.43
Hawaii^e		Adult Day Health/ Community Learning \$64.80 – \$175.44	Personal Asst./ Habilitation \$29.84 – \$34.56
New Mexico^f	Supported Living \$5,947 – \$11,931	Custom. Comm. Supp. \$64.32 - \$96.48	Custom. In-Home Supp. \$27.48
Oregon^g	Adult 24-Hr. Residential, 4-5 Residents \$5,455 – \$12,008	Day Support Activity \$53.40 – \$156.06	Attendant Care \$27.28
<p>^a Most states pay for residential supports using daily rates. These have been converted to a monthly amount by multiplying by 365 and the dividing by 12.</p> <p>^b Most states pay for day habilitation services using hourly rates. These have been converted to a daily amount assuming six hours of service per day.</p> <p>^c https://www.dds.ca.gov/Rates/ReimbRates.cfm.</p> <p>^d https://des.az.gov/sites/default/files/media/DDD_Ratebook_January_1_2019_Updated_2.pdf. Reported rates are ‘adopted’ rates in effect rather than ‘benchmark’ rates that have not been implemented due to a lack of funding. Group home rates exclude nutritional and incontinence modifiers. Day Treatment and Training excludes behaviorally or medically intense programs.</p> <p>^e https://health.hawaii.gov/ddd/files/2018/10/IDD-Waiver-Rate-Sheet-Effective-07-01-18.pdf. There are few staff-operated group homes in the State and there are not separate rates for these homes.</p> <p>^f http://www.hsd.state.nm.us/uploads/FileLinks/e7cfb008157f422597cccdc11d2034f0/1_1_19_Finalversion_DDS_D_DEVELOPMENTAL_DISABILITIES_WAIVER_FEE_SCHEDULE_1_7_18__002_.pdf.</p> <p>^g https://www.oregon.gov/DHS/SENIORS-DISABILITIES/DD/PROVIDERS-PARTNERS/EngagementInnovation/expand-guidelines-v8-tracked-changes-accepted.pdf. The State recently completed a rate study and is seeking to increase all of the listed rates.</p>			

The use of payment methodologies to incentivize outcomes remains limited in HCBS programs. Various studies on this topic have provided a number of explanations, including:

- The National Quality Forum identified barriers including a lack of standardized measures, a lack of access to timely data, varied reporting requirements, and the administrative burden placed on a state.¹⁵
- According to the Center for Evidence Based Policy's Medicaid Evidence-Based Decisions project, challenges include the diversity of HCBS programs, beneficiary and provider heterogeneity, provider and system capacity, and varied stakeholder viewpoints.¹⁶
- The Kaiser Family Foundation noted a lack of specific guidance in terms of comprehensive quality metrics.¹⁷
- The National Association on States United for Aging and Disability listed challenges that include the unique needs of the I/DD population that make it difficult to adopt quality measures used with other Medicaid populations, existing measures that do not emphasize individual outcomes and experiences, the difficult in quantifying quality-of-life measures, and a lack of agreement on how to define quality.¹⁸
- The American Network of Community Options and Resources (ANCOR), a national nonprofit trade association of HCBS providers, found quality and outcome measures are not widely agreed upon and that the field is still evolving to measure and incentivize aspects of community services that go beyond medical care to measure goals like independence and individual choice, but that these measures are not easily defined.¹⁹

Thus, while the rate study reflects increased provider rates that aim to improve the quality of services through the enhancement of the direct care workforce, DDS should continue to look for

¹⁵ The National Quality Forum (2016). *Quality in Home and Community-Based Services to Support Community Living: Addressing Gaps in Performance Measurement (Final Report)*. Retrieved May 11, 2018 from <https://www.qualityforum.org/WorkArea/linkit.aspx?LinkIdentifier=id&ItemID=83433>.

¹⁶ Bennett, A., Curtis, P., and Harrod, S. The Milbank Memorial Fund. (July 2018). *Bundling, Benchmarking, and Beyond: Paying for Value in Home-and Community-Based Services*. Retrieved from <https://www.milbank.org/wp-content/uploads/2018/07/MMF-HCBS-Report-FINAL.pdf>.

¹⁷ Reaves, E., Musumeci, M. *Medicaid and Long-Term Services and Supports: A Primer*. Kaiser Family Foundation; 2015. Retrieved from <https://www.kff.org/medicaid/report/medicaid-and-long-term-services-and-supports-a-primer/>

¹⁸ UnitedHealth Care, Community & State. (May 2016). *Quality Improvement for Individuals with Intellectual & Developmental Disabilities: A Proposed Framework*. Retrieved from http://www.nasuad.org/sites/nasuad/files/CST11139_IP16_Whitepaper_NAB_ID_DD_050916.pdf.

¹⁹ American Network of Community Options and Resources. (January 2019). *Advancing Value & Quality in Medicaid Service Delivery for Individuals with Intellectual & Developmental Disabilities*. Retrieved from http://ancor.org/sites/default/files/advancing_value_quality_in_medicaid_service_delivery_for_individuals_with_id.pdf.

opportunities to incentivize outcomes, such as its recent adoption of incentive payments associated with placing and maintaining consumers in competitive integrated employment.

Based on the forgoing considerations, the rate study concludes that, if changes are made to DDS' payment structures, a rate-setting methodology based on a fee schedule would be the best option. In particular, this approach would have the benefits of providing transparency, supporting equity across consumers and providers, and simplifying rate-setting. That said, the rate study does not envision a one-size-fits-all approach. For example, the rate models take into consideration differences in staffing levels driven by the needs of consumers and account for regional variation in the cost of service delivery. Some services – such as Enhanced Behavioral Support Homes and Community Crisis Homes – are so variable that a fixed rate is not practicable. However, even in these instances, the rate models recognize opportunities to standardize certain elements of the rates.

PART 2: OVERVIEW OF THE RATE STUDY AND DATA COLLECTION

As the rate study commenced, B&A worked with DDS and the DS Task Force's Rates Workgroup to develop a shared understanding of how it would be conducted and how rate models would be constructed. B&A also began developing an understanding of California's system of supports for individuals with intellectual and developmental disabilities and began collecting information from a variety of sources.

Section 2.1: Rate Study Principles and Goals

In order to guide the rate study, several project principles and goals were established.

Stakeholder Involvement

A key principle of the rate study was ensuring that there were meaningful opportunities for involvement by stakeholders, including consumers and their families, providers, Regional Centers, and system advocates. ABX2-1 required that the rate study include "consult[ation] with stakeholders, through the developmental services task force process." Recognizing that broad stakeholder participation would benefit the rate study by providing an 'on the ground' perspective, the procurement that DDS developed for the rate study extended beyond the legislated requirements and, once the project's scope of work was finalized, both the Department and B&A sought further opportunities for stakeholder involvement.

The DS Task Force's Rates Workgroup was a primary source of stakeholder engagement, consistent with ABX2-1 requirements. A total of six in-person meetings, including multi-day sessions, were held with the Task Force or its Rates Workgroup. In the initial stage of the project, the group was convened to present the approach to the rate study and to garner members' feedback on that presentation as well as their perspective on current systems issues. A series of three onsite meetings were conducted in order to walk-through a draft of the provider survey and then to discuss revisions in response to their feedback. After the survey was completed, the results were presented to the Rates Workgroup. Leading up to the submittal of this report, a meeting was convened in Northern California and another in Southern California to present the study's findings and conclusions and to provide them the information they need to offer comments on the rates models.

Over the course of the rate study, B&A received a number of requests for presentations regarding the scope, timing, and progress of the project. B&A endeavored to fulfill all of these requests, traveling across the State to meet with groups including:

- The Association of Regional Center Agencies, including separate presentations for executive directors, program directors, and finance staff

- The California Person-Centered Advocacy Partnership
- The California Disability Services Association
- The Service Employees International Union
- The Los Angeles Coalition of Service Providers

A key informant for the development of the rate models was information gathered through a provider survey designed to collect information regarding service delivery and costs. Although the scope of work for the project called for designing a sample of providers to be invited to participate in the survey, B&A was able to automate some of its processes, allowing the survey to be opened to *all* agency providers. Additional information regarding the survey, including its contents and the provider participation rate, is included in Section 2.3.

As the provider survey was being discussed with the Rates Workgroup, several members of the group requested that a formal effort also be made to gather input from consumers and their families. In response, DDS expanded the scope of work to include a consumer and family survey. The Human Services Research Institute led this effort, working in consultation with a consumer and family advisory group established for this purpose. Additional information regarding the survey, including its contents and the provider participation rate is included in Section 2.3.

To better understand service delivery in California, B&A arranged a number of meetings with individual service providers. This included approximately ten site visits wherein B&A observed programs firsthand and was able to facilitate in-depth discussions regarding program operations and costs. Additionally, B&A had a number of conference calls with various providers to discuss specific services.

This report is being issued while the next opportunity for stakeholder engagement, the public comment process, is underway. With the publication of the rate models and supplemental materials on February 25, 2019, members of the Rates Workgroup, the Regional Centers, and the Regional Center vendor advisory committees are invited to offer feedback through April 5, 2019. Commenters are specifically encouraged to consider the factors and cost assumptions in the rate models, the changes to service requirements assumed in the rate study, and whether the rate models accommodate the various manners in which services are currently being delivered.

Furthering Programmatic Goals

Recognizing that rates are only one element of California's systems of supports for persons with I/DD, the rate study sought to further certain programmatic goals to the extent practicable. Identified goals included:

- Supporting compliance with applicable regulations such as state and federal labor laws and the HCBS final rule.
- Recognizing the importance of the direct care workforce by providing market-based wages, a comprehensive benefits package, and more training, regardless of whether they are employed by an agency or through a participant-directed model.
- Improving services for all consumers regardless of where they live or the language they speak.
- Accounting for the often-higher costs associated with community-based services in relation to center-based services.
- Encouraging the use of competitive integrated employment services rather than work activity programs.
- Supporting an array of community living options for individuals at all levels of need.

Standardizing Operations

In addition to the programmatic goals discussed above, consideration was given to a number of operational issues, including:

- Simplifying the service system, including the consolidation of overlapping service codes. For example, there are currently two service codes (025 and 680) for tutoring services that could be combined.
- Improving insights into service utilization by narrowing service definitions and/or establishing standardized subcodes. For example, DDS cannot comprehensively report the number of individuals receiving supported employment because, in addition to the ‘actual’ service code for individual supported employment (952), the service may be billed under service codes 055 and 063, both of which are used for a variety of different types of support.
- Increasing consistency in the use of service codes by establishing and updating regulations, including for miscellaneous service codes.
- Standardizing billing units for each service code; for example, the fiscal year 2016-17 claims data reveal that at least five unique unit types were claimed for service code 612 for behavior analysts, including hourly units, monthly units, visits/ sessions, and mileage.
- Aligning payments with Medi-Cal for certain medical and clinical practitioners, including a process for authorizing an enhanced rate for these practitioners when warranted by unusual circumstances to meet an individual’s needs, consistent with state regulations to be developed by DDS.

Section 2.2: 'Independent' Rate Models

As noted in Part 1 of this report, the request for proposals for a consultant to conduct the rate study sought the establishment of rate models for each service included in the rate study. B&A employs its independent rate model approach to develop HCBS fee schedules.

In this approach, rate models are constructed in accordance with state and federal requirements to reflect the reasonable costs that providers incur in the delivery of services. In constructing the models, there are five primary cost areas that are included for each service:

1. Direct service staff wages
2. Direct service staff benefits
3. The productivity of direct service staff; that is, the proportion of time that they are providing billable services
4. The provider's program operation costs
5. The provider's administrative expenses

Additional cost factors are incorporated in rate models depending on the unique nature of each individual service. Other factors can include staffing ratios and staffing levels, attendance/absence factors, travel-related expenses, facility costs, and program supplies.

Once the relevant cost factors for a given service are determined, assumptions are made regarding the values associated with those factors. For example, for a service that requires a direct care worker to travel to an individual's home, the rate model for that service needs to include assumptions regarding the number of miles that a direct care worker drives each week to reach and/or transport consumers and the appropriate cost per mile.

B&A refers to its rate-setting approach as *independent* because cost assumptions are not *dependent* on any single source of information. In particular, providers' current cost data is an important consideration in the development of rate model assumptions, but it is not the only consideration. This is because provider costs are largely a function of the rates that they are paid, particularly in HCBS systems wherein there are few, if any, other payers. Thus, if payment rates are too low, costs will be artificially depressed. Conversely, if rates are too high, services may not be delivered in an efficient manner.

Figure 2-1 presents an example of an HCBS rate model.

Figure 2-1 Rate Model Example (Independent Living)

	Unit of Service	Hour
Direct Support Staff Wages and Benefits	- Direct Staff Hourly Wage	\$14.89
	- Employee Benefit Rate (as a percent of wages)	30.60%
	Hourly Staff Cost Before Productivity Adj. (wages + benefits)	\$19.45
	<i>Productivity Assumptions</i>	
	Total Hours	40.00
	- Travel Time Between Individuals	1.33
	- Recordkeeping and Reporting	0.89
	- Supervision and Other Time	0.89
	- Training	0.67
	- Paid Time Off	3.85
	"Billable" Hours	32.37
	Productivity Adjustment	1.24
	Staff Cost After Productivity Adj. per Billable Hour	\$24.12
Mileage	- Number of Miles Traveled per Week	100
	- Amount per Mile	\$0.580
	Weekly Mileage Cost	\$58.00
	Mileage Cost per Billable Hour	\$1.79
Supervision	- Supervisor Hourly Wage	\$21.04
	- Supervisor Benefit Rate	25.12%
	Weekly Cost of Equipment and Supplies	\$1,053.01
	- Number of Direct Staff Supervised	10
	Supervision Cost per Billable Hour	\$3.25
Admin. and Prog. Ops.	- Program Operations Funding per Day	\$10.00
	Program Operations Cost per Billable Hour	\$1.54
	- Administration Percent	12.0%
	Administrative Cost per Billable Hour	\$4.19
	Rate per Hour	\$34.89

As the example shows, the total rate is comprised of a number of cost factors. As noted above, the rate model assumptions are intended to represent reasonable or typical costs. It is expected that, for any given provider, their actual costs will be lower for some factors and higher for others. Further, the individual assumptions in the rate models are not prescriptive on providers; for example, providers are not obligated to pay their staff the exact wage assumed in the rate model.

There are several advantages to this approach to rate-setting:

- *Equity.* Providers would receive the same rate for delivering the same service in the same area, rather than rates that vary based on providers' historical costs, negotiating prowess, or date when they began delivering services.
- *Transparency.* As shown in the example, the rate models specify the factors, values, and calculations that produce the overall rate. Stakeholders may not agree with all of the assumptions, but they should understand them.
- *Ability to advance policy goals/ objectives.* Targeted adjustments to individual rate model assumptions can be made. For example, policymakers could change direct care staff salaries or benefits, change staff training, change staff-to-consumer ratios, incentivize services delivered in the natural environment, etc.
- *Efficiency in adjusting rates.* Subject to available funding, the rate models can be adjusted to update specific cost factors based on newer data.

These advantages are particularly apparent when compared to the existing system of rates in the State, which can be inequitable, opaque, and inefficient.

Section 2.3: Sources of Data

The rate study included substantial research and analysis to identify data that would support the development of the rate models.

Review of Service Requirements

Home and community- based services differ from most medical programs in that there is generally a lack of national standards. For most medical procedures, there is a consistent standard from state-to-state. That is, a given procedure 'looks' the same regardless of where it is performed. This is not true of HCBS, however.

Using community-based day programs – which every state in the country covers in their HCBS programs – as an example, there are significant differences across the states. For example, some states allow staffing ratios of ten or more consumers for every direct care worker whereas other states limit the ratio to no more than three consumers per worker. Some states allow consumers to attend up to 40 hours per week; others have limits of fewer than 25 hours per week. Some states require day programs to provide transportation; others do not. Some states require day programs to provide a meal to consumer; others do not. All of these policies have an impact on providers' costs.

Thus, a first step in the rate study was researching and documenting service requirements in California. B&A reviewed statutes and regulations governing DDS services, Regional Center

policy manuals, and previous studies and reports related to payment rates.²⁰ As part of its research, B&A noted that many service codes lack well-defined parameters and have only broad definitions. Based on this review, B&A facilitated a multi-day meeting with DDS staff to clarify any ambiguities and to discuss DDS' policy intentions for all services, but particularly those lacking well-defined requirements.

This step also included a detailed review of federal and state laws affecting service delivery, including the federal Fair Labor Standards Act, the federal HCBS final rule, California wage orders, and scheduled changes to State minimum wage levels.

Service Utilization Analysis

To further contextualize services and to begin to understand the cost of service delivery and utilization, B&A evaluated fiscal year 2016-17 claims data for services included in the rate study both statewide and at the Regional Center level. Figure 2-2 reports fiscal year 2016-17 spending levels and client and Regional Center utilization for these in-scope services.

²⁰ These reports included: *Controlling Regional Center Costs* published December 2007 by DDS, and three reports published by ARCA: *Funding the Work of California's Regional Centers* published September 2013, *Inadequate Rates for Service Provision in California* published January 2014, and *On the Brink of Collapse* published February 2015.

Figure 2-2: Summary of Spending Levels, Consumer Counts^a and Regional Center Counts for Services Included in the Rate Study, Fiscal Year 2016-17

Service Code	POS Claims	Unique Consumers	RCs Utilizing	Service Code	POS Claims	Unique Consumers	RCs Utilizing
17	\$22,554,871	868	20	605	\$58,618,837	10,871	19
25	\$576,929	163	10	612	\$45,268,410	8,685	21
28	\$31,717,594	5,049	18	613	\$5,473	1	1
48	\$44,263,045	4,706	18	615	\$20,677,468	2,620	14
55	\$266,897,628	15,683	21	616	\$393,035	44	3
62	\$145,724,312	7,388	21	620	\$26,194,593	5,391	20
63	\$49,067,077	3,699	21	635	\$2,134,301	401	10
73	\$418,163	9	3	645	\$305,215	153	9
91	\$8,064,294	577	15	650	\$59,925	84	5
93	\$6,206,000	388	11	680	\$584,009	49	8
94	\$9,245,202	841	16	805	\$187,859,948	45,147	21
103	\$9,350,137	5,507	17	860	\$14,858,643	1,717	16
106	\$2,372,606	615	5	862	\$292,399,198	61,841	21
108	\$11,312,135	1,147	18	864	\$5,483	1	1
109	\$57,708,801	2,215	21	875	\$156,917,683	13,839	21
110	\$36,427,303	3,568	21	880	\$105,183,017	29,820	21
111	\$10,721,299	1,504	20	882	\$13,889,461	1,288	17
113	\$368,406,082	2,860	21	883	\$3,876,837	293	14
115	\$6,162,019	1,583	17	894	\$11,584,144	1,560	11
116	\$80,401,384	31,991	19	896	\$601,673,593	12,419	21
117	\$9,982,318	1,843	17	900	\$49,382	4	1
420	\$787,906	171	6	904	\$66,747,273	1,873	21
465	\$15,868,751	4,208	14	905	\$45,278,002	1,817	21
475	\$51,888	12	4	910	\$7,389,549	170	16
505	\$57,261,002	6,749	20	915	\$749,067,928	19,635	21
510	\$400,362,499	32,540	21	920	\$36,736,374	670	20
515	\$247,121,261	15,218	21	950	\$92,883,053	341	21
520	\$112,892,421	16,538	21	952	\$24,479,908	5,001	21
525	\$8,611,397	1,347	12	954	\$48,816,190	7,816	20

^a Counts of unique consumers are based on clients' unique identification numbers. For many services, this includes group billings where it is not always possible to determine how many consumers are included in the group.

In order to develop an understanding of current payment policies, B&A also analyzed billing units and average rates. That analysis demonstrated significant differences for many services in the basis of payment (such as an hour or a month) and in the rates paid. There were differences both across Regional Centers and even within Regional Centers, as illustrated in Figure 2-3.

Figure 2-3: Summary of Unit Types, Payments, and Range of Rates by Unit Type for Service Code 091 – In Home/ Mobile Day Program, Fiscal Year 2016-17

Regional Center	Day Units		Hourly Units		Mile Units	
	Payments	Range of Rates	Payments	Range of Rates	Payments	Range of Rates
CVRC	\$662,118	\$24.64 - \$71.82	\$26,762	\$11.90 - \$25.21		
ELARC			\$1,266,081	\$18.11 - \$42.57		
FDLRC			\$62,319	\$18.62 - \$27.36		
FNRC	\$469,329	\$46.78 - \$133.91	\$685,787	\$14.46 - \$20.11	\$608	\$0.26 - \$0.26
GGRC			\$238,224	\$17.40 - \$24.41		
KRC	\$354,082	\$54.20 - \$82.75				
NBRC	\$78,143	\$61.43 - \$61.43				
NLACRC			\$638,883	\$20.55 - \$27.36		
RCEB			\$2,142,406	\$21.64 - \$48.20		
RCRC			\$69,815	\$23.73 - \$25.13		
SARC			\$380,230	\$10.84 - \$27.05		
SCLARC			\$287,542	\$27.05 - \$29.12		
SGPRC			\$234,401	\$24.09 - \$29.37		
VMRC			\$288,749	\$25.21 - \$25.97		
WRC			\$178,814	\$13.53 - \$27.05		

This degree of variability illustrated the importance of carefully defining the requirements for the use of each service code. For example, a wide range of rates within a service code suggests that it

is likely that very different services are being delivered under that service code. Thus, the rate study sought to accommodate the different delivery modalities (and produce different rate models for these modalities) or define what is assumed to be permitted (and not permitted) under the rate model.

Provider Surveys

In order to understand providers' current cost structures, B&A developed and administered a Microsoft Excel-based survey to gather data such as:

- Wage and benefit costs for direct care, program operations, and administrative staff
- 'Productivity' (i.e., amount of time direct care workers spend providing direct care vs. other activities, such as non-billable recordkeeping)
- Cost of facilities, including rents, maintenance, utilities, etc.
- Staffing ratios
- Miles driven transporting recipients or traveling between encounters

An initial draft of the survey was shared with the Rates Workgroup in February 2018. The workgroup suggested a number of changes, largely asking that the survey capture a finer level of detail. B&A worked with the workgroup to finalize the instrument over the course of two additional meetings and a series of webinars.

Ultimately, the survey was deployed in May 2018 with a six-week turnaround time. In response to requests from providers, DDS agreed to extend the due date by four weeks, giving providers a total of ten weeks to complete the survey. Additionally, B&A granted a further extension to any agency that requested one and continued to accept surveys beyond the announced deadline.

A second, similar survey targeted at specialized therapeutic services that were not covered by the first survey was administered from September to October 2018.

For both surveys, technical assistance was offered in a number of ways. The survey itself was accompanied by written instructions. B&A recorded a series of webinars in which it walked through the survey page-by-page. A dedicated phone line and email account were established to accept and respond to questions.

The project work plan called for inviting a sampling of providers to complete the survey, but in the interests of being as inclusive as possible, DDS and B&A agreed to invite all agency

providers to participate. Of the 5,745 providers²¹ that provided a service covered by the two surveys, responses were received from 1,138, a 20 percent response rate. These respondents accounted for 52 percent of total spending on in-scope services, meaning that the survey captured a majority of total service costs.

The survey instrument, instructions, detailed analysis, and summary presentation are included as Attachment 3 of this report.

Individual and Family Survey

In response to requests from the Rates Workgroup and other community members, DDS expanded the scope of work for the rate study to include an individual and family survey. HSRI led this effort for the consulting team. An individual and family survey advisory group was established to provide input on the development of the survey instrument.

Understanding service recipients and their families do not have information regarding the cost of providing services, the survey was designed to offer an opportunity for persons with disabilities and their families to share their perspectives about issues related to their services. The survey included questions about themselves/ family members (e.g., level of support need, what is important to them). Then, respondents were asked to rate their experiences accessing and receiving services and their opinions regarding supports provided by staff as ‘good’, ‘fair’, or ‘poor’. The instrument was translated into 16 languages and was available for most of the month of October 2018.

In total, 1,732 responses were received from individuals, family members, and other respondents. While the survey used a convenience sample that makes it impossible to draw statistical conclusions, it provided an opportunity for DDS consumers and their families to share their perspectives related to their services. Although the survey was intended to capture information related to services provided through the Regional Centers, it is possible that some respondents may have reported information related to services outside of the scope of the rate study. The survey found that, for the most part, respondents are pleased with the support they receive (about 75 percent of respondents rated their staff as good). The survey also found that there is room for system improvement, particularly where areas with “good” ratings lower than 50 percent were identified. These included knowing about the system, finding services, quality staff, or getting specialized services, and choosing or changing staff. The results of the individual and family survey, along with the survey instrument, can be found in Attachment 4.

²¹ Since a separate vendorization is required for each program or site, a single legal entity (a ‘provider’ for the purposes of this report) may be counted as multiple vendors. The 5,745 providers accounted for 12,866 vendorizations.

Independent Data Sources

In addition to the information gathered from providers, individuals, and other stakeholders, other data sources used to inform the development of the rate models were identified, collected, and analyzed. For these independent sources, B&A endeavored to gather information that was current, credible, and directly applicable to the rate study.

These data sources include:

- Wage data from the Bureau of Labor Statistics and wage growth data from the Bureau of Economic Analysis.
- Data regarding the cost of health insurance from the BLS, the federal Department of Health and Human Services' Medical Expenditure Panel Survey, and Kaiser Family Foundation's analysis of exchange health care rates.
- The Internal Revenue Service's mileage rate, which is used to estimate the non-staff cost of travel.
- Commercial real estate costs from LoopNet, a subsidiary of the CoStar Group, and Colliers International.
- Bing's API Mapping Service for geo-spatial analysis.
- U.S. Census Bureau data related to population and population density.
- The Workers' Compensation Insurance Rating Bureau's advisory pure premium rates for workers' compensation rates.

Part 3 of this report details the methodologies employed to translate the information from these sources as well as the provider and individual and family surveys into rate model assumptions.

PART 3: RATE MODEL DEVELOPMENT

Drawing upon data collected through the provider survey and published data sources, and informed by input from DDS as well as consumers, families, and providers, B&A developed rate models for the services within the scope of the rate study.

The rate models encompass the factors that drive the costs of service delivery, the values associated with these factors, and the calculations employed to combine these factors into an overall rate for a prescribed time-based billing unit.²²

B&A began by constructing a ‘base’ rate model or models for each service code.²³ Then, to account for differences in costs associated with wages, travel, and real estate across the State, adjustment factors were applied to the base rate models for each service code, as relevant, to establish a rate model for each Regional Center.

Further adjustments to many of the rate models are made to support specific goals. For example, in order to most effectively support individuals who do not speak English – including those who are deaf or hard of hearing and communicate through American Sign Language – many services include a ‘non-English’ rate for staff providing services in the consumer’s language.

Section 3.1: Key Cost Factors in Base Rate Models

As discussed in Part 2, there are five common factors in B&A’s rate models for home and community-based services:

1. Wage paid to the direct care worker
2. Benefits package for the direct care worker
3. Productivity of the direct care worker
4. Provider-level program operations expenses
5. Provider-level administrative expenses

Other key cost factors – such as staffing levels and ratios, vehicle and facility expenses, and occupancy and attendance levels – apply to certain services and are discussed as warranted in the service code specific assumptions detailed in Part 4.

²² With the exception of monthly billing units for most residential services and trip rates for transportation services, the rate study generally assumes hourly billing units.

²³ Many services require multiple models to account for different permissible staffing levels or ratios, service settings, the length of the encounter, and other factors. The specific ‘variants’ for each service code are discussed in Part 4.

Direct Care Worker Wages

Payroll and benefits costs for direct care workers is the single largest category of expenses for HCBS providers; in B&A's experience, these costs often account for between 65 and 80 percent of total expenses. As a result, spending in these areas is most affected when payment rates do not reflect market costs. Thus, although current wage and benefit levels are informative, B&A primarily relied on independent, published sources of market wage data for comparable positions.

The Bureau of Labor Statistics within the United States Department of Labor produces employment and wage estimates for more than 800 standard occupational classifications. As the BLS states, it is the "only comprehensive source of regularly produced occupational employment and wage rate information for the U.S. economy, as well as States, the District of Columbia, Guam, Puerto Rico, the U.S. Virgin Island, and all metropolitan and nonmetropolitan areas in each State."²⁴ This statement highlights several of the features of the BLS data that makes it particularly useful for setting wage levels, including:

- *It is comprehensive.* BLS wage data is representative of 1.2 million establishments and about 57 percent of the employment in the United States.
- *It is regularly produced.* BLS wage data is published on an annual basis, allowing rate model assumptions to be regularly reviewed and updated.
- *It is cross-industry.* BLS wage data is not limited to a single industry so estimates for a given occupation are representative of the overall labor market for that occupation; this is particularly important when considering wage levels for traditionally underfunded programs such as Medicaid.
- *It is state- (and local-) specific.* BLS wage data is reported for individual states and sub-state areas, permitting the evaluation of wage variance across states and within a given state.

In order to utilize BLS data in the rate models, two adjustments were needed. First, the data had to be updated to make it current and, second, assumptions had to be developed when there was not a one-to-one relationship between the BLS occupations and the job functions of direct care workers providing a given service.

BLS wage data is typically published in late March of each year, with the data representing May of the previous year. Thus, the rate models use the May 2017 dataset, which was published in March 2018. In addition to typical wage inflation, the State's minimum wage in 2017 was \$10.50 per hour whereas the minimum wage is next scheduled to increase to \$13.00 per hour on January

²⁴ Bureau of Labor Statistics. (n.d.). Frequently Asked Questions. Retrieved from https://www.bls.gov/oes/oes_ques.htm.

1, 2020.²⁵ The rate models take steps to account for both wage inflation and the rising minimum wage.

Data from the federal Bureau of Economic Analysis was used to estimate wage inflation. According to the BEA, the compound annual growth rate for net earnings in California between 2007 and 2017 was 3.6 percent.²⁶ Applying this growth rate to the 32 months between May 2017 and January 2020, the date of the next minimum wage increase, yields a total inflationary adjustment of 9.89 percent.

In order to adjust the BLS wage data to reflect the rising minimum wage, the rate models account for two widely accepted features of an increasing minimum wage.

First, an increasing minimum wage will have ‘spillover’ effects, meaning that some individuals who already earn above the minimum wage will receive a pay raise when the minimum wage increases.²⁷ Two examples illustrate this phenomenon:

- Assuming a \$10.00 per hour minimum wage that will increase to \$13.00, consider a supervisor earning \$13.25 to supervise staff earning \$10.00. The subordinate staff must receive a pay raise of \$3.00 per hour in order for their wage to comply with the new minimum wage. There is no requirement for the supervisor to receive a pay raise as their current wage remains legal, but if they receive nothing while their subordinates receive a substantial raise, there would be nearly no financial benefit associated with the additional responsibility of supervision.
- Again assuming a \$10.00 per hour minimum wage that will increase to \$13.00, consider two direct care workers. The first has been with their shared employer for three years and is earning \$12.50 per hour while the second is new to the job and is earning \$10.00. In order to comply with the higher minimum wage, the employer only needs to move both workers to \$13.00. This would result in both employees receiving a raise, but the tenured

²⁵ California Department of Industrial Relations. Official Notice – California Minimum Wage (MW-2019). Retrieved from <https://www.dir.ca.gov/Iwc/MW-2019.pdf>. The minimum wages cited apply to employers with at least 26 employees; during these time periods, there are lower minimum wages for smaller employers.

²⁶ Bureau of Economic Analysis. (2018). Bearfacts – Personal Income for California. Retrieved from <https://apps.bea.gov/regional/bearfacts/action.cfm>.

²⁷ See, for example:

Phelan, Brian J. December 19, 2013. Labor Supply Substitution and the Ripple Effect of Minimum Wages. Retrieved from <https://www.aeaweb.org/conference/2014/retrieve.php?pdfid=306>.

Rinz, K., and Voorheis, J. (March 2018). The Distributional Effects of Minimum Wages: Evidence from Linked Survey and Administrative Data. Published by the U.S. Census Bureau Center for Administrative Records Research and Applications. Retrieved from <https://www.census.gov/content/dam/Census/library/working-papers/2018/adrm/carra-wp-2018-02.pdf>.

employee would receive a much smaller raise and would no longer be receiving any wage differential for their experience.

The second feature of a minimum wage increase is ‘compression’, meaning that there will be some narrowing of the difference in pay between employees as the minimum wage rises.²⁸ That is, pay raises associated with a rising minimum wage will decrease as an employee’s current wage increases. To assume otherwise would require that everyone in a state, regardless of how much they currently earn, would receive a pay raise every time the minimum wage increases. Using the same examples as above:

- The supervisor currently earning \$13.25 per hour is expected to receive a pay raise even though they already earn more than the new minimum wage, but they are not expected to receive the full \$3.00 value of the increase in the minimum wage from \$10.00 per hour to \$13.00.
- Similarly, the experienced worker is expected to receive a pay raise so that they still earn more than a new employee. Again, however, their raise is not expected to be \$3.00 so they will still be earning more than their less-tenured coworker, but it will no longer be the existing \$2.50 gap.

Figure 3-1 summarizes the assumptions employed in the rate models in order to adjust BLS wage data to recognize the rising minimum wage while accounting for both spillover and compression effects.

²⁸ See, for example:

Phelan, Brian J. December 19, 2013. Labor Supply Substitution and the Ripple Effect of Minimum Wages. Retrieved from <https://www.aeaweb.org/conference/2014/retrieve.php?pdfid=306>.

Miller, Stephen. (June 1, 2018). Address Pay Compression or Risk Employee Flight. Published by the Society for Human Resource Management. Retrieved from <https://www.shrm.org/resourcesandtools/hr-topics/compensation/pages/address-pay-compression-or-risk-employee-flight.aspx>.

**Figure 3-1: Assumptions to Account for Minimum Wage Rising
from \$10.00 per Hour to \$13.00**

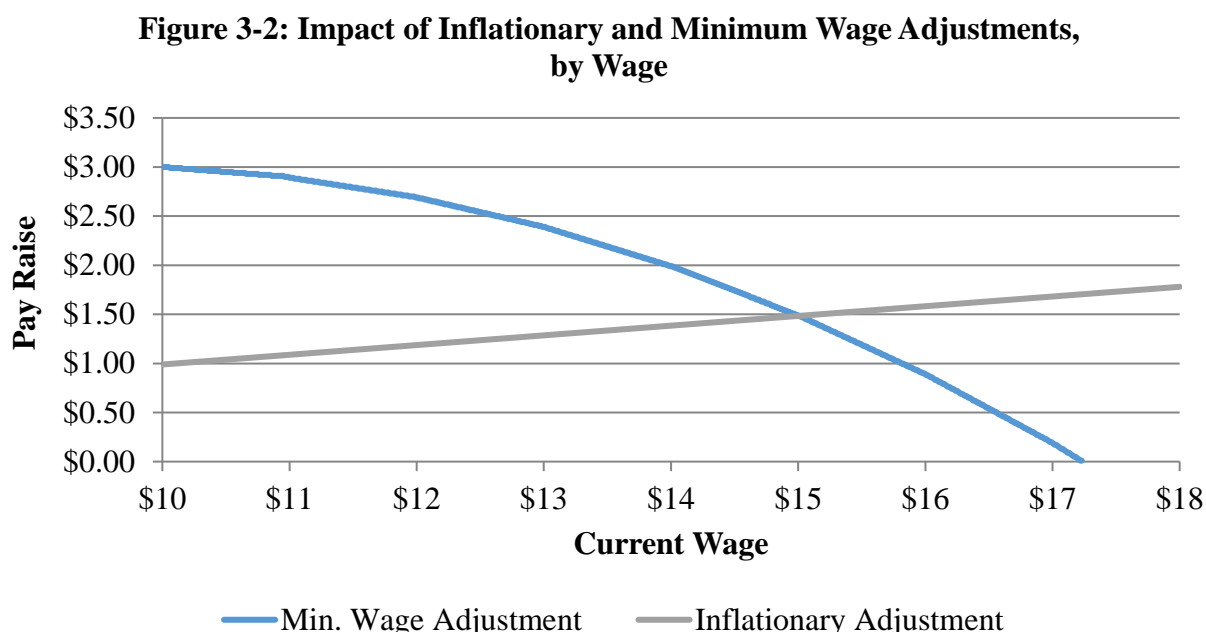
Current Wage in \$1.00 Increments	% of Marginal Dollar 'Captured' as Part of Wage Increase	Marginal Dollar Amount 'Captured' as Part of Wage Increase	Cumulative Wage Increase (in Relation to \$13.00)	Revised Wage
\$10.00	100%			\$13.00
\$10.01 - \$10.99	90%	\$0.89	\$0.89	\$13.01 - \$13.89
\$11.00 - \$11.99	80%	\$0.80	\$1.69	\$13.89 - \$14.68
\$12.00 - \$12.99	70%	\$0.70	\$2.39	\$14.69 - \$15.38
\$13.00 - \$13.99	60%	\$0.60	\$2.99	\$15.39 - \$15.98
\$14.00 - \$14.99	50%	\$0.50	\$3.49	\$15.99 - \$16.49
\$15.00 - \$15.99	40%	\$0.40	\$3.89	\$16.49 - \$16.89
\$16.00 - \$16.99	30%	\$0.30	\$4.19	\$16.89 - \$17.19
\$17.00 - \$17.23	20%	\$0.20	\$4.39	\$17.19 - \$17.24

In the first column, the table lists wage ranges in \$1.00 increments. The next two columns provide an assumption of the amount of that \$1.00 increment that will be ‘captured’ and added to the \$13.00 minimum wage. For example, for a worker earning \$11.00, there is a single \$1.00 increment above the current \$10.00 minimum (technically, the bottom of the first wage range for those earning more than the minimum wage is \$10.01 so this first ‘dollar’ is actually \$0.99). According to the table, 90 percent of this first \$0.99 is captured, translating to \$0.89 (\$0.99 multiplied by 90 percent). This total is added to the new \$13.00 minimum wage such that this worker will be assumed to be earning \$13.89 per hour after the minimum wage increase. The fact that this worker will receive a raise beyond the \$13.00 minimum wage illustrates the spillover effect, while the fact that they will now be earning \$0.89 more than the new minimum compared to the \$1.00 more than the existing minimum that they are currently earning illustrates the impact of compression.

The fourth column is a running total of the aggregate captured dollar amounts in relation to the \$13.00 per hour minimum wage. So, for a worker currently earning \$12.00 per hour, they will capture 90 percent of the first \$0.99 above the minimum wage (as discussed in the previous example) and 80 percent of the second \$1.00 above the minimum, for a total of \$1.69 (\$0.89 plus \$0.80). Thus, their new wage will be \$14.69 per hour. The final column lists the new wage ranges after the application of the values in the preceding columns.

Based on these assumptions, every worker currently earning up to \$17.23 per hour would receive a pay raise when the minimum wage increases from \$10.00 to \$13.00 per hour although the raise for someone at \$17.23 would be \$0.01.

The adjustments described above for wage inflation and the rising minimum wage were calculated independently for every BLS wage value and the larger of the two was applied to update the given value. Figure 3-2 illustrates the values associated with each of these adjustments.



As demonstrated in the chart, the adjustments intersect at exactly \$15.00 per hour. Thus, BLS wage values of \$15.00 per hour or less were updated based on the minimum wage adjustment while those greater than \$15.00 were revised using the inflationary adjustment.

After adjusting the BLS wage data to account for inflation and a rising minimum wage, the most appropriate BLS occupation had to be selected for each service code. At times, there is a precise match. For example, when setting rates for nursing (which was not part of the scope of this project), there are specific occupational classifications for registered nurses and for licensed vocational nurses.

For other services, however, there may not be an exact match. An example is direct care workers providing habilitative services, often referred to as direct support professionals. DSPs are certainly covered by the BLS survey and a review of the national industry-level estimates makes clear that they are classified as personal care aides (SOC 39-9021), as this occupation accounts

for more than 62 percent of all direct care, administrative, and support positions in this industry.²⁹ The BLS provides the following description for this occupation:

Assist the elderly, convalescents, or persons with disabilities with daily living activities at the person's home or in a care facility. Duties performed at a place of residence may include keeping house (making beds, doing laundry, washing dishes) and preparing meals. May provide assistance at non-residential care facilities. May advise families, the elderly, convalescents, and persons with disabilities regarding such things as nutrition, cleanliness, and household activities.³⁰

This description describes a portion of the work that DSPs perform, but it arguably does not fully represent the responsibilities of DSPs who work with individuals with intellectual and developmental disabilities and who are expected to provide training and support to increase individuals' independence, to manage behaviors, and to assist with medical care.

Thus, the rate models draw from multiple BLS occupations in order to construct the rate model wage assumption, as shown in Figure 3-3. As the table shows, the rate models use four different BLS occupations to represent a DSP providing services in an individual's home, in a residential

Figure 3-3: Base Rate Model Wage Assumption for DSPs

BLS Standard Occupational Classification	Weighting	Median Wage (Adjusted)
39-9021 Personal Care Aide	55%	\$14.22
31-1011 Home Health Aide	15%	\$15.43
31-1013 Psychiatric Aide	15%	\$16.23
39-9032 Recreation Worker	15%	\$15.46
Weighted Avg. (Base Rate Model Wage Assumption)		\$14.89

setting, or in a day program. The largest weighting – 55 percent – is applied to the personal care aide classification, which is the occupation to which DSPs are currently assigned. The remaining 45 percent is evenly allocated to three other occupations that are representative of the work performed by DSPs based on a review of BLS occupational descriptions and service requirements.

The same approach was employed to establish a base rate model wage assumption for each service code.

²⁹ Personal care aides represent 1,106,430 positions out of 1,689,870 in the industry of services for the elderly and persons with disabilities (North American Industry Classification System 624120, https://www.bls.gov/oes/current/naics5_624120.htm) and 194,620 positions out of 400,290 in residential intellectual and developmental disability facilities (NAICS 623210, https://www.bls.gov/oes/current/naics5_623210.htm).

³⁰ Bureau of Labor Statistics. Occupational Employment and Wages – 39-9021 Personal Care Aides. Retrieved from <https://www.bls.gov/oes/current/oes399021.htm>.

The BLS wage data before and after the adjustments as well as the job mix assumptions are included in Appendix B of the rate model packet.

Direct Care Worker Benefits

In addition to market-based wages, the rate models include a comprehensive benefits package intended to support providers in the attraction and retention of a qualified and stable workforce. The rate models assume that all employees providing direct care receive the same benefits. The rate models include the following standard employer-paid payroll taxes³¹:

- Social Security – 6.20 percent of total wages³²
- Medicare – 1.45 percent of total wages³³
- Federal unemployment insurance – 0.60 percent on the first \$7,000 in wages paid³⁴
- State unemployment insurance – 3.40 percent on the first \$7,000 in wages paid³⁵
- State Employer Training Tax – 0.10 percent on first \$7,000 in wages paid³⁶

For workers' compensation rates, the rate models rely on the approved 2019 advisory pure premium rates issued by the Workers' Compensation Insurance Rating Bureau of California (WCIRB).³⁷ B&A selected the WCIRB classification code that appeared most applicable to each individual service code.³⁸ Then, based on the four-year trend between January 1, 2015 and

³¹ The rate models do not include funding for employee-paid taxes including the employee share of Social Security and Medicare payroll taxes, the State Disability Insurance (SDI) tax, or personal income taxes.

³² U.S. Department of the Treasury. Internal Revenue Service. (2018). Publication 15 (Cat. No. 10000W). Retrieved from <https://www.irs.gov/pub/irs-pdf/p15.pdf>. In 2019, this tax is limited to the first \$132,900 in wages. None of the rate model wage assumptions exceed this amount, however.

³³ Ibid. There is an 'additional' Medicare tax of 0.90 percent on wages above \$200,000. None of the rate model wage assumptions exceed this amount, however, so this tax does not apply.

³⁴ Ibid.

³⁵ California Employee Development Department. (December 2018). 2019 Federal and State Payroll Taxes. Retrieved from https://www.edd.ca.gov/pdf_pub_ctr/de202.pdf. This is the rate assigned to new employers. In comparison, the average state unemployment insurance tax rate reported by provider survey respondents was 3.00 percent.

³⁶ Ibid.

³⁷ Workers' Compensation Insurance Rating Bureau. Approved 2019 Advisory Pure Premium Rates. Retrieved from <https://www.wcirb.com/content/wcirb-january-1-2019-regulatory-pure-premium-rate-filing> on February 10, 2019.

³⁸ The crosswalk of the WCIRB classification code used for each service code is included in Appendix C of the rate model packet.

January 1, 2019, the rates were reduced by 11.5 percent.³⁹ Finally, a 12 percent administrative factor was added to account for insurers' costs.

The resulting average workers' compensation rate – weighted by service code expenditures – assumed in the rate models is \$4.35 per \$100 in wage paid, lower than the average rate of \$5.53 reported by provider survey respondents.

In a 2018 survey conducted by the Society for Human Resource Management, 92 percent of employees indicated that benefits are important to their overall job satisfaction.⁴⁰ Recognizing the importance of benefits, both in terms of attracting and retaining staff and in employee health and wellbeing, the rate models incorporate funding for benefits that extend beyond mandatory payroll taxes, including paid time off, health insurance, and other benefits. When developing the values attached to these benefits, B&A primarily considered published data sources that reflect benefits available to employees throughout the private sector rather than the benefits currently offered by vendors, which are generally less generous.

Health insurance is the most costly benefit. The rate models aim to fund the employer share of the cost of an employee-only health insurance plan. Figure 3-4 on the following page compares the amount assumed in the rate model to costs reported by various published estimates.

The table demonstrates that the \$450 per month employer cost for an employee-only health plan assumed in the rate models is on the high end of the range of rates identified in the published sources.

This figure is then adjusted to account for the reality that not all employees will participate in employer-sponsored health insurance. Many employees work for organizations that do not offer health insurance. Even among those employees with access to health insurance, some will decline to participate for a number of reasons: they may receive coverage from a spouse, they may be enrolled in a public plan such as the Veteran's Administration or Medicare, or they may simply choose to go without coverage. The rate models are designed to allow all providers to offer health insurance, but recognize that some employees will opt not to participate. As shown in the table, the rate model assumes that 80 percent of direct care workers will receive employer-sponsored health insurance, a rate that is about 25 percentage points higher than is typical in the

³⁹ State of California Department of Insurance. (November 7, 2018). Decision and Order: January 1, 2019 Workers' Compensation Claims Cost Benchmark and Advisory Pure Premium Rates (file number reg-2018-00018). Retrieved from https://www.wcirb.com/sites/default/files/documents/20190101_ppr_filing_decision_and_order.pdf. The rate is based on the overall change in filed rates from \$2.77 to \$1.70. A review of classification codes related to HCBS found a similar trend.

⁴⁰ Society for Human Resource Management. 2018 Employee Benefits: The Evolution of Benefits. Retrieved from <https://www.shrm.org/hr-today/trends-and-forecasting/research-and-surveys/Documents/2018%20Employee%20Benefits%20Report.pdf>.

private sector when accounting for both employer offer rates and employee take-up rates and 35 percentage points higher than the rate reported by provider survey respondents.

After taking the participation rate into account, the rate models include \$360.00 per direct care worker per month, an amount that is double the cost reported through the provider survey and substantially higher than the figures reported by the published sources.

Figure 3-4: Rate Model Assumptions for Health Insurance for Direct Care Workers Compared to Other Data Sources

	Monthly Employer Cost for Participating Employees	Coverage Rate^a	Monthly Employer Cost for All Employees
Rate Model	\$450.00	80.0%	\$360.00
Provider Survey ^b	\$433.95	44.0%	\$190.94
BLS (2018) ^c	\$453.69	54.0%	\$244.99
MEPS (2017) ^d	\$405.16	56.8%	\$230.13
Exchange (2019) ^e	\$376.00	-	-
^a The participation rate incorporates both staff working for employees who do not have access to health insurance (for example, they work for a company that does not offer health insurance or do not meet eligibility requirements) and those who choose not to sign-up for insurance. ^b The provider survey reflects the reported weighted average without outliers across all full-time and part-time staff. ^c Bureau of Labor Statistics' 2018 Employee Benefits Survey results for the Pacific region (https://www.bls.gov/ncs/ebs/benefits/2018/ownership_private.htm , see Table 11). ^d U.S. Department of Health and Human Services' 2017 Medical Expenditure Panel Survey (https://meps.ahrq.gov/mepsweb/data_stats/quick_tables.jsp , see Tables II.B.2.b, II.C.1, and II. C.2) results for California, reflects an average total premium of \$524.58 with an employee share of \$119.42. ^e Based on the Kaiser Family Foundation's analysis of the second-lowest cost silver plan before tax credits (the 'benchmark' plan) for a 40 year-old non-smoker in Los Angeles (https://www.kff.org/private-insurance/issue-brief/tracking-2019-premium-changes-on-aca-exchanges/).			

In addition to health insurance, the rate models assume that direct care workers receive 25 days of paid time off, inclusive of paid holidays, vacation, and sick leave⁴¹ as detailed in Figure 3-5.

⁴¹ The rate study assumes that employees receive 10 paid holidays and 15 other days of paid leave. Sick leave is incorporated in these 15 days, which is sufficient to comply with the requirements of LAB § 246.

Figure 3-5: Rate Model Assumptions for Paid Time Off Compared to Data from the Bureau of Labor Statistics and the DDS Provider Survey

	Number of Days for Eligible Employees			% of Employees Who Are Eligible			Number of Days for All Employees (including those without access)		
	Rate Model	BLS ^a	Prov. Survey ^b	Rate Model	BLS ^a	Prov. Survey ^b	Rate Model	BLS ^a	Prov. Survey ^b
Holidays	15.0	8.0	9.0	100%	78%	96%	15.0	6.2	8.6
Vacation	10.0	10.0	12.8	100%	76%	97%	10.0	7.6	12.5
Sick		7.0			86%			6.0	
Total	25.0	25.0	21.8				25.0	19.8	21.1
^a Bureau of Labor Statistics' 2018 Employee Benefits Survey (https://www.bls.gov/ncs/ebs/benefits/2018/ownership_private.htm). Participation rate reflects private industry in the Pacific region. The number of holidays reflects the average for all private industry employees in the Pacific Region. The number of vacation and sick days reflect the average for all private industry employees with between one and five years of job tenure nationwide. ^b The provider survey reflects the reported weighted average without outliers across all full-time and part-time staff.									

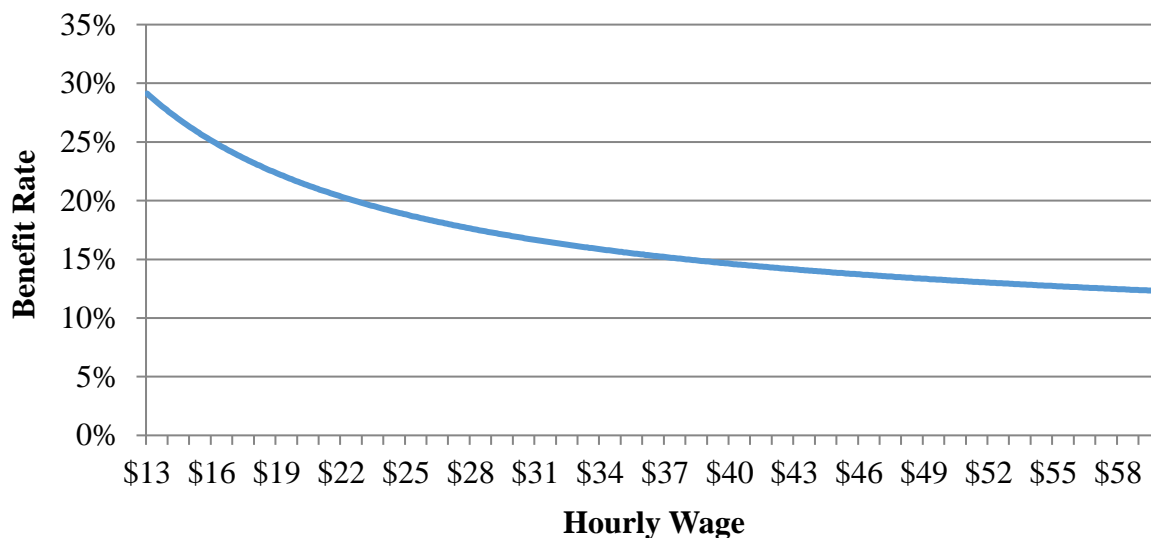
As with health insurance, not all staff are eligible for a given benefit so the table differentiates between the average number of days provided to employees who receive the benefit (that is, eligible employees) and the average number of days received by all employees (that is, taking into account those who do not have access to the benefit). Although the data from the Bureau of Labor Statistics found that between 76 percent and 86 percent of private sector employees are offered paid time off, the provider survey found that nearly all full-time employees are offered paid time off. Accordingly, the rate models assume that all direct care workers will receive paid time off. The 25 paid days off included in the rate models align with the average across the private sector before adjusting for those without access to the benefit and is somewhat greater than the 21-to-22-day average reported by participants in the provider survey.

Lastly, the rate models include \$100 per direct care workers per month for all other benefits such as dental or life insurance, a contribution to a retirement plan, tuition reimbursement, etc. In comparison, the provider survey found an average cost of about \$86 per employee per month.

The benefits package for direct care workers is detailed in Appendix C of the rate model packet. In the rate models themselves, the benefits package is translated to a benefits rate expressed as a percentage of the direct care worker's wage. Since certain benefit costs are assumed to be fixed (for example, the rate models provide the same \$360.00 per month for health insurance for all direct care workers), there is an inverse relationship between the wage of the direct care worker

and the benefit rate. That is, as the direct care wage increases, the benefit rate declines as illustrated in Figure 3-6.

**Figure 3-6: Benefit Rate Assumed in Rate Models, by Wage Level
(excludes workers' compensation and paid time off)**



For a direct care worker earning \$13 per hour, the benefits package translates to a 29.1 percent benefit rate; for a worker earning \$60 per hour, that same benefits package yields a 12.3 percent rate. For the \$14.89 per hour wage assumption for DSPs described above, the benefit rate is 26.4 percent. These rates exclude workers' compensation, which varies by service, and paid time off, which is recognized in the rate models as an adjustment to worker productivity as discussed in the next section.

Direct Care Worker Productivity

In general, direct care workers are not providing direct care all of the time due to other responsibilities that relate to service delivery. Employees are still working, however, and must be paid for this time. The costs associated with these activities must be distributed across workers' billable hours.

For example, if an employee earns \$13 per hour with a benefit rate of 30 percent, the cost of that employee to their employer is \$16.90 per work hour or \$676.00 per 40-hour workweek. However, if the employer is only able to bill for 32 hours of direct service per week because the other 8 hours are devoted to non-billable activities, the billable rate must be inflated to cover the cost of those non-billable activities. The rate models achieve this by applying a 'productivity factor' that is calculated as the ratio of total work hours to billable hours. In this example, that would be 40 work hours divided by 32 billable hours, or a productivity factor of 1.25. Applying the productivity factor to the \$16.90 cost per work hour produces \$21.13, which is the cost per

billable hour that would be included in the rate model to fully compensate the employer for the \$676.00 weekly cost of the employee.

To account for non-billable activities, the rate model for each service first establishes a typical 40-hour workweek for a direct care worker. These workweeks incorporate activities that are likely to occur during any given week. These activities – and the time spent on each – vary from service to service and include:

- *Travel time between individuals* applies to services typically delivered in individuals' homes and the community to account for the time when staff travel from one encounter to the next.
- *Program set-up and clean-up* applies to day programs and work activity programs to reflect staff time before and after program hours to prepare for and clean-up after service time. The models include 1.25 hours per week (15 minutes per day) for all direct care workers in these programs.
- *Networking and general developmental activities* is included only in the job development rate model to account for time that job developers spend developing their general network of providers rather than working on behalf of a specific individual. The model assumes 5.00 hours per week for this purpose.
- *Recordkeeping and reporting* is included for most services to accommodate documentation requirements. The time assumptions vary across services, but are generally higher for 'professional' services that usually have more extensive reporting requirements and for group services since a worker will have to complete documentation for each service recipient.
- *Supervision and other employer time* reflects workers' employment-related activities such as attending staffing meetings or periodic meetings with their supervisors.
- *Missed appointments* are included to reflect the time lost when a recipient has an unscheduled absence. This adjustment is intended only to accommodate the time that is not redirected to some other activity. For example, if a two-hour encounter is scheduled in someone's home and the worker drives to that home to find that individual is not there, it is assumed that the staff person will move onto another task. This may not be a billable activity, but could be catching up on training or recordkeeping. In other words, some portion of that two-hour appointment would be allocated to the missed appointment adjustment, but another portion would be associated with the activity to which their time was redirected.
- *Collateral contacts* are non-billable activities that a worker performs on behalf of an individual such as coordinating with the individual's case manager or other service providers. This factor is applied to job coaching and infant development services. For certain professional services – such as behavioral supports – the rate study assumes that the service provider would be able to bill directly for this time.

The typical workweeks are then adjusted for training and paid time off, activities that are likely to be concentrated during specific weeks rather than occurring during a typical week.

As described above, the benefits package for direct care workers assumes that they receive 25 days of paid time off, which translates to 3.85 hours per week (25 days multiplied by 8 hours, divided by 52 weeks). Paid time off is included in all rate models.

For most paraprofessional services, the rate models assume that staff receive 35 hours of training annually. For other services, more or less training is included.

Productivity assumptions were informed by data collected through the provider survey and discussion with DDS' program staff regarding the amount of time that would be needed to perform the non-billable activities associated with various services. Productivity assumptions are detailed in each individual rate model and in Appendix D of the rate model packet.

Program Operations Expenses

Program operations include supervision, quality oversight, training, curriculum development, and other program-specific activities – functions that are crucial to the delivery of quality services.

First-line supervision is the single largest component of program operations from a cost perspective and is similarly important in terms of service oversight. For these reasons, supervision is identified as a standalone factor in the rate models for services

"Frontline supervisors have a tremendous impact on the work environment and on recruitment and retention success for DSPs."

- U.S. Dept. of Health and Human Services⁴²

provided by direct support professionals and other paraprofessionals. Rate models for services provided by staff who are not assumed to require significant supervision, such as board certified behavior analysts, do not include this factor.

For the applicable services, the rate models provide one supervisor for every ten direct care workers. This supervisory span of control is slightly less than suggested by provider survey

⁴² U.S. Department of Health and Human Services. (January 2006). The Supply of Direct Support Professionals Serving Individuals with Intellectual Disabilities and Other Developmental Disabilities. Retrieved from <https://aspe.hhs.gov/system/files/pdf/74651/DSPsupply.pdf>.

respondents that reported an average of 10.3 workers per supervisor for these services.⁴³ The assumption is also in-line with results reported by researchers⁴⁴ and included in HCBS rate models in other jurisdictions⁴⁵.

For program operations expenses other than supervision, B&A considered using service-specific program operations amounts in the rate models and the provider survey was designed to collect cost data by service code. However, it was ultimately concluded that the survey would not support this level of specificity, for a number of reasons.

Of the more than 1,100 surveys that were submitted, only 416 were incorporated in the analysis of program operations costs. The balance of surveys was omitted because they did not provide either revenue or cost data, reported program operations expenses for a service code that exceeded 50 percent of the revenue they reported for that service code, or did not fully allocate the expenses that were reported. Although it is possible that there were instances in which a provider did not incur such costs, there was concern that the inclusion of these surveys would have understated the cost of program operations. Due to the excluded surveys, there were five or fewer providers reporting data for 29 of the 69 service codes or service code variations. Another 15 service codes or service code variations had data from between only six and ten providers.

For the remaining service codes, there is significant variability in the program operations rates. The average gap between the highest and lowest rates is more than 300 percent. This is due to a number of providers reporting program operations expenses for a service code that exceed the revenue they reported for that same code. However, even if the analysis is limited to those providers who reported a program operations rate of 50 percent or less, the gap is 41.3 percent and the standard deviation in responses is 10.7 percent.

⁴³ This calculation excludes any reported ratio that exceeded 20 workers per supervisor (if all responses were included, the ratio would be almost 45 workers per supervisor). Very low ratios (for example, one supervisor per worker) were not excluded from the calculation.

⁴⁴ A 2007 study conducted by the University of Minnesota found that supervisors oversaw an average of 11.7 DSPs. Larson, S.A., Doljanac, R., Nord, D. K., Salmi, P., Hewitt, A.S. & O'Neill, S. (2007). National Validation Study of Competencies For Frontline Supervisors and Direct Support Professionals: Final Report. Minneapolis, MN: University of Minnesota, Research and Training Center on Community Integration.

⁴⁵ For example:

Minnesota's Disability Waiver Rate System provides an 11 percent 'supervision percent' that translates to a 1:9 ratio (<https://mn.gov/dhs/partners-and-providers/news-initiatives-reports-workgroups/long-term-services-and-supports/disability-waiver-rates-system/rate-setting-frameworks/>).

Nebraska's Comprehensive Developmental Disabilities Services waiver reports a 1:9 supervisor span of control (http://dhhs.ne.gov/developmental_disabilities/Documents/CompleteApplication4154Renewal06012017.pdf).

Australia's National Disability Insurance Scheme is based on a 1:15 supervision ratio (Cortis, Natasha & Macdonald, Fiona & Davidson, Bob & Bentham, Eleanor. (2017). Reasonable, necessary and valued: Pricing disability services for quality support and decent jobs. 10.4225/53/59681e589e44b).

As a result, the rate models were grouped together and program operations funding levels were established for these grouping as follows:

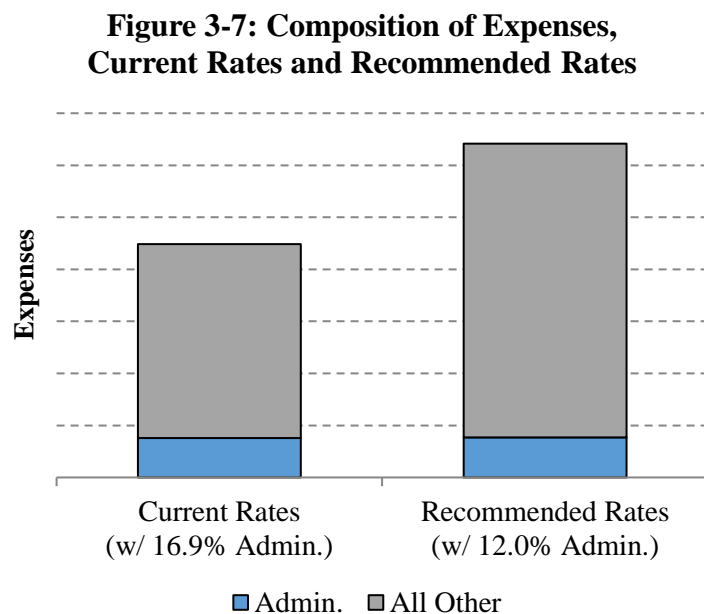
- Services generally provided on a one-to-one basis with a rate model that includes a supervision factor are funded at \$10 per day per direct care worker
- Services generally provided on a one-to-one basis with a rate model that does not include a supervision factor are funded at \$20 per day per direct care worker
- Services generally provided to groups are funded at \$20 per day per direct care worker
- Residential services are funded at \$10 per day per participant

When considering both supervision and other program operations expenses, the rate models represent an estimated funding increase of 58 percent across all service codes compared to the costs reported by provider survey respondents with program operations rates of less than 50 percent.

Administrative Expenses

Providers require administrative infrastructure – general management, finance and accounting, information technology, human resources, etc. – in order to effectively deliver services. The rate models include funding to support the costs associated with these functions, such as administrative staff salaries and benefits, facility-related expenses, equipment and supplies, insurance, professional services (for example, lawyers and accountants), and licensing and accreditation fees.

Specifically, the rate models generally include 12 percent of the total overall rate for administrative expenses. This is less than the average administrative rate of 16.9



percent reported by participants in the provider survey.⁴⁶

However, although the administrative *rate* in the rate models is lower than currently reported, the administrative funding *amount* is comparable because the rate is being applied to a higher cost base, as shown in Figure 3-7. In brief, the rate models seek to maintain existing administrative funding levels.

Section 3.2: Accounting for Regional Differences

In order to account for differences in costs across different parts of California, the rate study includes a separate rate model for each service for each Regional Center. The rate study seeks to recognize cost differences in three areas:

1. Direct care worker wages
2. Travel distances and time
3. Real estate

"The idea that there is a single business climate in the state that is applicable for all businesses and regions is too simplistic."

- Public Policy Institute of California

For each of these items, a baseline figure is established. Then, three cost adjustment factors – Categories A, B, and C – are constructed to account for regional cost differences. For example, the adjustment factor for Category A may be 95 percent, Category B may be 100 percent, and Category C may be 115 percent. Regional Centers are assigned to one of these three categories for each of the three cost areas. The categorizations may differ for each of the cost areas; for example, a Regional Center may be assigned to Category A for direct care worker wages and Category C for travel distance and time. Although it is recognized that costs may vary within a Regional Center, in the interests of administrative simplicity, the rate study includes a single categorization for each Regional Center rather than the establishment of county-specific or locality-specific rate models.

The adjustment factors are then applied to the base rate model to establish the rate model for each Regional Center. Using the example above, if the base rate model assumes an hourly wage of \$14.00, the rate model for a Regional Center assigned to Category A would include a wage assumption of \$13.30 (\$14.00 multiplied by 95 percent), rate models for Category B would include a \$14.00 wage, and models for Category C would include \$16.10.

⁴⁶ This rate was calculated by comparing reported revenues from all sources for developmental disabilities services to reported expenses for these services. Because this calculation is not limited to funds derived from the Regional Centers and is a comparison to revenues rather than expenses, this rate cannot be directly compared to the 15 percent administrative cap established in WIC § 4629.7 and this report expresses no opinion on compliance with the cap.

The remainder of this section provides a brief summary of each of three cost areas, the adjustment factors, and the assignments for each Regional Center. A more detailed overview of the methodology can be found in the report, *Accounting for Regional Cost Differences Related to Wages, Travel and Real Estate*, which has been included as Attachment 2.

Direct Care Worker Wages

There is substantial variability in wages across the State. As discussed earlier, the rate models rely on data from the Bureau of Labor Statistics to establish the wage assumption in the base rate models. The BLS' regional data was used to establish the wage adjustment factors that account for regional variability.

In addition to statewide wage statistics, the BLS publishes data for metropolitan statistical areas and nonmetropolitan statistical areas. MSA and nonmetropolitan statistical areas are comprised of one or more counties. All counties are assigned to a single area. In California, there are 26 MSAs and 5 nonmetropolitan statistical areas.

The methodology is discussed in greater detail in the companion report noted above, but in brief, the rate models compare the average wage within a given Regional Center to the statewide average wage. The methodology included four key elements.

First, since there generally is often not a one-to-one relationship between the BLS' statistical areas and Regional Center catchment areas, BLS statistical areas were combined into or distributed between Regional Centers based on total population.

Figure 3-8 illustrates an example in which a Regional Center is comprised of two statistical areas, one with 600,000 residents and the other with 400,000 residents. In order to calculate an average wage for the Regional Center overall, the BLS wage data is weighted between the two areas using the 60-40 ratio of their respective populations. Similarly, if a statistical area is comprised of two counties that are assigned to different Regional Centers, that statistical area is attributed to both Regional Centers with the weighting within each Regional Center reflecting the applicable county-level population.

Figure 3-8: Example of Combining Two Areas into a Single Regional Center

	Population	Avg. Wage
Area 1	600,000	\$16.00
Area 2	400,000	\$15.00
Total	1,000,000	\$15.60

Second, as discussed earlier, BLS wage data is based on a survey of a sample of employers. By definition, the data for the statistical areas will be based on fewer surveys than the statewide data. Further, when there are too few surveys covering a given occupation, the BLS does not publish the wage values. To address this 'missing' data and potential survey error, the rate study uses the average wage across all occupations in an area rather than using data for individual occupations.

However, the average wage in an area is a function of two issues: the mix of occupations and market-based wage differences. For example, if an area has a large concentration of high-paying occupations, the average wage across *all occupations* in that area will be high even if the wage for *each individual occupation* is not high. Figure 3-9 illustrates this phenomenon.

Figure 3-9: Illustration of Impact of Job Mix on Average Wage

Occupation	Statewide		Region 1		Region 2	
	Employees	Wage	Employees	Wage	Employees	Wage
<i>Calculation of Average Wage Without Adjusting for Job Mix</i>						
Engineer	100	\$82.00	80	\$80.00	20	\$90.00
Housekeeper	100	\$24.00	20	\$20.00	80	\$25.00
Average	200	\$53.00	100	\$68.00	100	\$38.00
<i>Calculation of Average Wage After Adjusting for Job Mix</i>						
Engineer	100 (50%)	\$82.00	80 50%	\$80.00	20 50%	\$90.00
Housekeeper	100 (50%)	\$24.00	20 50%	\$20.00	80 50%	\$25.00
Adjusted Avg.		\$53.00		\$50.00		\$57.50
% of Statewide				94.3%		108.5%

In this simple example, there are only two regions in the state and everyone works in one of two occupations, engineering or housekeeping. The top portion of the table shows the ‘actual’ employment and wage data. In Region 1, most workers are engineers; in Region 2, most are housekeepers. The average hourly wage across the 100 workers in Region 1 is \$68.00, which is markedly higher than the \$38.00 average in Region 2. Closer inspection, however, reveals that Region 1 is not truly a higher wage area. Both engineers and housekeepers working in Region 1 earn less than those in the same occupations in Region 2. It is only because of the job mix – the relative number of workers in the two jobs – that Region 1 appears to have higher wages.

This is mathematically demonstrated in the bottom portion of the table. These figures calculate the average wage in each of the regions as if the mix of jobs in those regions were the same as the statewide job mix, which in this example is 50 percent engineers and 50 percent housekeepers. This permits a comparison of average wages that is not influenced by the distribution of jobs. The adjusted figures show that Region 2 is actually the higher wage area.

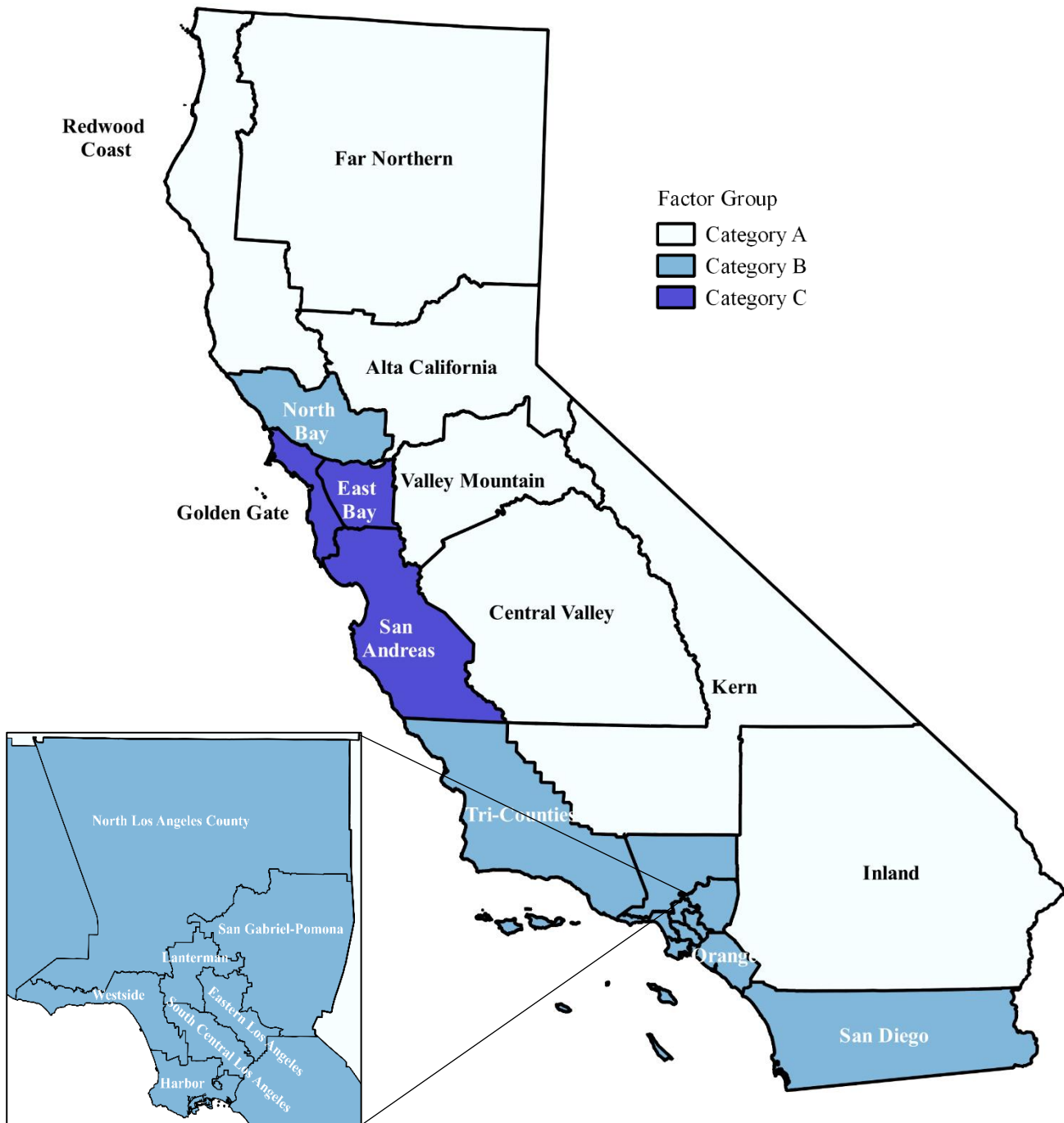
The third key element of the analysis of regional variation in wages is a similar calculation of an average adjusted wage in each Regional Center based on the statewide mix of occupations and the region-specific wage data. The adjusted regional wages were then compared to the statewide average.

Fourth, the adjusted average regional wages – expressed as a percentage of the statewide average wage – were used to assign each Regional Center to one of three categories with an associated base wage adjustment factor. Category A includes Regional Centers in which the average wage is between 83 and 94 percent of the statewide average, and has a 95 percent adjustment factor. Category B, with a 100 percent adjustment factor, includes Regional Centers in which the average wage is 95 and 98 percent of the statewide average. Regional Centers with average wages between 106 and 115 percent of the statewide average were assigned to Category C,

which has a 115 percent adjustment factor. The geographic distribution of these category assignments are depicted in Figure 3-10.

As shown on the map, Category C includes three Regional Centers in the San Francisco Bay

Figure 3-10: Assignment of Wage Adjustment Factors by Regional Center



Area: East Bay, Golden Gate, and San Andreas. Category B includes North Bay Regional Center

as well as the southern coastal Regional Centers, including the Los Angeles and San Diego metropolitan areas. The remainder of the Regional Centers are assigned to Category A.

As described in the previous section, the BLS wage data was adjusted to account for changes in the statewide minimum wage through 2020, when it will be \$13.00 per hour. The rate models do not specifically consider local minimum wage ordinances, but the wage adjustment factors result in wage assumptions that exceed applicable local minimum wages, with one significant exception. The City of Los Angeles, unincorporated areas of Los Angeles County, and other jurisdictions within the county are scheduled to institute a \$15.00 minimum wage in 2020. As noted on the map, the Los Angeles-area Regional Centers are assigned to Category B and several of the rate models for this category include a wage assumption that is less than \$15.00. As emphasized in the Part 2 of this report, however, the rate model assumptions are not prescriptive and it is expected that, for any given provider, some costs will be less than assumed and other costs will be greater. In these instances, *taken together* the total direct care worker compensation built into the rate models still exceeds all applicable state and federal requirements related to wages, paid leave, and payroll taxes.

Travel Distance and Time

Home and community-based service providers incur costs when traveling to individuals' homes and transporting them in the community, both in terms of staff time and vehicle-associated expenses. These costs, of course, increase in relation to the length of a trip and the time to complete the trip. Given the substantial differences across California in terms of geography and population density, the rate models include an adjustment factor for travel.

The primary method for comparing Regional Centers and developing the travel adjustment factors involved measuring the travel time and distance between providers and the individuals to whom they provide services. The claims-based analysis employed the following steps:

1. Geocoding the address (that is, identifying latitude and longitude) of every individual in the Client Master File and of every vendor in DDS' vendor file.
2. Identifying every individual-vendor pairing with a paid claim in fiscal year 2017 for in-scope services.
3. Using Bing Maps to measure the driving distance and time between each of the pairings, assuming that the travel occurred on a Tuesday at 10:00 AM.
4. The distances and times for trips deemed valid⁴⁷ were aggregated and averaged across all services.

⁴⁷ The analysis excluded trips when the individual and the vendor had the same address, when either the individual or the vendor had an address outside of California, when the length of the trip exceeded 100 miles, or when Bing Maps could not identify the address (a likely indication that the address was incorrect).

5. Average distances and times were computed for both the State as a whole and for each Regional Center, with the Regional Center figures presented as a percentage in relation to the statewide figure.

The travel distance and travel time percentages in relation to the statewide figures were averaged for each Regional Center in order to establish a single composite value. Based on these values, each Regional Center was assigned to one of three travel categories with a corresponding adjustment factor. Category A has a 90 percent adjustment factor and includes Regional Centers with composite values between 75 and 92 percent of the statewide figure. Regional Centers with a composite value between 97 and 109 percent were assigned to Category B with an adjustment factor of 105 percent. Category C includes Regional Centers with a composite value between 119 and 133 percent and has a 125 percent adjustment factor.

There are a couple of acknowledged limitations to the travel time and distance analysis. First, the vendor addresses on file may not represent the location from which the worker was dispatched because, for example, it is the address for an administrative location. Second, the analysis cannot account for scheduling efficiencies. For example, if a vendor delivers services to two individuals who are neighbors, they may send a worker who provides a service to the first individual and then walks next door to provide services to the second. The analysis, however, assumes that the worker travels from the office for each encounter.

For these reasons, the analysis was not used to estimate the travel distance and time included in the base rate models; instead the assumptions in the base rate models were informed primarily by data from the provider survey. Rather, the time and distance analysis was utilized to estimate relative differences, which were then translated to the adjustment factors.

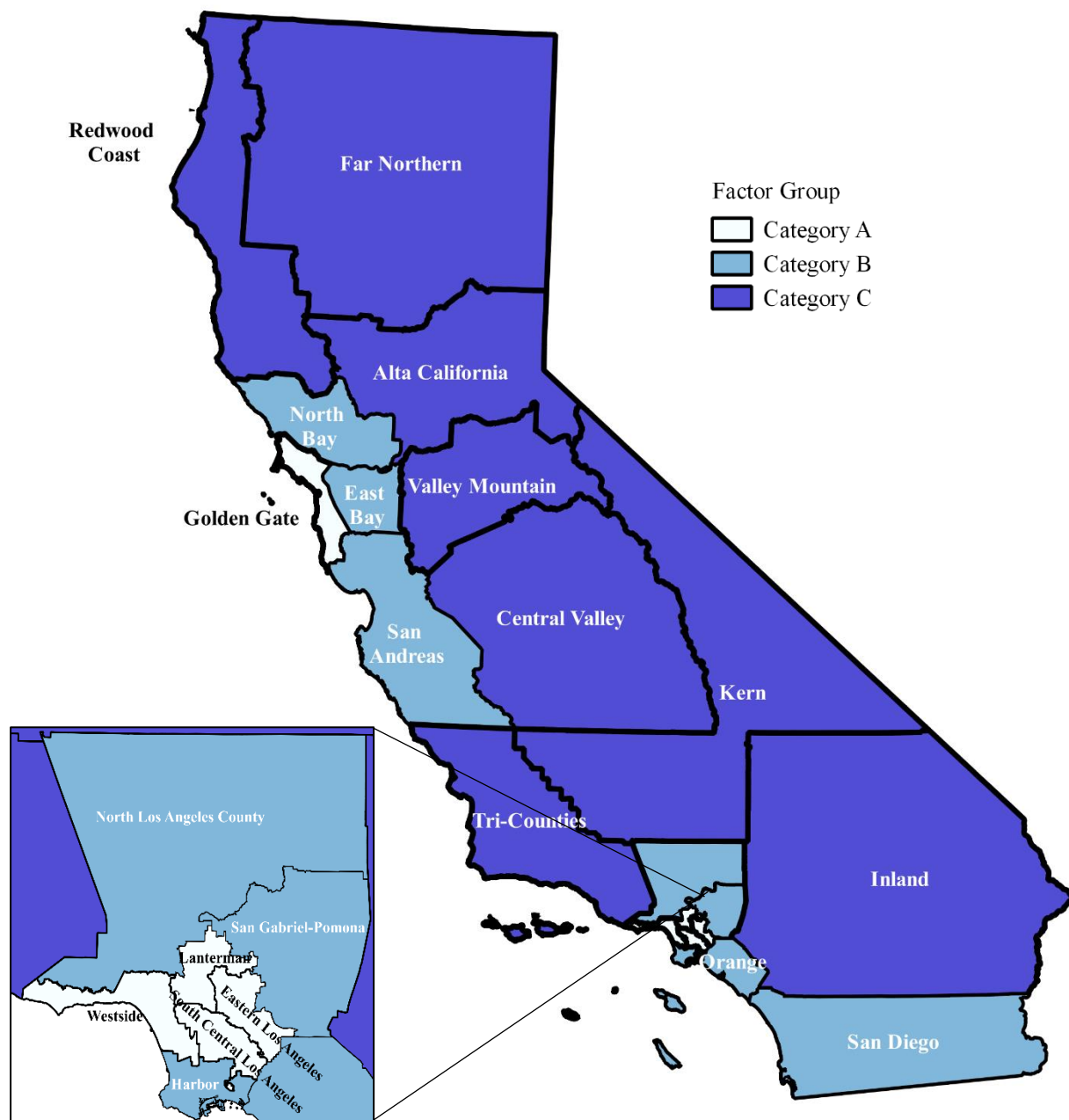
Additionally, a secondary analysis was performed to confirm the findings of the claims-based analysis. Using data from the 2010 decennial census⁴⁸, the population density – measured as the number of residents per square mile of land area – was calculated for each Regional Center. The Regional Centers were then categorized based on this data, with those with fewer than 300 people per square mile assigned to Category C, those with between 300 and 800 people per square assigned to Category B, and those with more than 800 people per square assigned to Category A.

The results largely affirmed the claims-based analysis, but the population density-based analysis yielded a different categorization for seven Regional Centers. When the results differed for a Regional Center, the rate study assigns the higher of the categorizations (that is, in the four instances in which the population density analysis produced a lower category, the original claims-based category is retained). This resulted in three Regional Centers – Central Valley,

⁴⁸ United States Census Bureau. Table GCT-PH1: Population, Housing Units, Area, and Density: 2010 – United States – County by State and for Puerto Rico (2010 Census Summary File 1). Retrieved from <https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=bkmk>.

Kern, and Redwood – being moved to Category C. Figure 3-11 illustrates the assumed travel time and distance categorizations.

Figure 3-11: Assignment of Travel Adjustment Factors by Regional Center



As depicted in the map, only Golden Gate Regional Center and four of the Los Angeles County Regional Centers are assigned to Category A. The rest of the Los Angeles County and coastal area Regional Centers are assigned to Category B, with the exception of Redwood Coast and Tri-Counties Regional Centers, which are assigned to Category C along with the interior Regional Centers.

Real Estate

The final adjustment factor relates to real estate costs. This factor only applies to services with space in which direct care is delivered, primarily center-based day programs.

The rate study relied on published reports on real estate costs for industrial, retail, and office space from LoopNet⁴⁹ (a subsidiary of CoStar Group) and Colliers International⁵⁰. The data from LoopNet was more complete in terms of offering data for more counties of the State so it was the primary source for the analysis. The Colliers data, however, is more current, reflecting the second quarter of 2018 compared to June 2016 for the LoopNet data and was reviewed for comparative purposes.

Due to the age of the data and the fact that it covers a variety of types of commercial space, the analysis was not used to set the real estate cost assumption in the base rate model. Rather, the analysis was used to identify the relative differences in real estate expenses across the State.

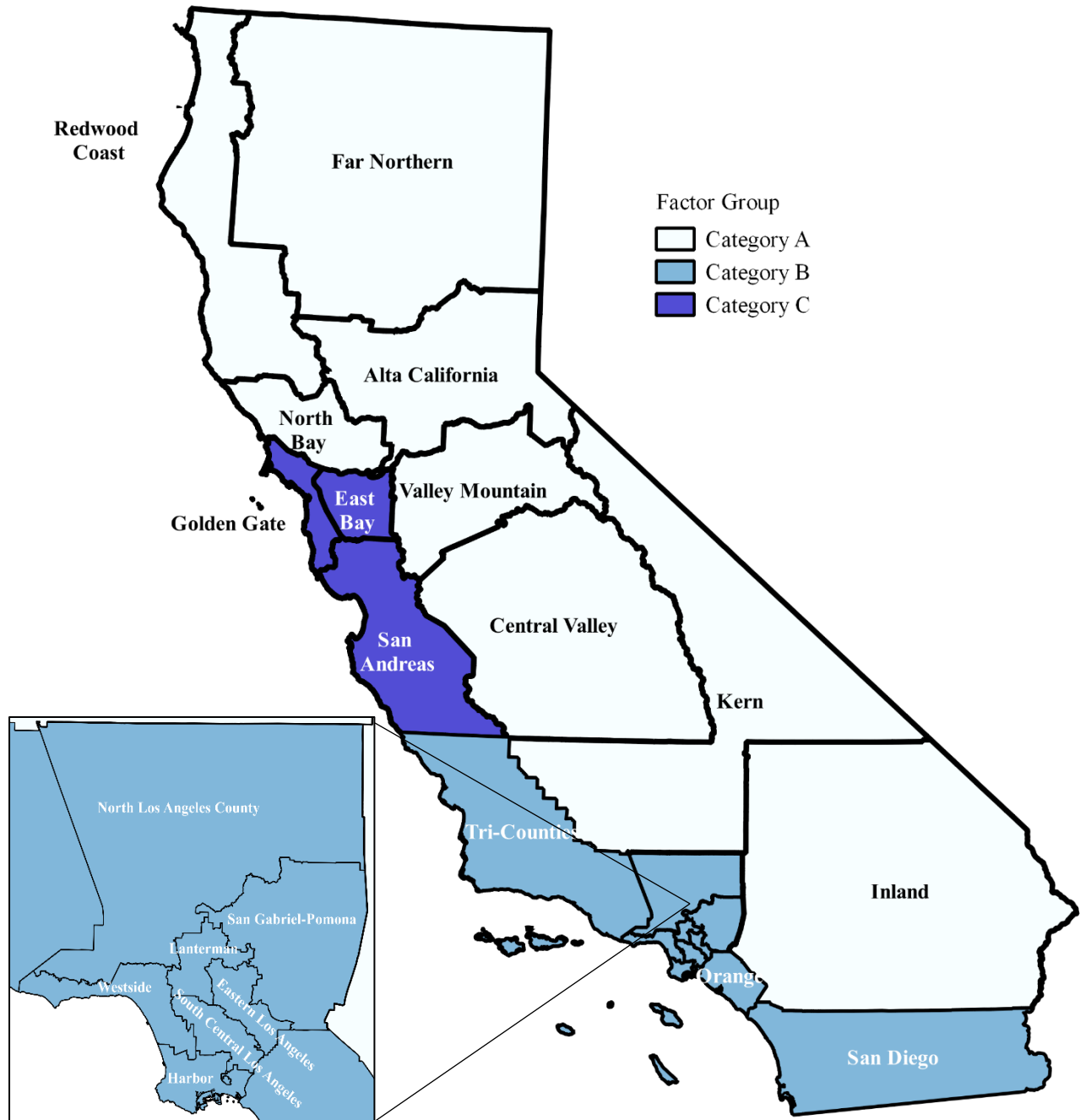
The county-level information reported by LoopNet was combined for each Regional Center and weighted based on the county's population to determine an average cost per square foot for that Regional Center. For each type of real estate, the Regional Center average was compared to the statewide average. The average of these ratios was used to assign each Regional Center to a category with a corresponding adjustment factor.

Category A has an adjustment factor of 80 percent and includes Regional Centers with an average cost that is between 51 and 86 percent of the statewide average. Regional Centers with costs that range from 97 percent to 116 percent of the statewide average were assigned to Category B and an adjustment factor of 115 percent. The remaining Regional Centers had costs that were 131 to 136 percent of the statewide average and were assigned to Category C with a 130 percent adjustment factor. Figure 3-12 illustrates the distribution of the categories.

⁴⁹ LoopNet. Market Trends data. (June 2016). Retrieved from https://www.loopnet.com/Los-Angeles_California_Market-Trends/.

⁵⁰ Colliers International. A Snapshot of Greater Los Angeles as of Quarter 2. Retrieved September from <https://www2.colliers.com/en/United-States/Cities/Los-Angeles>.

Figure 3-12: Assignment of Real Estate Adjustment Factors by Regional Center



The map shows that three Regional Centers – East Bay, Golden Gate, and San Andreas – are assigned to Category C. The Regional Centers on the southern coast and those in the Los Angeles area are included in Category B while the remainder of the State is in Category A.

PART 4: RATE MODELS AND RELATED POLICY ASSUMPTIONS

Following the process described in Part 3 of this report, rate models have been constructed for each of the services within the scope of the vendor rate study. These rate models have been developed in accordance with State and federal requirements.

Section 4.1: System-Wide Elements of the Rate Models

Consistent with the requirements of ABX2-1, the rate study includes a number of assumptions that have system-wide implications.

Supply of Providers

As noted in Part 1 of this report, ABX2-1 states that the rate study should consider the supply of providers when evaluating the effectiveness of rate-setting methodologies.

The supply of providers is influenced by a number of factors that include, but are not limited to, payment rates. For example, there is a national shortage of staff in a variety of professions (board certified behavior analysts, for instance) resulting in a demand for their services that exceeds the supply irrespective of payment rates;⁵¹ historically low unemployment rates have made it difficult for employers across industries to fill positions; and a community's amenities influence decisions regarding where to provide services.⁵²

Although payment rates cannot address all of these factors, the rate models produced as part of the rate study are designed to support services across the State and across demographic groups.

Fundamentally, the rate models are built upon market data that is intended to compensate providers for the estimated cost of delivering services. The rate study recognizes that costs can differ dramatically across California. Statewide rates, therefore, can result in rates that are too high in lower cost areas, but too low in higher cost areas, which may constrain that area's supply of providers. To account for differences in costs associated with wages, travel, and real estate, for every service in the rate study, a separate rate model has been constructed for each of the 21 Regional Centers. The development of these regional rate models is intended to help to support the supply of providers across the State, recognizing that barriers unrelated to rates may remain.

⁵¹ See, for example: President's Committee for People with Intellectual Disabilities. (2017). *Report to the President 2017: America's Direct Support Workforce Crisis: Effects on People with Intellectual Disabilities, Families, Communities and the U.S. Economy*. Retrieved from https://www.nadsp.org/wp-content/uploads/2018/02/PCPID-2017_-Americas-Direct-Support-Workforce-Crisis-low-res.pdf.

⁵² Knowledge@Wharton, University of Pennsylvania. (October 24, 2017). The Headquarters Checklist: How Do Companies Pick a Location? Retrieved from <http://knowledge.wharton.upenn.edu/article/headquarters-checklist-companies-pick-location/>.

In addition to geographically-driven differences in service levels and usage, a series of reports has identified disparities in service utilization based on race/ ethnicity and language. For example, an analysis presented by DDS in May 2017 found that both authorization and expenditures are highest for White consumers.⁵³ Similarly, results from the individual and family survey found generally lower satisfaction regarding services and access to supports among people of color. Although the source of these disparities is likely far more complicated than payment rates alone, the rate models include elements intended to positively impact the issue.

First, the rate study assumes that direct care workers would be required to receive cultural competency training as part of the 35 hours of annual training built into most rate models. Second, the rate models for most paraprofessional services include a higher ‘non-English’ rate for providers serving individuals who speak a language other than English, including American Sign Language, when services are provided by a direct care worker who speaks the consumer’s language. The rates are based on an assumed stipend of \$100 per month. This stipend amount (\$0.58 per hour plus the cost of additional payroll taxes) is added to the underlying rate model. Policies would need to be developed in order to confirm the language needs of individuals served and to define how workers would demonstrate competency in the non-English language.

Although the rate study does not offer a specific quantifiable standard for the ‘right’ number and mix of providers and it must be acknowledged that rates are not the only factor that influence the supply of providers, the rate study seeks to establish rates that positively impact the supply and quality of services throughout the State and for all groups.

Standardization and Simplification

ABX2-1 required that the rate study include an evaluation of the number and type of service codes. Consistent with that mandate, one of the underlying premises of the rate study is that, to the greatest extent practicable, a given support should fit into only one service code and that service code should be the same regardless of the Regional Center in which the support is being provided.

A necessary precursor to the evaluation of the use of service codes is an understanding of the requirements associated with each service code. However, for many service codes, particularly ‘miscellaneous’ service codes, there is limited guidance and structure. For example, the only definition identified for service code 063 for community activities support services – for which nearly \$50 million was spent in fiscal year 2016-17 – is “support on a time-limited basis to

⁵³ Department of Developmental Services. May 2017. Efforts to Address Disparities: Submitted in Response to March 14, 2017 Senate Human Services Committee Request.

accomplish various activities for consumers.”⁵⁴ Based on the definition alone, any service could be provided under this service code.

This is not to suggest that Regional Centers are not managing the use of this service code according to their own policies. Additionally, the role that the miscellaneous codes have played in providing supports to individuals, particularly given rate caps and freezes, is recognized. However, in order to develop rate models, there needs to be a shared understanding of what services are being provided, the activities that are and are not allowable, the qualifications of the staff delivering the service, and billing rules. Consequently, the rate study assumes that requirements would need to be established, enhanced, or otherwise updated to ensure standardized statewide service definitions. This effort will entail significant workload given the number of service codes and the need to change statute and regulations, as well as State guidelines. Relevant assumptions that were made in regards to policy changes when developing the rate models are noted in the service-specific discussion in the next section of this report.

Even for those services already defined in regulation, a review of current utilization data demonstrates that there are significant differences in how service codes are used across the Regional Centers. For example, service code 645 covers mobility training services, which are defined as services that “teach individuals how to use public transportation or other modes of transportation which will enable them to move about the community independently.”⁵⁵ Given the importance of transportation in terms of accessing the community, it is a near-certainty that these supports are delivered in every Regional Center. However, service code 645 was billed in only 9 of the 21 Regional Centers in fiscal year 2016-17. Further, statewide billings totaled only \$300,000. It is likely that supports that meet the regulatory definition – even in those Regional Centers in which this service code was used – are being billed under other service codes, such as those that cover independent living and supported living services. The rate study therefore assumes that service code 645 would be eliminated. To be clear, the supports would continue to be offered, but they would be subsumed by another service, primarily independent living.

The rate study assumes that several other service code consolidations would occur. Significantly, the rate study assumes that most medical and clinical services would be billed under the service code that corresponds to the professional delivering the service. For example, service code 772 is established for physical therapists. However, physical therapists are currently billing under a variety of service codes in addition to 772, including 103 for specialized health, treatment, and training services; 115, 116, and 117 for specialized therapeutic services; and 805 for infant development programs. The rate study assumes that physical therapists would be limited to billing under service code 772 and that other clinicians would similarly bill under the applicable

⁵⁴ Valley Mountain Regional Center. June 16, 2009. Service Code Listing-Numeric. Retrieved from <https://www.vmmc.net/wp-content/uploads/2013/10/Service-Code-Listing-Numeric-wT17Req.pdf>.

⁵⁵ 17 CCR § 54342(a)(47).

service code. Consequently, several service codes – but not the services themselves – would be eliminated:

- 048 for client/ parent support behavior intervention training
- 605 for adaptive skills training
- 103 for specialized, health, treatment, and training
- 115 for specialized therapeutic services for individuals between three and 20 years old
- 116 for specialized therapeutic services for individuals under three years of age
- 117 for specialized therapeutic services for individuals 21 years and older

The supports currently being delivered under these codes would transition to the service code that corresponds to the staff providing the service as described in the physical therapy example above. The service codes to which the supports would transition are typically subject to the schedule of maximum allowances; that is, rates set by the Department of Health Care Services. Additionally, it is recognized that there would be limited circumstances in which a higher rate may be needed to support some individuals. In this case, Regional Centers would be able to authorize an enhanced rate – a 39.7 percent increase above the standard rate as employed in the California Children’s Services program for physician services – pursuant to guidelines that would be established by DDS.

In some instances, the rate study assumes that a service code would be divided into subcomponents. For example, it is assumed that service code 952 for individual supported employment would be broken into job development and job coaching functions. This would be accomplished through the development of a new service code or the establishment of subcodes. The assumptions related to both consolidations and disaggregations are noted in the service-specific discussion that follows in the next section.

The rate study assumes that services delivered under service code 106 for specialized recreational therapy would be billed based on usual and customary rates in order to align payment for these services with the rates paid by individuals outside of the DDS system.

By standardizing service definitions, service code and subcode usage, and billing rules, standardized rate models can be developed. As described in Part 3 of this report, the rates would vary across the State to account for regional differences, but the rate model structures and factors would be consistent. A description of the rate models for each service included in the vendor rate study is included in Section 4.2.

Quality and Outcomes

There is a shared desire amongst payers, providers, and consumers to align payments with the quality of services and outcomes for individuals. Both issues are elements of the rate study required by ABX2-1.

As discussed in Part 1 of this report, there has been relatively little progress in tying HCBS payments to quality and outcomes. This is due, in part, to a lack of agreement on what should be measured and how to conduct the measurement. Whereas quality outcomes are both identifiable and measurable in the medical care field (for example, there are well-defined standards related to preventative care, disease management, preventing errors such as hospital-acquired infections and readmissions, etc.), the goals of HCBS are less clear or, at least, less measurable. For example, most I/DD systems have a goal that is akin to ‘helping individuals to achieve the maximum level of independence’. Measures of independence can be constructed: where do individuals live, how much time do individuals spend with community supports rather than paid staff, where do individuals spend their day, etc. However, the ‘maximum level of independence’ is going to vary from one person to the next based on their level of disability, their access to natural supports, and their preferences.

Thus, rather than seeking to define specific outcomes and a framework for measuring these outcomes, the rate models include elements that are indirect determinants of the quality of services and positive outcomes for individuals.

The direct care worker is the ‘face’ of the I/DD system, working with consumers on a daily basis. As such, these workers are perhaps the primary determinant of the quality of services as well as individuals’ satisfaction.

"DSPs are central to the quality of life of people with IDD, including human security, community, relationships, choice, and goals."

- The Council on Quality and Leadership⁵⁶

For this reason, the rate models include a number of assumptions intended to support a quality workforce. These assumptions, which are detailed in Part 3 of this report, include:

- Market-based wages and a comprehensive benefits package
- A requirement that most staff receive 70 hours of training over their first two years of employment
- Funding for productivity assumptions that reflect non-billable responsibilities that are necessary to be effective in the job, such as receiving feedback from their supervisor

⁵⁶ The Council on Quality and Leadership. September 25, 2018. Empowering the Direct Support Professional Workforce. Retrieved from <https://c-q-l.org/resource-library/resource-library/all-resources/empowering-the-direct-support-professional-workforce>.

These assumptions are intended to support a quality workforce. Although not included in the fiscal impact associated with this report, the rate models include the option for DSP ‘levels’ whereby staff who receive more training and demonstrate greater competency are assigned to a level that is attached to higher payment rates, to reflect higher wages.

The development of the credentialing system needed to support DSP levels would require the establishment of infrastructure both within DDS and within the provider community to adopt or create the criteria for the levels, to track who achieves each credential, and to develop of billing guidelines. This would be a significant and important undertaking that should include participation by providers, DSPs, and consumers.

In addition to effective direct care workers, quality services require internal supervisory and support capacity. As noted in Part 3 of the report, the rate models recognize the importance of these functions by increasing funding for them by an estimated 58 percent.

Section 4.2: Rate Models and Associated Policy Changes

This section provides the following information for each service for which a rate model has been developed:

- The existing service code or codes that correspond to the title used in the rate model, as applicable
- A high-level description of the service and any changes to existing requirements
- The time-based billing unit (for example, an hour or month of service)
- The rate variants that apply (for example, rates that vary based on staffing ratio)

This section is organized based on groupings of related services:

- *Personal supports and training services.* The first grouping includes services that are generally provided in the community on an individualized basis by paraprofessionals, such as personal assistance, independent living, most supported living, and respite.
- *Residential services.* The next grouping includes full-time residential care, including community care facilities, specialized residential facilities, family home agencies, and certain shared supported living programs.
- *Day, employment, and transportation services.* This grouping includes community-based day programs, individual and group employment, work activity programs, and transportation.
- *Professional and behavioral services.* The final grouping generally includes services provided by licensed professionals or staff working under the supervision of such professionals.

Personal Assistance

062-Personal Assistance

The service assists individuals with personal care and activities of daily living.

Overview of Rate Models

Billing Unit Hour

- Rate Models
- Geography-based rates
 - Non-English stipend
 - Group services (allowable ratios of 1:2 and 1:3)
 - Service duration (encounters of more or less than six hours)

Parent-Coordinated Personal Assistance

093-Parent-Coordinated Personal Assistance

The service assists individuals with personal care and activities of daily living through a self-directed model. The service requires the use of a Financial Management Service.

Since there is no agency infrastructure associated with this service, the rate model for this service does not include funding for program operations or administrative expenses.

Overview of Rate Models

Billing Unit Hour

- Rate Models
- Geography-based rates
 - Non-English stipend
 - Group services (allowable ratios of 1:2 and 1:3)

Independent Living Services

520-Independent Living Program

645-Mobility Training Services Agency

055-Community Integration Training Program (equivalent home- and community-based supports)

063-Community Activities Support Services (equivalent home- and community-based supports)

The service teaches consumers to live independently and/or provide the supports necessary for the consumer to maintain a self-sustaining, independent-living situation in the community.

The rate study assumes that service codes 520 and 645 as well as equivalent services delivered through service codes 055 and 063 would be combined into a single code.

Overview of Rate Models

Billing Unit Hour

- Rate Models
- Geography-based rates
 - Non-English stipend
 - Group services (allowable ratios of 1:2 and 1:3)
 - Service duration (encounters of more or less than six hours)

Independent Living Specialist

635-Independent Living Specialist

650-Mobility Training Services Specialist

The service teach consumers to live independently and/or provide the supports necessary for the consumer to maintain a self-sustaining, independent-living situation in the community.

Since there is no agency infrastructure associated with this service, the rate model does not include program operations and administrative expenses are funded at one-half of the standard rate.

Overview of Rate Models

Billing Unit Hour

- Rate Models
- Geography-based rates
 - Non-English stipend
 - Group services (allowable ratios of 1:2 and 1:3)
 - Service duration (encounters of more or less than six hours)

Supported Living Services

894-SLS Vendor Administration

896-Supported Living Service (Individual)

The service covers a number of supports for individuals living in their own home, including assisting with common daily living activities, performing routine household activities, locating and scheduling appropriate medical services; selecting and moving into a home; locating and choosing suitable house mates; becoming aware of and effectively using the transportation, police, fire, and emergency help available in the community; managing personal financial affairs; building and maintaining interpersonal relationships; and participating in community life.

Supported Living Services would be divided into two separate service modalities. The separation is based on whether staffing is provided on a 24-hour basis (excepting time when the individual may be participating in other paid supports such as an employment or day program) and on whether staff are dedicated to a single housing unit or support multiple units.

Programs in which staff supports multiple housing units (for example, in an apartment complex in which staff ‘float’ between units) on a 24-hour basis would be referred to as Shared Living-Community and are grouped into the residential services section. Programs in which a worker is only responsible for an individual or individuals behind a single ‘front door’ are summarized here.

The rate models include administrative costs so service code 894 would be eliminated.

Overview of Rate Models

Billing Unit Hour

- Rate Models
- Geography-based rates
 - Non-English stipend
 - Group services (allowable ratios of 1:2 and 1:3)
 - Service duration (encounters of more or less than six hours)

Parent-Coordinated Supported Living

073-Parent Coordinated Supported Living

The service covers a number of supports for individuals living in their own home, including assisting with common daily living activities, performing routine household activities, locating and scheduling appropriate medical services; selecting and moving into a home; locating and choosing suitable house mates; becoming aware of and effectively using the transportation, police, fire, and emergency help available in the community; managing personal financial affairs; building and maintaining interpersonal relationships; and participating in community life. The service requires the use of a Financial Management Service.

Since there is no agency infrastructure associated with this service, the rate model for this service does not include funding for program operations or administrative expenses.

Overview of Rate Models

Billing Unit Hour

- Rate Models
- Geography-based rates
 - Non-English stipend
 - Group services (allowable ratios of 1:2 and 1:3)

Parenting Support Services

108-Parenting Support Services

The service provides training to individuals who are parents or anticipate becoming parents.

The rate models assume that direct care workers must have a bachelor's degree in a public health or education field. As a result, it is expected that some services currently being delivered through this service code would not meet these requirements and would need to transition to some other service such as Independent Living or Supported Living.

Overview of Rate Models

Billing Unit Hour

- Rate Models
- Geography-based rates
 - Non-English stipend
 - Group services (allowable ratios of 1:2 and 1:3)

Tutor Services

025-Tutor Services

680-Tutor

The service provides instruction to individuals that is supplementary to, or independent of, instruction provided by the classroom teacher. The rate study assumes the two service codes would be consolidated and limited to adults receiving post-high school instruction.

The rate models assume that tutors must have a bachelor's degree in a relevant field. As a result, it is expected that some services currently being delivered through these service codes would not meet these requirements and would need to transition to some other service such as Personal Assistance or Independent Living.

Overview of Rate Models

Billing Unit Hour

- Rate Models
- Geography-based rates
 - Non-English stipend
 - Group services (allowable ratios of 1:2 and 1:3)

Respite, Agency

862-In-Home Respite Services Agency (excluding employer of record)

The service provides intermittent support to individuals to support or relieve primary caregivers for the benefit of the individual. Services delivered through an employer of record model would be transitioned to participant-directed respite.

Overview of Rate Models

Billing Unit Hour

- Rate Models
- Geography-based rates
 - Non-English stipend
 - Group services (allowable ratios of 1:2 and 1:3)
 - Service duration (encounters of more or less than six hours)

Participant-Directed Respite

420-Voucher Respite

465-Participant-Directed Respite Services

862-In-Home Respite Services (employer of record)

864-In-Home Respite Worker

The service provides intermittent support to individuals to support or relieve primary caregivers for the benefit of the individual. The rate study assumes that service codes 420, 465, and 864 as well as services delivered through an employer of record model through service code 862 would be combined into a single service code. The service requires the use of a Financial Management Service.

Since there is no agency infrastructure associated with this service outside of the FMS, the rate model for this service does not include funding for program operations or administrative expenses.

Overview of Rate Models

Billing Unit Hour

- Rate Models
- Geography-based rates
 - Non-English stipend
 - Group services (allowable ratios of 1:2 and 1:3)

Housekeeping

858-Homemaker

860-Homemaker Services

The service would provide assistance with routine household activities at an individual's home. An individual would be limited to three hours of service per week.

Existing supports billed under service codes 858 and 860 that are used to provide personal assistance or companion services would need to transition to some other service such as Personal Assistance or Independent Living.

The rate model for this service does not including program operations funding and administrative expenses are funded at one-half of the standard rate.

Overview of Rate Models

Billing Unit Hour

- Rate Models • Geography-based rates
 • Group services (allowable ratios of 1:2 and 1:3)

Program Support Group-Other Services

111-Program Support Group-Other Services

The service provides time-limited supplemental staffing for programs other than day or residential programs for individuals that require additional staffing within their programming.

Since this service only provides additional staffing for existing programs, the rate model does not include program operations funding and administrative expenses are funded at one-half of the standard rate.

Overview of Rate Models

Billing Unit Hour

- Rate Models • Geography-based rates

Community Care Facility-Staff Operated

915-Residential Facility Serving Adults-Staff Operated

920-Residential Facility Serving Children-Staff Operated

The services provide care to adults and children in licensed facilities with ‘shift’ (rather than live-in) staff.

The rate models assume that the current distinction between homes with four or fewer individuals and those with five or more individual would be maintained except that there would be a new distinction between homes with five or six residents and those with seven or more residents. Rate models have not been developed for homes with seven or more residents (that is, it is assumed that these rates would not change).

The rate models assume that the existing 11 support levels (which excludes level 1, which is a room and board only payment) would be collapsed into five levels with the following staff hour assumptions:

Current Level(s)	New Level	Staff Hours – Homes w/ Fewer Than 4 Beds		Staff Hours – Homes w/ 5 or 6 Beds	
		Total	Net of Administrator	Total	Net of Administrator
2	2	168	128	168	128
3/ 4A/ 4B	3	180	140	220	180
4C/ 4D/ 4E	4	220	180	280	240
4F/ 4G/ 4H	5	260	240	340	320
4I	6	300	280	400	380

In terms of these staffing assumptions:

- The first 168 staff hours in the table reflect coverage (i.e., vendor must have staff available, but staff do not need to be onsite if no consumers are present) so the rate models count home administrator hours to meet a portion of the requirement (i.e., they can provide on-call coverage)
- The rate models assume 8 hours per day at a higher ‘lead DSP’ wage
- It is assumed that overnight staff are permitted to sleep in Level 2 and 3 homes only if *all* consumers’ IPPs state that they do not require awake staff
- The rate models fund overnight hours in Level 2, 3, and 4 homes at minimum wage

- Five percent of work hours for line staff and lead staff are assumed to be paid at an overtime wage (time-and-a-half)

The rate models do not assume any changes to the room and board component of the payment for this service, which is tied to Supplemental Security Income/ and State Supplementary Payment (SSI/SSP) amounts.

Due to the variability in the staffing requirements for homes that serve individuals with extraordinary needs, there is a customizable rate model that would be used to determine the rate. These values are ‘priced’ according to standardized cost assumptions in order to produce the rate for a given residence. For example, the cost per staff hour is fixed in the rate model, but the number of staff hours for a residence is customized to a specific location. Costs would be calculated for the home overall and equally spread across the individuals in the home (that is, all consumers in a given home would have the same rate).

Overview of Rate Models

Billing Unit Month

- Rate Models
- Geography-based rates
 - Non-English stipend
 - Level of need
 - Home size/number of placements

Adult Residential Facility, Persons with Special Health Care Needs (ARFPSHN)

113-Specialized Residential Facility

Service code 113 currently includes ARFPSHNs and other specialized residential facilities (SRF). The rate study assumes that SRFs would be transitioned to the community care facility service codes and that service code 113 would be limited to ARFPSHNs.

ARFPSHNs are adult residential facilities that provide 24-hour health care and intensive support services in a homelike setting that is licensed to serve up to five adults with developmental disabilities in accordance with the requirements of WIC § 4684.50 et seq.

Due to the variability in the staffing requirements across AFRPSHNs, the rate study does not include fixed rates for these residences. Rather, there is a customizable rate model in which approved home size, staff hours, and consultant hours are input. These values are ‘priced’ according to standardized cost assumptions in order to produce the rate for a given residence. For example, the cost per staff hour is fixed in the rate model, but the number of staff hours for a residence is customized to a specific location. Costs would be calculated for the home overall and equally spread across the individuals in the home (that is, all consumers in a given home would have the same rate).

The rate model assumes that all direct care workers in the home are certified nursing assistants.

Overview of Rate Models

Billing Unit Month

- Rate Models
- Geography-based rates
 - Non-English stipend (requires that the individual have onsite access to a staff person that speaks their language at all times)
 - Facility size/number of placements

Community Care Facility-Owner Operated

905-Residential Facility Serving Adults-Owner Operated

910-Residential Facility Serving Children-Owner Operated

The services provide care to adults and children in licensed facilities in which the homeowner resides.

The rate models assume that the current distinction between homes with four or fewer individuals and those with five or more individuals would be maintained except that there would be a new distinction between homes with five or six residents and those with seven or more residents. Rate models have not been developed for homes with seven or more residents (that is, it is assumed that these rates would not change).

The rate models assume that the existing 11 support levels (which excludes level 1, which is a room and board only payment) would be collapsed into five levels with the following staff hour assumptions:

Current Level(s)	New Level	Staff Hours – Homes w/ Fewer Than 4 Beds		Staff Hours – Homes w/ 5 or 6 Beds	
		Total	Net of Owner	Total	Net of Owner
2	2	168	0	168	0
3/ 4A/ 4B	3	180	12	220	52
4C/ 4D/ 4E	4	220	52	280	112
4F/ 4G/ 4H	5	260	92	340	172
4I	6	300	132	400	232

In terms of these staffing assumptions:

- The rate models count 168 hours for the home owner against the staffing requirements
- The rate models do not include a home administrator or lead staff, assuming the owner performs these roles
- It is assumed that overnight staff are permitted to sleep in Level 2 and 3 homes only if *all* consumers' IPPs state that they do not require awake staff
- The rate models fund overnight hours in Level 2, 3, and 4 homes at minimum wage
- Five percent of work hours for line staff and lead staff are assumed to be paid at an overtime wage (time-and-a-half)

The rate models do not assume any changes to the room and board component of the payment for this service, which is tied to Supplemental Security Income/ and State Supplementary Payment (SSI/SSP) amounts.

Due to the variability in the staffing requirements for homes that serve individuals with extraordinary needs, there is a customizable rate model that would be used to determine the rate. These values are ‘priced’ according to standardized cost assumptions in order to produce the rate for a given residence. For example, the cost per staff hour is fixed in the rate model, but the number of staff hours for a residence is customized to a specific location. Costs would be calculated for the home overall and equally spread across the individuals in the home (that is, all consumers in a given home would have the same rate).

Overview of Rate Models

Billing Unit Month

- Rate Models
- Geography-based rates
 - Non-English stipend
 - Level of need
 - Home size/number of placements

Supported Living-Community

894-SLS Vendor Administration

896-Supported Living Service (shared supports provided on a 24-hour basis)

The service covers a number of supports for individuals living in their own home, including assisting with common daily living activities, performing routine household activities, locating and scheduling appropriate medical services; selecting and moving into a home; locating and choosing suitable house mates; becoming aware of and effectively using the transportation, police, fire, and emergency help available in the community; managing personal financial affairs; building and maintaining interpersonal relationships; and participating in community life.

Supported Living Services would be divided into two separate service modalities. The separation is based on whether staffing is provided on a 24-hour basis and on whether staff are dedicated to a single housing unit or support multiple units.

Programs in which staff support multiple housing units (for example, in an apartment complex in which staff ‘float’ between units) on a 24-hour basis (excepting time when the individual may be participating in other paid supports such as an employment or day program) would be referred to as Shared Living-Community and are summarized here. Supported Living programs in which a worker is only responsible for an individual or individuals behind a single ‘front door’ are in the personal supports section.

Due to the variability in the staffing requirements across Supported Living-Community sites, the rate study does not include fixed rates for these programs. Rather, there is a customizable rate model in which the approved number of consumers, staff hours, and consultant hours are input. These values are ‘priced’ according to standardized cost assumptions in order to produce the rate for a given residence. For example, the cost per staff hour is fixed in the rate model, but the number of staff hours for a residence is customized to a specific location. Costs would be calculated for the location overall and equally spread across the individuals at the site (that is, all consumers at a given location would have the same rate).

The rate models include administrative costs so service code 894 would be eliminated.

Overview of Rate Models

Billing Unit Month

- Rate Models
- Geography-based rates
 - Non-English stipend (requires that the individual have onsite access to a staff person that speaks their language at all times)

Family Home Agency

904-Family Home Agency

The service provides for the recruitment, training, and monitoring of family homes providers.

The rate study assumes that family home agencies would be required to pay at least 45 percent of the total rate to the home provider.

Overview of Rate Models

Billing Unit Month

- Rate Models
- Geography-based rates
 - Non-English stipend (applies to the home provider)
 - Level of need (there are six levels based on an individual's level of need as approved by the Regional Center)

Enhanced Behavioral Supports Homes (EBSH)

900-Enhanced Behavioral Supports Home-Facility Component

901-Enhanced Behavioral Supports Home-Individualized Component

EBSHs are adult residential facilities and group homes with up to four consumers that provide 24-hour nonmedical care to individuals who require enhanced behavioral supports, staffing, and supervision in a homelike setting. These programs were designed for consumers who require intensive services and supports due to challenging behaviors that cannot be managed in a community setting without the availability of enhanced behavioral services and supports, and who are now in more restrictive placements, including developmental centers, locked mental health facilities, and out-of-state placements, or who are at risk of institutionalization.

Due to the variability in the staffing requirements across EBSHs, the rate study does not include fixed rates for these residences. Rather, there is a customizable rate model in which approved home size, staff hours, and consultant hours are input. These values are ‘priced’ according to standardized cost assumptions in order to produce the rate for a given residence. For example, the cost per staff hour is fixed in the rate model, but the number of staff hours for a residence is customized to a specific location. Costs would be calculated for the home overall and equally spread across the individuals in the home (that is, all consumers in a given home would have the same rate).

The rate study assumes that there would continue to be two rates. The Facility Component covers facility, mileage, home administrator, program operations, and administrative costs. The Individualized Component includes the cost of the direct care, board certified behavior analyst, and consultant hours approved for each individual. The cost of the lead staff would be moved from the Facility Component to the Individualized Component for the first resident in the home.

The rate model funds program operations expenses at 200 percent of the cost built in the alternative residential model rates (for a total of \$20 per day per consumer). Administrative costs are fixed at the amount included in the four-bed level 6 ARM rate. The rate model assumes that all direct care workers in the home are registered behavior technicians.

Overview of Rate Models

Billing Unit Month

- Rate Models • Geography-based rates
- Non-English stipend (requires that the individual have onsite access to a staff person that speaks their language at all times)

Community Crisis Homes (CCH)

902-Community Crisis Home-Facility Component

903-Community Crisis Home-Individualized Component

CCHs are adult residential facilities and group homes with up to eight consumers that provide 24-hour nonmedical care to individuals who require crisis intervention services. These programs were designed for consumers who require intensive services and supports due to challenging behaviors that cannot be managed in a community setting without the availability of crisis intervention services and supports, and who would otherwise be at risk of admission to an acute crisis location, such as an out-of-state placement, a general acute hospital, an acute psychiatric hospital, an institution for mental disease, or a more restrictive setting.

Due to the variability in the staffing requirements across CCHs, the rate study does not include fixed rates for these residences. Rather, there is a customizable rate model in which approved home size, staff hours, and consultant hours are input. These values are ‘priced’ according to standardized cost assumptions in order to produce the rate for a given residence. For example, the cost per staff hour is fixed in the rate model, but the number of staff hours for a residence is customized to a specific location. Costs would be calculated for the home overall and equally spread across the individuals in the home (that is, all consumers in a given home would have the same rate).

The rate study assumes that there would continue to be two rates. The Facility Component covers facility, mileage, home administrator, program operations, and administrative costs. The Individualized Component includes the cost of the direct care and consultant hours approved for each individual. The cost of the lead staff would be moved out of the Facility Component to the Individualized Component for the first resident in the home.

The rate model funds program operations expenses at 200 percent of the cost built in the alternative residential model rates (for a total of \$20 per day per consumer). Administrative costs are fixed at the amount included in the four-bed level 6 ARM rate. The rate model assumes that all direct care workers in the home are registered behavior technicians.

Overview of Rate Models

Billing Unit Month

- Rate Models • Geography-based rates
- Non-English stipend (requires that the individual have onsite access to a staff person that speaks their language at all times)

Supplemental Program Support-Residential Services

109-Program Support Group-Residential

The service provides time-limited supplemental staffing in residential programs for individuals that require that require additional staffing within their programming.

Since this service only provides additional staffing for existing programs, the rate model does not include program operations funding and administrative expenses are funded at one-half of the standard rate.

Overview of Rate Models

Billing Unit Hour

Rate Models • Geography-based rates

Community-Based Day Program

028-Socialization Training Program

055-Community Integration Training Program (as applicable)

063-Community Activities Support Services (as applicable)

094-Creative Arts Program

505-Activity Center

510-Adult Development Center

515-Behavior Management Program

525-Social Recreation Program

The service provides a variety of supports, typically in a group setting, including assistance with developing and maintaining self-help and self-care skills; developing the ability to interact with others, making one's needs known, and responding to instructions; developing self-advocacy and employment skills; developing community integration skills such as accessing community services; behavior management; and developing social and recreational skills.

The rate study assumes the listed service codes would be consolidated into a single, overarching framework. Within this framework, providers would be vendorized for a specific program type and specified staffing ratios for center-based and community-based services. Billing would reflect where services are delivered; that is, if an individual receives both center- and community-based services in a day, the vendor would bill for the applicable number of hours of each.

Overview of Rate Models

Billing Unit Hour

- Rate Models
- Program focus
 - Medical programs assumed to be staffed by certified nursing assistants
 - Behavior programs assumed to be staffed by registered behavior technicians
 - Non-medical, non-behavioral programs
 - Service location (center/ facility and community)
 - Staffing ratio (1:2 to 1:10 for center/ facility and 1:2 or 1:3 for community)
 - Geography-based rates
 - Non-English stipend

Participant-Directed Day Program

475-Participant-Directed Community-Based Training Services

The service assists individuals in the development of skills required for community integrated employment and/or participation in volunteer activities and to secure employment and/or volunteer positions or pursue secondary education. The service requires the use of a Financial Management Service.

Since there is no agency infrastructure associated with this service, the rate model for this service does not include funding for program operations or administrative expenses.

Overview of Rate Models

Billing Unit Hour

- Rate Models • Geography-based rates
- Staffing ratio (allowable ratios from 1:1 to 1:3)

In-Home Day Program

091-In-Home/Mobile Day Program

The service supports consumers who are unable to attend day programs outside their homes, because of medical conditions that prevent travel to outside programs. In-Home Day Program services include a variety of activities designed to meet consumer needs from activity center programs to vocational activities.

Overview of Rate Models

Billing Unit Hour

- Rate Models • Geography-based rates
- Non-English stipend
- Staffing ratio (allowable ratios from 1:1 to 1:3)

Supported Employment-Individual

952-Supported Employment-Individual

055-Community Integration Training Program (as applicable)

063-Community Activities Support Services (as applicable)

The service provides supports to assist individuals on a one-to-one basis to obtain and maintain paid work in a community setting.

The rate study assumes that individual employment supports currently delivered through service codes 055 and 063 would be transitioned to service code 952. To accommodate this transition and to expand the potential pool of providers, the rate model assumes that the service definition would be amended to permit for-profit entities to provide the service.

There are separate rate models for job development and for job coaching to recognize differences in the staff performing these functions and their typical productivity. The rate study assumes that job development would be limited to 40 hours per year for a participant.

The rate study assumes that billing for travel time would no longer be permitted as these costs are built into the rate model as a productivity adjustment. The rate models do not assume any changes to the existing competitive integrated employment incentive payments.

Overview of Rate Models

Billing Unit	Hour
Rate Models	<ul style="list-style-type: none">• Geography-based rates• Non-English stipend• Service type (job development and job coaching)

Supported Employment-Group

950-Supported Employment-Group

055-Community Integration Training Program (as applicable)

063-Community Activities Support Services (as applicable)

The service supports a group of individuals engaged in paid work in a community setting.

The rate study assumes that group employment supports currently delivered through service codes 055 and 063 would be transitioned to service code 950. To accommodate this transition and to expand the potential pool of providers, the rate model assumes that the service definition would be amended to permit for-profit entities to provide the service.

The rate study assumes that billing for travel time would no longer be permitted as these costs are built into the rate model as a productivity adjustment. Additionally, it is assumed that services would be separately billed for each consumer rather than billed based on the job coach's hours.

Overview of Rate Models

Billing Unit	Hour
Rate Models	<ul style="list-style-type: none">• Geography-based rates• Non-English stipend• Staffing ratio (allowable ratios of 1:2 to 1:8)

Work Activity Program

954-Rehab Work Activity Program

The service includes paid work, work adjustment (for example, developing good work safety practices, money management skills, and appropriate work habits) and supportive habilitation services (for example, social skill and community resource training necessary to achieve vocational objectives). Services are typically delivered in a *sheltered work shop setting*.

Overview of Rate Models

Billing Unit	Hour
Rate Models	<ul style="list-style-type: none">• Geography-based rates• Non-English stipend• Staffing ratio (allowable ratios of 1:4 to 1:35)

Transportation

875-Transportation Company

880-Transportation-Additional Component

The service provides regularly scheduled transportation for individuals to and from their day activity. The rate study assumes that service codes 875 and 880 would be consolidated.

The rate model for this service does not fund program operations or administrative expenses because this service is intended to be provided in conjunction with Transportation Coordination, which provides for the costs associated with these functions. Thus, every trip would involve two billings: one for the actual delivery of transportation and one for transportation coordination. These billings may be made by the same provider or by different providers.

Overview of Rate Models

Billing Unit	One-way trip
Rate Models	<ul style="list-style-type: none">• Geography-based rates• Ambulation (enhanced rate for individuals with wheelchairs)

Transportation Coordination

883-Transportation Broker

The service provides for the coordination, logistics, and oversight functions associated with regularly scheduled transportation for individuals to and from their day activity.

The rate model includes funding for the program operations and administrative expenses associated with transportation delivery. This service is intended to be provided in conjunction with Transportation, which provides for the costs associated with the actual transportation. Thus, every trip would involve two billings: one for the actual delivery of transportation and one for transportation coordination. These billings may be made by the same provider or by different providers.

Overview of Rate Models

Billing Unit	One-way trip
Rate Models	<ul style="list-style-type: none">• Geography-based rates

Transportation Assistant

882-Transportation-Assistant

The service provides time-limited supplemental staffing to accompany an individual during their regularly scheduled transportation.

Since this service only provides additional staffing for existing programs, the rate model does not include program operations funding and administrative expenses are funded at one-half of the standard rate.

Overview of Rate Models

Billing Unit Hour

Rate Models • Geography-based rates

Supplemental Program Support-Day Services

110-Program Support Group-Day Services

The service provides time-limited supplemental staffing in day programs for individuals that require additional staffing within their programming.

Since this service only provides additional staffing for existing programs, the rate model does not include program operations funding and administrative expenses are funded at one-half of the standard rate.

Overview of Rate Models

Billing Unit Hour

Rate Models • Geography-based rates

Behavior Analyst

612-Behavior Analyst

Behavior analysts assess the function of a behavior of a consumer and design, implement, and evaluate instructional and environmental modifications to produce socially significant improvements in the consumer's behavior through skill acquisition and the reduction of the behavior.

Overview of Rate Models

Billing Unit Hour

- Rate Models • Geography-based rates
- Group services (allowable ratios of 1:2 and 1:3)

Associate Behavior Analyst

613-Associate Behavior Analyst

Associate behavior analysts assess the function of a behavior of a consumer and design, implement, and evaluate instructional and environmental modifications to produce socially significant improvements in the consumer's behavior through skill acquisition and the reduction of the behavior, under direct supervision of a Behavior Analyst or Behavior Management Consultant.

Overview of Rate Models

Billing Unit Hour

- Rate Models • Geography-based rates
- Group services (allowable ratios of 1:2 and 1:3)

Behavior Management Assistant

615-Behavior Management Assistant

Behavior management assistants assess the function of a behavior of a consumer and design, implement, and evaluate instructional and environmental modifications to produce socially significant improvements in the consumer's behavior through skill acquisition and the reduction of the behavior, under direct supervision of a Behavior Analyst or Behavior Management Consultant.

Overview of Rate Models

Billing Unit Hour

- Rate Models • Geography-based rates
 • Group services (allowable ratios of 1:2 and 1:3)

Behavior Technician-Paraprofessional

616-Behavior Technician-Paraprofessional

Under the direct supervision of a certified Behavior Analyst or a Behavior Management Consultant, behavior management technicians (paraprofessionals) implement instructional and environmental modifications to produce socially significant improvements in the consumer's behavior through skill acquisition and the reduction of the behavior.

Overview of Rate Models

Billing Unit Hour

- Rate Models • Geography-based rates
 • Non-English stipend
 • Group services (allowable ratios of 1:2 and 1:3)

Behavior Management Consultant

620-Behavior Management Consultant

Behavior management consultants design and/or implement behavior modification intervention services.

Overview of Rate Models

Billing Unit Hour

- Rate Models • Geography-based rates
- Group services (allowable ratios of 1:2 and 1:3)

Infant Development Program

805-Infant Development Program

Infant development programs promote physical, cognitive, language and speech, and, psychosocial development; promote self-help and feeding; increase parent and child interaction by training parents to recognize and respond to the child's unique characteristics, temperament, and non-verbal communication signaling distress or the need for interaction; increase and develop parent/ child interpersonal relationships through the day-to-day activities, such as bathing, dressing, feeding and comforting; and build parenting skills relating to the parents' ability to care for the special needs of the child.

The rate study assumes that the service would be limited to 'special instruction' services (that is, services provided by early childhood teachers/ specialists) and that services provided by other professionals (therapists, for example) would be transitioned to the service code that corresponds to their professional qualifications (for example, a physical therapist would bill under service code 772).

Overview of Rate Models

Billing Unit Hour

- Rate Models • Geography-based rates
- Staff qualifications (licensed professionals, specialists with a bachelor's degree, paraprofessional)
 - Service setting (center-based or community-based)
 - Group services (allowable ratios of 1:1 through 1:3)

Crisis Evaluation and Behavior Intervention

017-Crisis Team-Evaluation & Behavior Modification

The service provides crisis intervention services designed to support and stabilize the consumer in their current living arrangement or other appropriate setting (e.g., day program, school, community respite). Services include consultation with parents, individuals, or providers of services to develop and implement individualized crisis treatment, as well as supplemental crisis intervention.

Overview of Rate Models

Billing Unit Hour

- Rate Models • Geography-based rates
- Staff qualifications (licensed professionals, specialists with a bachelor's degree, paraprofessional)

Section 4.3: Fiscal Impact Analysis

As described in Part 1 of this report, outside of increases for statewide minimum wage and overtime, rates were relatively unchanged between 2003 and 2015 until more than \$400 million in total funds was provided by ABX2-1 for rate increases. Even with the ABX2-1 rate increases, the rate models represent a substantial increase over existing rates for most services. Although the rate study does not offer recommendations regarding the potential timing and strategy of implementation of the rate models, ABX2-1 requires that it include an analysis of the potential fiscal impact.

The annualized impact of implementing many of this study's rate models is an estimated \$1.8 billion in total funds.⁵⁷ An estimated 60 percent, or \$1.1 billion, of these costs would be General Fund. A brief summary of the assumptions and methodology used to develop this estimate follows:

- Fiscal year 2016-17 claims were 'repriced' as if the rate models had been in effect; the difference between the actual and repriced totals represents the baseline impact.
- Since most service codes are not limited to a single billing unit (for example, an hour or a month), the repricing first required a unit type had to be attached to each claim in order to avoid pricing, for instance, a monthly unit according to an hourly rate. Claims do not include a field for the unit type so this process required linking claims to an approved

⁵⁷ The \$1.8 billion cost estimate does not include the implementation of the rate models for DSP levels as described in Section 4.1.

rates file and matching the two based on five points: vendor ID, consumer, service code, service subcode, and billed rate⁵⁸. Additional manual steps were undertaken to attempt to assign billing units to claims when there was not a five-point match between the claims data and rates file.

- Billing units were standardized when feasible. For example, a rate based on a 15-minute unit could easily be converted to an hourly rate by multiplying by four. Other conversions were not possible; for example, a monthly billing unit could not be converted to an hourly equivalent because there is no way to determine the number of hours of service that were actually provided during the month.
- Claims with billing units that could be translated to the unit assumed in the rate model were repriced. For example, for a service code with a rate model based on an hourly billing unit, all 15-minute, 30-minute, and 60-minute units were repriced.
- To control for the possibility of erroneous billing unit assignments for claims that could be compared to the rate models (that is, the claim had the same billing unit as the rate model), a range of feasible billed rates were established for service codes. For example, it was assumed that claimed hourly rates between \$11.00 and \$55.00 were possible for service code 062 (Personal Assistance) to account for legal minimum wage at the low end of the threshold and specialized rates at the high end. Rates falling outside of the established range were excluded from the direct repricing, and instead were assumed to change in the same proportion as the change for the directly repriced units. For example, if the claims with an hourly rate of between \$11.00 and \$55.00 were increasing by 22 percent, it was assumed that the claims outside of the threshold changed would also increase by 22 percent.⁵⁹
- For billing units that could not be translated to the unit type in the rate model, it was assumed that they would also change in the same proportion as the change for the convertible units. To continue the example above, if the repricing of the 15-minute, 30-minute, and 60-minute units resulted in an aggregate estimated increase of 22 percent, it was assumed that the total spending associated with the monthly units would also increase 22 percent.
- The estimated fiscal impacts for service codes that are not limited to a single ‘service’ and that would, therefore, be associated with different rates were not based on a repricing of units. Instead, the proportion of total spending associated with the various services was allocated based on provider survey results and the corresponding rate of

⁵⁸ DDS provided fiscal year 2016-17 claims data as a monthly roll-up of claims for each client, differentiated by service code, sub-code, month of claim, and Regional Center. The billed rate is calculated as the total monthly payment for each claim divided by total billed units.

⁵⁹ The rates of change were applied at the Regional Center level when possible for both these estimates as well as those discussed in the next bullet. If a particular Regional Center had no claims that could be repriced directly (e.g., only monthly units when the rate model is built on an hourly unit), the statewide rate of change was applied.

change for the comparable service was applied. For example, service code 055 may be used for in-home services, for look-alike day programs, or for supported employment. All of these services have different rates, but there is no way to determine which service was provided based on the claims. The provider survey asked for providers to report revenue based on these activities and the reported proportions were applied to the claims totals in order to allow for the repricing.

- A similar process was employed for service codes that cover different activities. For example, the rate models assumed that individual supported employment will be divided into job development and job coaching rates. The claims data do not currently distinguish between these activities so the provider survey was used to estimate the amount of total current spending associated with each activity.
- Two adjustments were made to update the assumption to reflect fiscal year 2019-20 rather than 2016-17. First, the estimated fiscal impact was reduced to account for the rising statewide minimum wage through 2019-20. Second, the estimate was increased to account for system growth that has occurred in recent years (since the rate models would apply to a larger base of services than in fiscal year 2016-17).

The estimated impact, detailed by service code, is included as Attachment 5.

CONCLUSION

Consistent with the requirements and intent of ABX2-1, the rate study and the rate models reflect:

- A standardized approach to rate-setting such that providers delivering the same service in the same area receive the same payment
- Simplification of service codes by consolidating a number of existing codes based on the assumption that a support should be associated with the same service code regardless of where that support is provided
- The use of market-based cost data to reflect providers' costs in order to support a stable and high-quality supply of providers
- A detailed and transparent accounting of these costs so changes could be considered over time
- Recognition of differences in wage, travel, and real estate costs across the State by developing separate rate models for each Regional Center
- The development of enhanced rates for services delivered to individuals who do not speak English when delivered by staff who speak their language, including American Sign Language

The rate study and resultant rate models would represent a shift not only in payment rates, but also billing policies and service requirements. As such, there are numerous operational and other issues that would need to be considered, including:

- Creating and amending statutes, regulations, and policies
- Development of reporting requirements related to elements such as consumer outcomes and staff compensation so that the State is able to measure the result of any increases in payment rates
- Changes to billing systems and related infrastructure across DDS, Regional Centers, and providers
- New authorizations and vendorizations to accommodate changes to service codes

This rate study is intended to inform the Administration, and the Legislature, on the delivery of community-based services for individuals with developmental disabilities. The process has provided more insights, and greater specificity, into its current rate structure. The report is a framework and the Department plans to continue discussions with the Legislature and community stakeholders on the rate study.

Selected Attachment to DDS Vendor Rate Study

Note: Only Attachment 5 is included after this page for the reader's convenience. The remaining attachments can be found on the USB flash drives distributed with the printed reports.