Project Narrative

During 2020-2021, the ADDPC created the Disability Data Hub (version 1.0) to provide Arizonians with a free community resource for detailed disability statistics through interactive data dashboards. A total of 12 dashboards are currently available grouped thematically around six areas: (a) demographics, (b) education, (c) housing, (d) transportation, (e) employment, and (f) income. Community members can interact with statewide and county-specific disability statistics collected by the U.S. Census Bureau's American Community Survey between 2015 and 2019. The Disability Data Hub (version 1.0) is designed to provide community members with an accessible way to gather current information about Arizonians with disabilities, review state- and county-level differences, and examine trends over time. Moreover, these readily available data can inform journalists, grant writers, and other community organizations by directly referencing and addressing the individuals with disabilities in their ongoing work. The launch of the Disability Data Hub (version 1.0) requires the ADDPC to address three ongoing needs: (a) maintenance, (b) annual updates, and (c) refinements based on community feedback and newly released data by the U.S. Census Bureau.

1. *Describe how the Applicant will achieve the desired outcomes of the project. Include by what methods feedback from users will be obtained to inform types of changes to make to the Disability Data Hub.*
   Dr. Alexander Kurz will be the lead consultant for this project given his experience building the current version of the Disability Data Hub (version 1.0). Dr. Kurz will employ a management-by-milestones approach segmented into quarters to ensure timely completion of desired project outcomes.
   - **Quarter 1** (January-March) is focused on (a) extracting and merging newly released census data with existing datasets; (b) updating all six dashboards and ensuring functionality; and (c) releasing version update (1.0+) with all necessary documentation updates
   - **Quarter 2** (April-June) and **Quarter 3** (July-September) are focused on (a) scoping and implementing a major version update (2.0+) based on story-point assignments (1 hour/point with a maximum of 30 story points); and (b) releasing version update (2.0+) with all necessary documentation updates
   - **Quarter 4** (October-December) is focused on (a) presenting a webinar for the new version update; and (b) preparing the database for the next release.

   Ongoing activities across all quarters include (a) fielding and responding to community inquires; (b) providing basic interpretative and data-analytic support for stakeholders; (c) collecting and presenting feature requests/errors at the end of each quarter; (d) implementing minor updates and releasing version update (1.0+) with all necessary documentation. Timely feedback to the community is assured through the in-kind support of a graduate student intern, which Dr. Kurz supervises as part of his internship program for Applied Data Analysis and Visualization (ADAV) housed in the Mary Lou Fulton Teachers College (MLFTC) at Arizona State University (ASU). All deliverables describe as part of this narrative are part of Dr. Kurz's permissible consulting of up to 312 hours per academic year (ACD 510–01).

2. *Describe the capacity for the Applicant to successfully complete the activities of this project as stated on page 2. Provide any previous experience with this type of work and/or similar work.*

Impact Analytica (IA) is an educational consulting firm specializing in research, program evaluation, data visualization, and cost reporting. Dr. Alexander Kurz is the founder of IA, which operated independently and as a subsidiary for over 10 years. IA is also registered as a Limited Liability Company (LLC) in the state of Arizona. IA staff includes Dr. Kurz as the senior lead consultant along with other two other senior consultants and one research assistant. IA has worked have worked successfully with a diverse set of clients including Valley of the Sun United Way, Vello, Emergenetics International, Pearson, StriveTogether, Smarter Balanced Assessment Consortium, Tonto Creek Camp, Digital Promise, Maricopa County Community Colleges District, Thriving Together, Spartanburg Academic Movement, Arizona Developmental Disabilities Planning Council, and the Office of Catholic Schools in the Archdiocese of Denver and Detroit. Dr. Kurz will be the lead consultant for this project due to his depth of experience as a disability researcher and specialized expertise in data analytics, statistics, and data visualization.

3. **Provide the name(s) of the key staff who would be assigned to this project, and summarize their educational background, length of time with organization, current title at firm, and previous experience with data analysis and graphics.**

For IA, Dr. Kurz developed the existing version of Disability Data Hub including all related databases, visualization, and Web Content Accessibility (WCAG 2.0 AA) conformity. He earned his doctorate in Special Education from Vanderbilt University and currently is Associate Research Professor in ASU's MFLTC. He has spent over two decades serving students with disabilities including as a special education teacher, behavior analyst, and researcher. Dr. Kurz has led federal research grants on students with disabilities for the U.S. Department of Education (DOE) including the Institute of Education Sciences (IES) and the Office of Special Education Programs (OSEP) with combined awards totaling over 53 million dollars. He has published over 40 peer-reviewed journal articles and book chapters on students with disabilities including two edited volumes on accessibility. At Vanderbilt, Dr. Kurz served as the Dunn Family Scholar in Educational and Psychological Assessment. More recently, Dr. Kurz was named a Tableau Fellow by the Tableau Foundation, which provided him with intensive data visualization training. Over the past few years, he has developed numerous data dashboards in Tableau for several organizations including Thriving Together, Vello, Phoenix Union High School District (PUX), Spartanburg Academic Movement (SAM), and the Arizona Developmental Disabilities Planning Council (ADDPC). In addition, Dr. Kurz has prepared Impact Reports that summarize the results of smaller research projects and/or program evaluations for practitioners. Lastly, Dr. Kurz serves as the Director for the Arizona Practitioner-Researcher Educational Partnership (AzPREP) Office and the Internship for Applied Data Analysis and Visualization (ADAV) both housed at Arizona State University. As such, Dr. Kurz has the psychometric expertise and content knowledge to develop appropriate data sets and indicators, as well as the relevant technical expertise to develop accessible data visualizations.

4. Provide a timeline with key tasks and what is needed from ADDPC to complete the project with the project year.

	Jan '22	Feb '22	Mar '22	Apr '22	May '22	Jun '22	Jul '22	Aug '22	Sept '22	Oct '22	Nov '22	Dec '22
Collect community inquiries	■	■	■	■	■	■	■	■	■	■	■	■
Review of inquiries with ADDPC			X			X			X			X
Minor version updates			■			■			■			■
Major version update					■	■	■	■				
Review of update with ADDPC				X					X			
Major update webinar										X		
Census data update	■	■										
Census update webinar			X									
Database preparation												■

Note: Meetings with ADDPC leadership are noted in italics.

5. Provide a budget that shows a total all-inclusive cost. Include the number of hours at the hourly rate for each key staff working on this project. Budget must show 25% match that is cash or in-kind of the total program costs of the project.

The senior lead consultant and intern rates are charged separately with the senior consultant rate being $156.25/hour and the graduate student rate being approximately $50/hour (which includes hourly rate plus tuition remission). The grand total are 16 workdays for the senior lead consultant and approximately 16 workdays for the graduate intern. The entirety of the intern cost will be provided as an in-kind contribution. As such, the budget total is **$20,000** with a 25% match for the graduate intern (i.e., $6,700).

	Lead	Intern	Total By Activity
Collect community inquiries	8	58	66
Review of inquiries with ADDPC	4	4	8
Minor version updates	8	20	28
Major version update	18	30	48
Review of update with ADDPC	2	2	4
Major update webinar	4	4	8
Census data update	70	4	74
Census update webinar	2	2	4
Database preparation	12	10	22
GRAND TOTAL	**128**	**134***	

Note: All intern hours are in-kind.