The table below includes the project activities and accomplishments, problems, significant findings and events, dissemination activities, other activities, and planned activities for the next quarter.

Activity 6: Monitoring, Evaluation, and Data	Synopsis of Work
1. Major activities and accomplishments during this period	The project team, consisting of Third Sector Intelligence (3Si) and Foresight Law + Policy, has started or completed several foundational components of this project in Q4 2021: • 3Si and Foresight met regularly with the project management committee, consisting of staff from Align, Wyoming Kids First, and members of the Governor's cabinet, to coordinate on the initial phase of ECIDS development and plan for subsequent development phases. • 3Si identified and acquired needed data sources to support initial implementation of the ECIDS Network data model, including residential address data and publicly-available child care licensing data. • 3Si completed an inventory and assessment of WY Department of Family Services (DFS) administrative data needed to support ECIDS development and worked with DFS, ETS, and external vendors to refine available extracts of these data. • 3Si consolidated program eligibility requirements for key WY programs that will be relevant to the primary use case and synthesized corresponding requirements for the ECIDS model. • 3Si installed ECIDS Network code within WY's cloud development environment and configured and implemented the initial set of code to produce a population base for all children under 12 in WY. • 3Si and Foresight worked with Align and the project management committee to define a scope of work for 2022.
2. Problems	3Si experienced difficulty acquiring a full export of data from WY's child care licensing system, maintained externally by a third-party vendor. 3Si, Align, and DFS met with ChildCare Education Institute (CCEI) to discuss the needed data but was unable to secure a comprehensive extract from the child care licensing system. As an interim solution, 3Si worked with Align and CCEI to receive access to the existing front-end interface and was able to pull limited data on licensed child care providers. As of the beginning of 2022 3Si and CCEI are coordinating on an extract of needed child care licensing data.
3. Significant findings and events	**3Si identified and acquired needed data sources to support initial implementation of the ECIDS Network data model, including residential address data and publicly-available child care licensing data.** For initial implementation of this model, 3Si specifically needed population-level data in order to define the overall distribution of children statewide. These data included population counts from the American Community Survey (ACS) as well as a comprehensive statewide list of residential addresses in order to model the spatial distribution of population density. 3Si loaded 2019 ACS 5-year population estimates and Public Use Microdata

Sample (PUMS) data via the US Census' API. (api.census.gov) and manually via US Census' website. Residential address data was not publicly available, so 3Si compiled as comprehensive a set of addresses as possible for Wyoming households by aggregating multiple data sources, including parcel Data from WY's Department of Revenue, the National Address Database (NAD) for WY counties participating in the USDOT NAD Project (only a subset of counties statewide currently participate), and OpenAddresses.io, which is a global and open-source repository of addresses. 3Si deduplicated addresses across data sources and geocoded these addresses to determine point location. The resulting data are a set of child records containing the child's family employment status, household income represented as a percentage of FPL, and their likely location.

3Si completed an inventory and assessment of WY Department of Family Services (DFS) administrative data needed to support ECIDS development and worked with DFS, ETS, and external vendors to refine available extracts of these data. 3Si worked with DFS, ETS, and third-party WY vendors to identify the systems that house the DFS data needed to support the initial ECIDS Network data model (namely, data on children receiving subsidy child care and on licensed child care providers). 3Si reviewed available documentation (e.g., data dictionaries and data schemas) for these systems in order to confirm which systems and tables will be needed to support preliminary ECIDS development. 3Si assessed what data it has been able to access and identified opportunities to increase the scope of collected data in the future. 3Si concluded that most of the DFS data needed for ECIDS development is present and of apparently high-enough quality to support initial implementation of the ECIDS Network code. This finding is based on a limited assessment of a subset of needed data and could change as new information is available. For instance, inclusion of new data sources (e.g., WDE and DOH) could reveal inconsistencies across these data sources that reveals underlying issues with DFS data. Similarly, 3Si was also not able to meaningfully assess all of the DFS data needed for ECIDS development, and could uncover other issues as the DFS data sources are expanded to include new data elements.

3Si consolidated program eligibility requirements for key WY programs that will be relevant to the primary use case and synthesized corresponding requirements for the ECIDS model. These eligibility requirements included Child Care Subsidy Program (CCSP), TANF PreK program, and Head Start. 3Si engaged Align and the project management committee to confirm these requirements, ultimately resulting in concrete definitions of child age, household income, and parent work status that align with eligibility for specific programs. 3Si used these definitions to configure the ECIDS Network model to segment the entire child population for further analysis (as described further below). 3Si has also prepared documentation of its methodology implementing the ECIDS Network model in WY as on online resource to WY.

3Si installed ECIDS Network code within WY's cloud development environment and configured and implemented the initial set of code to produce a population base for all children under 12 in WY. This process leveraged the resource group managed by WY Enterprise Technology Services (ETS) in order to deploy the ECIDS Network model. Having installed the ECIDS Network code to generate the WY population base, 3Si

		was able to configure the ECIDS Network code based on WY's specific requirements (in this case, eligibility requirements for key early childhood programs as noted above). The resulting data is a child-level representation of the population of children 12 and under for the state of Wyoming. This includes demographic descriptors for children such as income, family employment status, age, and their expected geographic location. Having installed the ECIDS Network code with version control, 3Si will readily be able to push updates in the Network code to WY's implementation. WY will therefore benefit from continued enhancements made to the code through the course of Network innovations. **3Si and Foresight worked with Align and the project management committee to define a scope of work for 2022.** 3Si developed a scope of work for 2022 factoring in project progress to date and agency priorities. The 2022 scope of work outlines the near-term development priorities for the ECIDS Network data model as well as establishing an interagency data governance framework, assessment of data literacy among intended users of the ECIDS, and development of a front-end tool to facilitate WY access to outputs from the ECIDS Network model.
4.	Dissemination activities	None
5.	Other activities	3Si is engaged with CCEI and Align to create a data extract from WY's child care licensing system with all of the needed data elements to support the ECIDS data model. 3Si has provided a detailed list of fields to CCEI, which is actively building out and testing this extract. The team expects to receive these data in early Q1 2022.
6.	Activities planned for next reporting period (January – March)	The project team will complete the following activities in the next reporting period: • *Targeted use cases for WDE and DOH.* 3Si will engage with representatives from the Wyoming Department of Education (WDE) and Department of Health (DOH) to refine the ECIDS use cases that will leverage data from these agencies. This process will also result in defined data requirements needed to fulfill these use cases. • *High level data inventory of WDE and DOH datasets.* 3Si will assess the ability for existing WDE and DOH datasets to support ECIDS use cases. In the event that 3Si uncovers significant issues with these datasets, it will outline options to mitigate these limitations. If need be, 3Si will accomplish this task without access to sensitive agency data, through review of data dictionaries and schemas, masked data, etc. • *Install 3Si ECIDS Network existing code with DFS data.* 3Si will install code from the ECIDS network that incorporates DFS subsidy and child care licensing data. • *DFS Wireframes (e.g., dashboard mockups of ECIDS Network "Research Starter Kit").* 3Si will present sample wireframes of a front-end tool to access data from the ECIDS (i.e., the Research Starter Kit), then explore WY's specific context and needs for outputs and visualizations. 3Si will initially focus this effort on data available from DFS.

	• *Preliminary ECIDS governance framework and draft legal agreements.* 3Si will assist in the development of draft legal agreements to permit interagency data sharing, which will be necessary to enable ECIDS integration of data from agencies other than DFS. • *Perform ongoing assessment and integration of DFS data.* 3Si has already identified missing components of needed DFS data and will continue to work with DFS to gather and assess additional data as needed. 3Si will also start but not complete additional activities in this period, including: • *Produce preliminary DFS data output tables.* The ECIDS network code implementation will result in output tables, including definition of the entire child population in WY and connecting subsidy data to data on licensed child care providers. These preliminary tables will provide baseline outputs for comparison with external data sources and future iterations. • *DFS outputs and visualizations: progress report.* 3Si will report on its progress in implementing an initial set of dashboards, outputs, and/or visualizations that leverage available DFS data. • *ECIDS Design Phase #1: High level ideas to expand and customize outputs and visualizations beyond DFS.* 3Si will initiate a design process to adapt the ECIDS Network front-end tool to align with WY's specific needs. This activity will result in a list of adjustments and/or enhancements to the front-end tool that will address WY's use cases (with particular attention to WDE and DOH). • *Final governance framework and legal agreements signed for WDE and DOH.* 3Si will support the finalization of legal agreements to support interagency sharing of data in the ECIDS cloud environment. This deliverable will result either in legal agreements signed by both WDE and DOH or in a 2-3 page memo summarizing challenges to finalizing these agreements and possible mitigations.