INDUSTRY LABS
at Notre Dame

TRACK:

DIGITALIZATION
(Data Analytics & IT Infrastructure)

SERVICE:

DATA VISUALIZATION & OPTIMIZATION

OPPORTUNITY

Technical resources for systems integration and performance visualization

KEY PROJECT ACTIVITIES

- **KPI (Key Performance Indicators):** Conduct a workshop with key stakeholders to align the business outcomes to be tracked and visualized

- **Data Structures Analysis:** Analyze the types of data available and any potential constraints for optimization (e.g. data quality, quantity, format variety)

- **Definition of Data Inputs and Outputs:** (Integration Specs) Develop a future state model of data flow to ensure IT and business alignment

- **Data Pipeline Development (extraction, preparation, aggregation):** Execute technical integration of data sources, necessary data point conversions, and appropriate data storage in an agile manner. This will enable easier data visualization overall, but especially for non-IT users.

- **Data Visualization:** Implement scoped dashboards and provide a playbook for further usage of the visualization solution (e.g. PowerBI)

KEY DELIVERABLES

- ✓ Dynamic KPI dashboards
- ✓ Operational reports
- ✓ Data warehouse
- ✓ Data lake

TIMELINE:

6–16
Weeks

KEY PARTNERS:

enfocus

Lucy Family Institute for Data & Society

SUCCESS STORIES:

Product Performance Dashboards

Customer Service Dashboard