Asset Modernization

Most utilities are making moderate to large investments in mobile and cloud, followed by IoT, RPA and AI. However, their investments in data management systems (what we call the Location of Things -LoT) are considerably behind other industries.
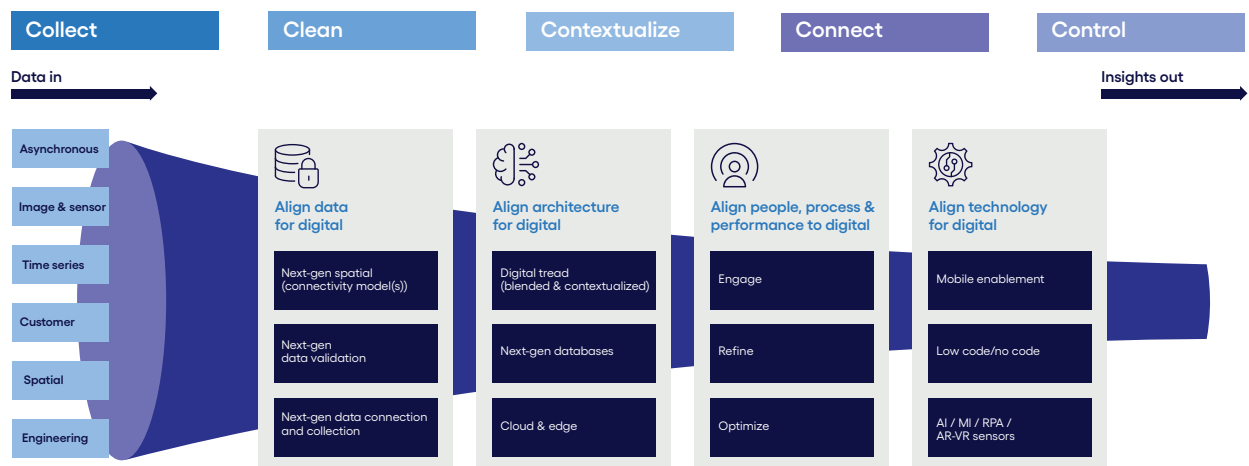
We drive value

Grid modernization is a popular term today. However, we choose to call it asset modernization because it is much more than just upgrading your grid with sensors. It is how your asset data is collected, cleaned, contextualized, connected, and controlled.

Cognizant's asset modernization team enables:

- **Visualization and alerts:** View performance from the C-Suite to field supervisors across all areas and enable integrated alerting to right people at the right time

- **Advanced analytics:** Leverage predictive insights using advanced analytics, moving from reactive to proactive decision making. Link analytics to equipment monitoring to enable agile operations

- **Digital work:** Utilize automated-workflow-driven mobile solutions such as mobile dispatch tablets, smart phones, and industrial glasses with digital assistance for operations and maintenance workers. This includes "how to" instructions, inventory levels, equipment nameplate, and more. Reduce risk, improve safety, and optimize cost through a self-directed workforce

Our approach to aligning your organizaton for asset modernization

Collect	Clean	Contextualize	Connect	Control

Data in →   **Insights out** →

Asynchronous				
Image & sensor	**Align data for digital**	**Align architecture for digital**	**Align people, process & performance to digital**	**Align technology for digital**
Time series	Next-gen spatial (connectivity model(s))	Digital tread (blended & contextualized)	Engage	Mobile enablement
Customer	Next-gen data validation	Next-gen databases	Refine	Low code/no code
Spatial	Next-gen data connection and collection	Cloud & edge	Optimize	AI / MI / RPA / AR-VR sensors
Engineering				

Your assets are much more than your equipment or technology. They are the **people** you employ, the **processes** you follow, the **data** flowing (or not flowing) through your enterprise, your **quality** measures, and **performance** expectations

How we do it

Our unique methodology accounts for capital assets as well as other neglected assets such as people, processes, data, quality practices and system performance at the point of use. **We assess, analyze, create/refine your vision, and provide an actionable plan.** Our experience in the Utility Industry has taught us that a simple to understand – easy to communicate –comprehensive plan works.

Our capabilities

Location of Things (LoT)
- Connectivity models
- Modern GIS vision & strategy
- Mobile enablement
- Asset modernization cloud
- Strategies and integrations

Enterprise transformation
- Business transformation
- Process re-engineering
- Strategic road-mapping
- Enterprise maturity analysis
- System, solution & enterprise architecture
- Cloud implementation
- EAM/APM/CMMS
- SOA and data Interoperability

Engineering technology
- Engineering design consulting
- SBS Automated Utility Design, configuration, integration and implementation

Program modernization
- Program leadership and industry best practices
- Project/Program Management, disciplined agile, DevOps, PMO Consulting, change & process consulting
- Utility focused professionals

Operations technology
- OT Alignment data vendors, roadmaps and vision consulting
- OT program leadership, implementation and customer advocate

Our team is focused in the following areas:

The Cognizant asset modernization team

The Cognizant asset modernization consulting team is comprised of senior leaders focused on driving meaningful industry change. Our goal is to be your trusted partner and advocate as you transform your enterprise. It is our experience that building a trusting relationship requires time and effort. Together we will identify the highest impact strategies, to make your transformation vision a reality.

How does the efficacy and quality of your assets measure up?

GIS

	Yes	No
Are you capturing correct phasing data in your GIS?	☐	☐
Is your GIS modeling everything required to support Engineering and Operations?	☐	☐
Do your field teams have easy access to asset information and history?	☐	☐
Is your data a trusted source for engineering and operations	☐	☐
Is there a discrepancy between what is installed in the field and what is recorded in GIS	☐	☐

DERMS

	Yes	No
Do you have more than 1% of your customers have installed solar panels?	☐	☐
Throughout your territory, do you have Micro Grids as part of your energy ecosystem?	☐	☐
Have you considered how to migrate your Demand Management use cases to DERMS?	☐	☐
Have you considered the effects of Swarm Theory as related to EV charging?	☐	☐

Enterprise Transformation

	Yes	No
Does your enterprise align with your business strategies?	☐	☐
Do you want to reduce the cost of your infrastructure while increasing performance, security and durability?	☐	☐
Do you want to move to the cloud but need help getting there?	☐	☐
Is your data uniform, accurate, and consistent across the entire enterprise?	☐	☐
Do you have clearly defined architectural principals to ensure a consistent future state?	☐	☐

AMI

	Yes	No
Is your AMI solution optimized to drive grid operations benefits such as CVR, VVO and outage restoration	☐	☐
Are you leveraging the ecosystem of AMI sensors, DA, streetlight and others alike to drive a high degree of predictive maintenance and event management	☐	☐
Can you identify the small nest outages as easily as the large system outages? Is your organization prepared for the next generation of AMI?	☐	☐
Do you have security practices to add new devices to the network?	☐	☐

ADMS

	Yes	No
Has your integration scheme allowed for increased accuracy and reduced cycle time for decision making	☐	☐
Are your system and processes ready for the additional new types of interconnected assets into distribution network?	☐	☐

Program modernization

	Yes	No
Do you want to drive innovation and collaboration within your project teams and functional departments and create champions of user adoption?	☐	☐
Do your projects complete on time, budget, and meet the requirements of stakeholders and end users?	☐	☐

cognizant®

Cognizant (Nasdaq-100: CTSH) engineers modern businesses. We help our clients modernize technology, reimagine processes and transform experiences so they can stay ahead in our fast-changing world. Together, we're improving everyday life. See how at **www.cognizant.com** or @cognizant.

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