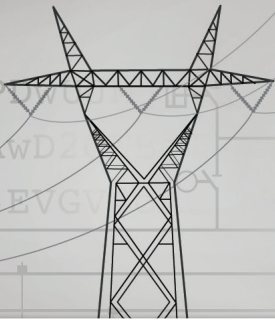




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Architecture

The challenges of Grid Modernization are similar to a city growing exponentially. An existing infrastructure must transform to accommodate many new goals and requirements, along with a vastly increased number of connections.

Just like a city's urban planning issues, the Smart Grid requires an overarching architecture to understand how to accommodate regulatory, societal, and technological changes. Despite recent industry efforts to provide a foundation that details how a Smart Grid should function, each organization has to figure out its own priorities and order of needs to be addressed.

EnerNex provides this missing guidance by:

- Identifying the necessary activities, priorities and resources;
- Detailing interactions between a business unit's procedures and the underlying automation assets;
- Providing a clear migration path forward;
- Reducing risk;
- Creating a living roadmap to incorporate future requirements; and
- Following a governance model to successfully manage and improve.

EnerNex's Enterprise Architecture (EA) practice provides:

- An extensive Smart Grid roadmap, plus the use cases and standards development essential for a practical EA;
- Proven methods by combining TOGAF, EPRI Intelligrid methodologies, and a deep understanding of emerging technologies and regulatory changes;
- Experience in similar industries (e.g., Finance, Telecomm and Defense);
- In-depth understanding of the electricity industry's work done-to-date; and
- TOGAF-certified architects with decades of experience.

EA identifies and translates your organization's business goals into the requisite business procedures and underlying automation services, security, and governance. The multitude of systems, IT and otherwise, associated with Smart Grid applications in this critical infrastructure environment calls for the most disciplined implementation of EA.

EnerNex



Architecture

The Smart Grid Architecture Model Framework

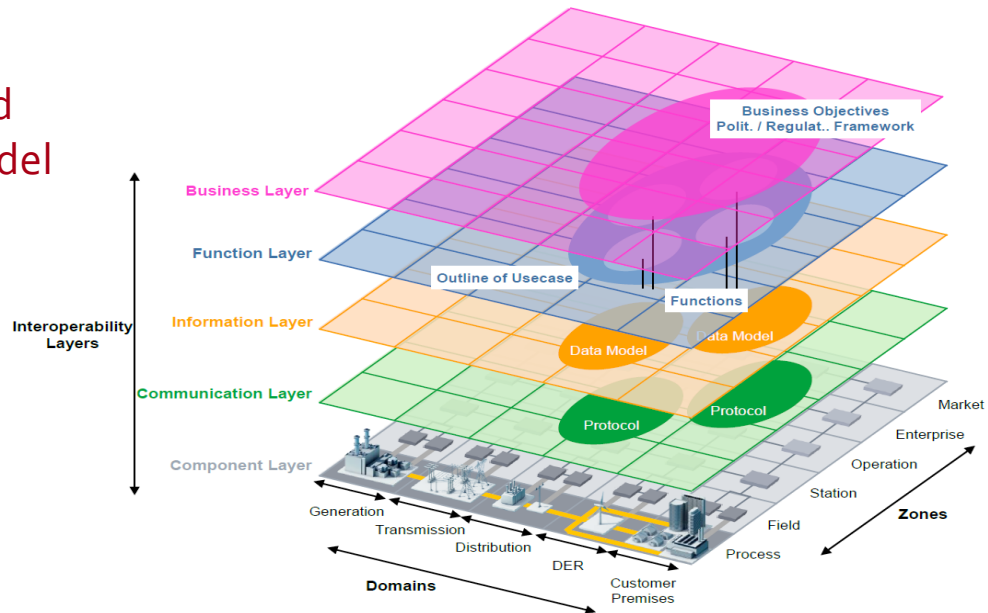


Figure 8: SGAM framework

The Information Technology (IT) world is full of examples of unfulfilled expectations due to the mismatch between business drivers and implemented IT systems. For this reason, systematic Enterprise Architecture (EA) methodologies were developed to provide clarity and risk mitigation across organizations.

To minimize risk EnerNex provides:

- Up-to-date and in-depth knowledge of evolving international standards, architecture and requirements through our leadership roles in their development in organizations such as: EPRI IntelliGrid, EPRI Integrated Grid, SGAM, UCAIug, OpenSG, DOE GWAC, NIST SGIP and SGAC, IEC CIM, TOGAF, IEEE PES, IEC 61850, and through White Papers, e.g., Distribution Utility Technology Roadmap;
- A tailored implementation of TOGAF. TOGAF is used by hundreds of organizations, numerous utilities, NIST's SGIP, and referenced by DOE's GWAC activities;
- A proven suite of architecture offerings tiered to support a client's level of depth, budget and timeframes;
- Advice based on a strong, practical business and power systems engineering based foundation; and
- Real Experience – Real Knowledge

