

A large, bold, red letter 'A' logo. The letter is stylized with a thick stroke and a slight shadow effect, giving it a three-dimensional appearance. It is positioned centrally at the top of the page.

AREVA

Update on Smart Grid Interoperability Panel (SGIP)

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▶ SGIP Governing Board

- ◆ Elected one member per stakeholder group.

▶ SGIP Plenary

- Chair: Steve Widergren
- Technical work happens here.

◆ Standing Committees

• SGAC – Architecture Committee

- Chair: Ron Ambrosio
- Semantic Model Subcommittee

- Chair: Jay Britton

• SRTCC – Testing & Compliance Committee

- Chair: Rick Drummond

◆ DEWGs – Domain Expert Working Groups

- Transmission and distribution
- Home-to-grid, Building-to-grid, etc.

◆ PAPs – Priority Action Plans

- These are projects with deliverables and end dates.
- Urgent needs are addressed through PAPs.
- There is a process for proposing new PAPs.

▶ TC57 PAPs

- ◆ 7 Electric Storage Interconnection Guidelines
- ◆ 8 CIM for Distribution Grid Management
- ◆ 11 Common Object Models for Electric Transportation
- ◆ 12 IEC 61850 Objects / DNP3 Mapping
- ◆ 13 Time Synchronization, IEC 61850 Objects / IEEE C37.118 Harmonization
- ◆ 14 Transmission and Distribution Power Systems Model Mapping
- ◆ 16 Wind Plant Communications

▶ Other PAPs

- ◆ 0 Meter Upgradeability Standard
- ◆ 1 Role of IP in the Smart Grid
- ◆ 2 Wireless Communications for the Smart Grid
- ◆ 3 Common Price Communication Model
- ◆ 4 Common Scheduling Mechanism
- ◆ 5 Standard Meter Data Profiles
- ◆ 6 Common Semantic Model for Meter Data Tables
- ◆ 9 Standard DR and DER Signals
- ◆ 10 Standard Energy Usage Information
- ◆ 15 Harmonize Power Line Carrier Standards for Appliance Communications in the Home

Semantic Model Subgroup Roadmap from Statement of Purpose

▶ Short-Term

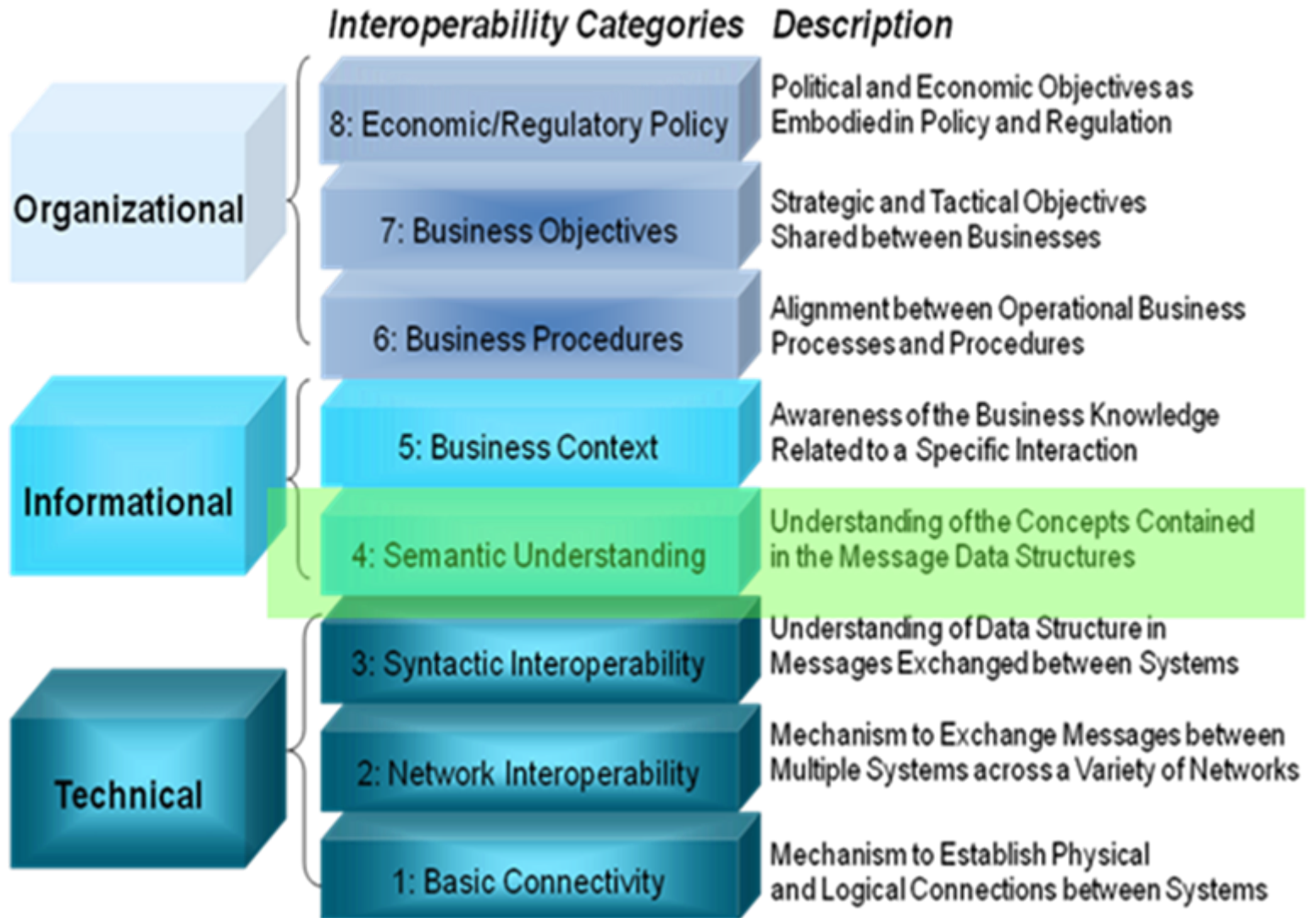
- ◆ Identify existing cdms and their SDOs.
- ◆ Establish a working relationship between the SGAC and each SDO owner of a Smart Grid cdm to assure that standards produced by SDOs collectively are going to achieve the semantic vision.
- ◆ Create a concept paper explaining the benefit *canonical data models* to Smart Grid.

▶ Mid-Term

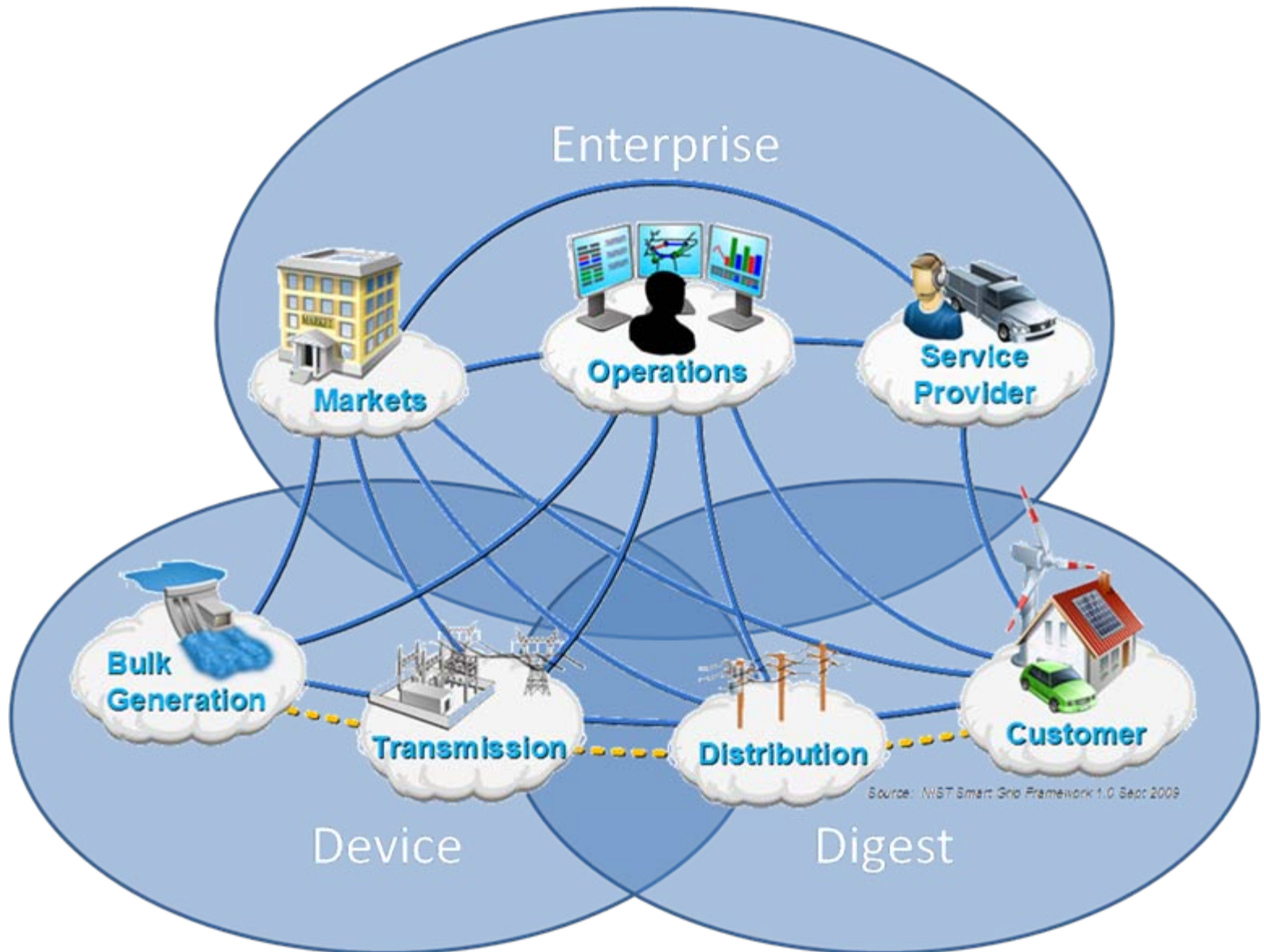
- ◆ Produce a map that defines the Smart Grid cdms that should govern each interface identified in the conceptual model.
 - One cdm and one SDO should govern a given interface.
 - This should add to the overall SGAC effort to identify, characterize, verify and validate the interfaces broadly described in the conceptual model.
- ◆ Produce an overview of GWAC level 4 and cross-cutting issue “Shared Meaning of Content” that defines how different cdms relate to one another, and how the interfaces between them are managed.
- ◆ Identify and prioritize key data sets.
- ◆ Where appropriate, create PAPs to push Smart Grid objectives.

▶ Long-Term

- ◆ Work with SDOs to create and maintain a consolidated plan and assess progress.
- ◆ Work with the SDOs to evolve versions of the conceptual model that identify data mastership and data flow for key sets of business data.



Smart Grid Top Level Conceptual Model



▶ **In the works...**

- ◆ **Meeting between PAPs and TC57 WGs.**
- ◆ **Focus on semantic standards.**