

# GLOBAL COLLABORATION ON SMART GRID INTEROPERABILITY AND CYBER-SECURITY

Steve Widergren, Moderator  
Smart Grid Interoperability Panel Plenary Chair



**Pacific Northwest**  
NATIONAL LABORATORY

# PANEL FORMAT

- **Objective:**

- Explore the importance of collaboration on interoperability and cybersecurity issues, including the benefits, challenges, and progress to address these issues internationally

- **Panelists**

- **Dean Prochaska**
  - National Coordinator for SG Conformance, NIST
- **Benjamin Sierra**
  - Standards Manager, CFE
- **Gene Eckhart**
  - Senior Director for International Trade, NEMA
- **Ryan Maley**
  - Director for Zigbee Smart Energy
- **Guido Bartels**
  - Chairman, Global Smart Grid Federation
  - GM Global Energy & Utilities Industry, IBM

# SMART COMMUNITIES & ECOSYSTEMS

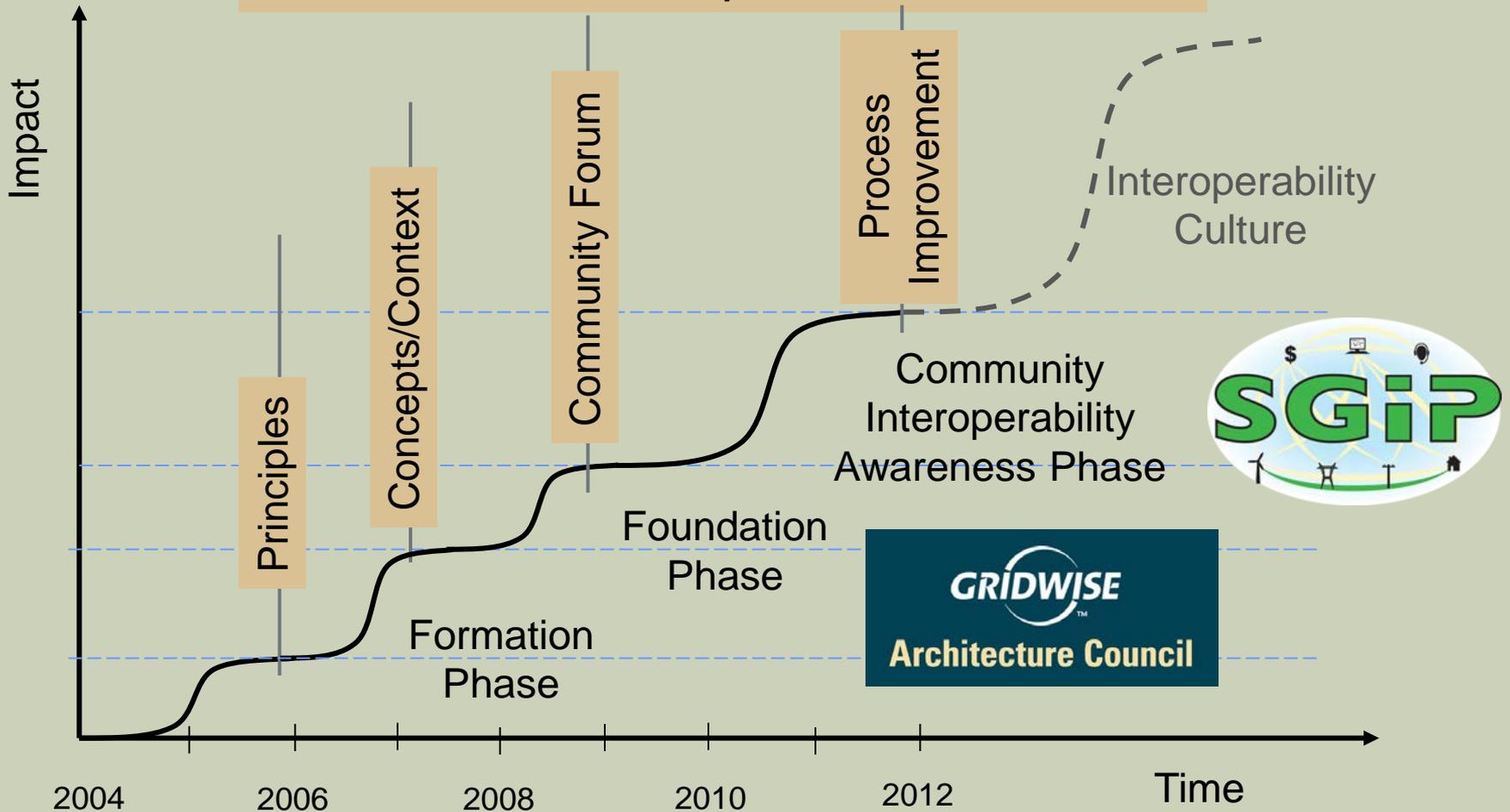
The application of information & communications technology (ICT) continues to transform our lives

- Major industrial supply chains
  - Construction, automotive, aerospace
- Service industries permeate our economy
  - Finance, emergency services, health care, energy
- ICT connects and automates more of our world
  - Organizations/components become part of bigger ecosystems
  - Communities form to streamline business processes
  - Interoperability improvement advances community goals

**Integration** becomes the bottleneck  
**Interoperability & Cyber-Security** becomes the mission

# PROGRESS MOVES IN PHASES

*Goal: Develop a culture for implementation-ready electric automation products & services*



# THE PATH IS A SPIRAL

Advancing interoperability & cyber-security is a process improvement problem

**Act**

**Plan**



**Check**

**Do**

As our electric world evolves, sustaining progress requires a culture change



# A COMMUNITY FOR SG INTEROPERABILITY AND CYBER-SECURITY

## Offer a big tent with

- Openness
  - All activities open to public
- Balance
  - Representation across all stakeholder segments
  - Challenge the silos of excellence
- Consensus
  - Strive for general agreement of the members
- Harmonization
  - Work with all standards-setting organizations



# INTEROPERABILITY W/O BORDERS



***Interoperability & cyber-security  
challenges are global***