Development of standards and stakeholders involvement– Case USA

Africa Regional Standards Organization

General Assembly

Durban, South Africa

June 20, 2018

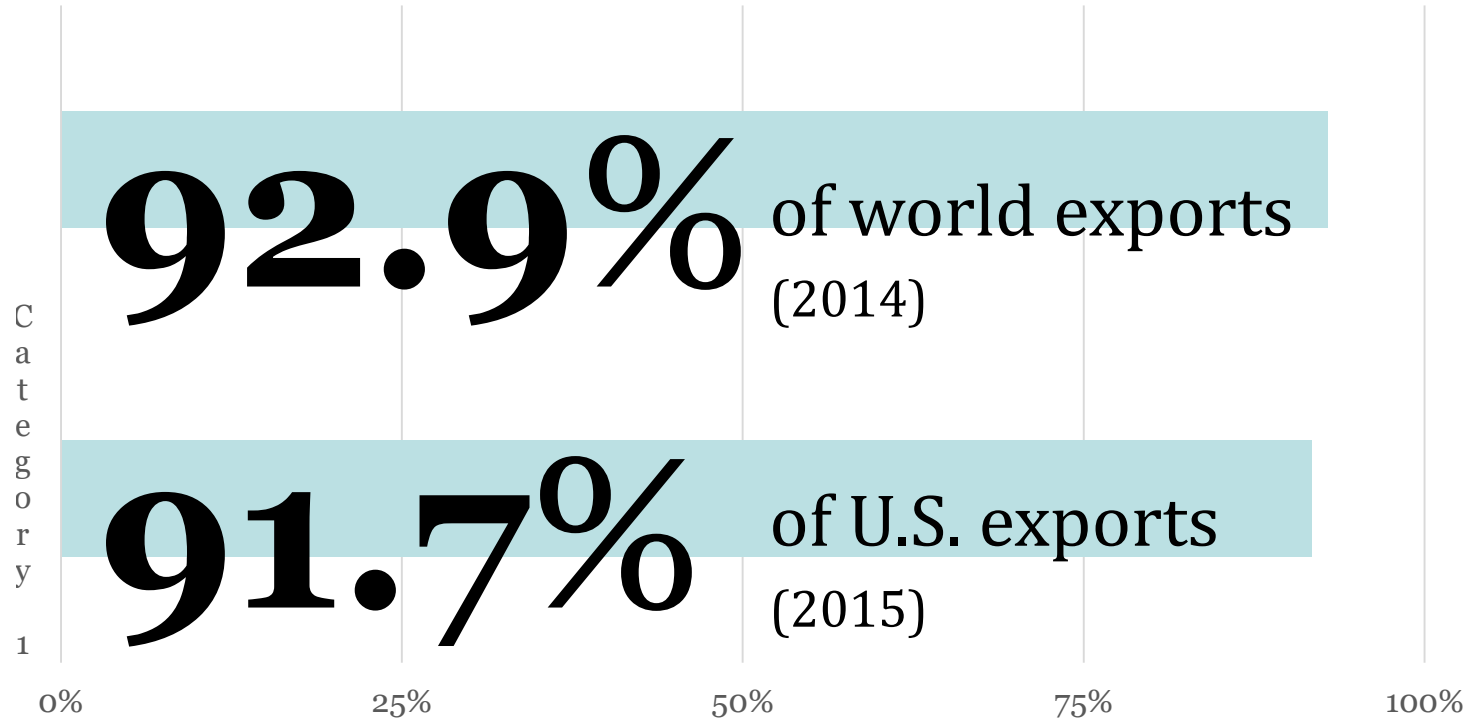# International Trade Administration (ITA) Mission

- strengthens the competitiveness of U.S. industry

- promotes trade and investment

- ensures fair trade through the rigorous enforcement of our trade laws and agreements

- works to improve the global business environment

- helps U.S. organizations compete at home and abroad

Why Standards Matter

Standards related trade issues are increasing due to decline in tariffs

Standards are fundamental for trade!

Standards are the most common non-tariff barrier that U.S. exporters face

If used correctly they make trade work!

STANDARDS

Findings: Goods Exports Covered by WTO Notifications

92.9% of world exports (2014)

91.7% of U.S. exports (2015)

0%   25%   50%   75%   100%

Category 1

Calculations based on WTO notifications from January 1, 2006 to August 18, 2015 by all WTO members

(Source: Okun-Kozlowicki, "Standards and Regulations: Measuring the Link to Goods Trade," June 2016)

U.S. Standards Approach

- Private sector-led, market driven and multi-path

- Often sector specific

- ANSI coordinates U.S. system

- Decentralized -250 standards development organizations (SDOs)

- Open participation, including non-U.S.

- Most other countries have a "top down" approach

U.S. Standards Approach

- National Technology Transfer and Advancement Act (NTTAA)

- OMB Circular A-119

- EOP Memo M-12-08 *Policy Principles for Federal Engagement in Standards Activities to Address National Priorities, White House Memo 2012*

- National Institute of Standards and Technology (NIST)

Standards Development and Stakeholders Involvement

- Escape Rescue Systems

- U.S. Government Approach to Building a 21st Century Grid

- Regional Cooperation – APEC

Standards Development and Stakeholders Involvement
Escape Rescue Systems

- External elevator for emergency evacuation in high rise building

- Clients and regulators said - need a recognized standard

- Identified National Fire Protection Association and ASTM

- Formed ASTM technical subcommittee

- Standards Institution of Israel.

- CEO became chairman of the technical subcommittee

- The Subcommittee approved the standards; NFPA incorporated into its codes

Source: ASTM International

Benefits:

- Market acceptance - Clients, regulators and labs accepted the innovative technology

- Standards serve to develop improvements and next generation

- Enables subcontracting manufacturing

- Doing business in Israel, India and South Korea

Source: ASTM International

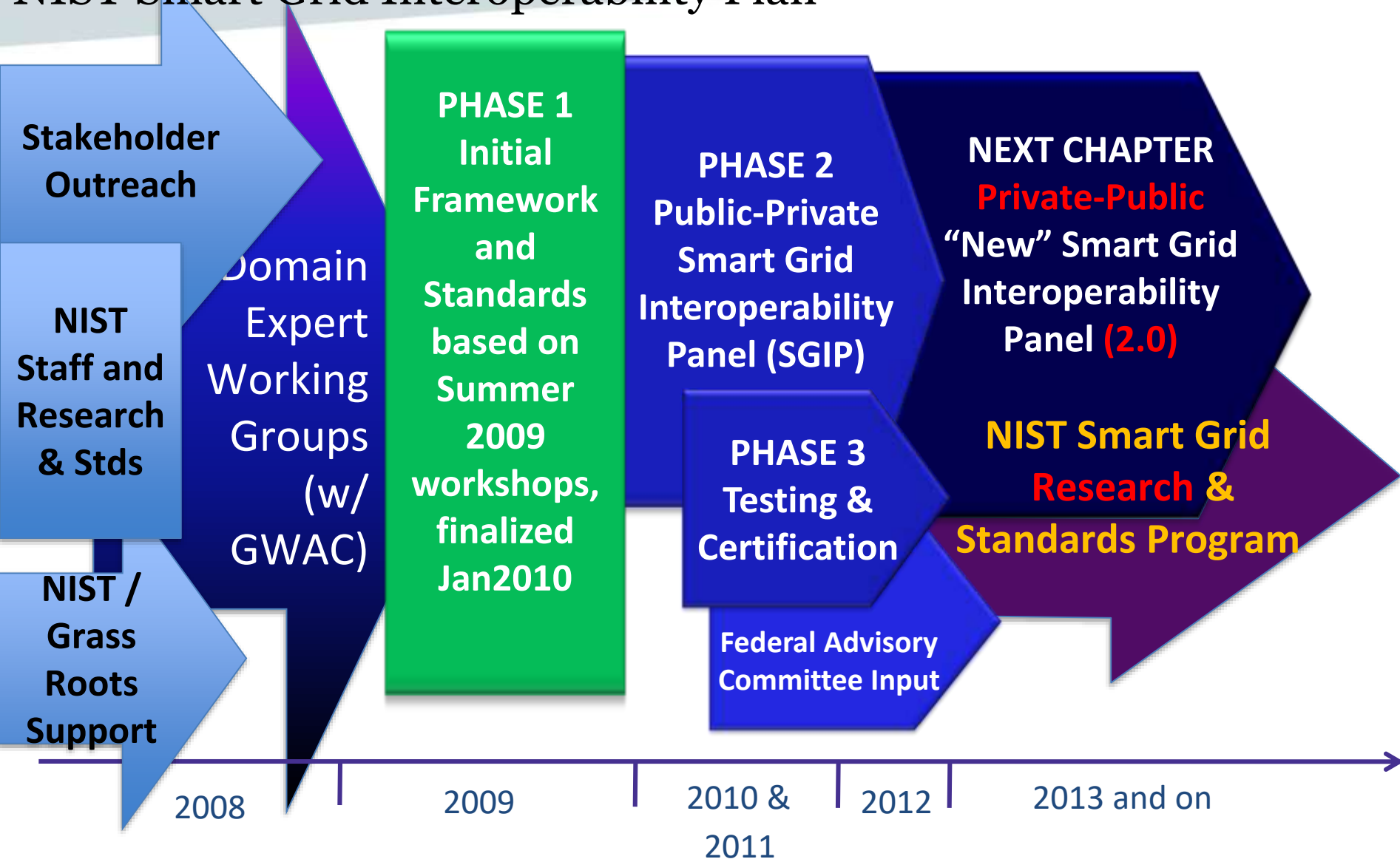# Standards Development and Stakeholders Involvement
US Government Approach to Building a 21st Century Grid

- Energy Independence and Security Act 2007 (EISA)

- National Institute of Standards and Technology (NIST) coordinate the development of a framework for interoperability.

- 2009 Secretaries of Commerce and Energy convened industry

- NIST hosted 3 public workshops with 1500 participants, published 3 separate Federal Register notices, and utilized a web-based collaboration site (i.e., a "wiki").

- NIST Framework and Roadmap for Smart Grid Interoperability Standards, 1.0., 2.0. 3.0

- NIST created the Smart Grid Interoperability Panel (SGIP).

- NIST and SGIP created a Catalog of Standards and NIST's "Identified Standards" – multiple standards
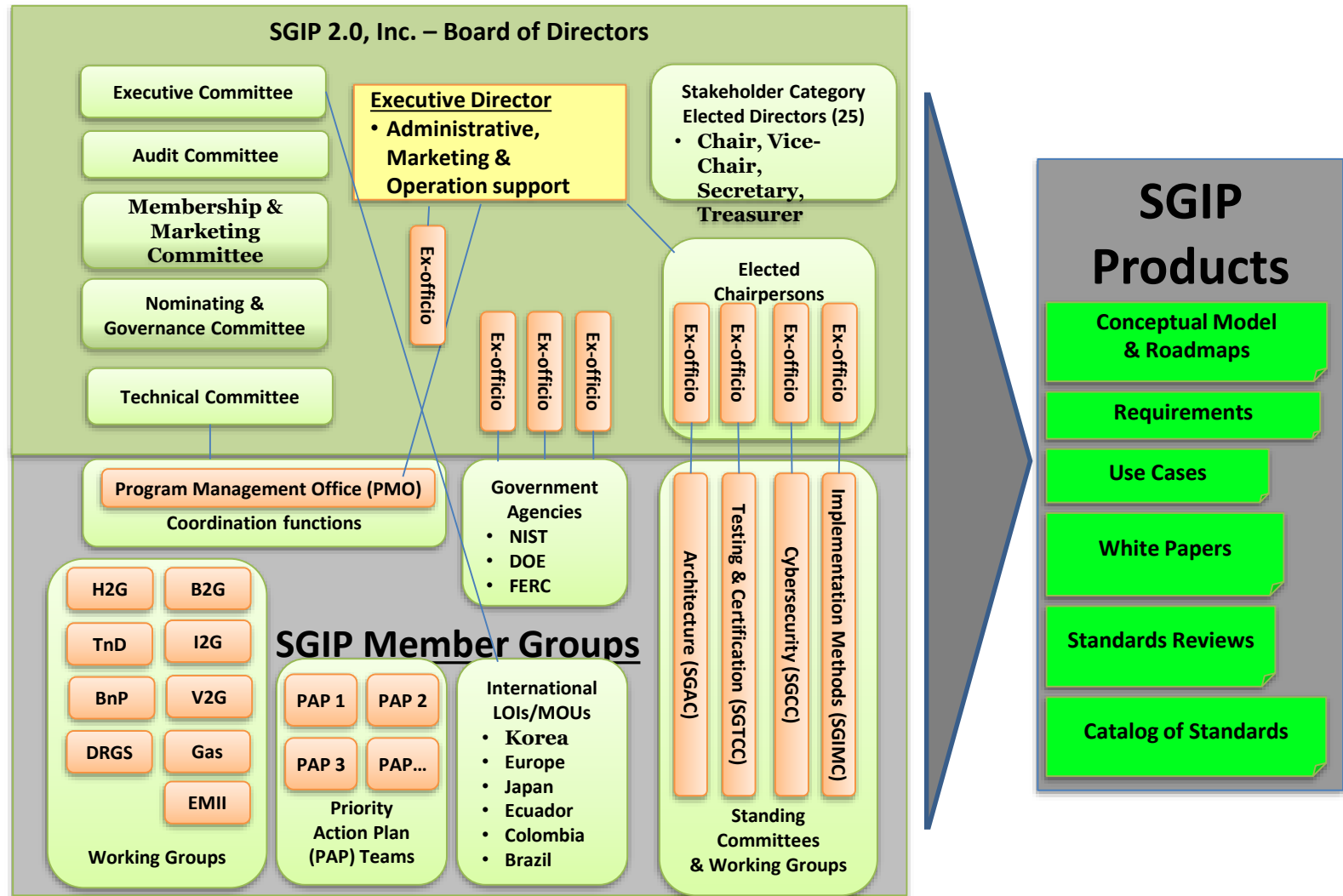
Standards Development and Stakeholders Involvement
US Government Approach to Building a 21st Century Grid

NIST Smart Grid Interoperability Plan

Standards Development and Stakeholders Involvement
US Government Approach to Building a 21st Century Grid

SGIP 2.0, Inc. – Board of Directors

- Executive Committee
- Audit Committee
- Membership & Marketing Committee
- Nominating & Governance Committee
- Technical Committee

Executive Director
- Administrative, Marketing & Operation support

Ex-officio

Stakeholder Category Elected Directors (25)
- Chair, Vice-Chair, Secretary, Treasurer

Ex-officio / Ex-officio / Ex-officio

Elected Chairpersons

Ex-officio / Ex-officio / Ex-officio / Ex-officio

Program Management Office (PMO)
Coordination functions

Government Agencies
- NIST
- DOE
- FERC

Architecture (SGAC) / Testing & Certification (SGTCC) / Cybersecurity (SGCC) / Implementation Methods (SGIMC)

SGIP Member Groups

Working Groups
- H2G
- B2G
- TnD
- I2G
- BnP
- V2G
- DRGS
- Gas
- EMII

Priority Action Plan (PAP) Teams
- PAP 1
- PAP 2
- PAP 3
- PAP…

International LOIs/MOUs
- Korea
- Europe
- Japan
- Ecuador
- Colombia
- Brazil

Standing Committees & Working Groups

SGIP Products
- Conceptual Model & Roadmaps
- Requirements
- Use Cases
- White Papers
- Standards Reviews
- Catalog of Standards

Standards Development and Stakeholders Involvement
Facilitating trade in cybersecurity technologies & services
Regional Cooperation – APEC

Platform

- APEC

- Workshops – underscores benefits of a multi-stakeholder approach

Stakeholders

- Sub Committee on Standards and Conformance (SCSC) prioritizes standards and conformance to support the digital economy

- APEC SCSC and TEL to engage stakeholders

- APEC and ASEAN Government cybersecurity regulators, national standards bodies, standards development organizations

- Industry representatives

Output

- Application of Globally-recognized cybersecurity standards in the region facilitates trade

- Promotion of interoperable cybersecurity frameworks supports commerce

Standards Alliance

- Public Private Partnership – USAID + ANSI

- Reflects public-private model of the U.S. system, leveraging access to expertise in the U.S. private sector and government agencies for project activities

- Assists developing countries implement WTO's Technical Barriers to Trade (TBT) agreement

- Code of Good Practices for the adoption and application of Standards

- Promote trade and economic development

- 15 countries/regions: Initiated with ten (10) participating countries: CAFTA-DR, Colombia, EAC, Indonesia, Mexico, MENA, Peru, SADC, Vietnam, Yemen

- Expanded in 2016 to include 5 additional African countries - Cote D'Ivoire, Ghana, Senegal, Mozambique and Zambia

Thank you!

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