



SEMI® INTERNATIONAL STANDARDS

Overview of the SEMI International Standards Program

July 12, 2011
v8



Outline

- SEMI - the Global Association
- Value of Standards
- SEMI International Standards Program
- How to participate

About SEMI

- Global industry association
- Over 1800 member companies
- Established in 1970 to serve the semiconductor supply chain
- Today serves members involved in:
 - Semiconductor
 - Photovoltaic
 - LED/Solid-State Lighting
 - Flat Panel Display
 - MEMS
 - and other Emerging Markets



Global Impact & Influence

- Offices in Silicon Valley, Washington D.C., Belgium, China, France, Germany, India, Japan, Korea, Russia, Singapore, and Taiwan
- IDM/Foundry/OSAT relationships worldwide
- Strategic relationships with semiconductor, solar, and other industry associations
- Strategic relationships with special interest organizations
- Public policy efforts in all regions



Member Services

- Expositions
 - SEMICON
 - SOLARCON / PVJapan
- Executive Conferences
- Technical Programs
- Industry Standards
- Environment, Health & Safety
- Industry Research & Statistics
- Customer / Industry Network
- Advocacy
- Special Interest Groups



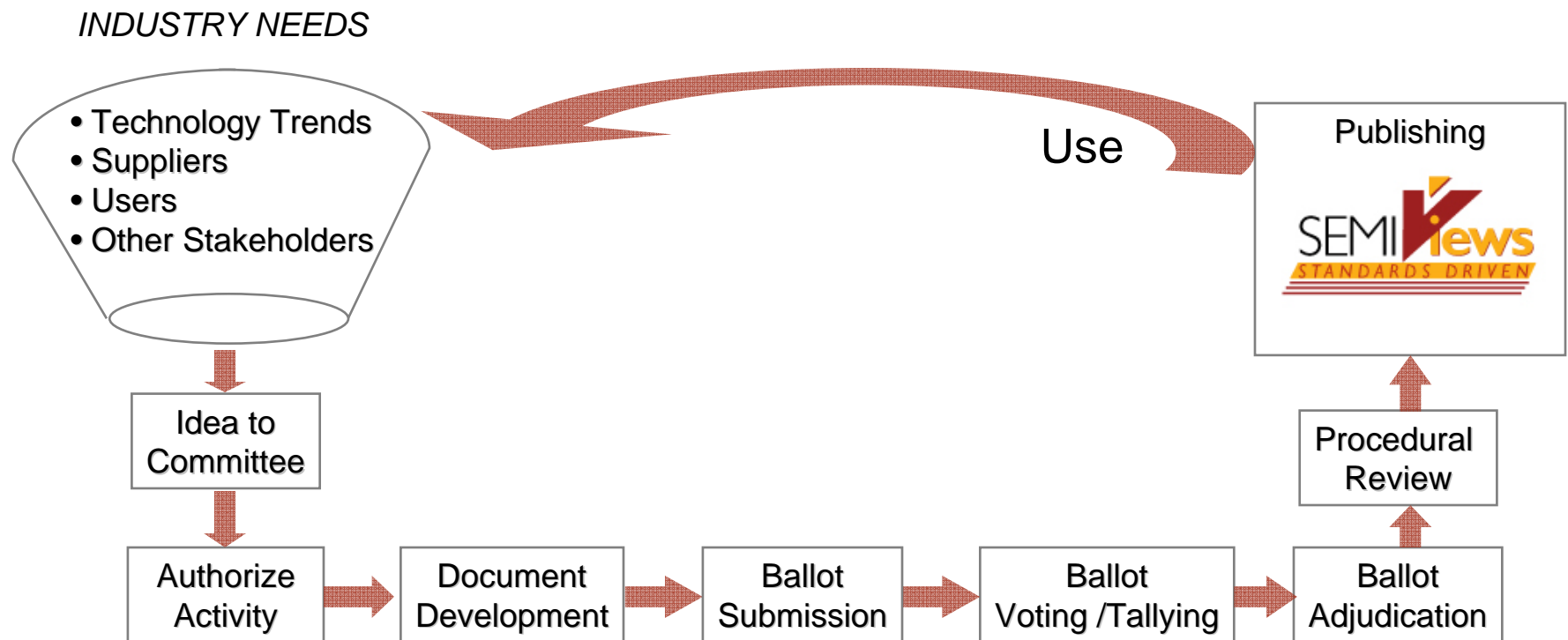
Who we are

- Established in 1973
- Experts from the microelectronic, display, photovoltaic, and related industries
- Exchange ideas and develop globally-accepted technical standards
- We are international
 - United States | Japan | Europe | Taiwan | Korea | China
- High-Profile SEMI Standards
 - Wafer Dimensions, Materials
 - Metrics (Factory efficiency/equipment reliability)
 - Equipment Interface
 - SEMI Equipment Communication Standards (SECS) / Generic Equipment Model (GEM)
 - Hardware/Automated Material Handling Systems (including 300 mm, 450 mm)
 - Environmental, Health and Safety
 - Safety for semiconductor (S2) and FPD (S26), Energy conservation (S23)
 - Photovoltaic

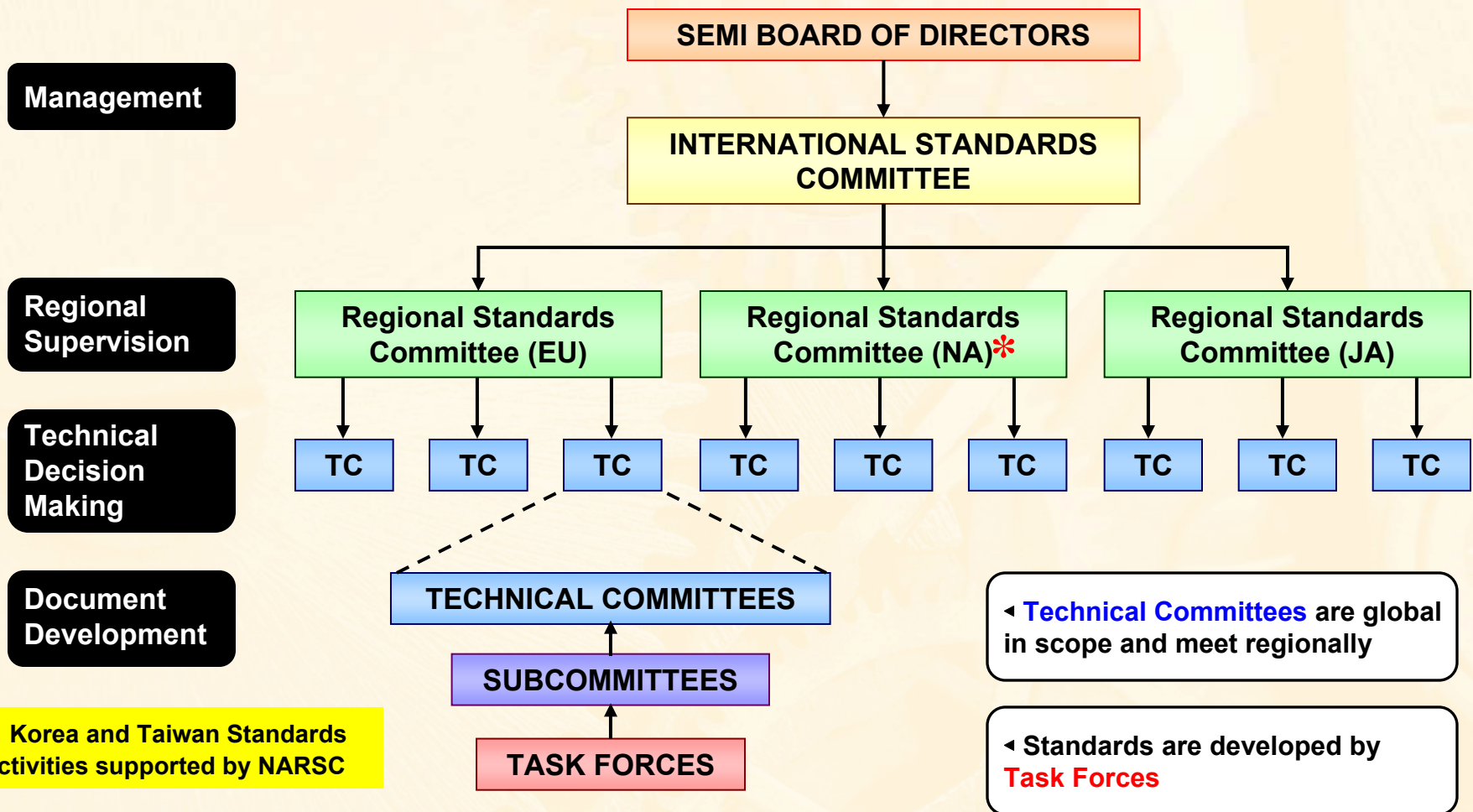
What's in it for me?

- **Why Standards?**
 - Improve communication within and across industries
 - Increase manufacturing efficiency, reduce costs
 - Accelerate product development
 - Enable faster commercialization and interoperability
 - Simplify installation and testing
 - Protect users and the environment
 - Increase market access and acceptance
- **Benefits for Participating**
 - Influence the final standard
 - Get a head start in complying with the standard
 - Network and build relationships
 - Enhance industry visibility

Document Development Path



Organizational Structure



The SEMI Standards Program Today

- All aspects of an automated fab are addressed
- Over 3,600 volunteer experts
(more than 700 companies represented)
 - 23 global technical committees
 - 200 task forces
- Currently over 800 SEMI Standards and Safety Guidelines available

SEMI Standards Membership

Complete & submit application

FEATURES & BENEFITS:

Participate in SEMI Standards meetings

Vote on SEMI Standards Ballots

Receive information & notifications on:

- **General Standards program information**
- **Letter ballots**
- **Upcoming TC meetings in the region**
- **Issuance of TC meeting minutes**

Be eligible to serve in leadership positions

General Program Membership

required



optional



Technical Committee Membership

required



required



Get Involved!

- Get your company support
- Register today: www.semi.org/standardsmembership
- SEMI Standards Technical Committees

Assembly & Packaging
Automated Test Equipment
Compound Semiconductor Mat'ls
Environmental Health & Safety
Facilities
FPD Factory Automation
FPD Mask
FPD Materials & Components
FPD Metrology
Gases
High-Brightness LED
Information & Control

Liquid Chemicals
MEMS / NEMS
Metrics
Micropatterning
Photovoltaic
Photovoltaic Automation
Photovoltaic Materials
Physical Interfaces & Carriers
Silicon Wafer
Traceability
3DS-IC
(three-dimensional stacked integrated circuits)

Thank you!