



Engaging Industry in the Standards Development Process

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Bottom-Up to Top-Down Models – Other Sectoral Approach

- **Voluntary Association of Experts (e.g., IETF)**
 - Internet backbone
 - Open, consensus-based, highly technical, bottom up
 - Individual driven - whether government, NGO, or industry
- **Industry-Led Membership Group (e.g., 3GPP)**
 - 5G / Mobile Wireless
 - Pay-to-play, consensus-based, organization membership
 - Industry-driven, includes academia/scientific and government participants
- **Intergovernmental Organization (e.g., ITU)**
 - Network security/operations
 - Consensus-based, membership-based organization
 - Industry-derived, IGO-managed, academia/scientific membership

Models Vary - Industry Role Remains

- **Clearly articulated, timely processes build confidence**
- **Alignment with other established standards reduces duplication, avoids inefficiencies**
- **International approach enables greater shared innovation**
- **Consensus-derived outcomes result in wider applicability**
- **Industry-driven leads to greater adherence**

Diverse Stakeholder Engagement Strengthens Long Term Value of Results

- **Grounding in technology maturity and feasibility**
- **Understanding of viability of potential standards**
- **Enhanced international competition**
- **Optimized wide-spread adoption**
- **Greater quality of results**

Can Regulatory Incentives Drive Performance to Exceed Standards?

- **Optimizes regulatory compliance**
- **Allows greater control over environmental management issues**
- **Enhances market reputation globally**
- **Supports innovation through diffusion of knowledge**
- **Improves supply chain by improving quality of supplier products and services**

Significant National Economy Impacts Based on Adherence to Voluntary International Standards

