

Overview of Multilateral S&L Policy Cooperation Initiatives

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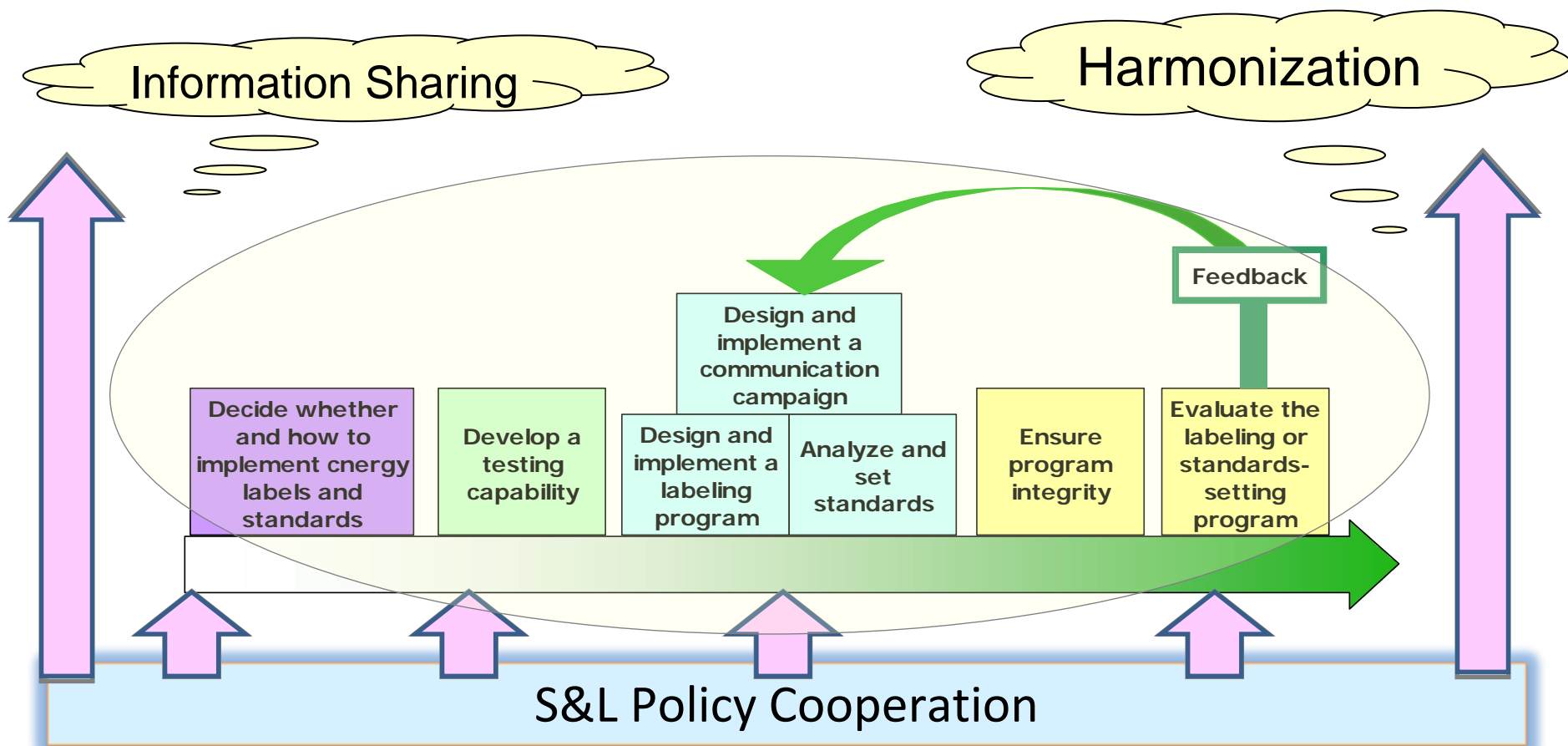
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Outline

- S&L Policy Development Cycle
- Bilateral and Multilateral Cooperation
- Overview of Multilateral S&L Cooperation
 1. SEAD
 2. IEA4E
 3. ASEAN
 4. APEC
- Coverage of the Initiatives
- Issues

Policy development cycle in S&L policy cooperation

- Countries in different policy stages face different challenges.
- Need for information sharing and harmonization across countries.



Source: Adopted from Figure2-8 "ENERGY-EFFICIENCY LABELS AND STANDARDS:A GUIDEBOOK FOR APPLIANCES, EQUIPMENT, AND LIGHTING, 2nd Edition" (CLASP)

Bilateral and Multilateral Cooperation

- Bilateral cooperation
 - Cater to country-specific needs according to the policy development cycle

- Multilateral cooperation
 - Sharing best practice
 - Harmonization among countries

Ongoing Multilateral Cooperation in Appliance S&L

1. Super-Efficient Equipment and Appliance Deployment (SEAD)
2. IEA-Efficient Electrical End-Use Equipment (IEA-4E)
3. APEC-ASEAN Harmonization of Energy Efficiency Standards for Air Conditioners project
4. APEC Expert Group on Energy Efficiency & Conservation (EGEE&C)

Super-Efficient Equipment and Appliance Deployment (SEAD)

- ✓ **SEAD** is an international market transformation initiative under the Clean Energy Ministerial (CEM) and the International Partnership for Energy Efficiency Cooperation (IPEEC).

- ✓ **Participating Countries:**
Australia, Brazil, Canada, EU, France, Germany, India, Japan, Korea, Mexico, Russia, South Africa, Sweden, UAE, UK, US

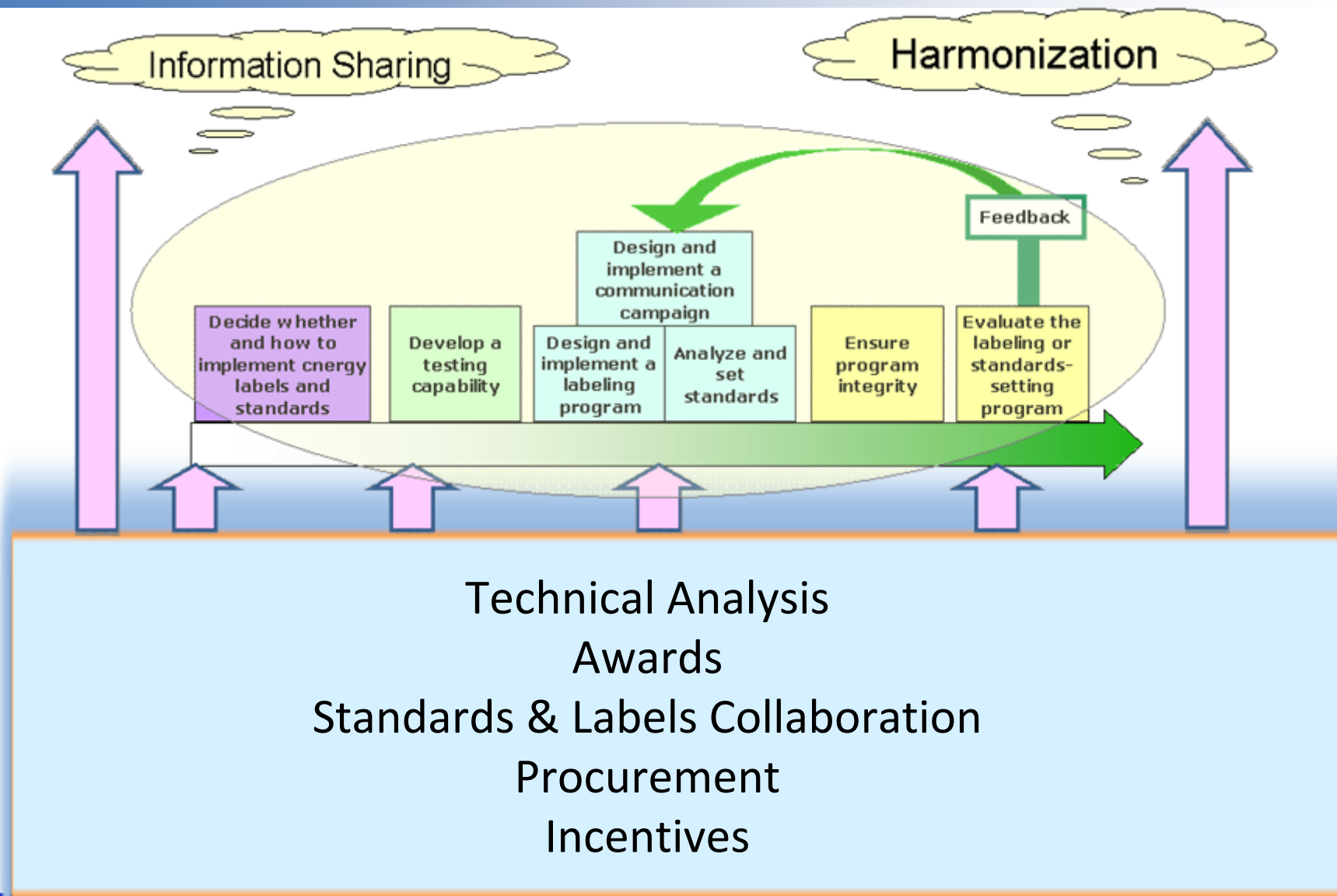
- ✓ Partners work together in voluntary activities to:
 - “**raise the efficiency ceiling**” by pulling super-efficient appliances and equipment into the market through cooperation on measures like incentives, procurement, awards, and R&D investments;
 - “**raise the efficiency floor**” by working together to bolster national or regional policies like minimum efficiency standards;
 - “**strengthen the foundations**” of efficiency programs by coordinating technical work to support S&L activities.

Source: Presentation by Stephen Pantano, CLASP at IEEJ S&L Symposium, 10 February 2012

SEAD Activities <http://www.superefficient.org/>

1. **Cross-cutting Technical Analysis:**
 - ✓ Bottom-up Energy Analysis System (BUENAS) tool
 - ✓ Web Portal (www.superefficient.org)
 - ✓ Perform global, product-specific technical analysis as a foundation for all other SEAD activities (Televisions, Ceiling Fans, Room Air Conditioners, Domestic Refrigeration)
2. **Awards:** 2012 awards for flat-panel televisions. Future award categories under consideration (Computer Monitors, Electric Motors)
3. **Standards & Labels Collaboration:**
 - ✓ Product collaborations for peer-to-peer information sharing: Commercial Refrigeration, Computers, Distribution Transformers, Motors, Network Standby, Solid State Lighting, Televisions
4. **Procurement:** Best practice guidelines for procurement program design
5. **Incentives:** Through the Efficient Product Promotion Collaborative, gather and share information regarding the design of effective programs and marketing strategies to promote both efficient and super-efficient products to consumers worldwide.

Which policy steps do SEAD activities address?



IEA-Efficient Electrical End-Use Equipment (IEA-4E)

<http://www.iea-4e.org/>

- ✓ **IEA-4E's objective** is to promote adoption of government policies to encourage the use of efficient electrical end-use equipment.

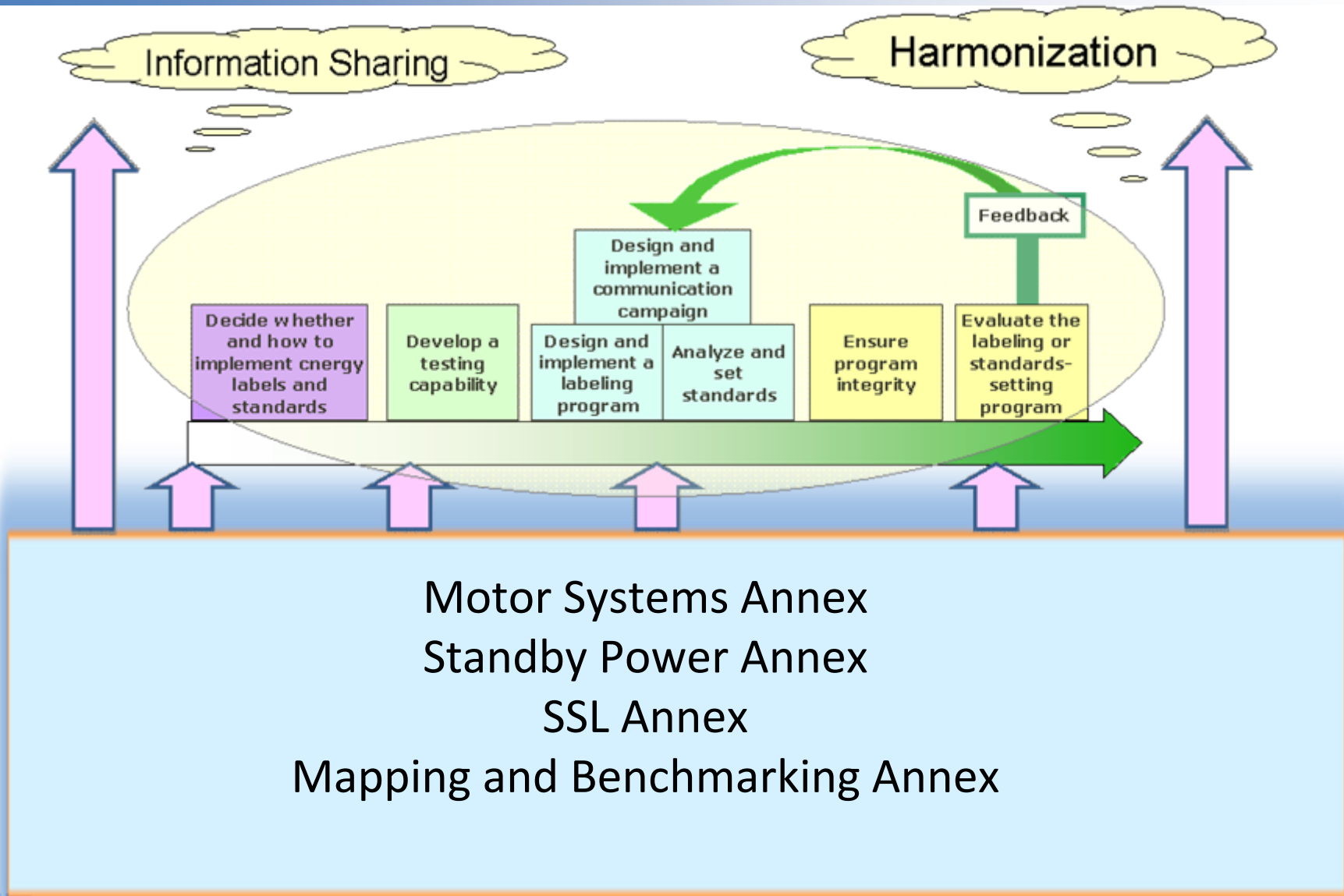
- ✓ **Participating Countries:**
Australia, Austria, Canada, Denmark, EU (observer), France, Japan, Korea, Netherlands, Sweden, Switzerland, UK, US

- ✓ The 4E provides a forum for countries and other stakeholders to:
 - ◆ Share expertise and develop their understanding of end-use equipment and policies; and
 - ◆ Facilitate coordination of international approaches in the area of efficient end-use equipment.

IEA 4E: Activities (called “Annexes”)

1. **Motor Systems Annex:** works on spreading good practice, new improved technology and positive policy experiences; promoting high efficiency motors (IE3 Level) globally. It also manages “Motor Summit” every year
2. **Standby Power Annex:** Develops methodologies to assist in the collection and analysis of standby power data to facilitate international comparisons; compile measured data on standby power consumption; develop practical policy approaches that may enable effective management of standby power.
3. **Solid State Lighting Annex**
 - Develop SSL Quality Assurance - work to enhance confidence in the SSL technology
 - Harmonize SSL Performance Testing
 - Standards and Accreditation - develop a structure for world-wide interim reliability of SSL testing labs' performance data
4. **Mapping & Benchmarking Annex**
 - ✓ A project designed to understand differences in product performance and energy consumption between countries/regions.
 - Mapping: an overview of the energy efficiency performance in several countries and/or regional areas, and a brief summary of the main policy measures
 - Benchmarking: compare average and best performance of products put on the market in different countries and/or regional areas

Which policy steps do IEA4E activities address?



Energy Efficiency in ASEAN

<http://aseanenergy.org/index.php/acebodies/eec-ssn>

- **Energy Efficiency and Conservation Sub-sector Network (EE&C SSN)** has the ownership of Energy Efficiency and Conservation activities in ASEAN.
- ASEAN has set a **goal to reduce Energy Intensity of 8% by 2015** (over 2005), which is currently being reviewed;
- Program initiated in 2010 under the steering of the ASEAN EE&C SSN:
 - Study on estimate of EE related to increase in MEPS for AC and refrigerators in ASEAN conducted
 - Critical needs identified: harmonization of standards for testing methods and MEPS
 - Strategic framework for harmonization of EE standards for household appliances developed and approved by EEC-SSN
 - ACs selected as priority
- Participating Countries: ASEAN member countries (Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippines, Singapore, Thailand, Vietnam)

ASEAN: Activities

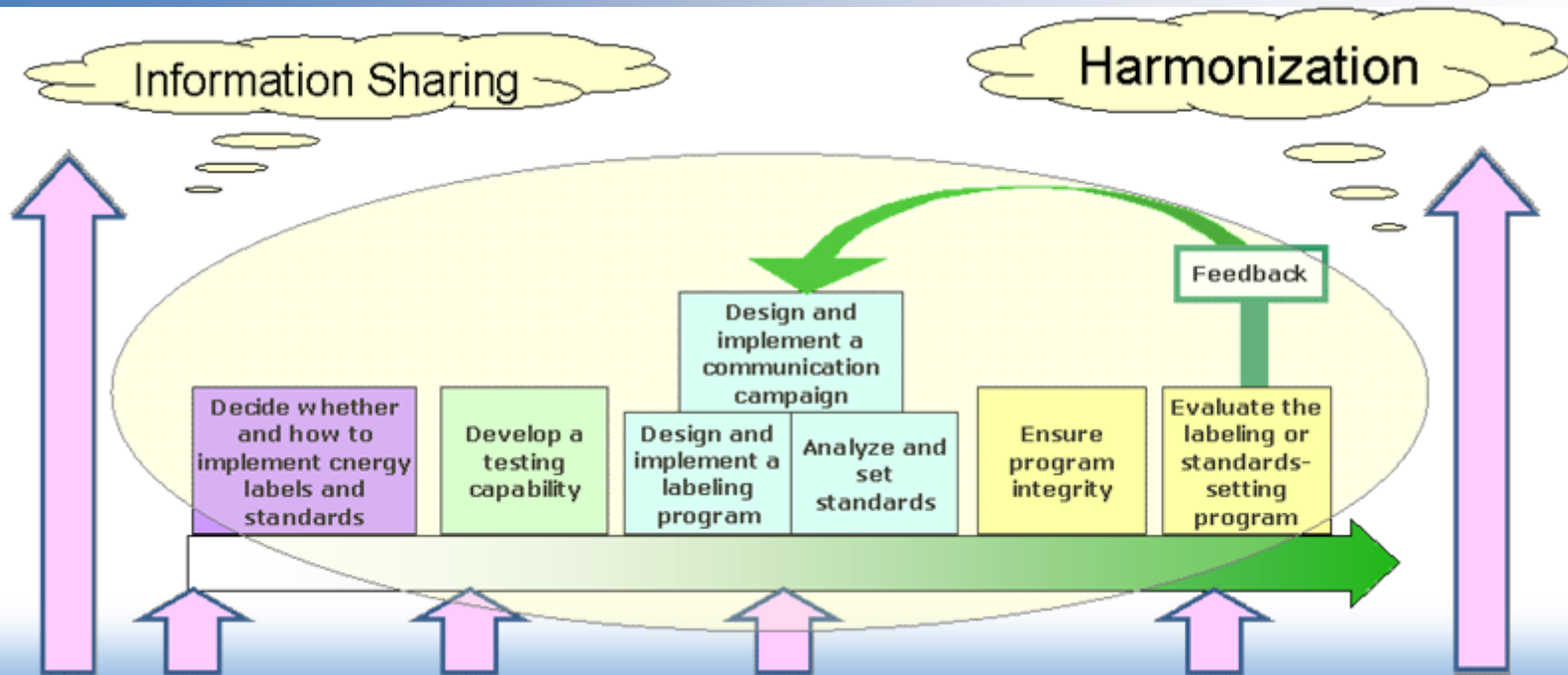
APEC-ASEAN Harmonization of Energy Efficiency Standards for Air Conditioners project (funded by APEC)

Phase 1 (2012-2013)	Harmonize standards for testing methods for air conditioners among ASEAN members and develop a roadmap for the harmonization at APEC level based on lessons learned.
Phase 2	Harmonize EE standards in ASEAN members through MEPS and HEPS policies
Phase 3	Build capacity of testing laboratories/increase consumer awareness.

Deliverables

- ✓ Preparation of recommendations for an ASEAN harmonized standard for testing methods
- ✓ Preparation of recommendations on the way forward for an APEC-wide harmonization of standards for testing methods for ACs

Which policy steps do ASEAN activities address?



Phase 1 (2012-2013)	Harmonize standards for testing methods for air conditioners among ASEAN members and develop a roadmap for the harmonization at APEC level based on lessons learned.
Phase 2	Harmonize EE standards in ASEAN members through MEPS and HEPS policies
Phase 3	Build capacity of testing laboratories/increase consumer awareness.


APEC Activities

- ✓ The APEC Expert Group on Energy Efficiency and Conservation (EGEE&C) promotes energy conservation and the application of energy efficiency practices and technologies in the APEC region.

1. ESIS (Energy Standard Information System)

- APEC ESIS provides up-to-date information about energy efficiency standards and labelling that apply to products in the APEC region.
- Global S&L Database (36 economies and two regional associations (APEC and SEAD), covers 17 product categories)

[Visit APEC](#)

 Energy Standards Information System

APEC Economies

Click on an economy below to access a detailed view of Standards and Labeling Programs in the APEC region.

Australia	Brunei Darussalam	Canada
Chile	China (PRC)	Chinese Taipei (Taiwan)
Hong Kong	Indonesia	Japan
Korea (ROK)	Malaysia	Mexico
New Zealand	Papua New Guinea	Peru
Philippines	Russia	Singapore
Thailand	United States	Vietnam

News & Publications

News

SEAD Global Efficiency Medal Competition Recognizes Most Energy Efficient TVs in Europe
2012-09-14 [READ MORE](#)

CHINA RAMPS UP MARKET TRANSFORMATION INITIATIVES TO PROMOTE ENERGY EFFICIENT APPLIANCES
2012-09-21 [READ MORE](#)

APEC COMPLIANCE WORKSHOP FACILITATES DIALOGUE AND COLLABORATION ON MV&E IN THE ASIA-PACIFIC REGION
2012-07-11 [READ MORE](#)

CNIS LAUNCHES MAJOR CONSUMER AWARENESS CAMPAIGN FOR CHINA ENERGY LABEL
2012-07-10 [READ MORE](#)

CLEAN ENERGY MINISTERIAL ROUNDTABLE HIGHLIGHTS OPPORTUNITIES TO ACCELERATE MARKET TRANSFORMATION FOR SUPER-EFFICIENT APPLIANCES
2012-05-21 [READ MORE](#)

Publications

About APEC-ESIS

APEC ESIS provides up-to-date information about energy efficiency standards and labelling that apply to products in the APEC region.

[APEC ESIS allows policy agencies, standards and labelling practitioners, and producers and](#)

APEC Activities

2. CAST (Collaborative Assessment of Standard and Testing) Initiative

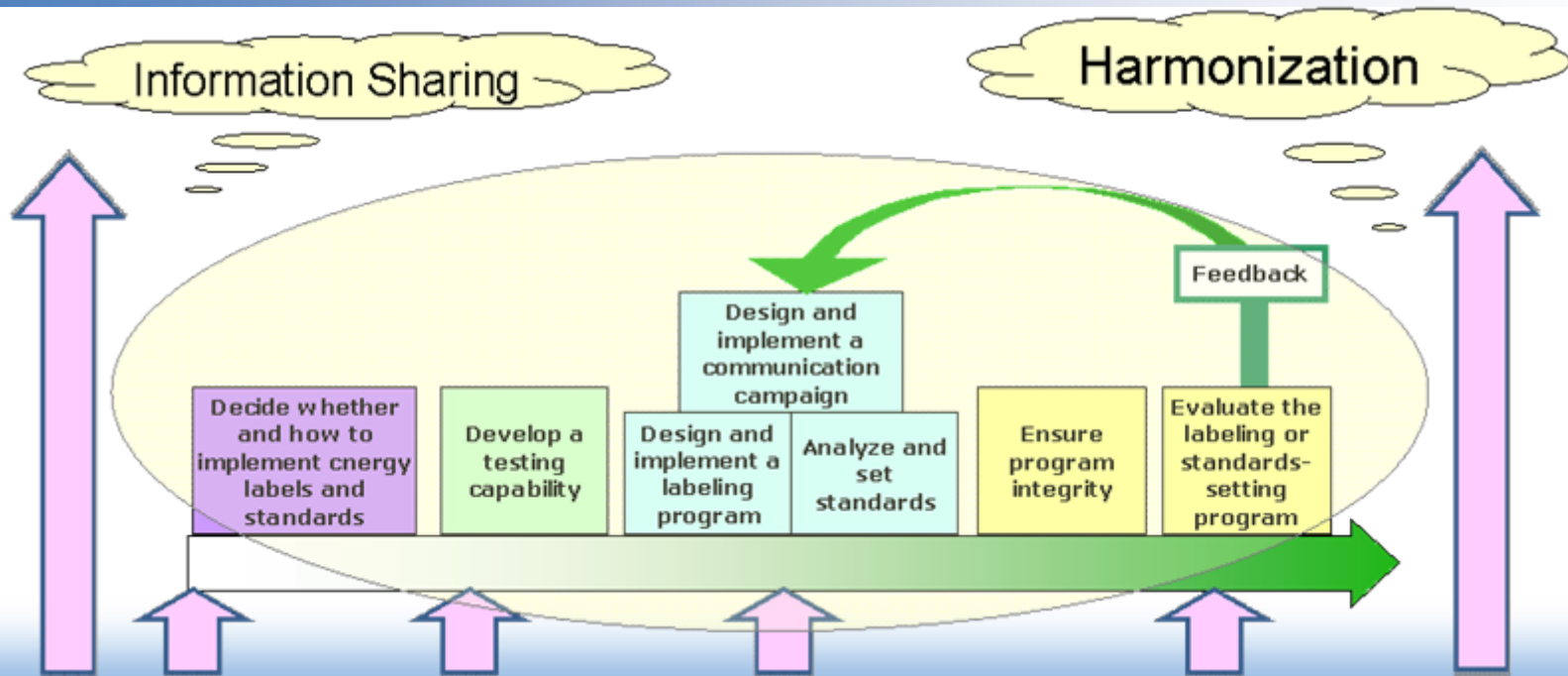
Objectives:

- ✓ Promotes harmonized test procedures
- ✓ Support development of aligned energy efficiency standards and labels in APEC economies
- ✓ SEAD to fund one or more projects each year over a 5 year period to advance S&L development in APEC economies

Current projects:

- ✓ Study on harmonization of energy efficiency standards and labeling programs for **motors** (APEC Economy Sponsor: China)
- ✓ Evaluation and initial draft of harmonized test methods and level definitions for **heat pump water heaters** (APEC Economy Sponsor: Australia)

Which policy steps do APEC activities address?



ESIS

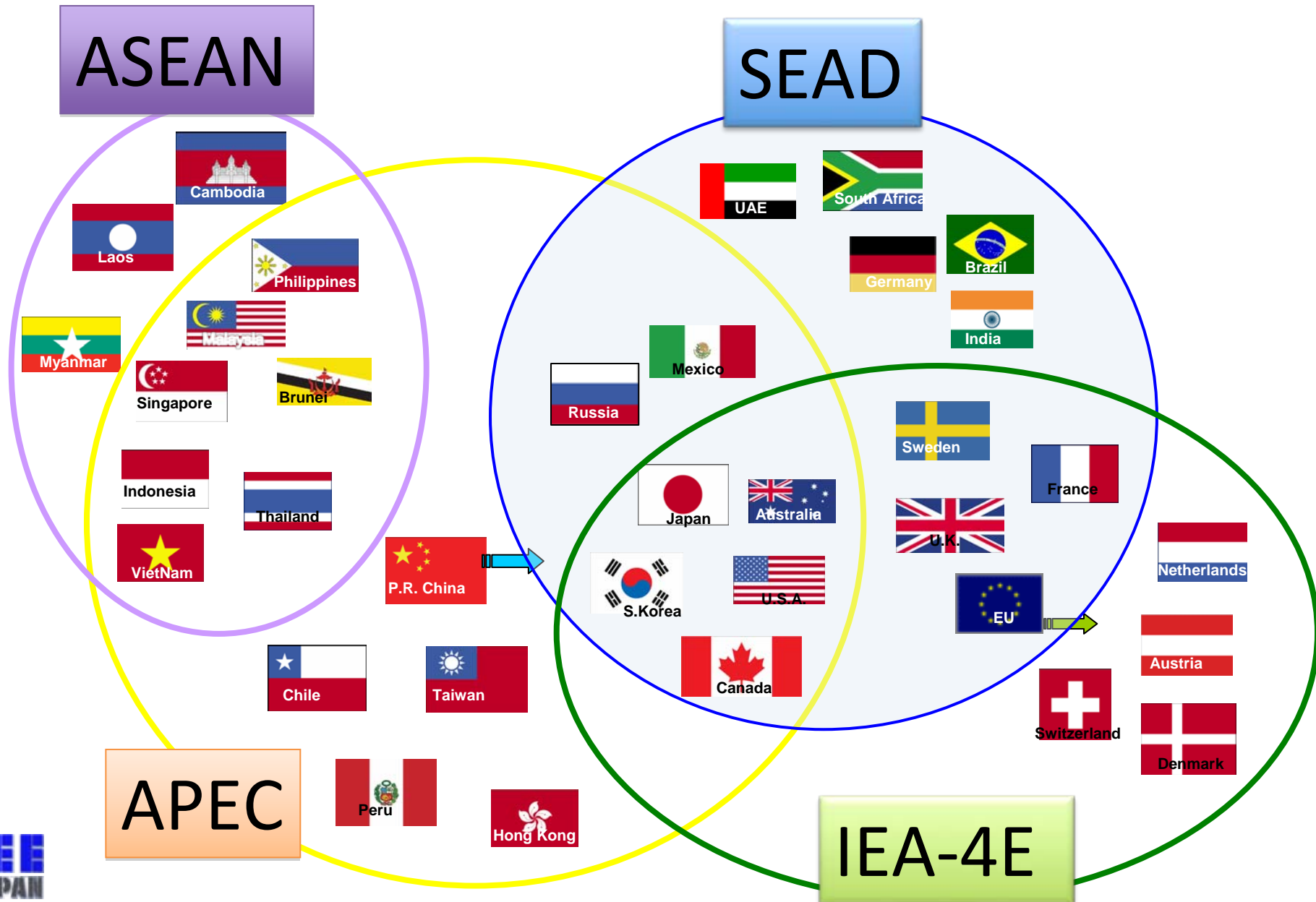
CAST: Study on harmonization of energy efficiency standards and labeling programs for motors

CAST: Evaluation and initial draft of harmonized test methods and level definitions for heat pump water heaters

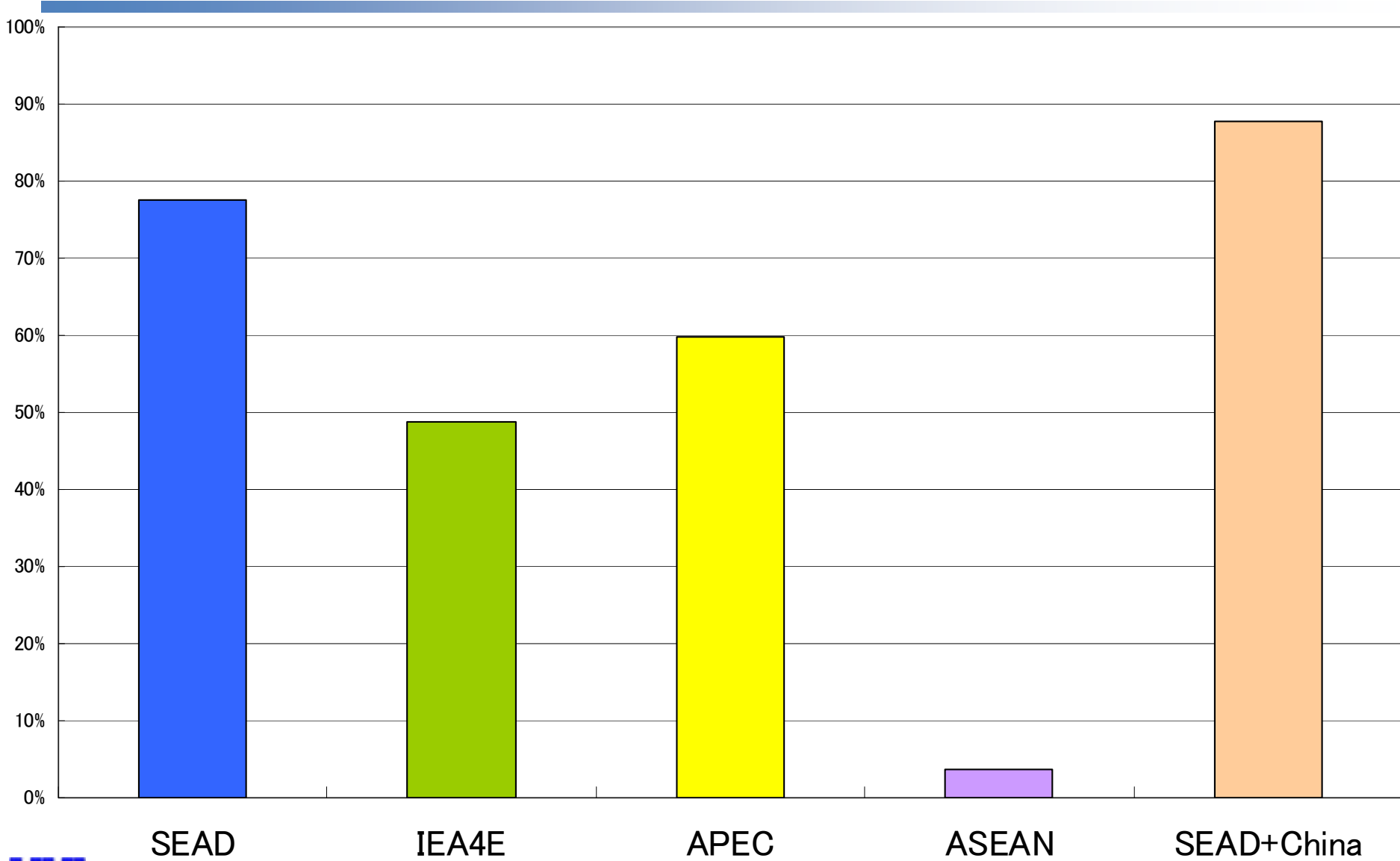
Multilateral Initiatives : appliances

Air Conditioner	SEAD	IEA-4E M&B	ASEAN
Electric motors	SEAD	IEA-4E	APEC
Network Stand-by	SEAD	IEA-4E	
Lighting	SEAD	IEA-4E	
Television	SEAD		
Distribution Transformers	SEAD		
Refrigeration	SEAD (commercial)	IEA-4E M&B (residential)	
Computers	SEAD		
Heat pump water heaters			APEC
Desktop PC			
Other appliances		IEA-4E M&B	

Multilateral Initiatives : Geographic Coverage



Regional Coverage: Residential Electricity Consumption (2010)

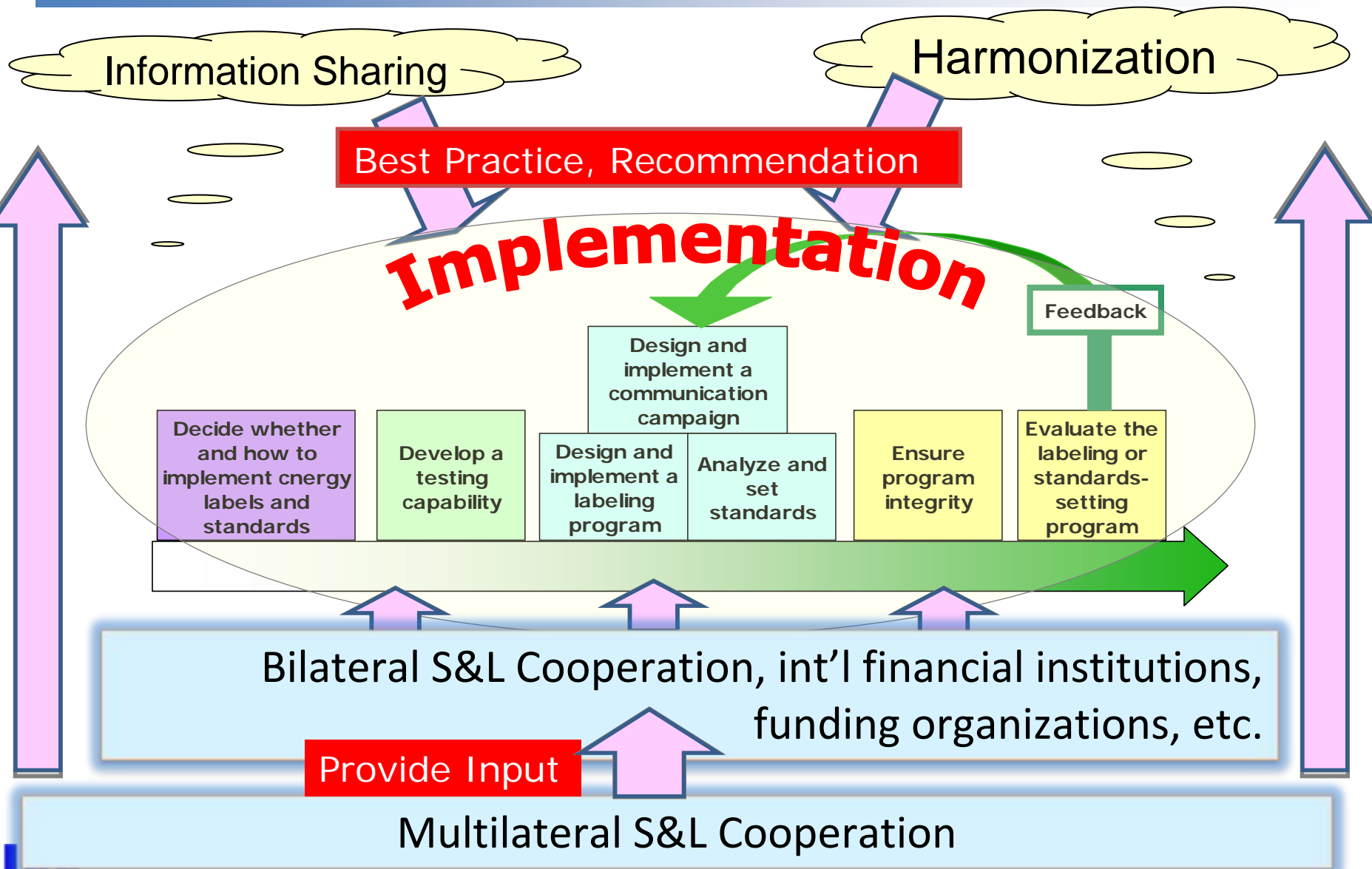


Issues of Multilateral S&L Cooperation

- Overlap in appliance and geographical coverage
 - Possible duplication of efforts, but some coordination already taking place
- Participation of major energy consuming countries
 - Participation widening as observers
- Bridging the gap between words and practice
 - Generating and sharing information on best practices and recommending ways for harmonization are good results. But they need to be implemented to have a real impact.

How can words be brought into practice?

Bridging the gap between words and practice ...



Thank you for your attention!

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