



European Standardization – New Horizons

Ashok GANESH
Director Innovation

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Fundamentals – CEN and CENELEC standards are...



- ❑ Based on the **national delegation principle**
- ❑ Representing a **consensus** among all interested parties, including **industry** & **SMEs** and **societal stakeholders**
- ❑ **Voluntary**
- ❑ Developed by **independent organizations** clearly distinct from authorities

CEN & CENELEC coordination



CEN

Bio-based products
Chemicals
Construction
Food
Heating, Ventilation &
Air Conditioning
Materials
Nanotechnologies
Pressure equipment
Services

CEN & CENELEC

Air and Space
Consumer products
Electric Vehicles
Energy and utilities
Health and safety
Healthcare
ICT
Machinery safety
Measurement
Medical equipment
Railways
Security and Defence
Smart Grids / Smart Meters
Transport and Packaging

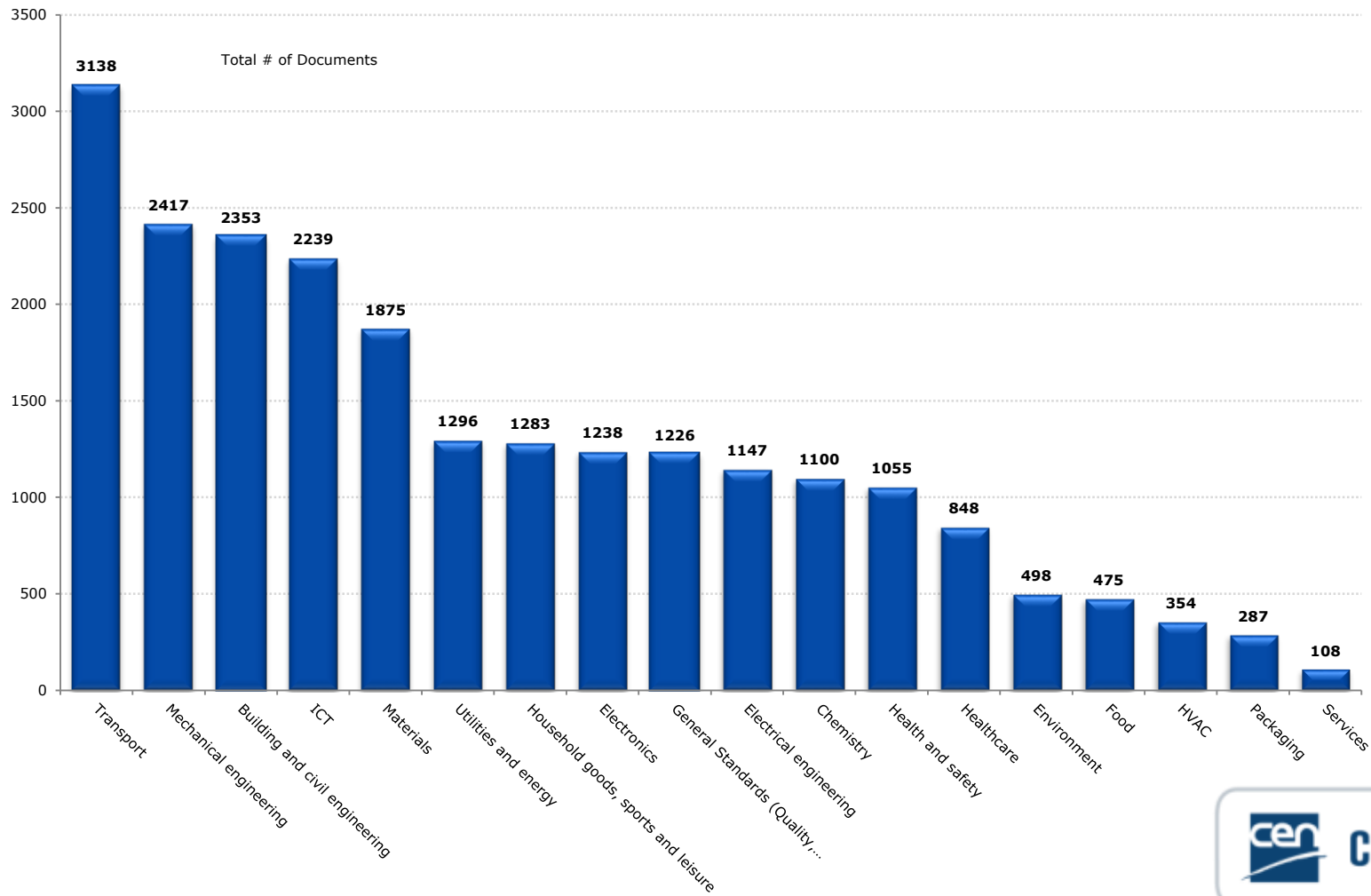
CENELEC

Electrical engineering
Electromagnetic
Compatibility (EMC)
Fibre-optic
communications
Fuel Cells
Household Electrical
Appliances
Solar (photovoltaic)
electricity systems

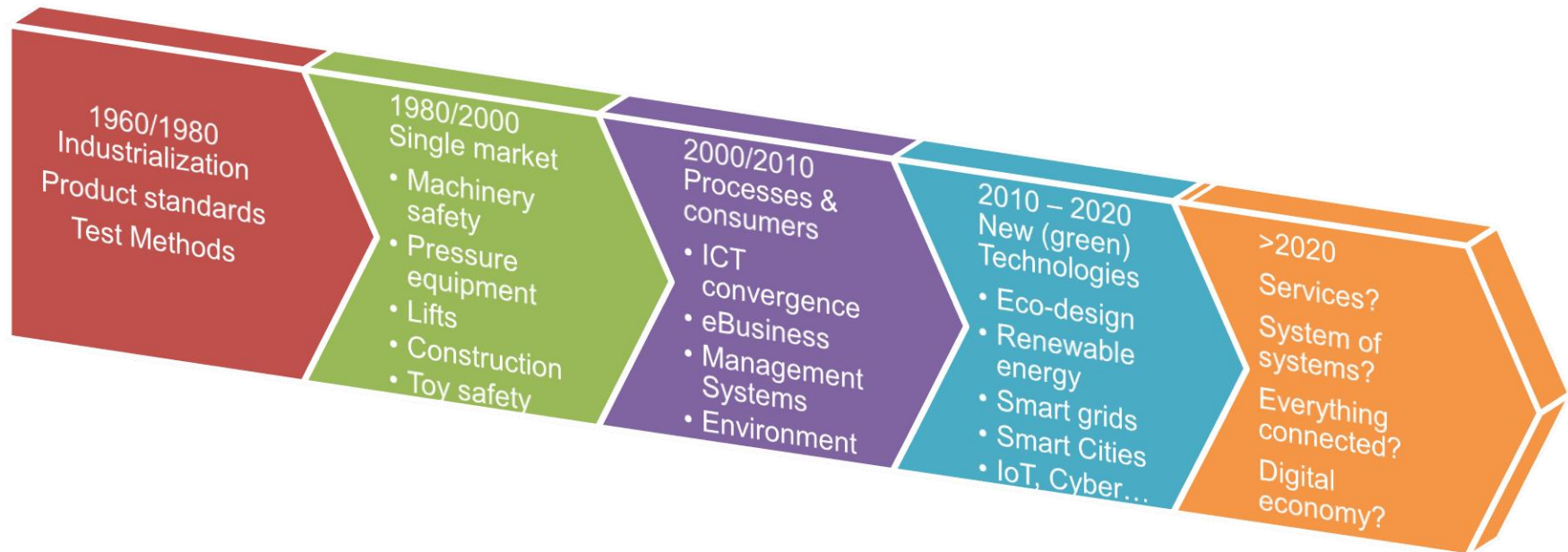
Cross-sectoral issues

Accessibility | Environmental Protection | Energy-efficiency (Eco-Design)

Industry sector coverage



European Standards - Evolution



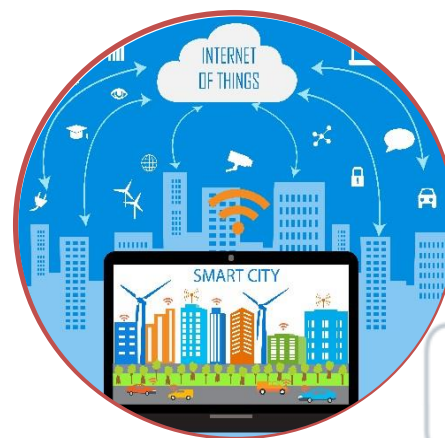
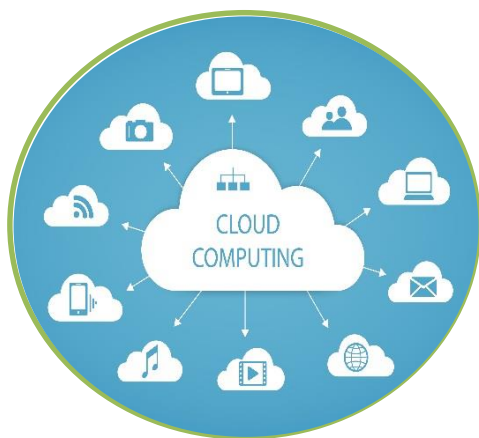
...meeting stakeholder needs

The world is changing

- European industry is digitizing
- Traditional sectors now need IT standardization responses
- Rapidly evolving regulatory landscape
- Growing number of standardization providers



5 Priorities for ICT Standardization



Standardization Bodies Supporting Digitization



Home/Building

Manufacturing/
Industry Automation

Vehicular/
Transportation

Healthcare

Energy

Cities

Wearables

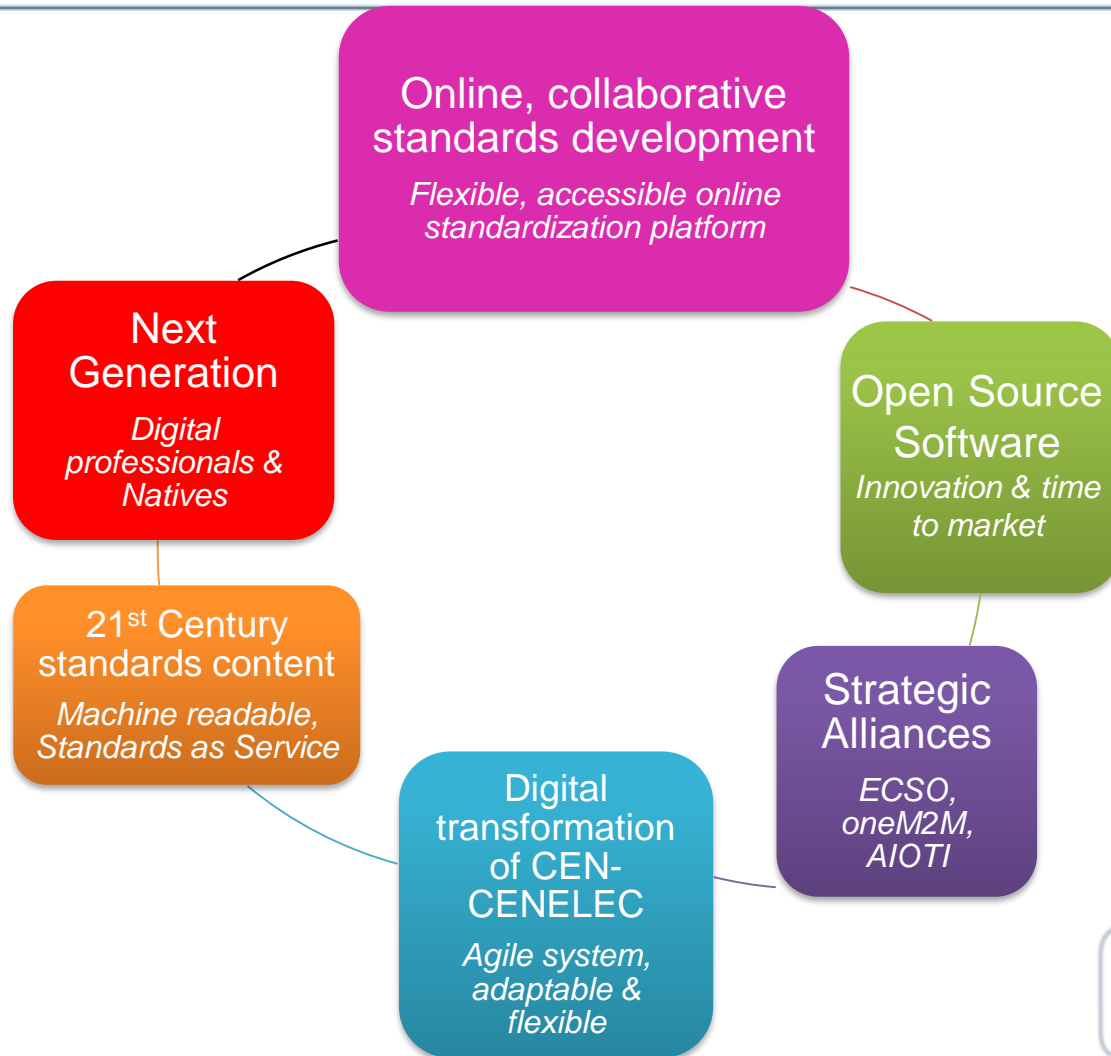
Farming/
Agrifood

Horizontal/Telecommunication

Strategy for Digitization



Pilot projects



Open Source



From:
http://www.infosysblogs.com/infosysdigital/2016/06/open_source_software_wave_of_future.html

Why Open Source Software (OSS)

Cost Reduction

Quality Improvement

Quick Time to Market

Full Ownership and control

Drive innovation with rapid pace

No vendor lock in, great flexibility

Broad perspective (more eyes on the code)

Integration and Customization- Easy to modify and enhance

Collaboration approach gives better solutions- Community support

**Open source
drives innovation**

Innovation & Research



Transfer new knowledge to market

STANDARDS – RESEARCH INTEGRATION

Horizon 2020

Calls

BRIDGIT 2

STAIR-EMPIR

TMW

Putting Science into Standards

Innovation Champion



Quantum Technology



EU Flagship

Quantum Engineering



2018 'Putting Science into Standards'

Services → Servitization



IfM

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CAMBRIDGE





Thank you

Ashok GANESH

aganesh@cencenelec.eu