

# Joint ITU-IEICE-CTIF-GISFI Workshop on Education about Standardization

Kyoto, Japan, 25 April 2013

## EURAS, ESOs and Standards Education

Kai Jakobs

RWTH Aachen University

[kai.jakobs@cs.rwth-aachen.de](mailto:kai.jakobs@cs.rwth-aachen.de)



# The European Academy for Standardization (EURAS)

- Was founded in Hamburg in 1993 by researchers from various academic fields.
- Is a registered non-profit society under German civil law.
- Emphasises the need for European co-operation.
- But is also internationally oriented.
- Is a loose federation of individuals.

# EURAS – Objectives

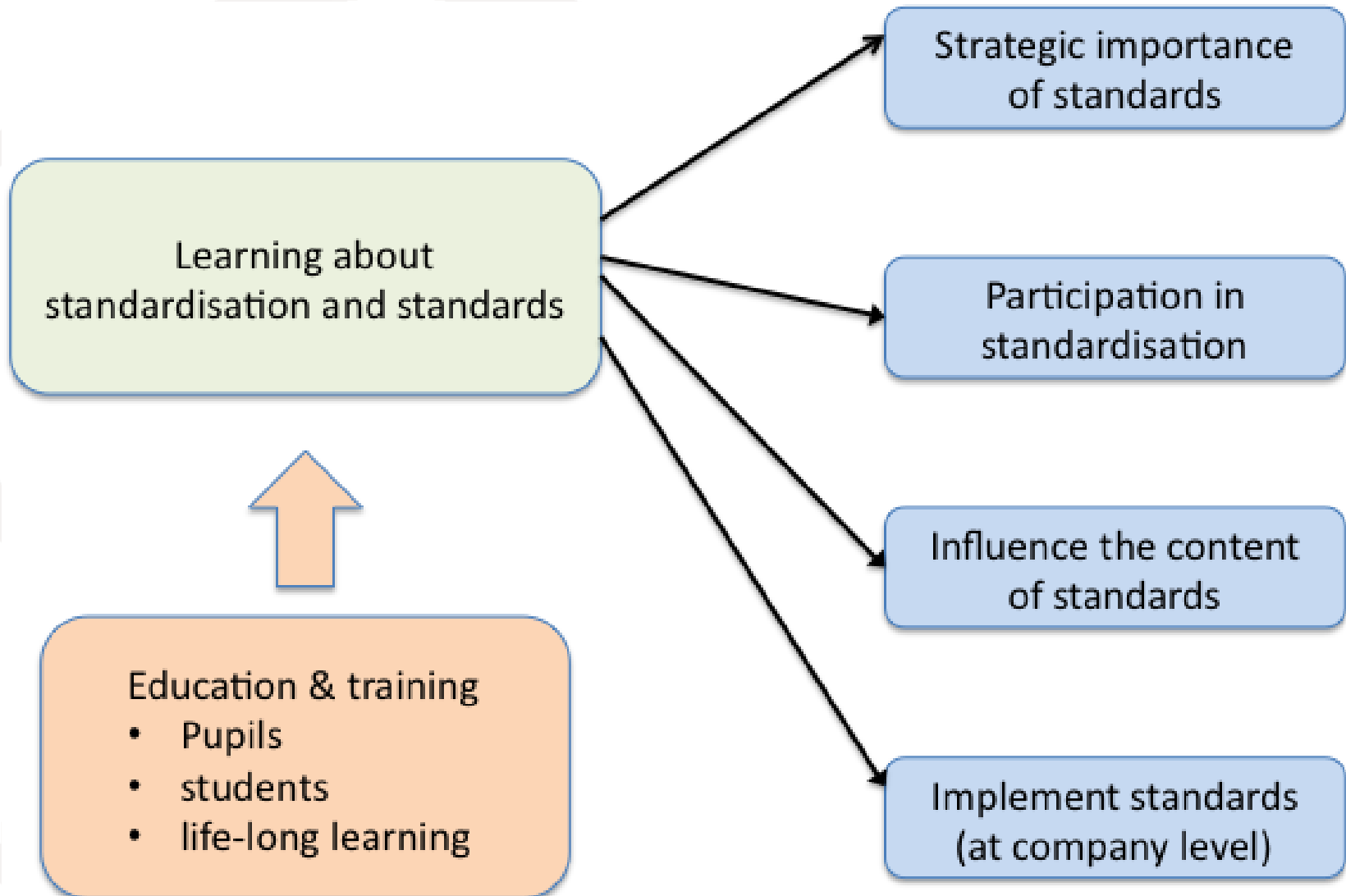
To promote

- research on standardisation,
- education about standardisation,
- European/international co-operation in standardisation.

# **EURAS – Services**

- Organisation of annual conferences.
- Editing and publishing of the conference proceedings.
- Publishing of the EURAS book series.
- Maintains e-mail distribution lists (270 members on open list).

# What EaS is All About



# The European Standards Organisations

The ESOs are:

- CEN – Committee for European Standardization,
- CENELEC – European Committee for Electrotechnical Standardization,
- ETSI – European Telecommunications Standards Institute

# The ESOs' Activities in the Field

Joint Working Group on Education about Standardisation (JWG-EaS; estd. 2009)

- A Master Plan for Education about Standardisation.
- Task-Forces (to come) 'Consultation and Partnering'; 'Repository'; 'National Structures'.
- Two Model curricula on standardisation: higher education & vocational training.

# Trigger for ESOs' Activities

- The EURAS White Paper on 'Academic Standardisation Education in Europe'. It observed (among other things)
  - Standardisation is a strategic asset at different levels.
  - To excel in standardisation, proper education is needed.
  - Several APEC countries have implemented standardisation education.
  - Europe is lagging.



# The Master Plan - Overview

- Highlights benefits of standardisation and education about standardisation.
- Identifies key stakeholders.
- Identifies concrete work areas 'Analysis', 'Events', 'Consultation and Partnering', 'Teaching' and 'Projects'.

# The Work Areas

- 'Analysis' – understand educational systems; identify EsA's barriers/gaps;
- 'Events' – host & organise conferences; promotional material;
- 'Consultation and Partnering' – link to stakeholder associations and SSOs;
- 'Teaching' – develop teaching material, train teachers, give lessons;
- 'Projects' – internships, tailored material.

# Model Curricula for

- primary education (up to 10/11 years old);
- secondary education (up to 16/18 years old);
- vocational education;
- higher education (colleges and universities);
- post-formal education.

# Modules

- 1: Examples from everyday life
- 2: Factual content
- 3: Academic/theoretical aspects
- 4: Case studies
- 5: Skill related content
- 6: Application of specific standards

# Problems and Issues

- Europe comprises many countries with different educational systems.
- Basically need to talk to individual universities and/or professors.
- Need to find sufficiently interested and knowledgeable profs – they are few and far between ....
- Money needs to be made available.

# Further Information

- EURAS (also White Paper) – [www.euras.org](http://www.euras.org)
- Education on standardisation - <http://www.cencenelec.eu/standards/Education/Pages/default.aspx>
- Master plan on Education about Standardisation [http://www.cencecencenelecnelec.eu/standards/Education/Join tWorkingGroup/Documents/Masterplan%20on%20Education%20about%20Standardization.pdf](http://www.cencecencenelecnelec.eu/standards/Education/Join%20WorkingGroup/Documents/Masterplan%20on%20Education%20about%20Standardization.pdf)
- Repository of materials - <http://www.cencenelec.eu/standards/Education/Pages/repository.aspx>
- 2012 Conference on Education about Standardisation [http://www..eu/News/Brief\\_News/Pages/TN-2012-008.aspx](http://www..eu/News/Brief_News/Pages/TN-2012-008.aspx)

**Thank you very much for your attention.**

