

20th anniversary of ERCIM

Standardisation of research results

Spring ERCIM Days 2009 , 26-29 May 2009

Dr. Walter Weigel
ETSI Director General

ETSI – Who are we?

- ❑ Key player in ICT (Information Communication Technology)
- ❑ Independent, not-for-profit, created in 1988
- ❑ 750+ Member from 63 countries
- ❑ European Standards Organisation status
- ❑ Direct participation by organisation
- ❑ 20,000 publications – available for free!
- ❑ Success stories e.g. GSM, DECT, TETRA



Key Challenge for Successful Innovation

- > **Transform Innovation Leadership into Market Leadership**

- **The innovation environment is evolving**
 - **Accelerating innovation cycles, increased market segmentation, faster product & service takeoff, and increased investment in R&D**
 - **Globalisation offers opportunities for outsourced R&D as well as new markets**
 - **Open innovation and networked R&D are providing new challenges**

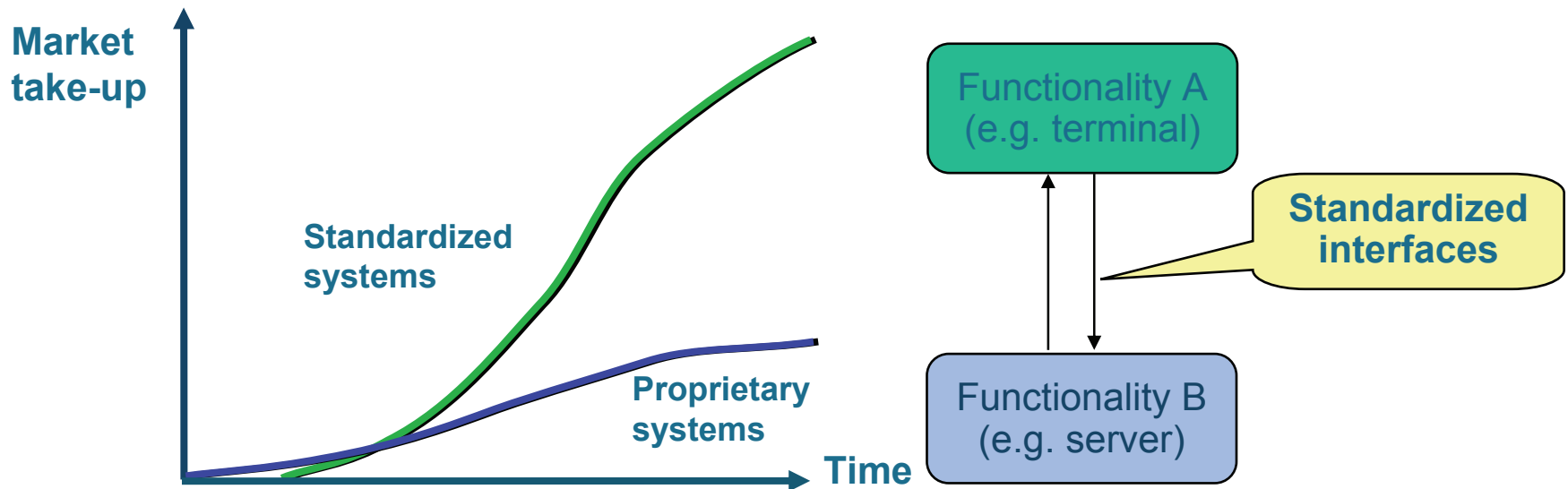
- **It is not sufficient to be innovative, or to master the innovation environment**

- **How to ensure first mover / innovative advantage is not wasted**

Trend: ICT is becoming THE enabling technology in many fields

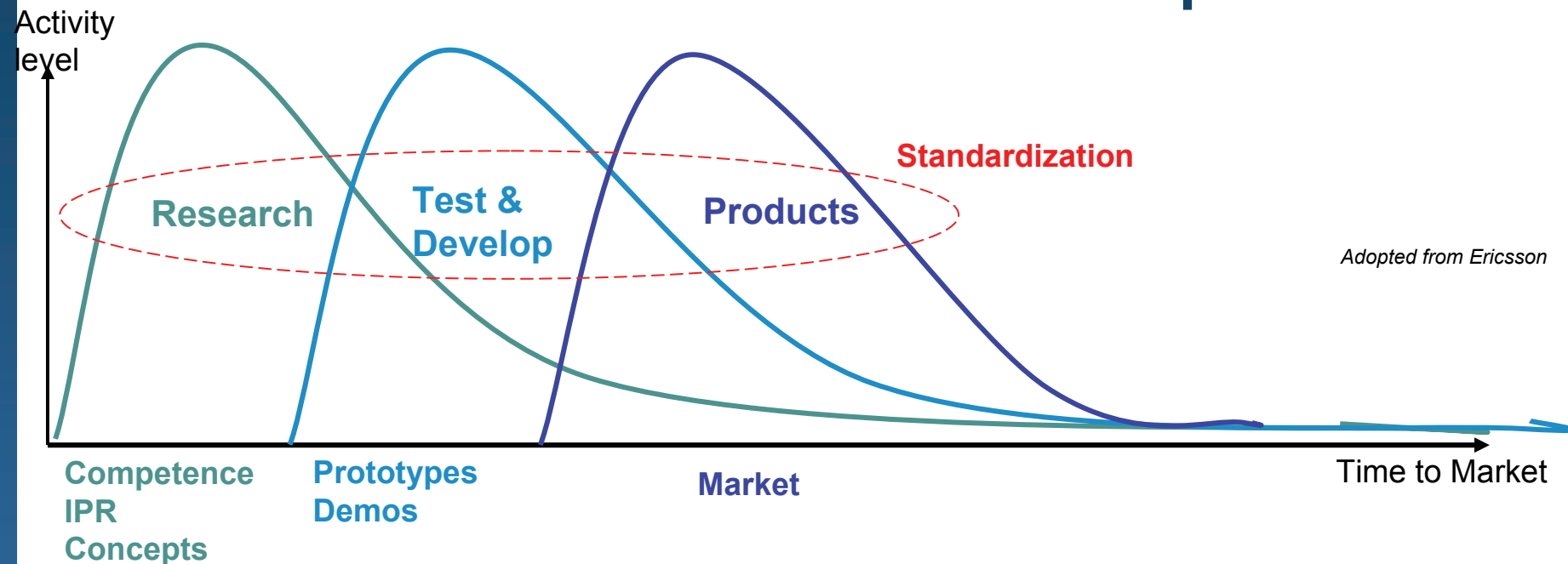
- Intelligent transport systems**
- Railway systems**
- Aeronautical, maritime products**
- E-Health**
- Industry automation (wireless factory)**
- Logistics (RF-ID, Internet of Things)**

Why work in standards? Enable growth and innovation



- First movers set the standards and use them to impose their market leadership
- Standardization is a main “market access tool”
- Participation in standardization offers competitive & market intelligence

Standardization is a business process



Adopted from Ericsson

Successful innovation needs to manage increasing 'overlaps' in business processes

-> closer link between research and standardization

Standardization offers a path to exploit R&D results

- Europe excels at collaborative R&D programmes: €53.7bn FP7 programme, of which €9.1bn on ICT. Also Eureka programme, and future Joint Technology Initiatives
- It is not enough to disseminate R&D project results into standards bodies as one-off submissions after they have been achieved
- Longer-term participation in standardization process is required
- Funding gap exists: Governments and industry

Closing the gap between Research and Standardization

- ❑ **The gap between research projects and standardization**
 - **Standardization can take time**
 - **Funding shortfall**
 - **Different objectives between R&D project and standards committee**
 - **Population differences**
 - **Too much choice of Standardization bodies**

- ❑ **What ETSI does**
 - **Reduce barriers to input from R&D projects**
 - **Incubator or pre-standardization groups for new topics: “ISG”**
 - **Improve visibility of R&D project impact on standards**
 - **Increased dialogue between ETSI and R&D community**
 - **Reduced membership fees**

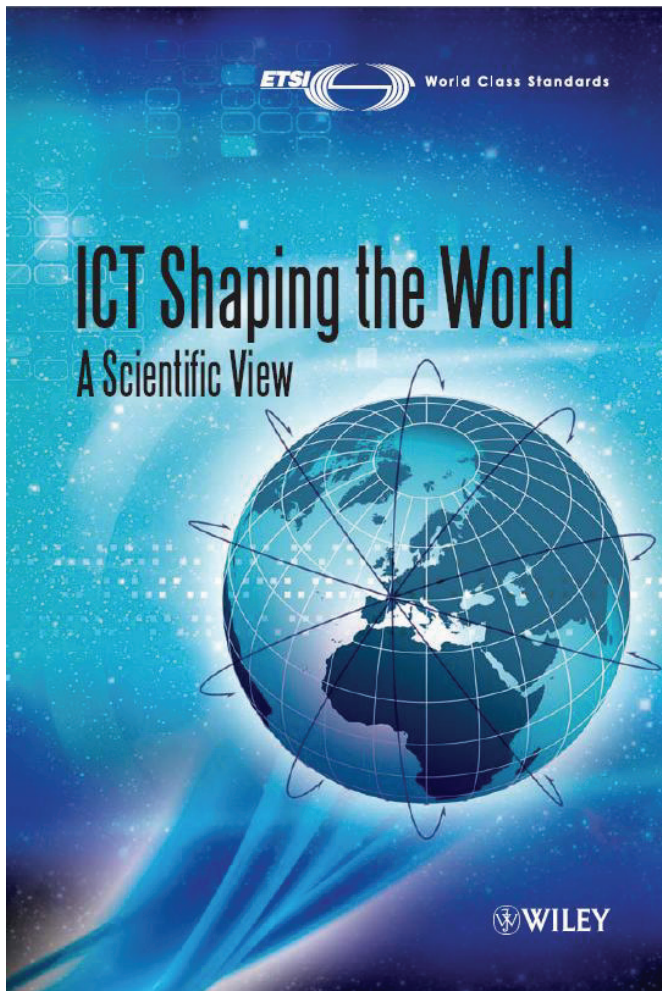
Co-operation ERCIM - ETSI

- ERCIM and ETSI have 5 years shared Grid technologies experience
- ERCIM and ETSI have already partnered in EU Project COPRAS
- Success story QKD (Quantum Key Distribution): 16 contributors, 8 specs in pipeline
- ETSI direct briefing for ERCIM project co-ordinators
- Close cooperation on FP 7 projects
- And the **Infinity** Initiative: 2009 on Bio-ICT (Virtual Physiological Human)

The **Infinity** Initiative

- ❑ **A series of envisaged joint ETSI / ERCIM events to include futuristic workshops, seminars and meetings aiming to strengthen the links between standardization and research and which have the support of the European Commission**
- ❑ **From ETSI point of view: a chance to ‘stretch’ ETSI to connect with new emerging ICT fields, for which we don’t yet have the right population, but for which ERCIM does**

ICT Shaping the World – A Scientific View



- ❑ Celebrating our 20th birthday
- ❑ 30 of the world's leading ICT scientific thinkers accepted to contribute
- ❑ 16 articles giving a state-of-the-art view
- ❑ Editorial board
 - **Prof. Michel Cosnard**
 - Dr. Keith Dickerson
 - **Prof. Keith Jeffery**
 - Prof. Gérard Pogorel
 - Prof. Ramjee Prasad
 - Dr. Alois Sieber
 - Dr. Walter Weigel



World Class Standards

HAPPY BIRTHDAY ERCIM!

**ETSI is looking forward to the next
success stories with you!**