



Federal Ministry
of Education
and Research

The role of ITEA 2 in the new German ICT strategy

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Examples for Innovation



Apple iPod nano from 2005

Philips EL3302A from 1968
weighs 1,1 kg

small, no moving parts, weighs 40g

Goals for my Directorate

- Innovation policy „of a piece“
- Tangible und politically visible results
- Excellent research
- Accept and master Big Challenges
- 2 others are
 - Focus funding – can't do everything
 - Benefit for Germany – and our friends

Visible Achievements of European Cooperation



Airbus A380

Current Situation: Cabling in Airbus by means of Cable Lists



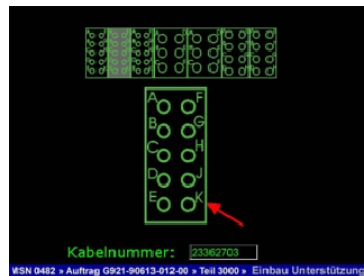
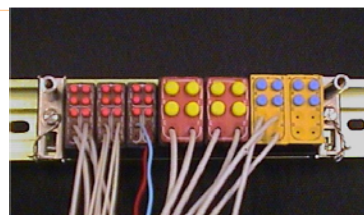
| ISSUE | DOK | RELEASENUMBER | INCORPORATED |
|-------|-----------|---------------|-----------------------|
| A | --047033 | ---- | UK32 |
| B | MP D42139 | ---- | UE55 |
| C | MP D43129 | ---- | UF59 |
| D | MP D42229 | ---- | UB70 |
| E | MP D43295 | ---- | UM22 |
| F | MP D42139 | ---- | BM D811355 BM D811388 |
| G | MP D43129 | ---- | UJ49 |
| H | MP D42229 | ---- | BM D811366 |
| I | MP D42229 | ---- | UJ53 |
| J | MP D42229 | ---- | UA00 |
| K | MP D43295 | ---- | UF85 |
| | MP D43374 | ---- | BM D815022 |
| | MP D47120 | ---- | UV68 |
| | MP D43129 | ---- | BM D817306 BM D817308 |

one application example of BMBF funded national project
ARVIKA

ITEA 2 Symposium in Paris, 6 October 2006

5

Possible Future: Cabling with support of Augmented Reality (AR)

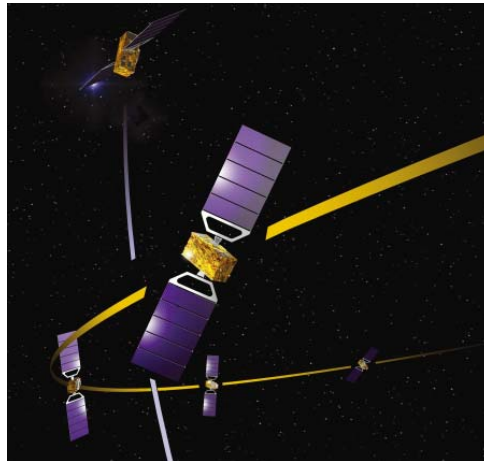


- voice input for cable number
- AR indication of plug at distributor
- acknowledgment of correct connection

ITEA 2 Symposium in Paris, 6 October 2006

6

Galileo Satellite Navigation



Claim: „Sparkling Ideas!“

- First national strategy on innovation policy
- 17 areas of technology and application
- Cross-sectional measures for the cooperation of science and industry
- Commitment for innovation-friendly general conditions and a positive innovation culture
- Innovation policy with a long-term perspective: High-Tech Strategy is a process

OLED Initiative (Organic Light Emitting Diodes)

- Optical Technologies are a motor for innovation and growth
- BMBF funds R&D in the area of OLEDs with 100 Million Euros in the next five years
- Participating industry will invest 500 Million Euro
- With public means we mobilize a multiple amount of industry means
- The OLED initiative is a brilliant example for the cooperation of science and industry

OLED Initiative (Organic Light Emitting Diodes)

Prototypes of
organic light
emitting diodes
by the Fraunhofer
IPMS



High-Tech Strategy - SWOT for ICT

Strengths

- Research landscape well networked
- EU with considerable market size
- Europe's electronics site No. 1: Cluster Dresden
- Infrastructure

Opportunities

- Growing markets (e.g. chip production)
- Applied research: use results of basic research
- Infrastructure: build next generation networks
- Dynamic IT market
- IT security

Weaknesses

- Few German Global Players
- Slow technology diffusion
- Large IT projects not always successful
- International standardization processes need to be improved

Threats

- IT industry more and more global, less and less in Europe
- Cyclic markets
- TK companies under pressure
- Vulnerability of information infrastructure

Topics of IKT2020 - still in discussion

- Embedded Systems
- IT Security and Reliability
- Human-Technology-Interaction
- Simulated Reality
- Multimedia
- Grid Computing
- "Internet of Things"
- Printed Electronics
- Innovation Cluster Dresden

Bring fields of application, e.g.

- Energy, Health, Traffic

together with current research topics, e.g.

- Software-intensive Systems
- Security
- Human-Technology-Interaction
- HPC, GRID
- Virtual / Augmented Reality, Ambient Intelligence



Project funding by means of innovation platforms



- Selected events
 - 15.-16. 01.2007: Starting conference for 7. EU Research Framework Programme in Bonn
 - End of January: IST Info Days (by KOM) in Cologne
 - 26.-27. 03.2007: European Conference on Security Research in Berlin
 - April / June: meeting of e-IRG Workshop / Delegates in Bonn / Heidelberg
 - 19.-21.06. 2007: EuroNanoForum in Düsseldorf

General

- Companies and Business act more and more internationally
- Common Market
- (Computer-Supported) Cooperation in Industry and Science increases

Standards

- Higher Efficiency e.g. by Reduction of Cost in Component Development
- Advantage of European Players against Overseas Competition
- EAST-EEA from ITEA good example
 - Main Enabler for AUTOSAR
 - 2001-2004, cost in D 19,1 M€, funding in D 8,3 M€

German ICT Strategy

- High Tech Strategy is now implemented
- IKT2020 will be announced at CeBIT 2007
- Setting Priorities

Relation to ITEA 2

- Excellent projects needed
- Tangible und politically visible results required
- BMBF will intensify engagement in ITEA 2

Thank you for your attention

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