

# 5th ITEA Symposium

October 7, 2004

## MEDEA+ Applications Technology Roadmap

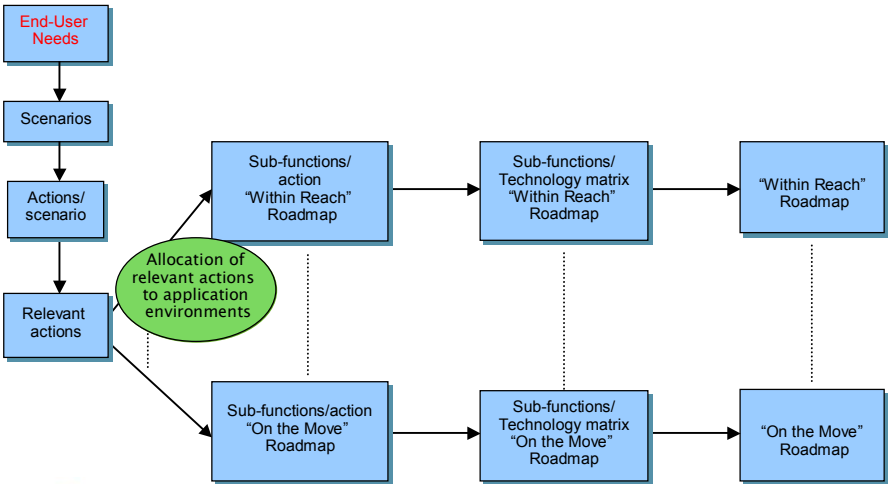
Jürgen Deutrich



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### Process Flow



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## List of end-user needs (EUNs) in 2012: Categories

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- Comfort
  - Culture & Entertainment
  - Education
  - Health
  - Human Interfaces
  - Information
  - Life Quality
  - Safety
  - Security
- Society Quality
  - Transport & Mobility
  - User friendliness
  - Energy
  - Communications

Sources: Literature, Workshops



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## List of end-user needs (EUNs) in 2012: Examples

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- Category: **Education**
- To have better education for children on how to live in a healthy way (food, sports, diseases, preventing diseases,...)
- To get state-of-the-art learning tools (get access to expert knowledge, ...)
- To get support from experts and peers for educating my children
- ...
- Category: **Health**
- To have his/her health monitored and cared for intelligently everywhere and at any time
- To have a device which checks ingredients of food, drinks,...
- To have comfortable wearable sensors to monitor health, etc.
- To use diet watching/monitoring devices

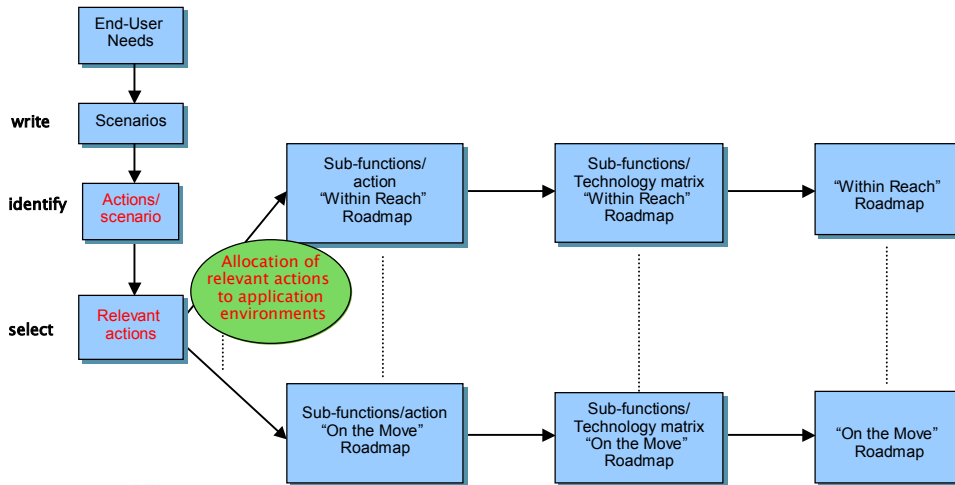


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## Process Flow



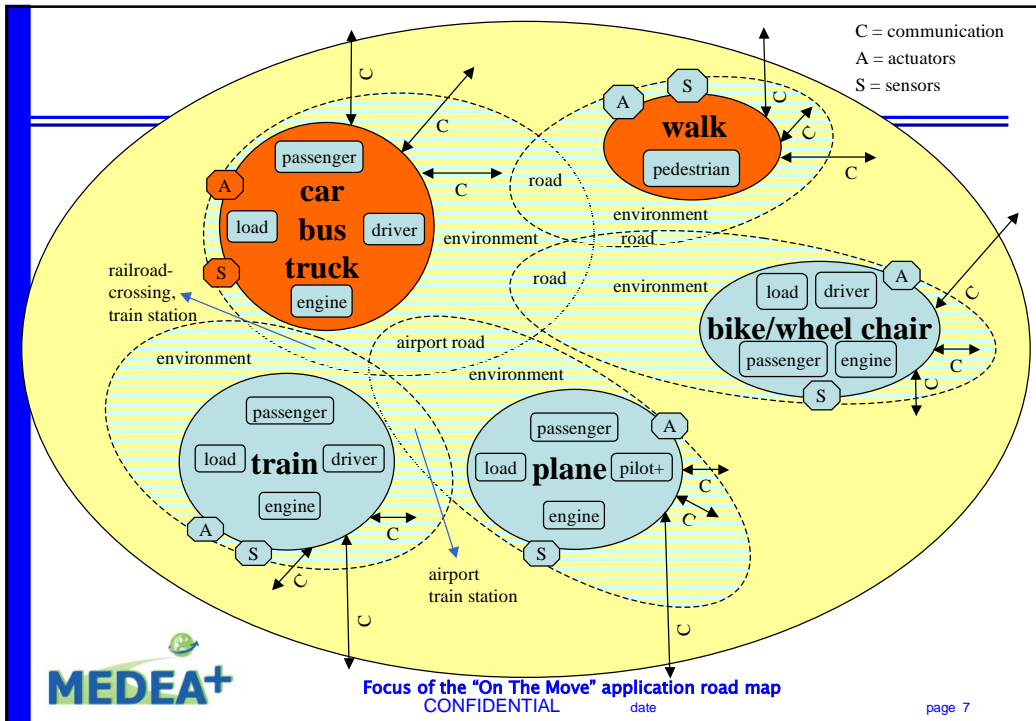
## Scope of the Applications Technology Roadmap

- Actually we are talking about four Roadmaps describing enabling technologies for Applications in 2012:

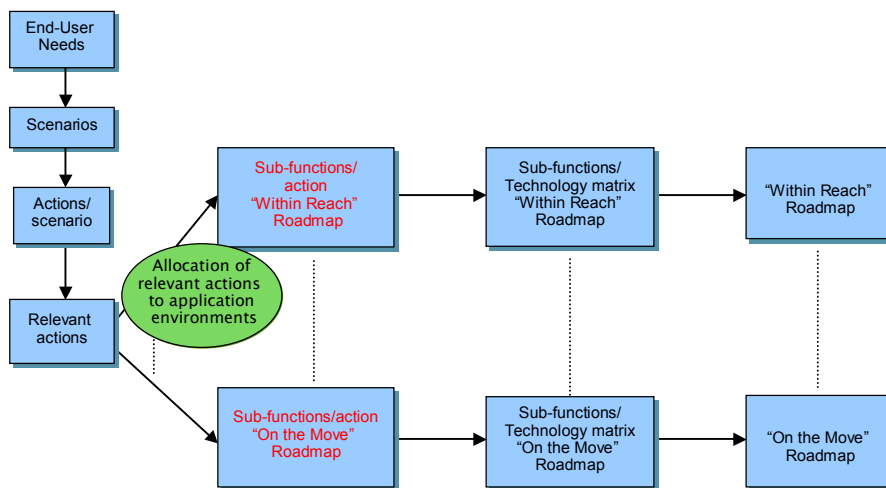
### 4 Applications Environments

- Within Reach (WiR)
- On the Move (OtM)
- Stationary (Sta)
- Common (Com)

- Each Roadmap subdivided into themes
- Decomposition of (sub)-themes into technologies
- Time order established via Backward Reasoning

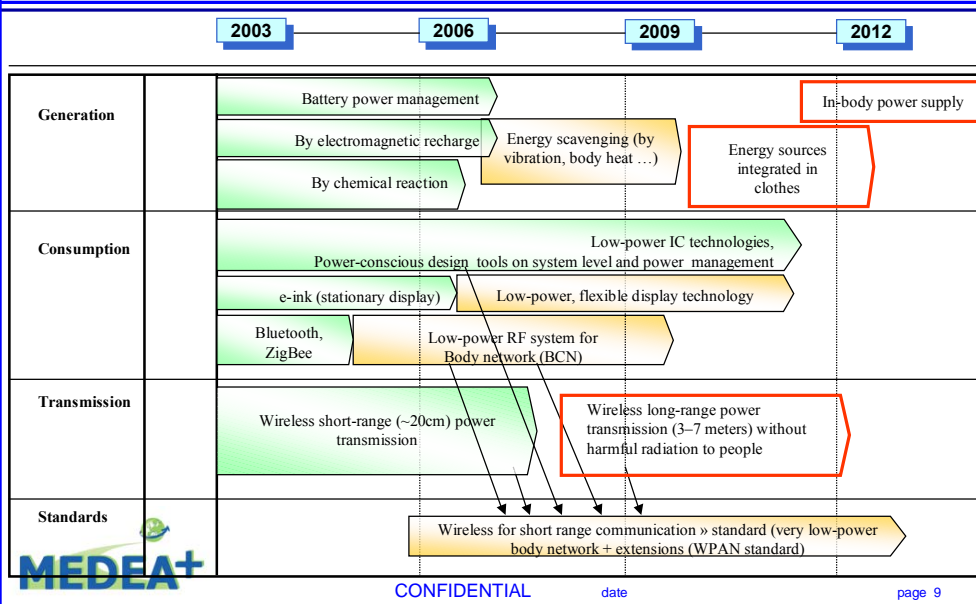


## Process Flow



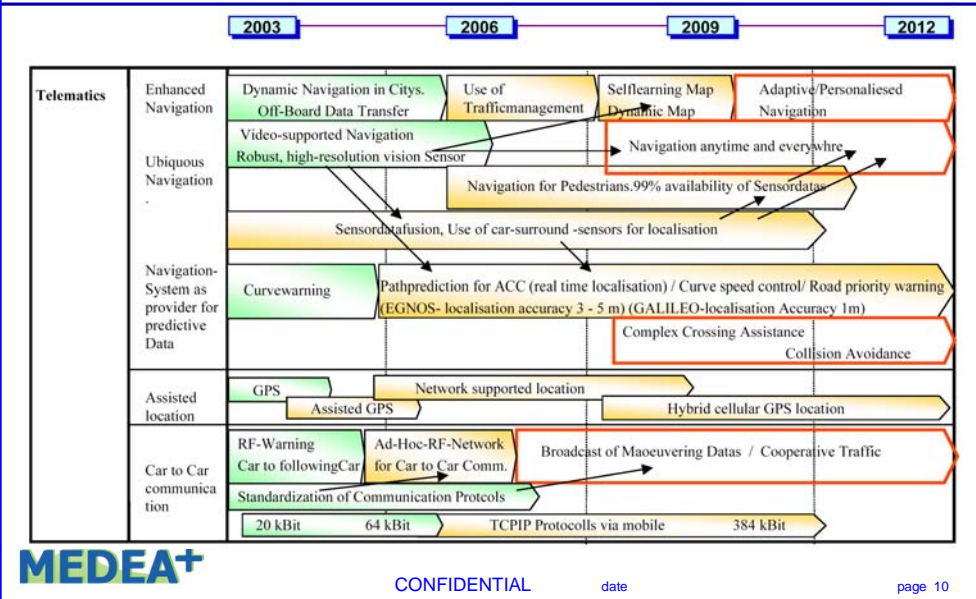
## Example: Visualisation of

## Within Reach – Energy

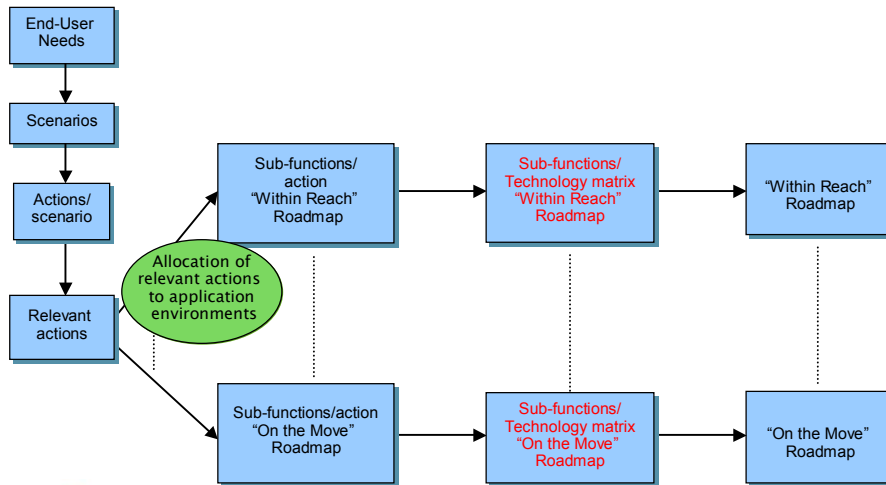


## Example: Visualisation of On the Move -

## Terminal for Infotainment/Multimedia



## Process Flow



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## Function–Technology Matrices, Example Within Reach

### **Function**

To communicate in a secure way the personal medical information between PxA and remote expert (system).

### **Technology**

Seamless communication infrastructure (inside/outside).

### **Technology Challenges**

1) End-to-end secure communication from doctor to sensor. It must be made sure that the information has been received and acknowledged (both by doctor and patient). Reliable handshaking is needed;

2) Medical database standard.



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# Results

