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# ***The eMobility SAA for Environmental Issues***

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# Outline



- eMobility
- The Working Group on Applications
- Environmental Issues

# eMobility ?



- eMobility is the European Technological Platform in the area of Mobile & Wireless Communications.
- Its major objectives are:  
*To reinforce Europe's leadership in mobile and wireless communications and services and to master the future development of this technology, so that it best serves Europe's citizens and the European economy.*

# Activities



- To establish a Strategic Research Agenda (SRA) for R&D.
- To develop a strategy for a growing involvement of sector actors.
- To establish links with related activities and sectors.
- To bring together national and local authorities.
- To establish peer-to-peer relations with Asian & American research programmes.

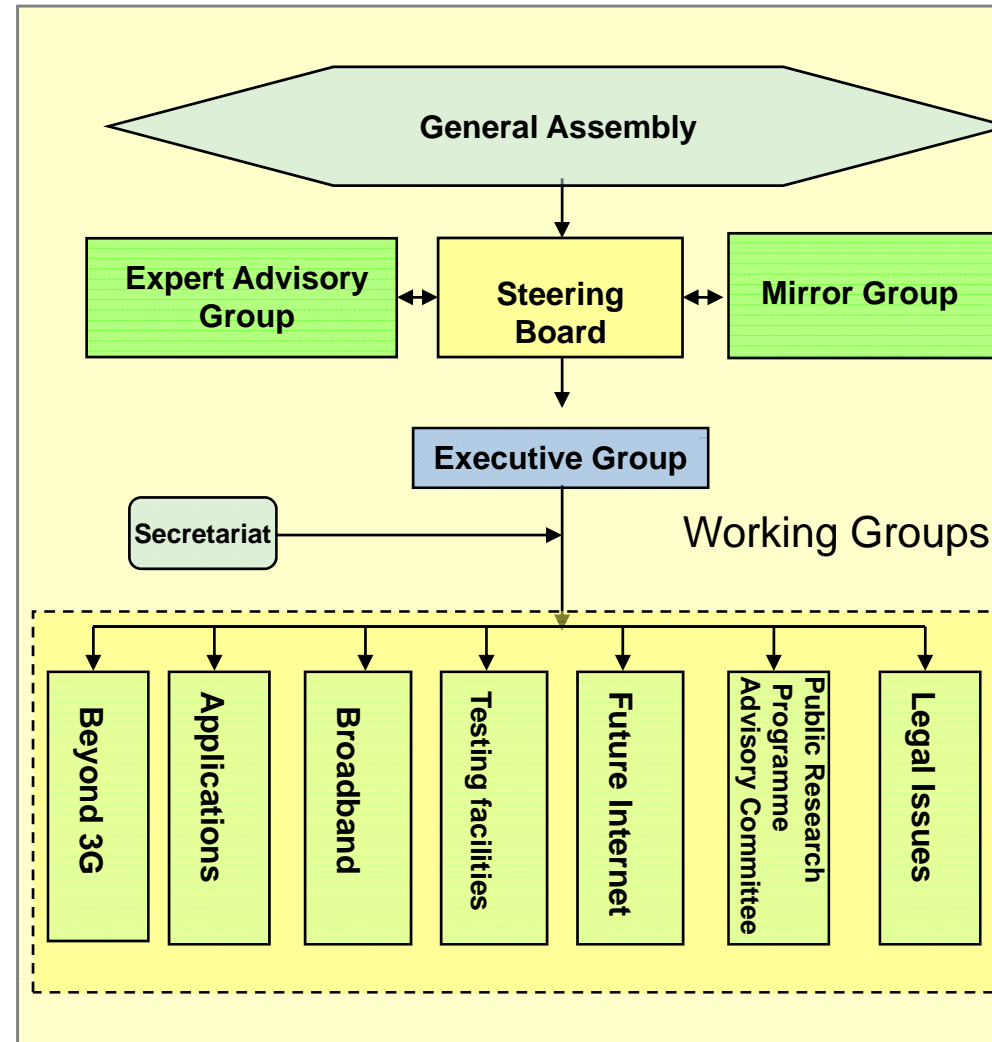
# Membership



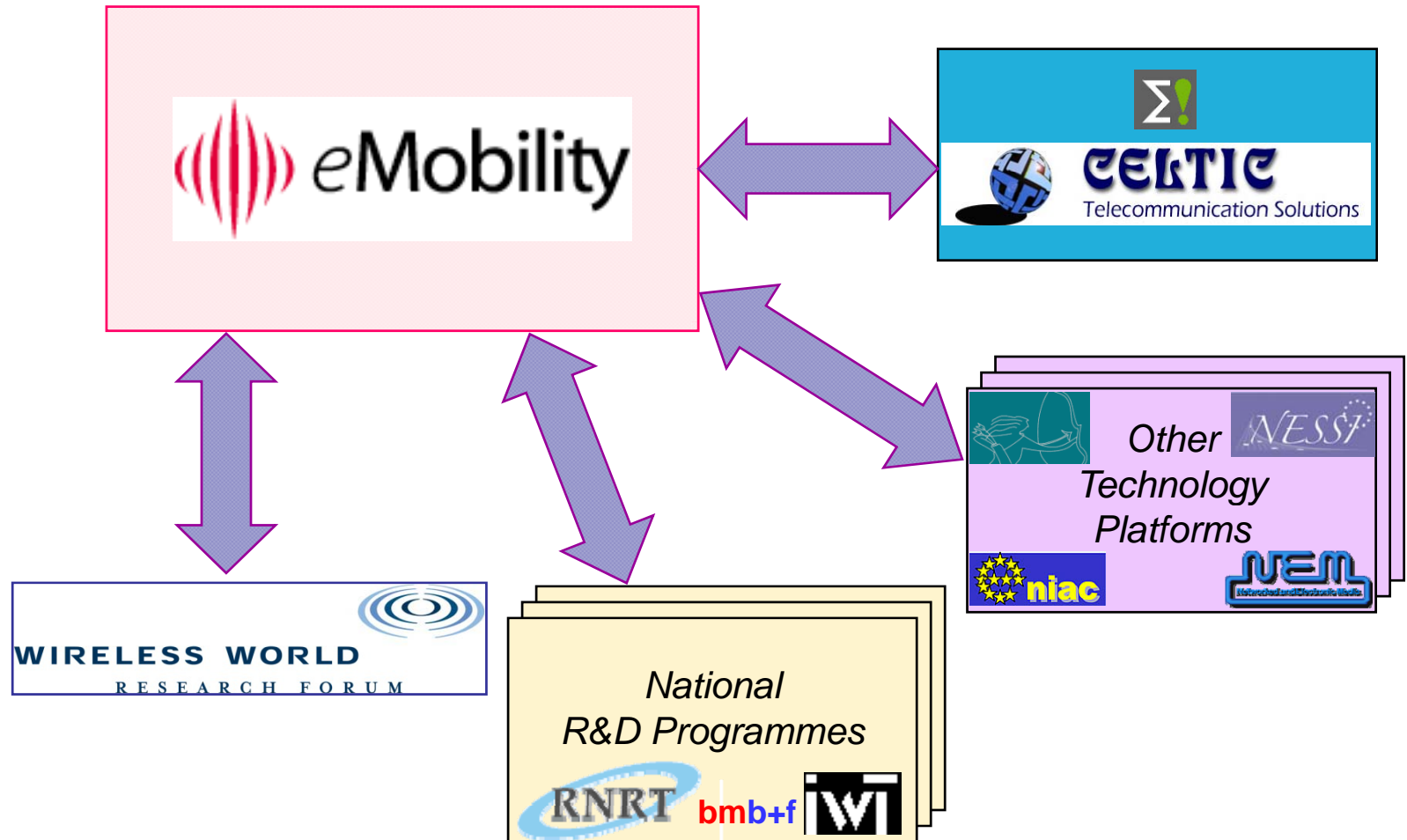
584 members:

- 121 industry
- 227 SMEs
- 205 Unis.&RCs
- 31 Liasons

# Organisation



# Links



# The Shared Vision



“Improving the **individual’s** quality of life, achieved through the availability of an environment for the instant provision of and access to **meaningful, multi-sensory information and content**”

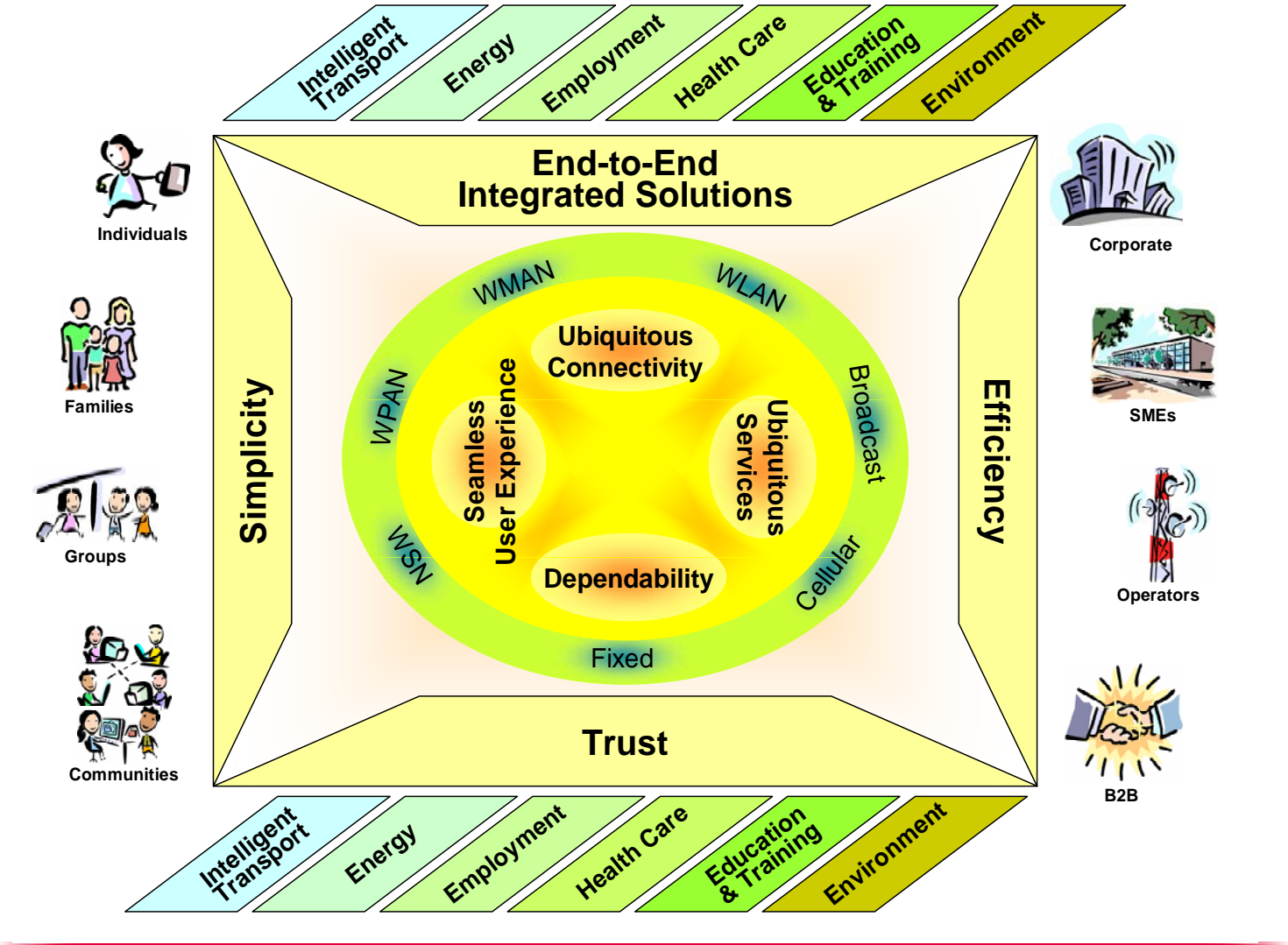
***Simplicity,***

***Efficiency &***

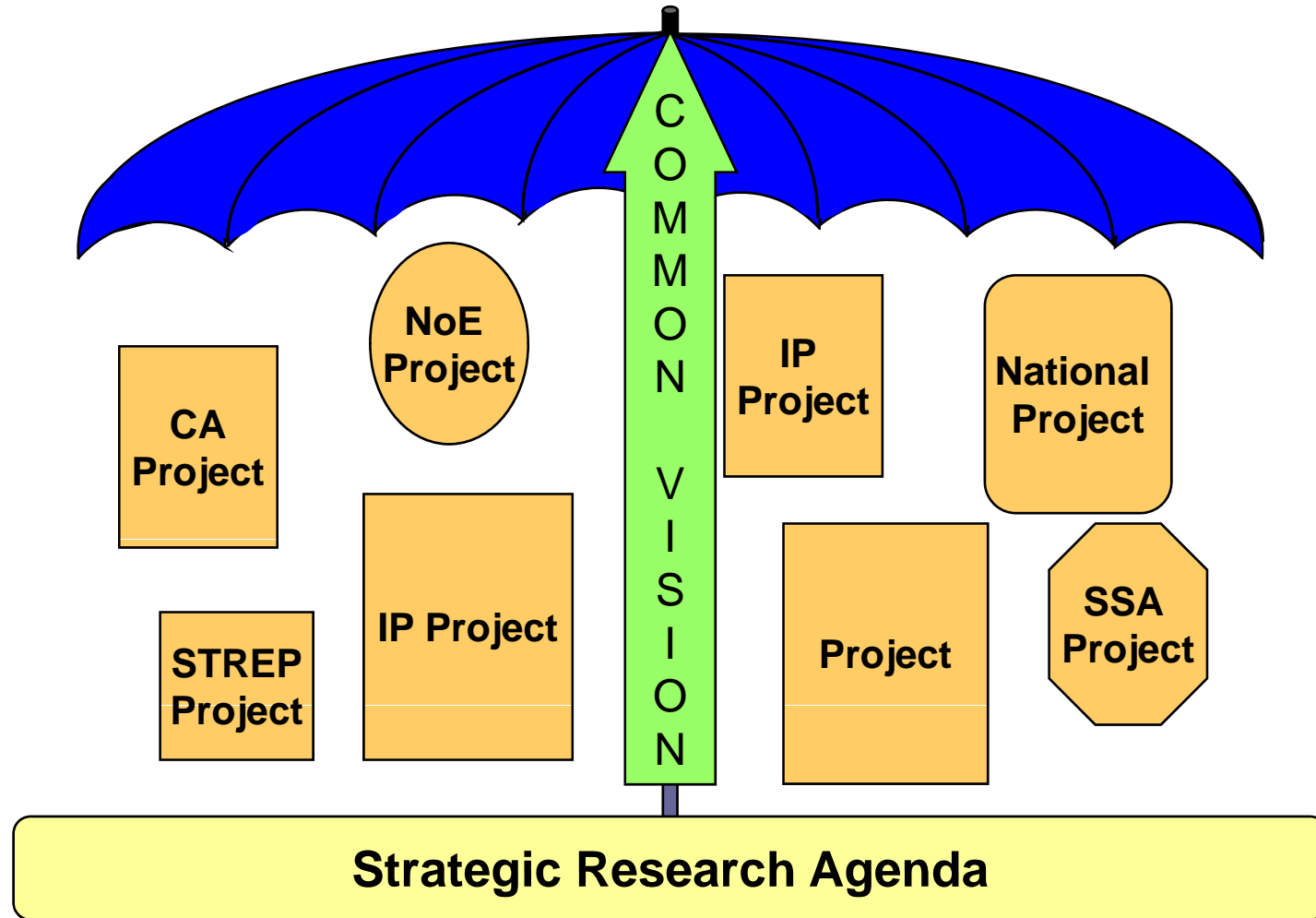
***Trust***



# Context



# FP7 Projects



# Objectives of WG on Apps.



- To establish further links between M&W Comms. and other areas.
- To find new applications for M&W Comms..
- To get disruptive ideas for R&D in M&W Comms..
- To gather further contributions to the SRA (Strategic Research Agenda).
- To establish an SAA (Strategic Applications Agenda).

# Focus



- The SAA (Strategic Applications Agenda) is focusing on:
  - Health & Inclusion
  - Transport
  - Environment
  - Future Internet
  - Enabling Technologies

# The Tasks



- The tasks are to:
  - “list” services and applications, and their scenarios;
  - analyse requirements and barriers;
  - get sector plans and discuss road map;
  - liaise with ETPs;
  - ...

# Topics



- In the area of Environment, the following topics have been identified:
  - Alarms;
  - Monitoring;
  - Efficient resources management;
  - Technology waste.

# Approach (1)



- The following items are addressed:
  - Application characterisation
    - Description
    - Utilisation
    - Components
    - Characteristics
    - Requirements
    - Traffic
    - Entities

# Approach (2)



- Technical Characteristics
  - Time dependency
  - Delivery requirements
  - Symmetry of the connection
  - Bit rate
  - Maximum transfer delay

# Examples (1)



- Volcano Early Warning Systems: *recognition of early signs of reactivation of magmatic activity.*
- Anti-Pollution System: *remote sensing system applied to oil-spill.*
- Climbing Robot: *deployment of sensors to remote parts of large structures.*
- Forest Fires: *integration of established and emerging technologies.*

## Examples (2)



- Environment Impact Assessment: *integration of an interactive system to support protection procedures.*
- Management of Inundation Risks: *increase of the rapidity and flexibility of access to information.*

# Opportunities



- New applications offer an opportunity for the usage of existing systems, and the development/integration of new ones, e.g.:
  - network of wireless self-supported cameras;
  - integration of wireless sensor networks into cellular ones;
  - real-time traffic management supported on cellular networks.

# Conclusions



- eMobility is a EU platform in the area of Mobile & Wireless Communications.
- The WG on Applications includes **Environment** as one of the focus areas.
- A Strategic Applications Agenda is being established.
- Contacts with colleagues outside the “communications world” are being sought.

<http://www.emobility.eu.org>