eMobility NetWorld

is a coordination action which will support the development of a consensus in Europe on the priorities for research addressing the challenges of the Future Internet and future networks in the context of networks underpinning solutions to the Grand Societal Challenges. The partners in the project are founders of the eMobility Technology Platform and are elected members of the eMobility Technology Platform Steering Board.

Main Objectives

Society is becoming confident that it can address the Grand Challenges of the 21st century: It can address global warming by taking decisive action, can invent and deploy innovative transport systems to reduce traffic problems and will be able to solve the issues associated with the ageing population. Smart applications enabled by advanced communication networks will be a centrepiece of many solutions offering the hope of a better world.

Communication networks have catalysed economic development in the emerging countries of the world – advanced, ubiquitous communication networks will now also spark a new wave of innovation and employment in the developed world – the Future Internet. The eMobility NetWorld project will establish a dialogue, building on the successful eMobility Platform, to identify the research needed on Future Internet issues to enable it to support smart applications needed by society. Connecting and communicating the value of the prioritised research topics to the needs of society is what the eMobility NetWorld project is all about.

The eMobility NetWorld project builds on the strength of the eMobility Technology Platform membership (currently over 700 members), the well known eMobility Strategic Research Agenda, the well established and successful eMobility Technology Platform working groups and the active liaisons with national and international programmes established though the Mirror Group, the Expert Advisory Group and the Steering Board. The wide-ranging membership of the Expert Advisory and Mirror Groups ensures broad support for our activities in the telecommunications and Information Technology sectors in Europe. See also the figure "Structure and Interactions of eMobility Networld" on page 2.

Networks bring applications to life!

New networks will be needed to support future communication needs.

Technical Approach

Technology related priorities will be captured in the Strategic Research Agenda. The key messages regarding the value of the proposed research to society will be identified and then professionally packaged as multi-media presentations. The messages will be addressed to key decision makers in Europe and in the international arena in both industry and politics through conferences, specific workshops and meetings, via an interactive web site and through the annual Future Network & Mobile Summit, which is sponsored by the project.

Key Issues

Support **consensus development** among stakeholders on the definition of the research required to develop the Future Internet, describing the resulting consensus in two editions of the Strategic Research Agenda, with a focus on the new issues of the convergence of fixed and mobile networks, including all optical networks, and on the scalability of the networking solutions in the light of anticipated dramatic traffic growth, in the consensus building activities,

Facilitate **collaboration** between the communications sector and the four key application sectors of health, energy, transport and environment, paving the way towards the development of European scale solutions to the societal challenges, through organising Expert Advisory Group workshops and technical workshops on the key issues,

Expected Impact

- The result will be a **broad consensus** on priorities, resulting in coordination of research activities and increased awareness of the priorities by key decision makers.

- An expanded **eMobility Strategic Research Agenda** covering new technologies for the Future Internet, road-mapping a range of technologies, a definition of the value of the research to society, and through the capturing the communications requirements of promising new applications in the areas of **health, energy, transportation and environment,**

- A widespread **provision of information to, and consultation of**, stakeholders on the research priorities for future communications systems, services and applications of the Future Internet through the work on the Strategic Research Agenda,

- **Consensus based white papers** reinforcing European industrial leadership in defining novel architectural concepts for the Future Internet beyond the current IP and, over time, bringing the discussion forward towards standards and the **commercialisation** of results,

- The establishment of a broad consensus in Europe on the priorities for communications research and its' value to society, leading to an **improved coordination of research activities in Europe**,

- Continued **mobilisation of the stakeholders** in industry and academia, and a

- Stronger contribution by the communications industry stakeholders to the **continued global leadership of the communications technology research by Europe**.
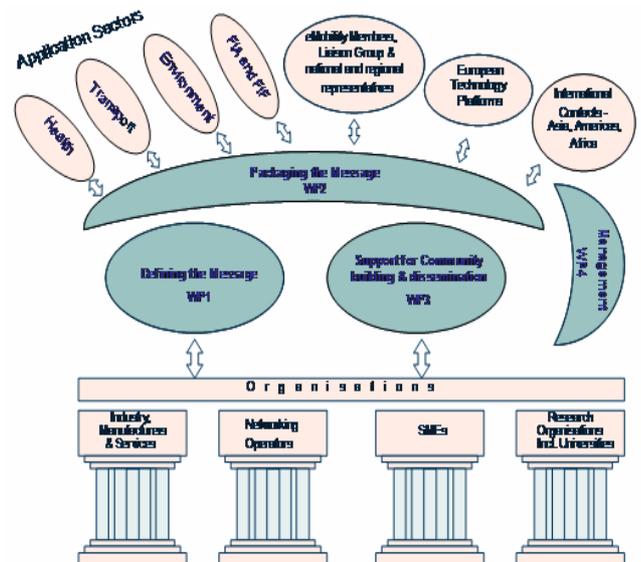

Figure: Structure and Interactions of eMobility Networld