

ISI Contributions to Preparatory Meeting of 22-01-2010 for FIA Valencia Event

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Session: “FI Reference Model”

Leader: Alex Gluhak (a.gluhak@surrey.ac.uk)

ISI Contribution: Satcom in support of Universal Access: Currently, more than 90% of households in Europe may access basic Internet. This number falls to less than 40% for the Internet broadband and less than 10% for the High speed internet broadband. This is far from the European goals. Given that the last percentage of households are the most expensive to connect, this demonstrates that Europe is facing a big challenge to reduce the speed divide which is likely to affect more than 10% of the European population (about 10 Million households) distributed over 40-50% of the territory. SatCom is and will remain the most cost efficient access technology in such low population density areas (e.g. < 50-100 inhabitants per km²) since it is able to aggregate traffic demand over a regional, national or even pan-European coverage. Besides, SatCom is the unique access technology able to provide broadband connectivity to vessels and aircrafts.

Session: "What can FI mean for Smart Energy"

Leader: Pierre-Yves Danet (pierreyves.danet@orange-ftgroup.com)

ISI Contribution: Satcom in support of smart energy grids: SatCom can contribute to implement a global and secure energy grid. In particular, it is well suited to optimise the efficiency of the global monitoring and black-out management in smart grid, hence contributing to secure the energy supply.

Session: “What does Future Internet mean for Smart Health?”

Leader: Paul Moore (paul.moore@atosresearch.eu)

ISI Contribution: Satcom in support of smart health-care systems: to assist patients under medical treatment in their homes and interconnect hospitals and medical teams in low density populated areas.

Session: “What does Future Internet mean for Smart Cities?”

Leader: Nick Wainwright (nick.wainwright@hp.com)

ISI Contribution: Satcom in support of Smart systems for transport and mobility (in the context of Smart cities): to alert about events (e.g. accidents, traffic jams, local bad weather conditions) impacting the traffic at regional level and provide guidance to the public and private transport resources, the travellers and decision making tools via fixed or mobile broadcast systems. Satcom can also support asset monitoring anywhere beyond terrestrial reach (low density populated areas, over seas) and hence ensure a permanent status report.

Session: “What does Future Internet mean for Smart environmental information systems?”

Leader: ???

ISI Contribution: Satcom in support of Smart environmental information systems : SatCom system are ideal to collect in a synchronous and real time manner, data from sensors deployed over a wide area (regional, national or continental), on board observation satellites or on board Unmanned Aerial Vehicles (UAV). They can, also be used to relay the collected measurements to the relevant users for the early detection of disasters and to provide alert and guidance services;