

ICT Changing the Global Village: Individual Life-Footprint

- A continuous, real- time measurement of an individual's impact or "footprint" on the environment and on their own lives
- Own life-styles are managed with new monitoring and decision-making technologies
- Future individuals are bound to be self-sustainable
- **Prosumers** able to produce own energy and manage all natural resources utilisation
- Individuals will have complete control on their life and trading; this can potentially happen at a global scale
- Environmental monitoring and sustainability
- A big market opportunity on networks, software, and services



Individual Life-Footprint

- Research Challenges
 - Modelling of Natural Resources use
 - Modelling life patterns
 - Massive data acquisition
 - Massive data into massive information
 - Massive information into exploitable knowledge
- Areas
 - Models and Simulation
 - Natural Sciences (Energy, Environment...)
 - Life Sciences (Bio, Medical...)
 - Networks
 - Hardware
 - Software
 - Data mining, semantics
 - Decision-making systems
 - Social networking
 - Services
 - ...

Individual Life-Footprint

- Encompass many existing ideas
- Needs
 - Federated effort
 - Involvement and prioritisation of several other domains
- Able to rally both European Academics and European Society into *Innovation*
- Attractive to EIT, Joint Programming, ...



Feedback

afonso.ds.ferreira@gmail.com