The European Research Facility for Ambient Intelligence for Quality of Life

Objective :

- Provide a durable research infrastructure for integrative research
- Identify and develop generic solutions.

Approach:

- Organise a network of research facilities for integrative research and experiments
- Feeding one or more facilities for real world experiments and evaluation
- Study the design, deployment, usage and impact of Information and Communication technologies on Quality of life.
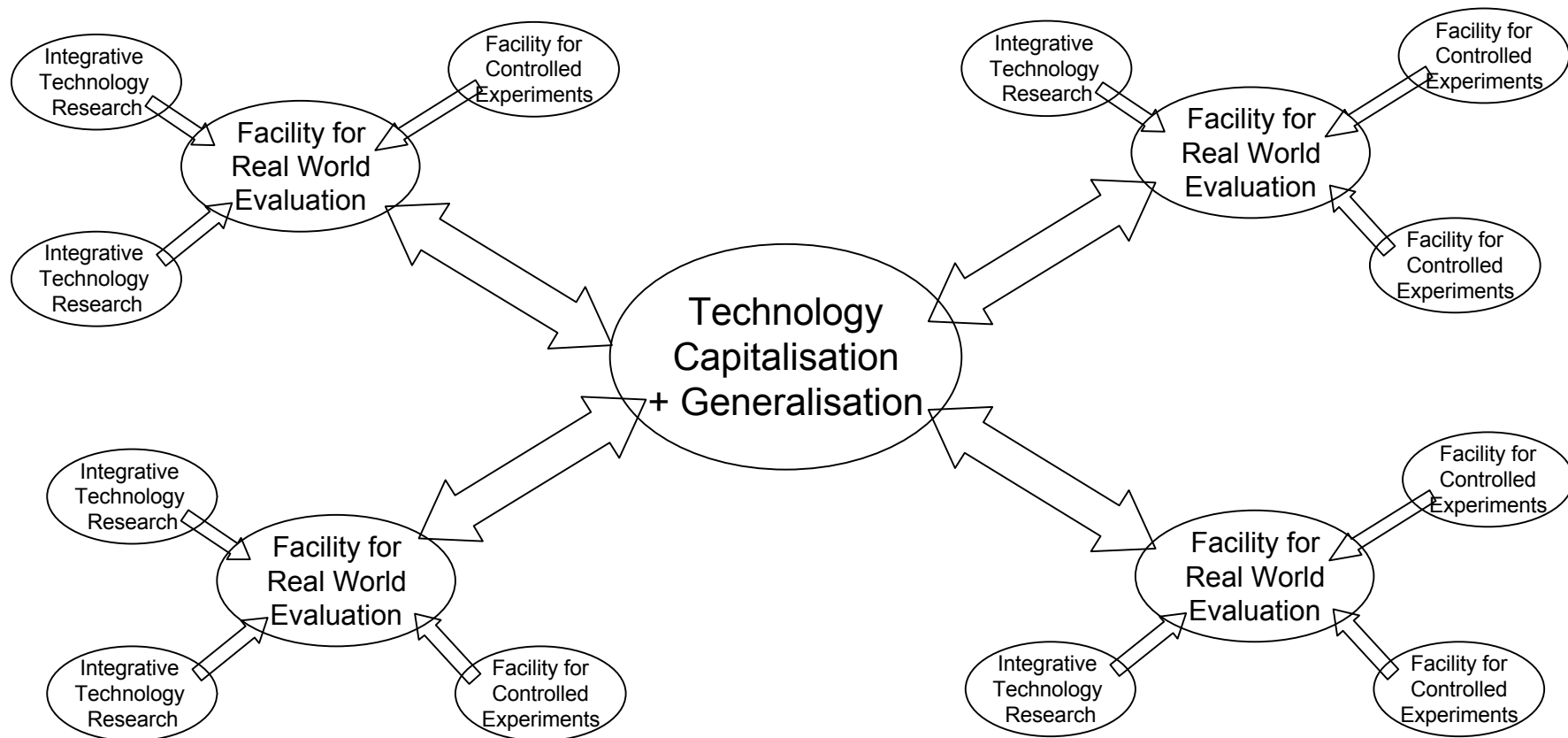
Actors :

- Public Sector : PRES Grenoble, U Nice, INRIA, CEA, CNRS, CSTB, PRES Toulouse, MSHST, CHU Toulouse, Centre e-santé Toulouse
- Etablissement privé d'intérêt collectif: Institut Claudius Régaud
- Industrial Groups : Orange Labs, Schneider Elec, EDF, AKKA informatique et systèmes, Astrium, Atos Origin, Pierre Fabre, Philips (NL), Ratier-Figeac, Sanofi,
- PMEs : GRILOG, Cluster Edit, Aeon-consulting, ARTAL-Technologies, INTESENS, Living Objects, Magellium, PôleStar, SADIR, SPIKENET Technology, UPETEC, Via Mobility, Workdesigners, Ysthme
- Pôles de Compétitivités et Collectivités Territoriales: Minalogic, Tennerdis, SCS, PICOM, CBS, AESE
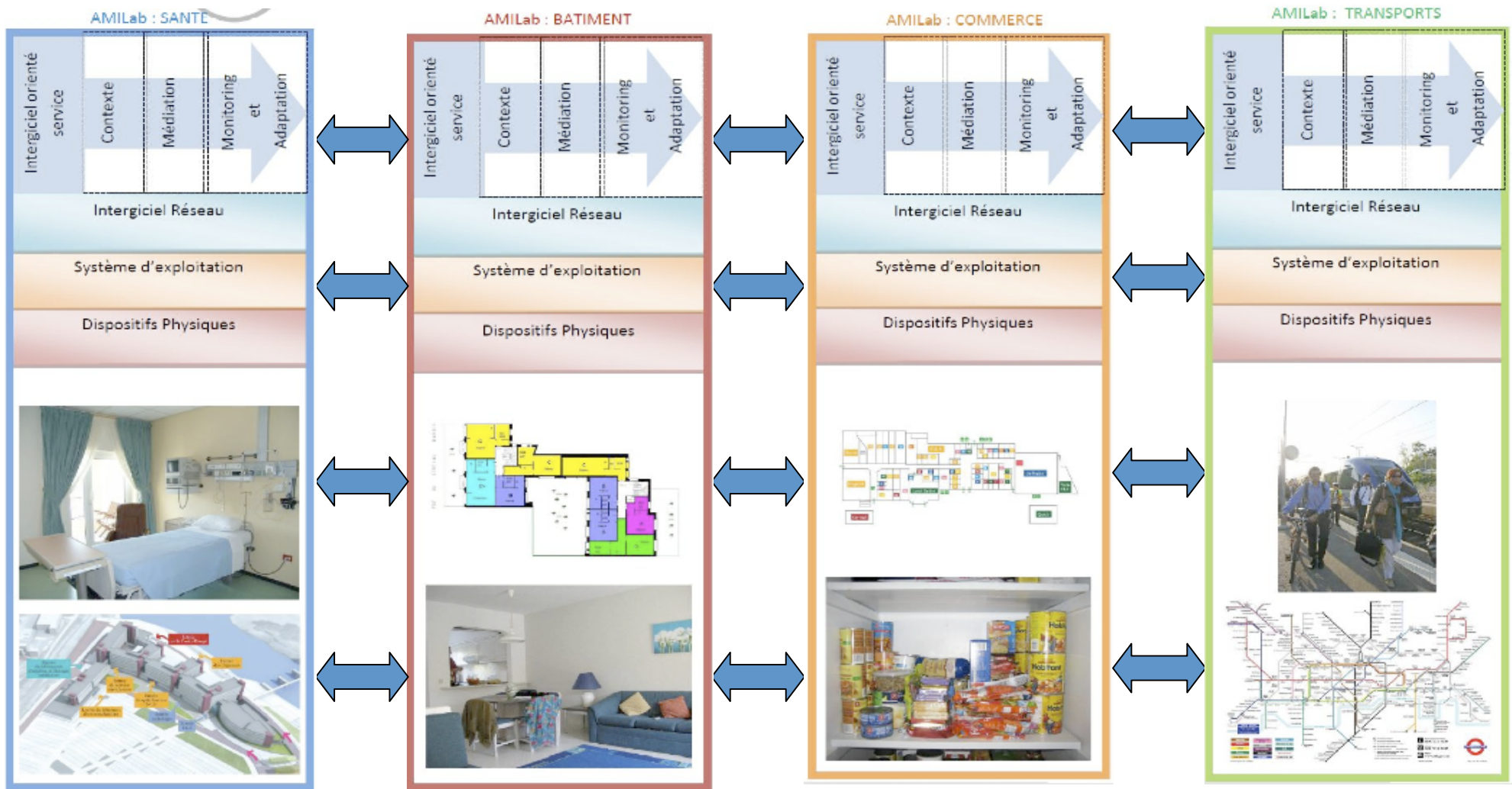
A network of facilities for
Integrative Research and Evaluation

Each site is composed of :

- A network of facilities for integrative research and evaluation
- A facility for real world experimental evaluation

AmiLabs Research Facilities

The European Research Facility for Ambient Intelligence for Quality of Life

Vertical integration and evaluation facilities for systems and services on
- Smart Habitats
- E-Health and Homecare
- Commerce of the Future
- Ambient Campus

Horizontal development of enabling technologies and scientific challenges
- Sensors and actuators
- Sensor networks
- Middleware
- Autonomous Systems and Services
- Human Computer interaction.
- Usability and Usages

Support Actions for
- Management,
- Dissemination,
- Ethics and legal issues,
- Exploitation and valorisation,
- Formation,
- *New Business Models?*

Facilities for Integrative Research
Addressing Societal Challenges

Program	Name	Leaders
IP 1	Systems and Services for Smart Habitats • Comfort and Energy • Family Cohesion • Home Security and Personal Safety • Interaction and User Programming • Personal Robotics	James Crowley (GINP, INRIA) Jean-Yves Tigli (U Nice) Alain Zarli/Alain Alfonso (CSTB) David Daney (INRIA) Francois Bermond (INRIA)
IP 2	E-Health and HomeCare • Coordinating Healthcare services • Actimetry • Social Interaction • Security • Medical Robotics • Quality of life in hospitals	**MP Gleizes, IRIT, Toulouse** Michel Devy (LAAS) Anne Decq (CHU Toulouse) Vincent Rialle (TIMC-CHU Grenoble) P. Daynes (TASDA) Bertrand Jouves (LEREP)
IP 3	Commerce of the Future	**David Symplot-Ryl (INRIA)** Michel Banatre (INRIA) Valerie Issarny (INRIA) Nicolas Roussel (INRIA)
IP 4	Ambient Campus	**Isabelle Demeure, Telecom-ParisTech** MP Gleizes, IRIT, Toulouse Pascal Salembier, UT T

Scientific Research Challenges

Program	Name	Leaders
SP 1	Sensors, actuators and devices	**Pierre-Damien Berger (CEA LETI)** Christine Sénac (IRIT - SAMOVA) Françoise Loze (LAAS)
SP 2	Sensor Networks	**David Simplot-Ryl (INRIA Lille)** Bernard Tourancheau, (INRIA Grenoble) Christine Sénac (IRIT - SAMOVA) Françoise Loze (LAAS) Arnaud Lecerveau (CEA-LIST)
SP 3	Middleware	**Jean Yves Tigli** / Michel Riveill / (U. Nice) Isabelle Demeure (Telecom ParisTech) Matthieu Roy (LAAS) Valerie Issarny (INRIA) Philippe Merle (INRIA Lille) Jean-Paul Arcangeli (IRIT - SMAC) Jean-Michel Bruel (IRIT - MACAO)
SP 4	Perception, Action and Robotics	**Michel Devy / Rachid Alami (LAAS)** David Daney (INRIA Sophia) James Crowley (INRIA Grenoble)
SP 5	Human-system Interaction	**Joelle Coutaz (Univ. Grenoble)** Pascal Salembier (UTT) Gerard Bailly (Gipsa Lab) Rémi Bastide (IRIT - IHCS)
SP 6	Activity and Context Modeling	**Patrick Reignier / Gaelle Calvary (U Grenoble/LIG)** Max Chevalier (IRIT - SIG) Valérie Camps (IRIT - SMAC)
SP 7	Autonomous Systems and Services	**Marie-Pierre Gleizes (U. Toulouse)** Francois Bremond (INRIA Sophia) Patrick Reignier (INRIA Grenoble)
SP 8	Societal impact, Usage, Measures for quality of life	**Pascal Salembier (UTT)** Vincent Rialle (TIMC) Daniel Llerena, UPMF Catherine Gucher, UPMF

Support Activities

Common to all platforms

Program	Name	Participants
Sup 0	Project Management	James Crowley (INRIA, Univ Grenoble) Joelle Coutaz (Univ. Grenoble)
Sup 1	Capitalisation	Stéphane Ubeda (INRIA) w/Isabelle Demeure (Paristech)
Sup 2	Ethics, Deontology and legal issues	Vincent Rialle, CNR Jean-Jacques Lavenue, U. Lille2
Sup 3	Dissemination and Valorisation	INRIA, CNRS GRILOG, Industrial Partners
Sup 4	Formation	James Crowley (Univ Grenoble)
Sup 5	Acceptability and Usages	Remi Bastide (U. Toulouse) Pascal Salambier (UTT) Joelle Coutaz (Grenoble U.) Nicolas Roussel (INRIA)