Second Workshop of the Networking initiative for ICT related projects
10-11 Sept. 2010, Varna; Golden Sands Resort

SEVENTH FRAMEWORK PROGRAMME

Empowering Romanian Research on Intelligent Information Technologies

Project in FP7-REGPOT-2010-1

Faculty of Automatic Control and Computers
University POLITEHNICA of Bucharest

Prof. Adina Magda Florea

ERRIC

About us

- Founded in 1818, **University POLITEHNICA of Bucharest** is the oldest and the largest technical university, amongst the most prestigious universities in Romania.
  - 24,000 students are studying at Bachelor, Master, and Ph.D. level
  - Houses 37 Research Centres
  - Comprises 15 faculties
  - Has co-operation agreements with 74 universities from Europe, America, Asia and Africa

Faculty of Automatic Control and Computers

- Offers undergraduate and graduate programmes in **Computer Science** and **Systems Engineering**

http://www.acs.pub.ro

- **3300** Bachelor, Master and PhD students
- **150** faculty members
- **3** Departments
- **3** Excellence Research Centers: **NCIT**, **ACPC**, **CIMR**

Faculty of Automatic Control and Computers

- The **mission of A&C** is the strategic combination of **education**, **research** and **innovation**, which are keys to achieving a knowledge based society and economy
- **A&C last 5 years in figures**
  - More than 200 ISI papers
  - More than 100 R&D grants (national and international)
  - More than 100 international PC memberships
  - More than 50 PhD graduates (about 20% in joint coordination)

A&C Main research competencies in Computer Science

NCIT : National Center for Information Technology

- **Artificial intelligence and multi-agent systems**
- **Large scale distributed systems**
- **Grid computing**
- **Semantic and Social Web**
- **E-learning**
- **Pervasive computing**

A&C Main research competencies in Systems Engineering

APCC : Center of Automatics, Process Control and Computers

- **Intelligent control systems**
- **Optimization techniques**
- **System modeling and signal processing**

CIMR : Center for Research in Industrial Informatics, Materials Engineering and Robotics

- **Robotics and flexible manufacturing**
- **Artificial Vision systems**
- **Neural networks and fuzzy control in robotics**

ERRIC Project

Empowering Romanian Research on Intelligent Information Technologies

- Project number: **264207**
- Call (part) identifier: **FP7-REGPOT-2010-1**
- Funding scheme: **Coordination and support action**
- Area: **4.1.Unlocking and developing the Research Potential of research entities established in the EU´s Convergence Regions and Outermost regions**
- Name of the coordinating person: Adina Magda Florea
- Project duration: **36 months**
- Start date: 1 September 2010
- Total cost: **2,994,404 Euro**
- EC contribution: **2,670,010 Euro**

ERRIC: Aim

- Leverage, support and further develop the existing high quality human and material resources of A&C with the goal of achieving international recognition for the Faculty as an outstanding unit of research excellence in selected areas of **Intelligent Information Technologies**:
  - **agreement technologies**
  - **semantic and collaborative technologies for the web**
  - **advanced grid technologies & large scale distributed system services**
  - **adaptive intelligent control**

ERRIC: Objectives

Strengthen Core Research Excellence

- Strengthen the research and technological innovation capacities of A&C in the above mentioned areas of IIT
  - produce more than **60 high quality scientific papers** on IIT
  - hire **6 experienced researchers** and an **experienced research manager**
  - develop a new Laboratory of Ambient Intelligence
  - **upgrade the HPC resources** to reach an estimated performance in benchmarking of 2 TFlops.

ERRIC: Objectives

Strengthen Core Research Excellence

- Reinforce the A&C research potential by supporting and mobilising human resources through **132 trans-national two-way secondments** with 11 partnering organizations from 5 EU countries
- Establish an ambitious research agenda and the Roadmap of A&C RTDI
- Improve A&C's ability to respond to **ICT related socio-economic needs** in Romania and Europe

ERRIC: Objectives

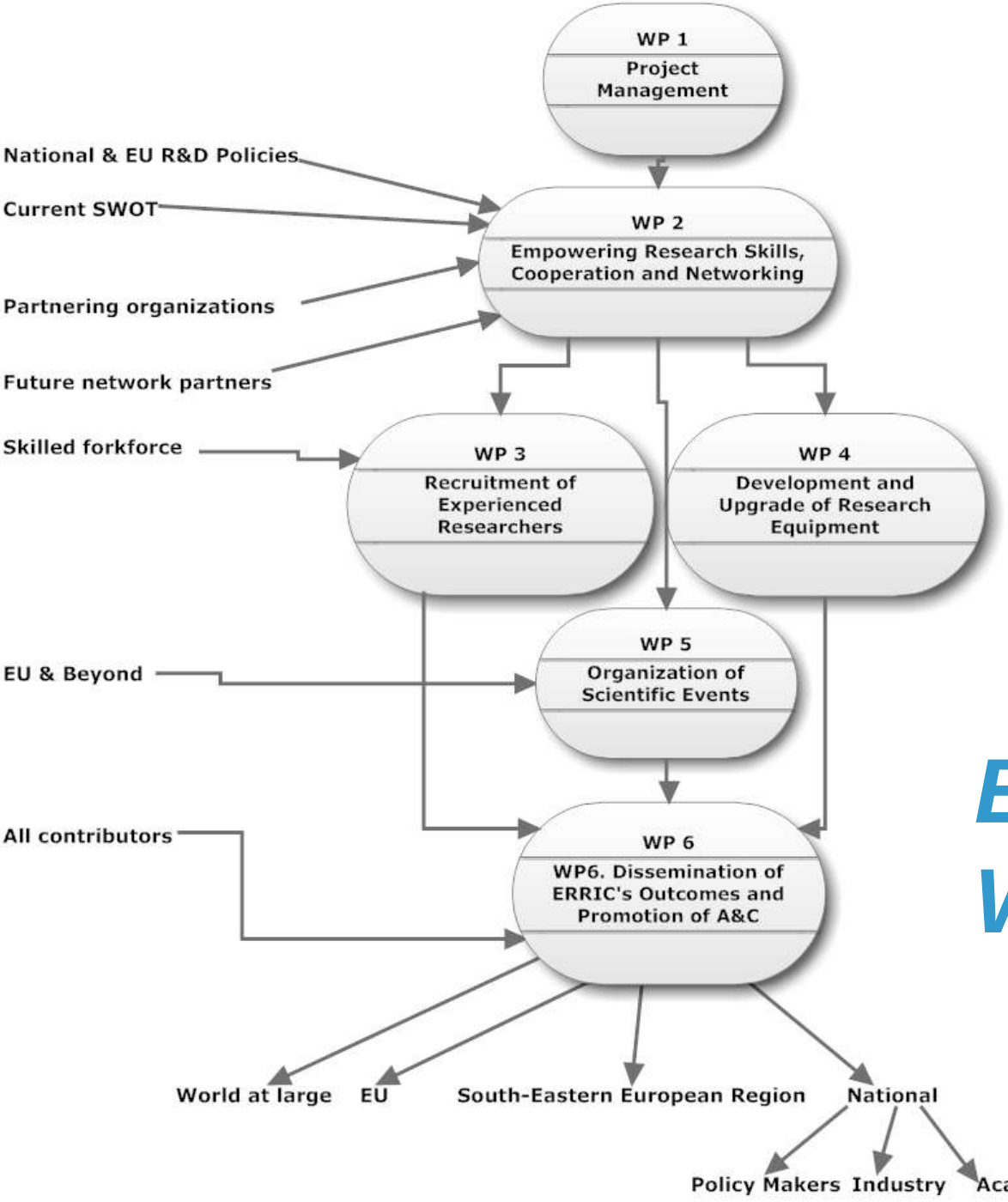
Networking, Community Building and Strategic Partnerships

- Make A&C an international gateway to access IIT research results through **ERRIC Knowledge E-Environment** and **ERRIC portal**.
- Establish strategic partnerships and wide-ranging collaborations between A&C and high excellence research units across the EU.
- Build the capacity of A&C for a better collaboration with **high tech companies** towards **valorisation of high potential research results**.

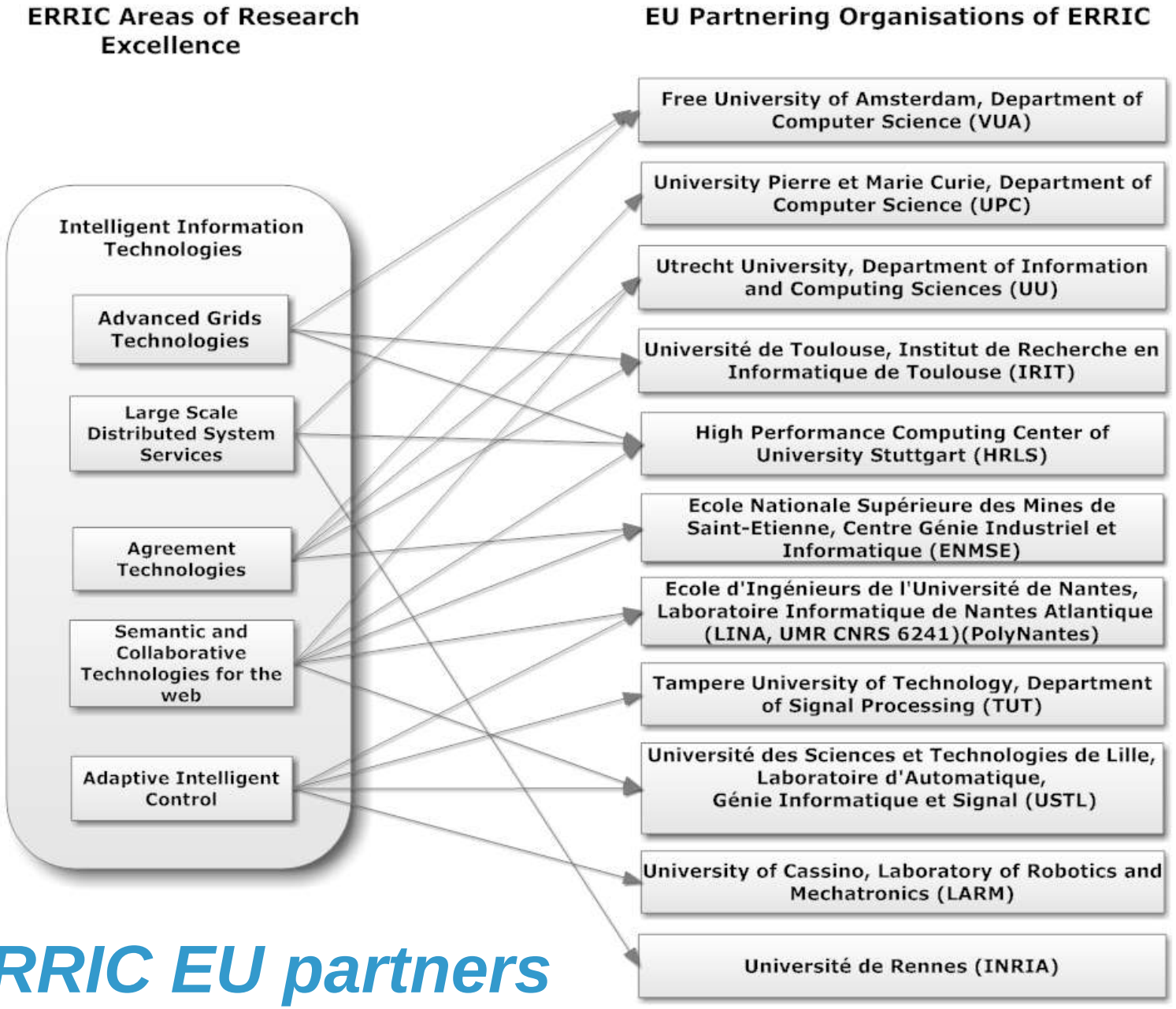
ERRIC: Objectives

Promotion, Visibility and Dissemination

- Organize **18 quality scientific events** and **4 dissemination events** for knowledge sharing and network building
- Promote A&C scientific research excellence and increase its visibility at European level through the **dissemination, promotion and awareness plan and package**.

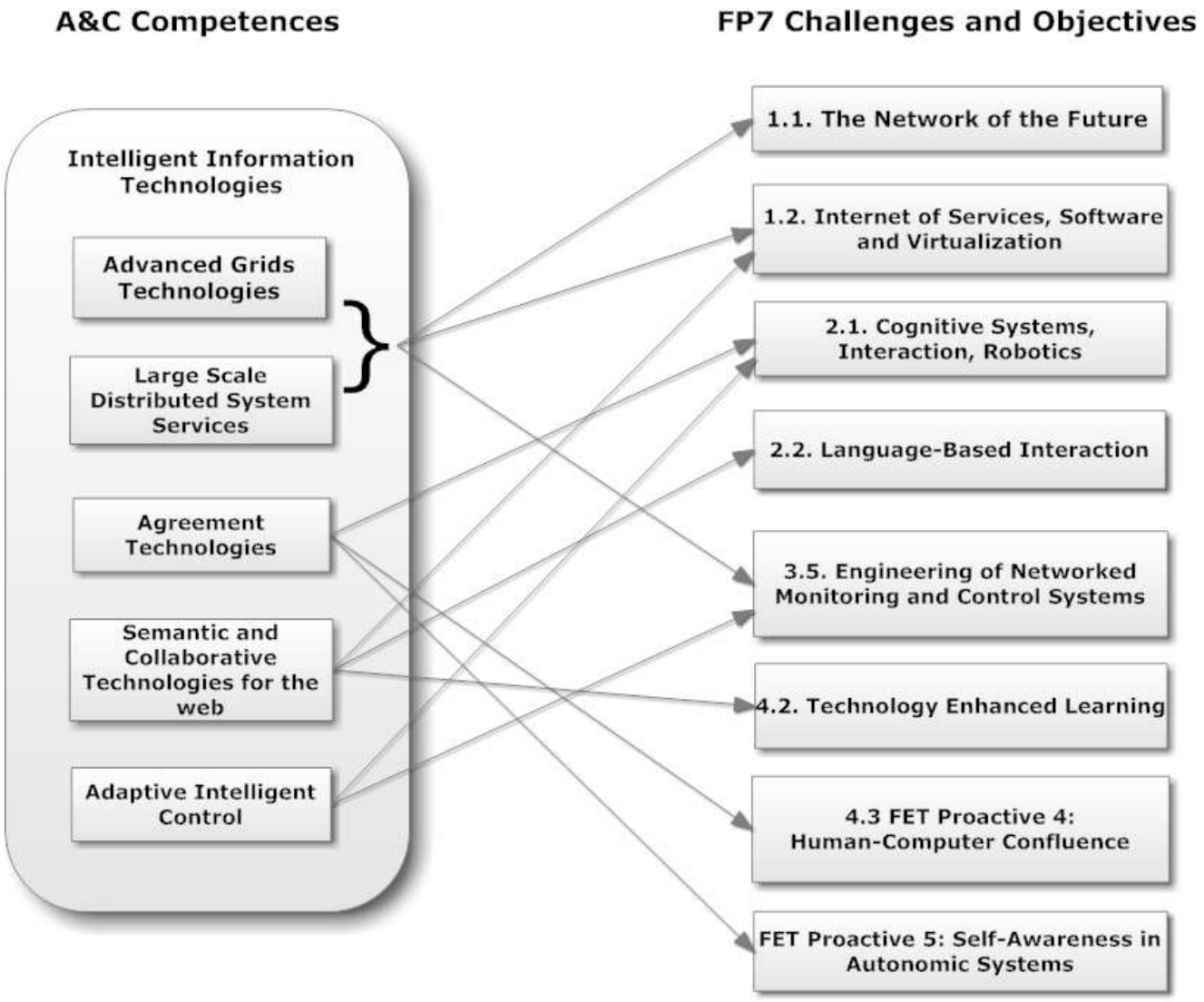

WP 1
Project Management
National & EU R&D Policies
Current SWOT
WP 2
Empowering Research Skills, Cooperation and Networking
Partnering organizations
Future network partners
Skilled forkforce
WP 3
Recruitment of Experienced Researchers
WP 4
Development and Upgrade of Research Equipment
WP 5
Organization of Scientific Events
EU & Beyond
All contributors
WP 6
WP6. Dissemination of ERRIC's Outcomes and Promotion of A&C
World at large
EU
South-Eastern European Region
National
Policy Makers
Industry
Academics

ERRIC WPs



ERRIC EU partners

ERRIC areas of research in connection with FP7



Challenges

- Find the best experienced researchers to be hired
- Ensure high quality and consistent participation to organized scientific events
- Enhance and enlarge networking with R&D entities in Romania and EU
- Build a strong international scientific community in IIT based on ERRIC outcomes and results
- Leverage the existing scientific and technical cooperation with well known companies working in the domain of ICT and advanced control, and achieve innovation and technological transfer

Sustainability

- A&C Innovation and Technological Transfer Office
- A&C Brokering Events
- Join scientific and professional networks
- Project proposals for national calls, e.g., structural funds, including transnational partners
- Join existing or future consortia in FP7
- Marie Curie Action Initial Training Networks (ITN)
- Marie Curie Action Industry-Academia Partnerships and Pathways (IAPP)
- Marie Curies Co-funding of regional, national and international programmes (COFUND)
- The South East Europe Transnational Cooperation Programme