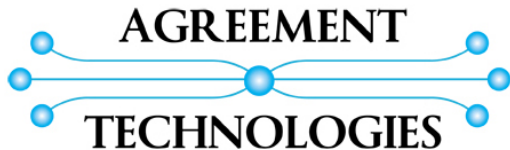


Carles Sierra

Agreement Technologies

www.agreement-technologies.org



Objective

Large scale open distributed systems

Key issues

- Autonomy
- Interaction
- Mobility
- Dynamic topologies
- Semantic mismatches
- (dis)Trust

Methods and techniques

- Negotiation
- Argumentation
- Decision making
- Knowledge modelling
- Virtual organisations
- Planning
- Learning

New programming paradigm

- Normative context definition with AT
- Call-by-agreement

New programming language/New OS

Approach

- Formal methods: logics, information theory, game theory, data mining
- Software tools
- Applications: eProcurement, mHealth, mWater

Context

- Ubiquity, Delegation, Intelligence
- Global computing
- Semantic web
- Web services
- P2P
- Grid
- Web 2.0

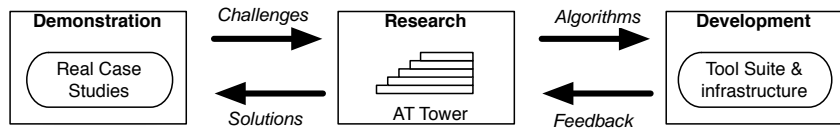
Fundamental research

- Semantics
- Resource management
- Dynamicity
- Adaptability
- Workflow
- Composition
- Scalability
- Security
- Usability

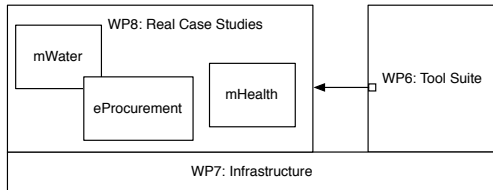
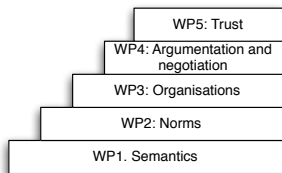
Applied research

- Algorithms
- Methodologies
- Toolbox
- Case study: eProcurement
- Case study: mHealth
- Case study: mWater

Overall picture



Implementation plan



Meeting's goals

- Know each other!
- Organise teams
- Organise DoW
- Plan future meetings
- Discuss ideas

Thank you for your attention!