

# **E-Planning**

from a Systems and Technology  
perspective

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# **E-Planning**

## **from a Systems and Technology perspective**

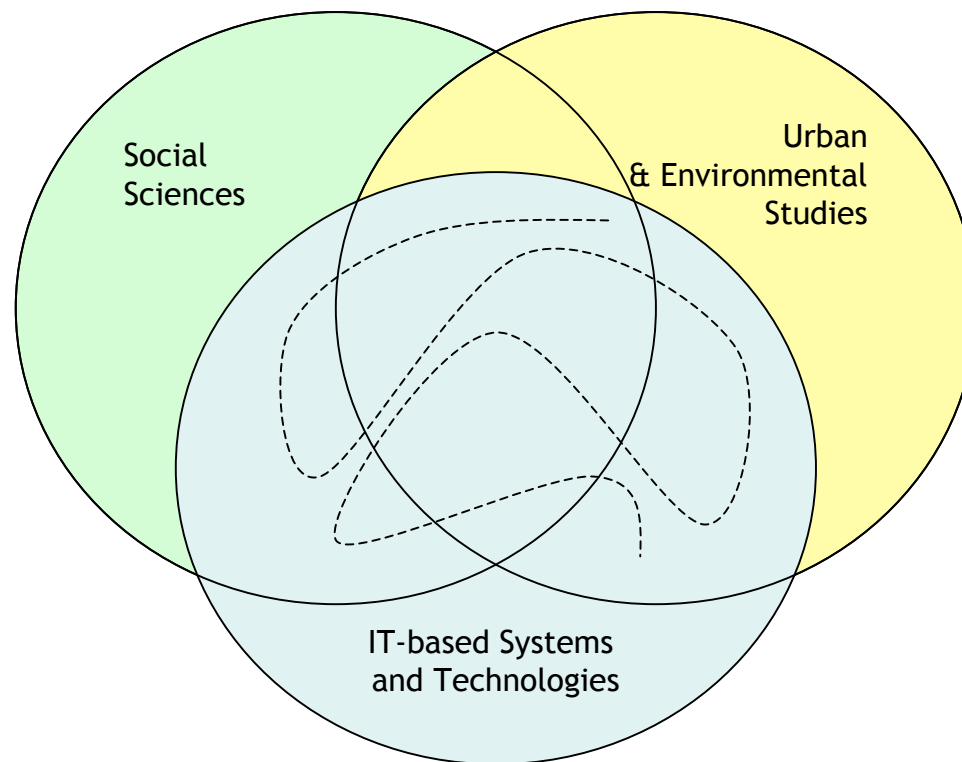
### **The Systems and Technology perspective**

#### **Quantitative and Qualitative Methods and Tools for Analysis, Planning and Decision in Large Scale and Complex Societal Problems**

- Including contributions from (R&D units & Departments)**
  - Computer Science and Technology,**
  - Statistics and Operations Research,**
  - Geographical Engineering, Geophysical and Energy Systems,**

# E-Planning

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# **E-Planning**

## **from a Systems and Technology perspective**

### **Topics and scientific foundations**

- **Decision and Negotiation Support Systems,**
- **Information Repositories and Data Mining,**
- **Mobile Computer Supported Cooperative Work,**
- **Modelling and Optimization,**
- **Social Systems Simulation**
- **Geo-based Information Systems**

# Reference Programmes @ FCUL

- **EU 7th Framework Programme – 30+ on-going participations (in all domains)**
- **USA-Portugal Cooperation Initiatives**
  - **MIT Portugal Program – Sustainable Energy Systems**
  - **CMU Portugal Program – Information and Network Security and Mathematics**
  - **UTA Portugal Program – Mathematics and Entrepreneurship (in development)**
  - **UCB Portugal Program – Environment and Climate Change, IT (under assessment)**

# (Samples of [previous] R&D activity)

- **Mobile Collaboration in Socio-Technical Systems (small scale)**
- **Negotiation and Facilitation Tools and E-Voting systems**
- **Computer-based Visualization and Simulation of Land Resources**
- **Simulation of Environmental Hazards (e.g. Tsunamis)**
- **Earth Observation**
- **Transport, Energy and Telecom Network Optimization and Modelling**

# Sample Research & Advanced Teaching Opportunities in the e-Planning initiative

- **Research Initiatives**
  - **Mobile Collaboration**
  - **Visualization and Decision Support Tools applied to Planning**
  - **Spatial Systems Modelling and Optimization**
- **Advanced Training (PhD) on**
  - **IT-based Collaboration and Negotiation**
  - **Spatial/Geo-based Observation**
  - **Fundamental Optimization and Modelling**