

# Manfred Bortenschlager

## FP7 Discussion

@ WISTP'07, 8-11 May, Heraklion



## Introducing ...

... **The Mobile and Web-based Information Systems Group (MOWI)**

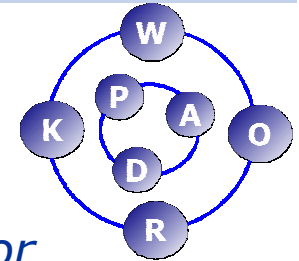
... **Current Projects**

... **MOWI's Profile (Our Expertise)**

## **MOWI:** **Mobile and Web-based Information Systems**

- | Focus on the improved **provision of information to mobile users**
- | Design, implementation, and evaluation of information systems for **mobile/pervasive environments**
- | Main research areas
  - | Location-based services
  - | Mobile, geographic IS
  - | Mobile collaboration & coordination
  - | Recommender systems
  - | Pedestrian navigation
  - | Tour optimisation & routing

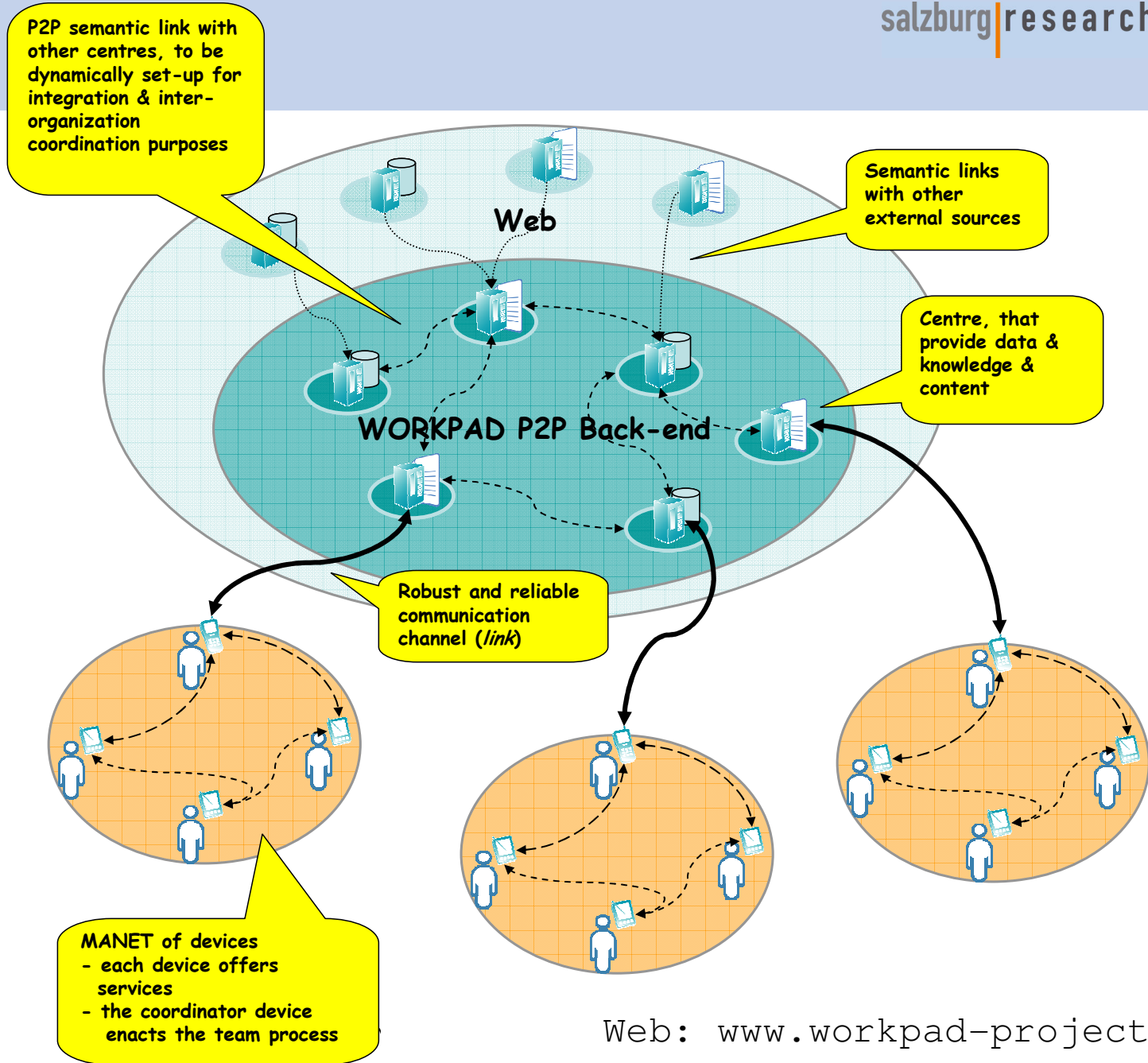
## WORKPAD (FP6 STREP)



- | *An Adaptive Peer-to-Peer Software Infrastructure for Supporting Collaborative Work in Emergency Scenarios*
- | Supporting collaborative processes of human emergency operators
- | Fostering inter-team and inter-organisational coordination
- | Equipping operators with portable devices communicating through ad hoc networks
- | Support through an integrated knowledge base in the back-end
- | Ranked among the first 3 over 145 proposals in Dec./Jan. 2006 😊

## Research Topics

- | **Two-level framework** based on P2P concepts for mobile environments
  - | Front-end and back-end
- | **Lightweight and adaptive** (context-sensitive) process management
- | **"GeoCollaboration"** – collaboration supported through delivery and presentation of geographic data (i.e., digital maps)
- | **MANET** protocols and **prediction** algorithms



## WORKPAD Partners

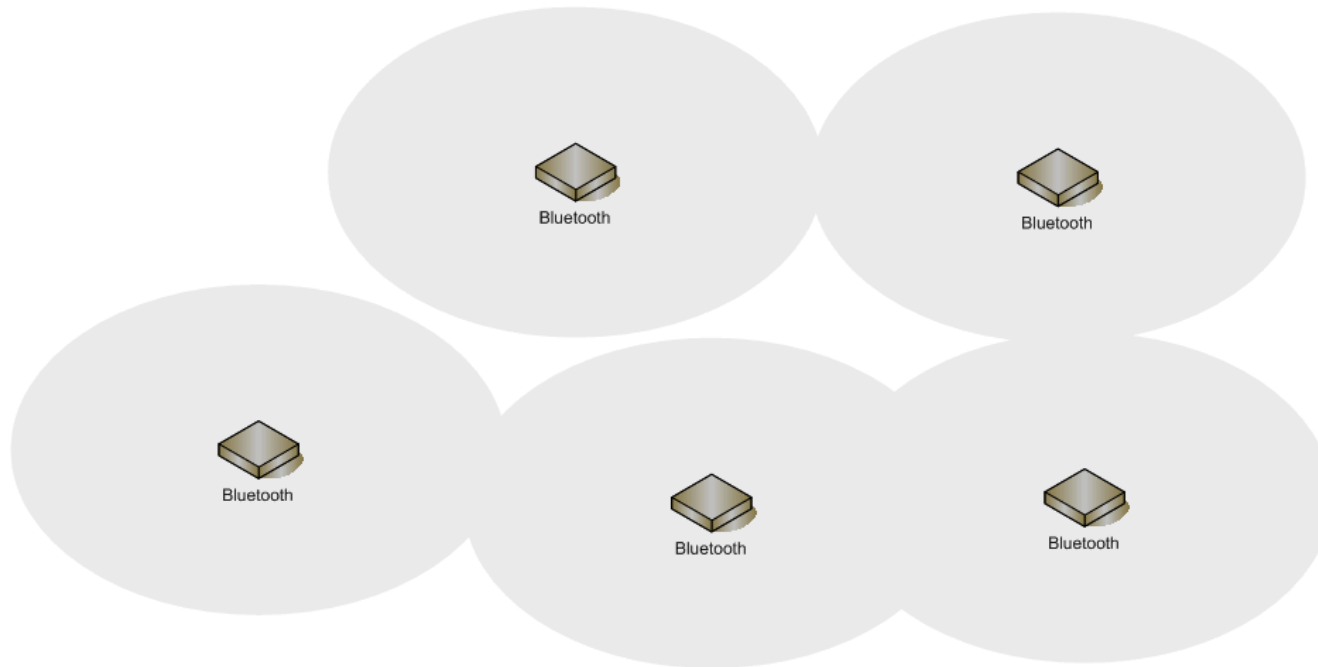
- | Università di Roma LA SAPIENZA, Italy (COORDINATOR)
- | Università di Roma TOR VERGATA, Italy
- | IBM Italia – Center for Advanced Studies, Italy
- | APIF Moviquity S.A., Spain
- | Software602 A.S., Czech Republic
- | Calabria Region – Homeland Security Department, Italy
- | Technical University of Vienna, Austria
- | Salzburg Research, Austria

## BlueDragon

- | Ubiquitous information platform
- | Delivery of any kind of information to people in mobile environments
  - | Application examples: (sport) events, emergencies etc.
- | Entirely based on P2P and wireless transmission technology
- | Dynamic service deployment by using OSGi standard
- | Example
  - | Implementation of a ubiquitous conference voting service at the UbiComp07 conference (Innsbruck, 18-19 Sept.)

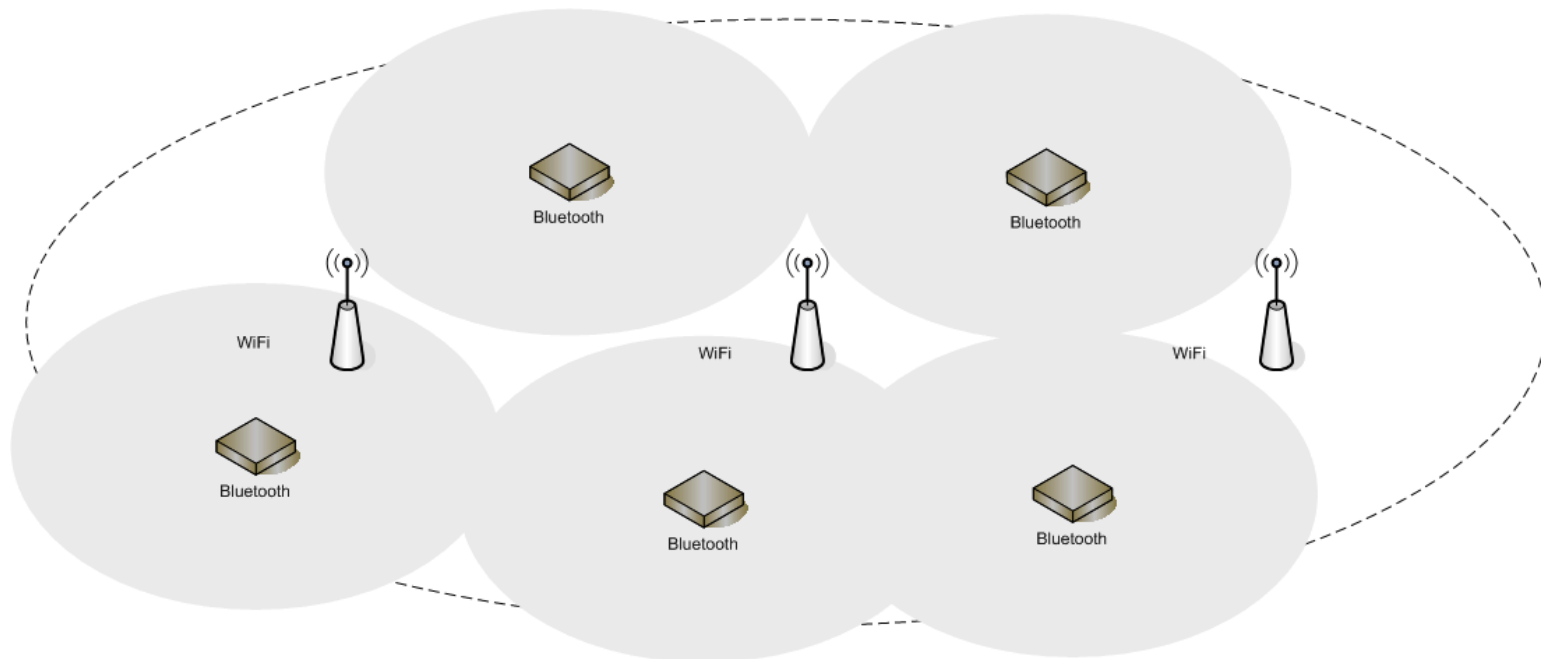


Projects - BlueDragon



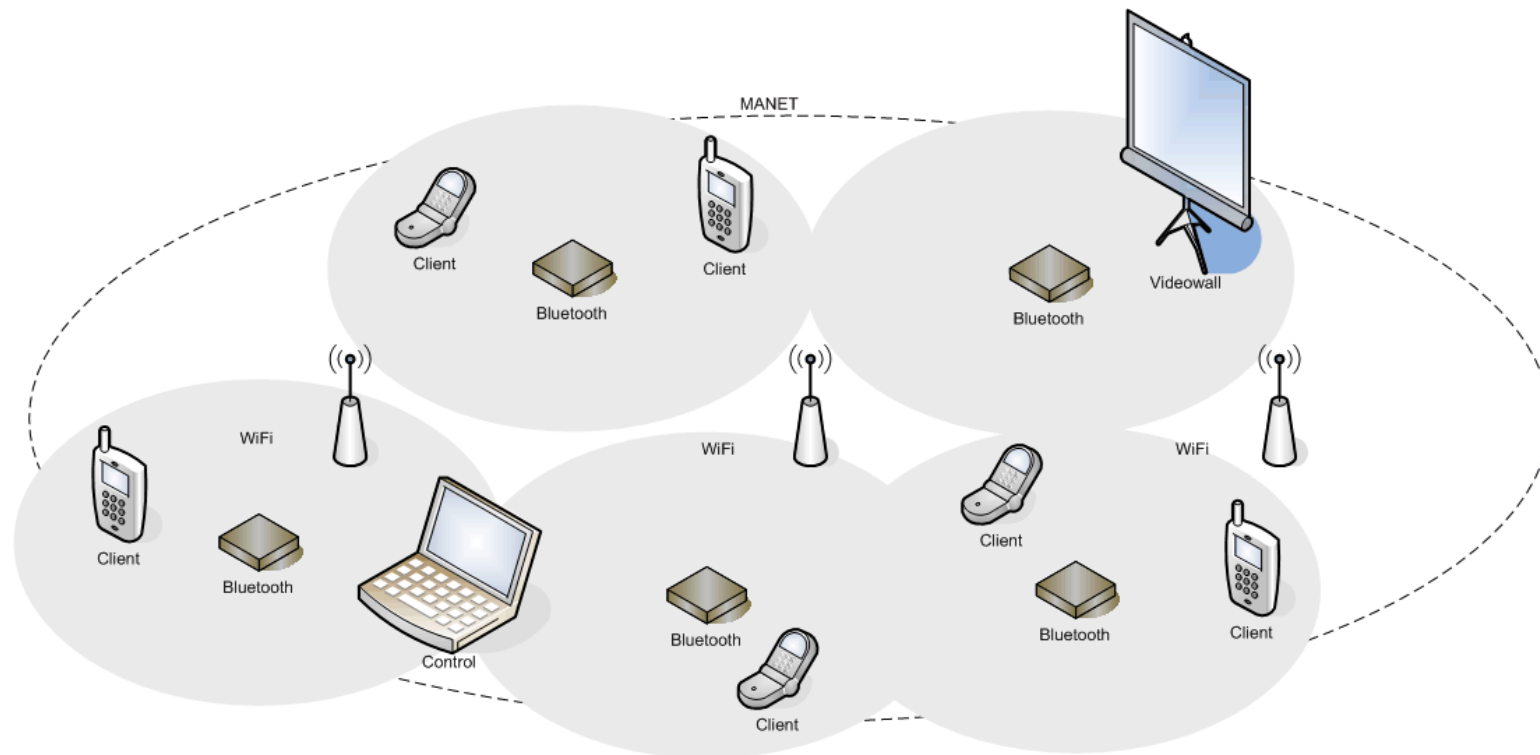


Projects - BlueDragon





Projects - BlueDragon



## MobilityLab, in Co-operation with

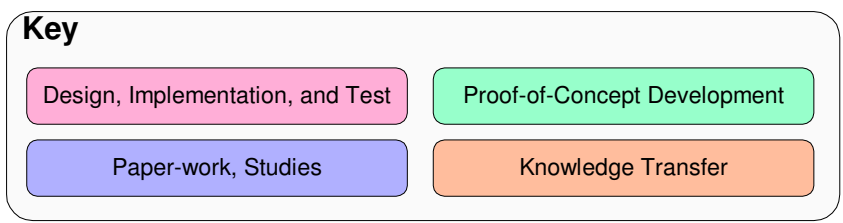
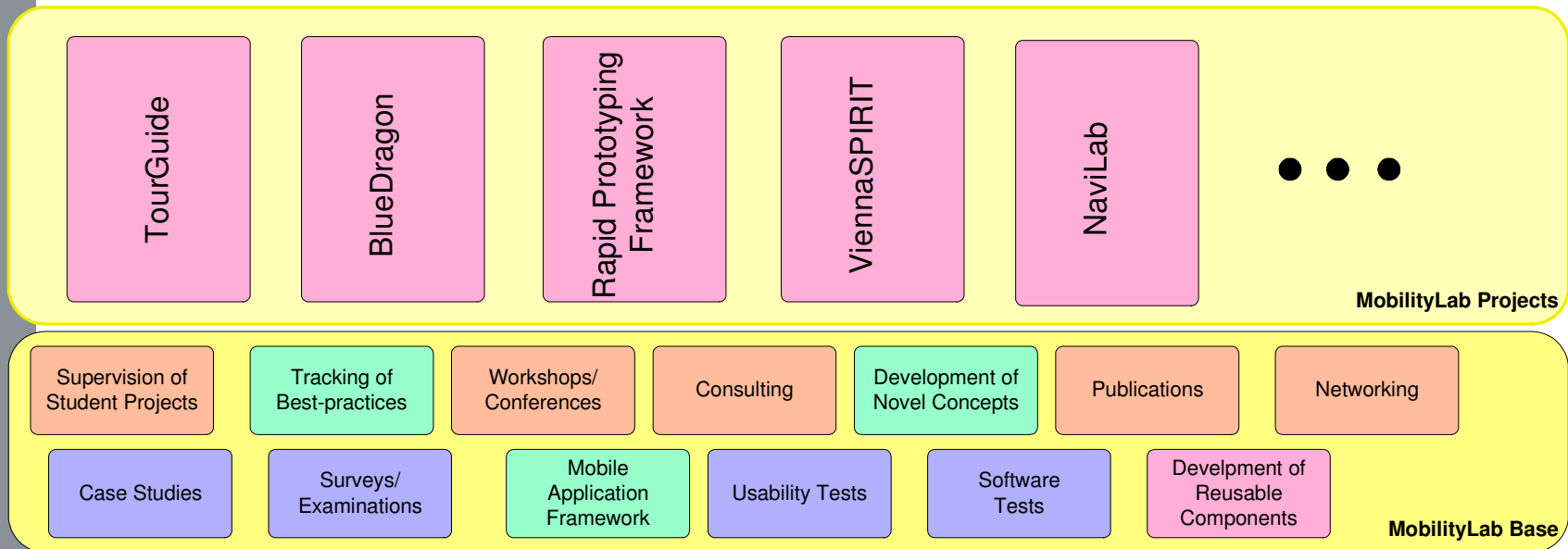


| "Laboratory" for research on optimisation of mobile application development

| Four Services:

1. **Best-practices** on design, implementation and evaluation of mobile applications
2. Development of **proof-of-concepts**, prototypes, and pilot systems
3. Conducting **studies**, surveys and examinations
4. **Knowledge transfer** by seminars and workshops

# MobilityLab Framework



# IEEE WETICE CoMA Workshop



| Workshop on

Inter-disciplinary Aspects of Coordination  
Applied to Pervasive Environments:  
Models and Applications (CoMA)

| Web: <http://mowi.salzburgresearch.at/wetice>

## Summary: MOWI's Profile/Expertise

- | Broad experience in [mobile application development](#)
- | Software engineering for mobile phones and PDAs
- | [Distributed/P2P-based architectures](#) for ubiquitous systems/networks
- | Integration and exploitation of [geographic data](#) in mobile information systems
- | [Map-based information](#) delivery, presentation interaction, and navigation

# Thank you for listening !

## Contact:

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## Questions, discussions...

# The Approach

