

A Framework for User-Tailored City Exploration

Jacqueline Floch
SINTEF ICT, Norway



EUD in mobile environments



Application domains



Focus on the city



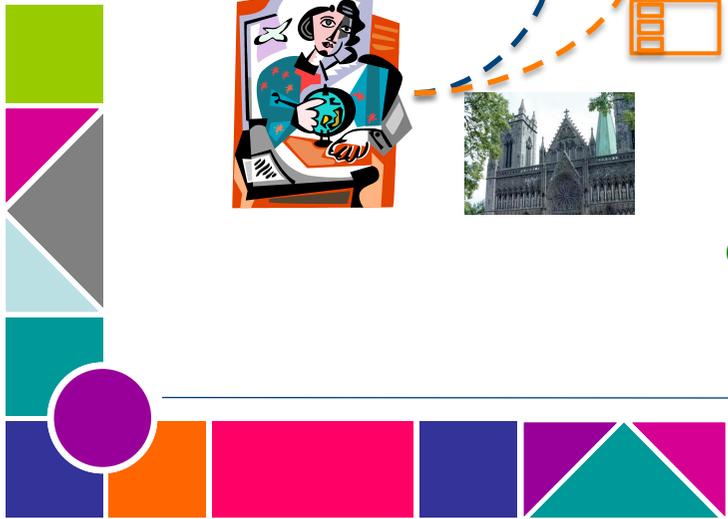
- + User experience
- + Recommendations from earlier research
- + Limitations of current applications
- + Application to several domains



Research questions

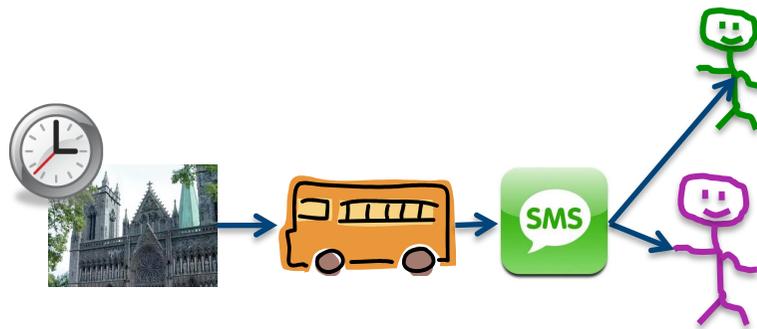
- What mobile services are relevant for City Exploration?
How do user needs influence the configuration and composition of services?
 - Scenarios developed by us (researchers and students)
 - Novel research area, not well-understood by us
 - Novel approach, not understood by users
 - Evaluation and improvement through interviews of tourism professionals
- What mechanisms can be exploited to configure and compose the services?
 - Initial design of the City Explorer framework
 - Tailoring of basis functionality, content sharing and service composition
 - Exploratory study using a paper prototype
 - Prototype realisation (Android)

Stakeholders



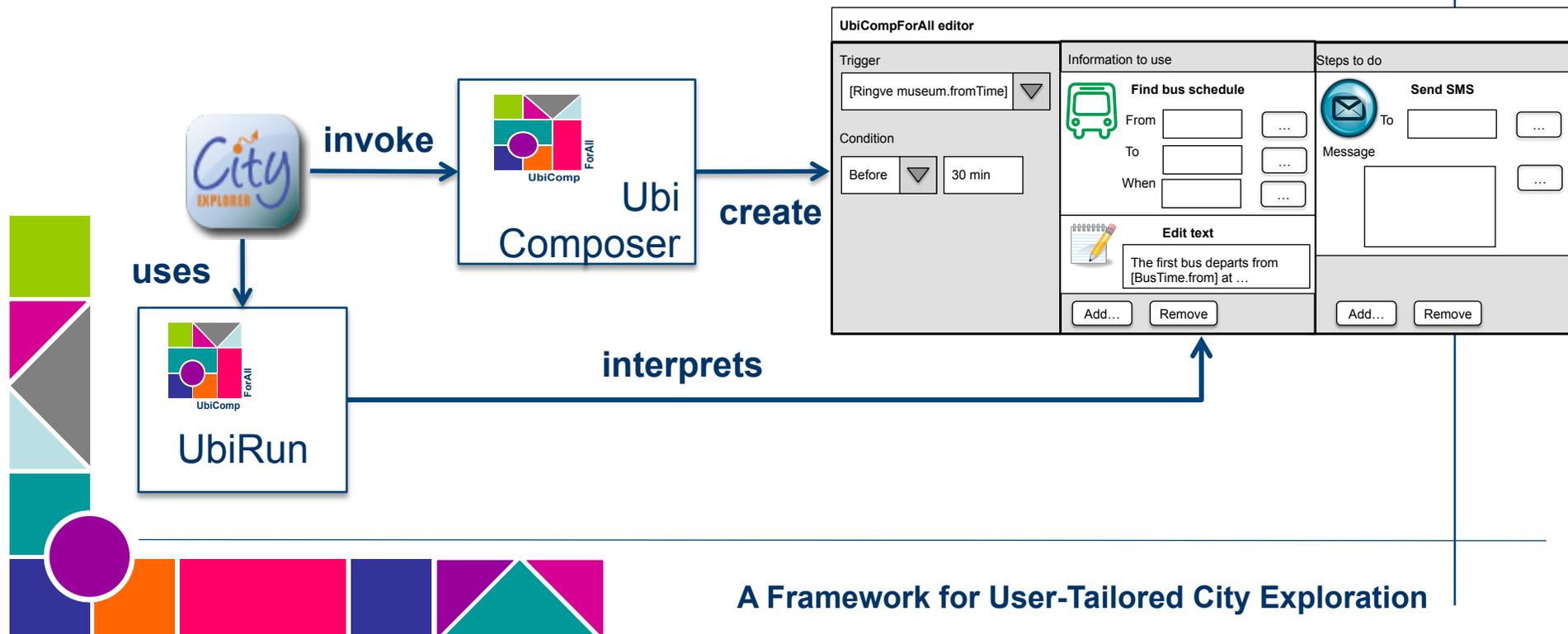
Tailoring vs. service composition

- Basic tailorable behaviour for city exploration
 - Select/create Pols and Tours with/without schedules
 - Retrieval of services associated to sites
 - Navigation support
- Service composition support
 - Context-aware triggering of atomic or composed services
 - Integration with social computing sites
 - Collaboration support, e.g. sharing positions, setting up meeting points



Integration with generic tools

- City Explorer is both used for planning and exploration
 - Thus, both integrated with composition tool and composition MW
- Integration requires
 - Domain-specific and generic service building blocks, e.g. “get PoI opening hours”, “get bus time”
 - Application adaptors providing access to application data



Status and further work

- Android prototype of City Exploration (tailoring)
 - 1st prototype available; to be uploaded on Android market
 - User experimentation this summer
- EMF-based service composition tool
 - 1st prototype planned end of July
- Follow our work at www.ubicompforall.org

