

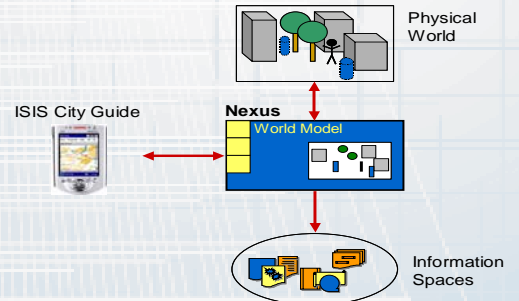
## NEXUS

Sonderforschungsbereich 627  
Umgebungsmodelle für mobile  
kontextbezogene Systeme

### Spatial World Models for Mobile Context-Aware Applications

### ISIS

A City Guide Based on the Nexus Platform



### Overview

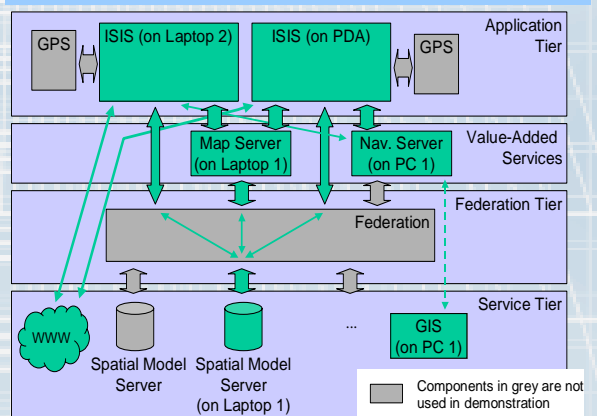
ISIS:

A City Guide for Stuttgart

- Builds on Nexus Platform
- Target Devices:
  - Laptop/Tablet PC
  - PDA (iPAQ)
- Implemented in Pure Java
- Developed by Study Project (6 Students)

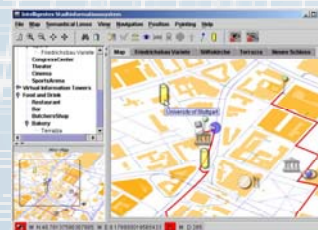


### Architecture



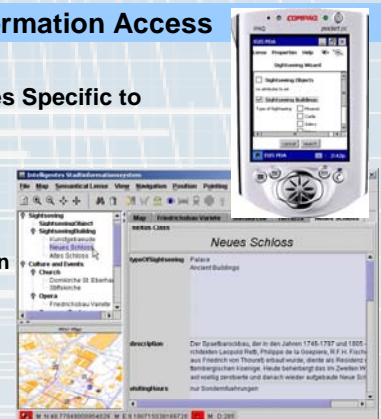
### Maps

- Generated by Nexus Map Service
  - Streets
  - Buildings
  - Points of Interest (Restaurants, Sights, ...)
  - Virtual Information Towers
- Formats
  - Laptop: Vector Graphics (SVG)
  - PDA: Bitmap



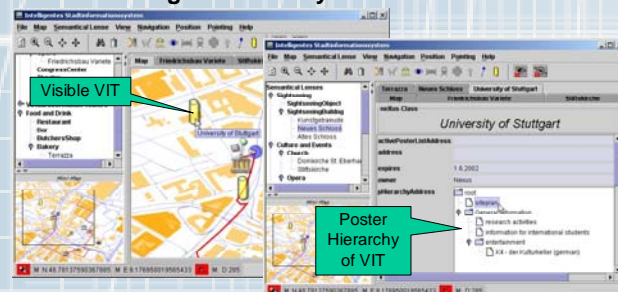
### Information Access

- Predefined Queries Specific to City Guide
  - Food & Drink
  - Culture & Events
  - Sights
  - Accommodation
  - Traffic Information
  - etc.
- Arbitrary Expert Queries
- Pointing with Electr. Compass



### Virtual Information Towers (VIT)

- Link Information (Web Pages) to Locations
- VIT has Range of Visibility



### Navigation

Based on Nexus Navigation Service

- Currently: Wrapper of GIS
- Future Work:
  - Native Nexus Service
  - Supporting of Multimodal Transportation

