



Queen's University
Belfast

Towntology: relevant research

Chris Tweed

School of Architecture and Virtual Engineering Centre (VEC)

Queen's University Belfast (QUB)



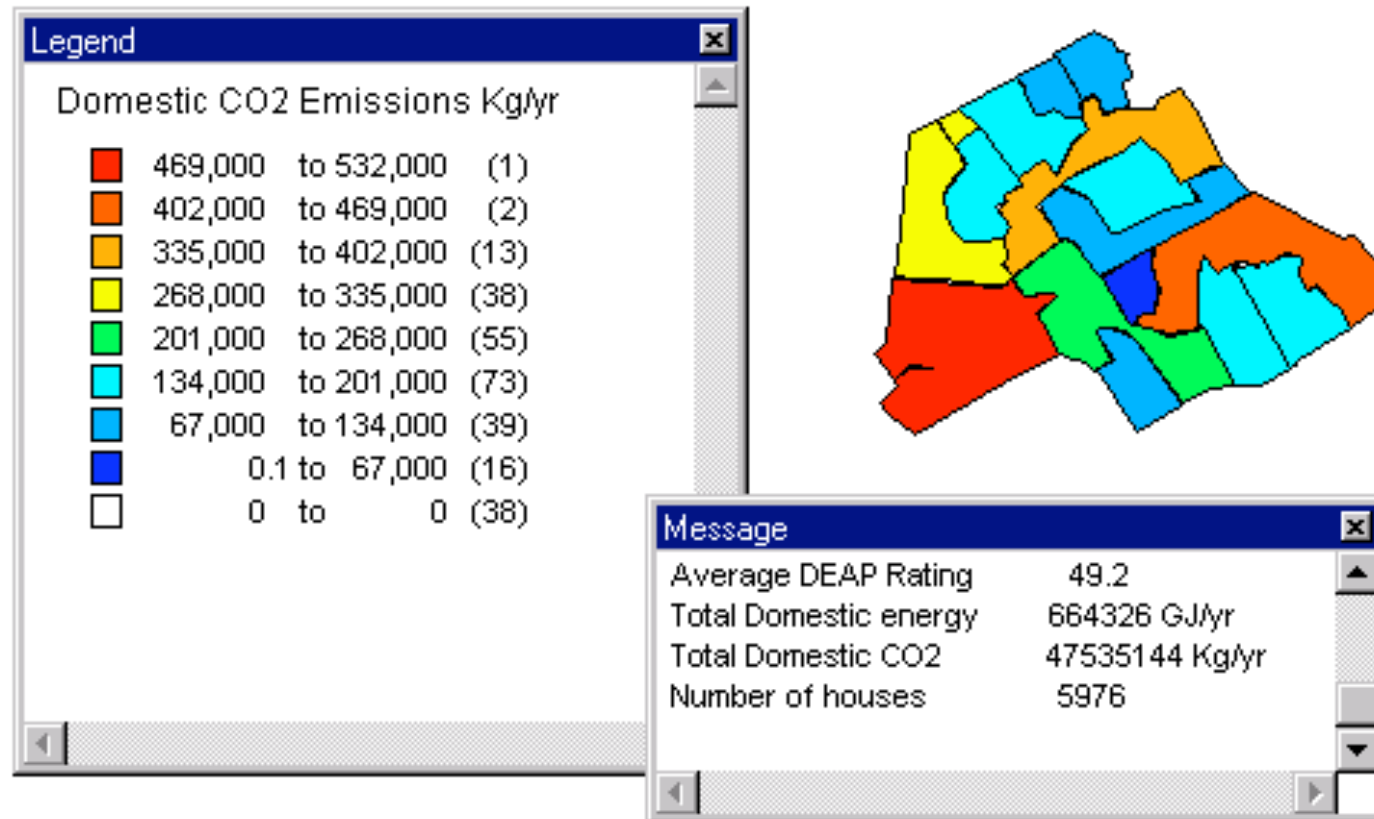
Overview

- ❖ **research into applications of ICTs to the built environment has been ongoing for the past 14 years**
- ❖ **covers a range of topics and projects:**
 - 3d CAD models of buildings and the urban environment
 - argumentation systems
 - energy and environmental modelling of urban environment—Energy Environmental Prediction tool GIS
 - dynamic urban information systems
 - involvement in COST UCE C4: *Management and information applications development in urban civil engineering*



Energy and Environmental Prediction (EEP)

- ❖ **collaborative research project with Cardiff, UCL and DeMontfort**
- ❖ **aim was to provide a GIS-based tool to enable local authorities to predict environmental sustainability of entire city**
- ❖ **QUB role was to apply model to Belfast and to determine end-user interaction with models in Belfast, Cardiff and London**



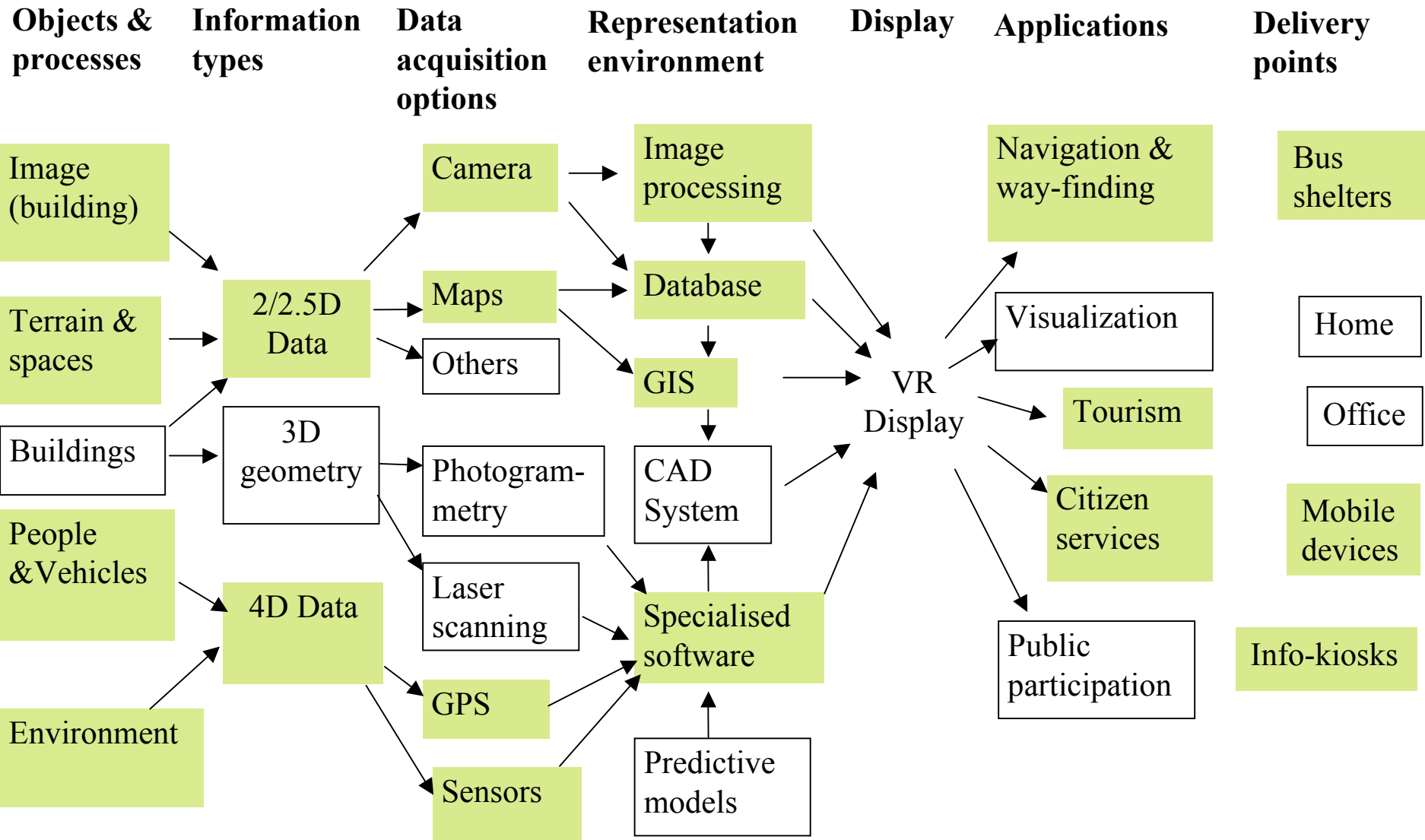


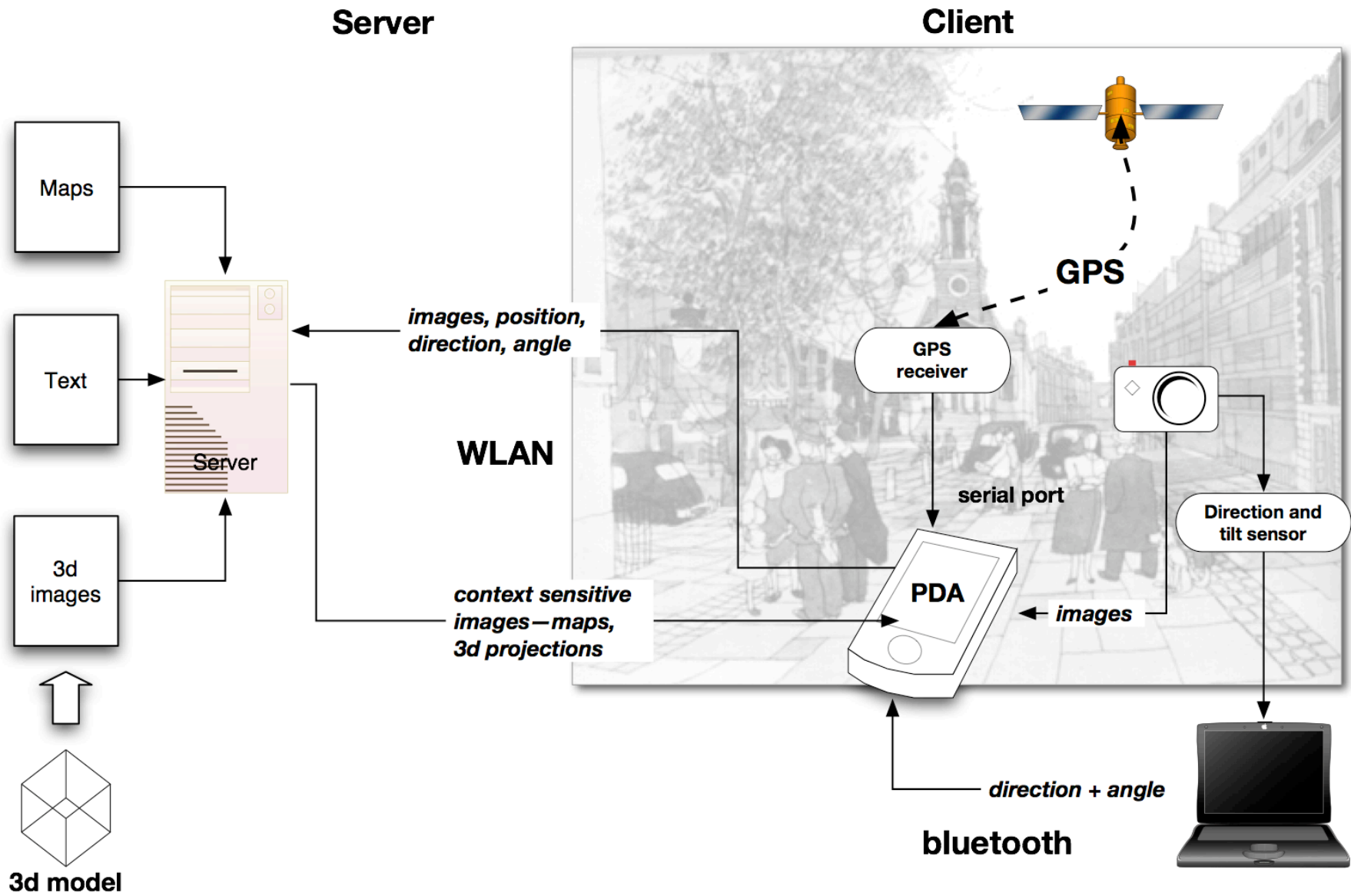
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Dynamic interfaces to 3d urban information

school of architecture

Overview of the Project







Summary

- ❖ **technical expertise on modelling (geometry and energy), argumentation systems, image processing and digital communications**
- ❖ **research interest in socio-technical issues—how systems work with (or against) users**