Pervasive Computing Technologies for Healthcare 2006

Facilitating Dynamic Schedules for Healthcare Professionals

Cormac Driver, Éamonn Linehan, Mike Spence, Shiu Lun Tsang, Laura Chan & Siobhán Clarke

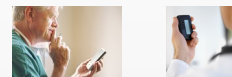## Healthcare Professionals

- Healthcare Professionals
  - Dynamic schedules
  - Emerging tasks
  - Shifting priorities
  - Interruptions
  - Mobility
  - Collaboration
- Common Approach
  - Static paper or whiteboard-based to-do lists
    - Time consuming to carefully consider and produce
    - Difficult to manage
    - Do not adapt or reorganise

Hospital Environment
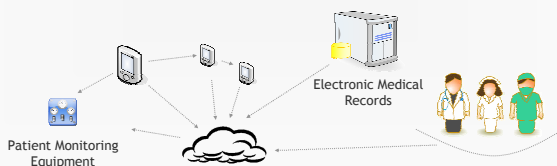
Today   The future

- Assumptions
  - Mobile Devices
  - Network Connectivity
  - Electronic Medical Records
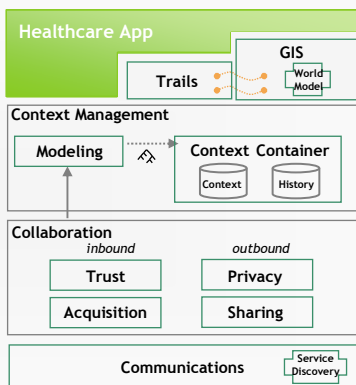 - Human Resource Management
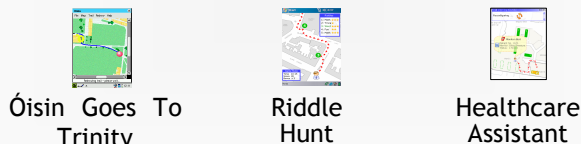

Application Scenario

Hermes Framework

- Generic components containing structure and behaviour
- Extension points for custom behaviour
- Addresses
  - Trail Generation
  - Context Management
  - Collaboration

Trails

- A trail is a collection of activities +
  - contextual information
  - a context-based visiting order
  - a context-sensitive route between locations

TRAIL
Activity | Route | Order

Óisin Goes To Trinity

Riddle Hunt

Healthcare Assistant

Acknowledgements

DSG
Distributed Systems Group
Trinity College Dublin

embarkinitiative   (intel)