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Supporting Informal Interaction in a Hospital trough Impromptu Social Networking

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Informal Communication in Hospitals

- Hospital Work
 - Intense local mobility
 - Task fragmentation
 - Collaboration and coordination





- Informal Communication used to:
 - Coordinate activities
 - Collaborate with colleagues
 - Access resource

Informal Communication in Hospitals

- Mobility enables co-located interaction
 - Artificial proximity is not an option for hospital workers

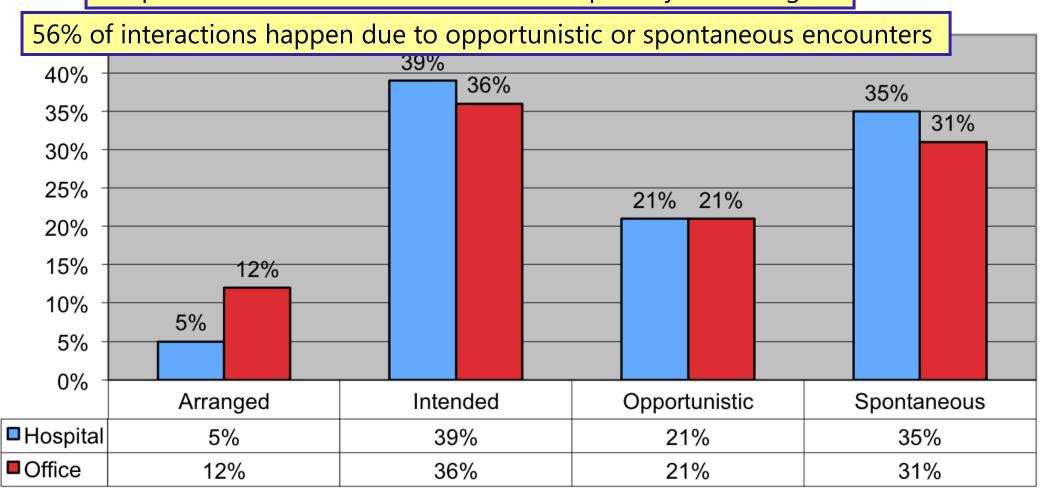




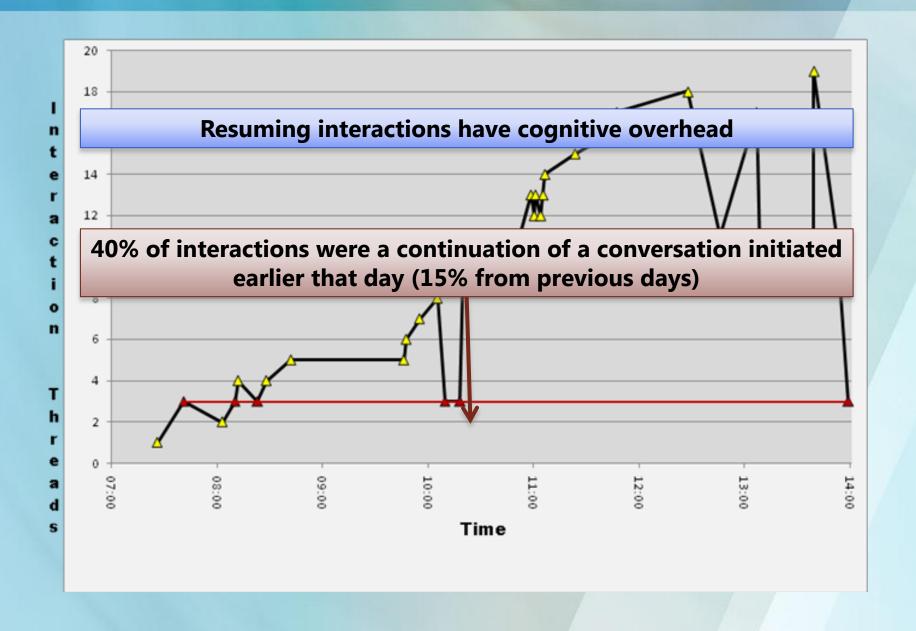
- Collaboration breakdowns
 - Interruption of interactions
 - Information generated during the interaction is not recorded
 - Missed opportunities for collaboration

Hospital vs. Office Work

Hospital workers interact almost 50 times per day on average



Communication disruptions in hospitals



Social Networking Sites

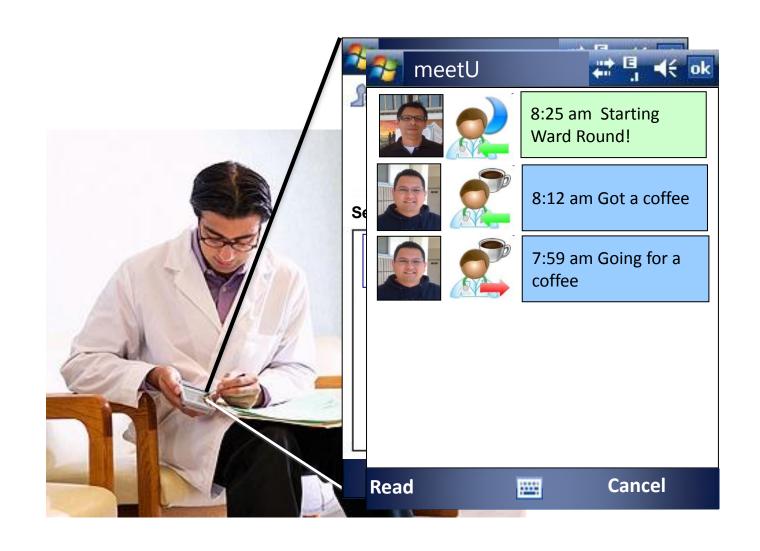
- Increasingly being used in work settings to
 - build stronger bonds
 - reach out to new people
 - Caring, climbing and campaigning
- The killer-app for smartphones (MS Kin)
- Initial reports of uses in hospital settings (Twitter in the UK)



Scenarios of use

- Medical interns
 - Young, heavy users of mobile phone
 - Constantly on the move and switching activity
 - Short-term stay at the hospital, long hours (up to 32 hour shift)
 - Activity status relevant to colleagues
 - Develop strong bounds with fellow interns and other hospital workers
- Opportunities for computer-mediate social-awareness
- Simplified status updates, including activity recognition and notification

Scenario 1



Scenario 2



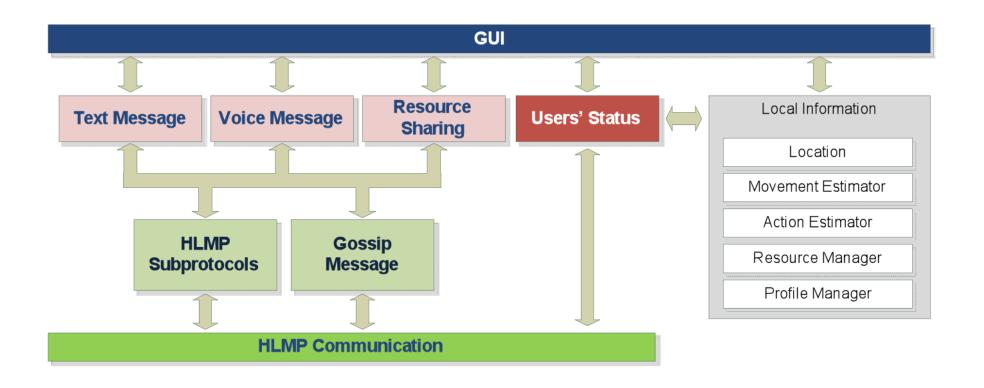
Scenario 3

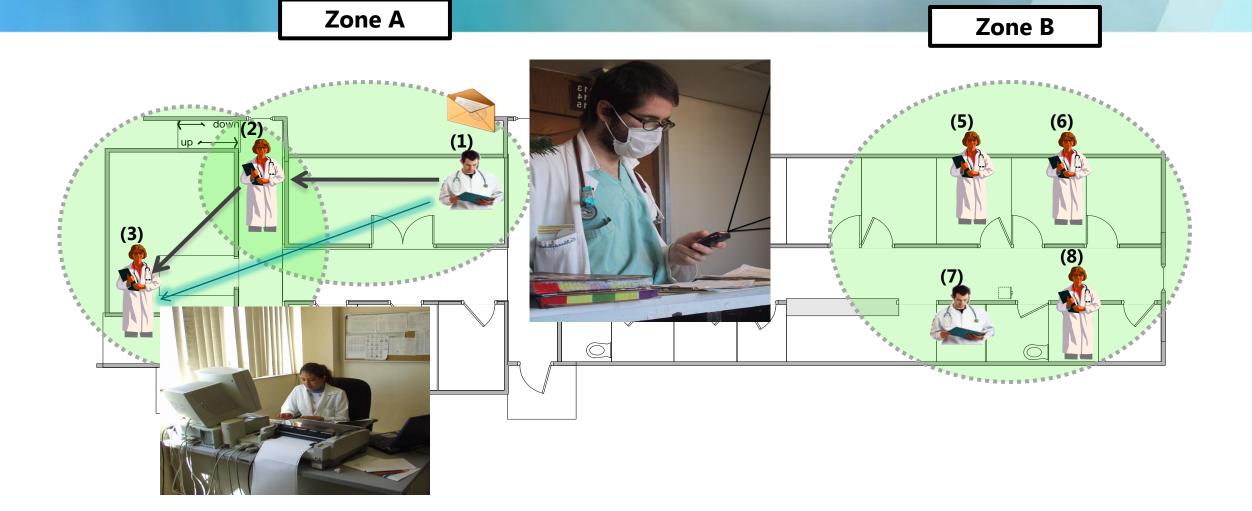


MeetU

- Builds an Impromptu Social Network
- A MANET-SNS application
- Provides an informal communication channel allowing users to monitor status changes
- Provides interns with a backchannel to formal hospital information exchange
- Provides confidentiality
- Quick update of common activity status
- No need to deploy networking infrastructure
- Can incorporate lightweight activity recognition

MeetU Architecture

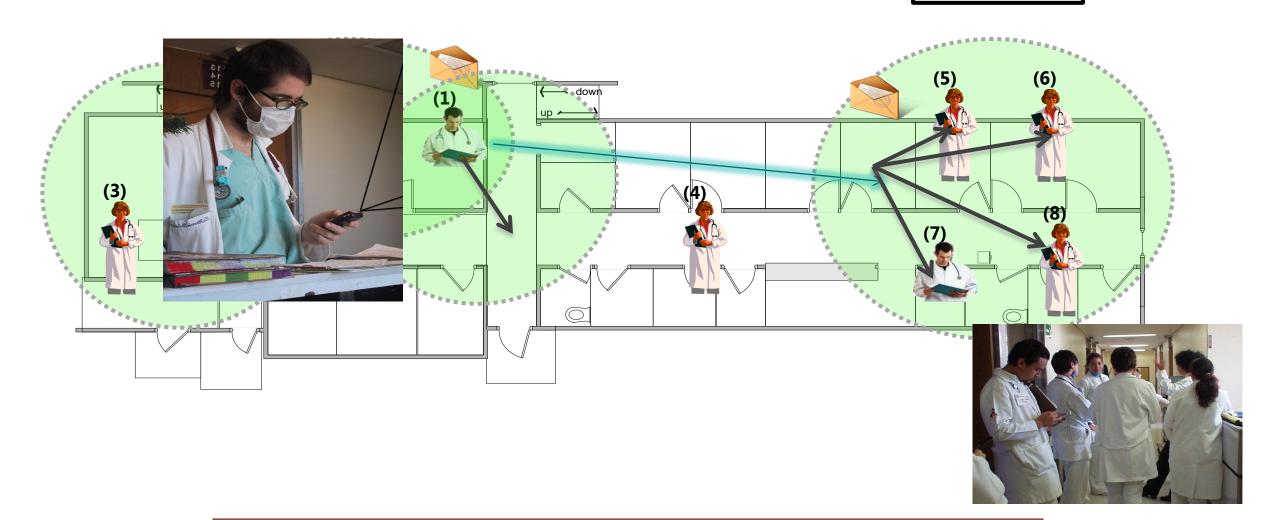




HLMP Routing

Zone A

Zone B



Preliminary evaluation

Focus group

- Five medical interns
- Formative evaluation
- Focused on perceived usefulness
- Scenario-based evaluation

Results

- Scenarios were considered realistic
- New applications were suggested
- Privacy concerns
- ISN seems to support new users of SNS

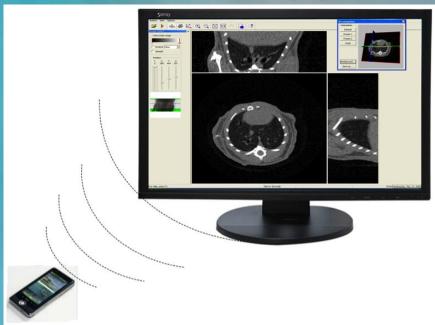


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DemoFest: Ad-hoc integration of heterogenous devices to support impromptu

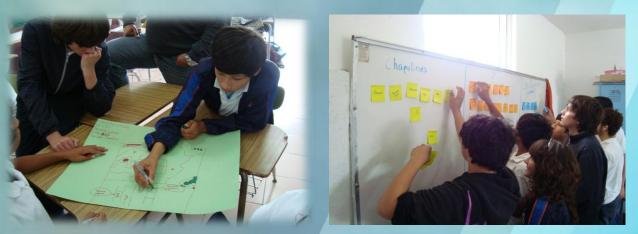
interactions



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DemoFest: Mobile gaming and social networking to promote healthy habits among

teenager





