FacultySummit

## Using Natural Interfaces To Support Empath Y







### FacultySummit

UNITY - A Culturally-Sensitive Environment for Flexible Natural Interaction to Support Transitioning from a Chronic Care Hospital Context

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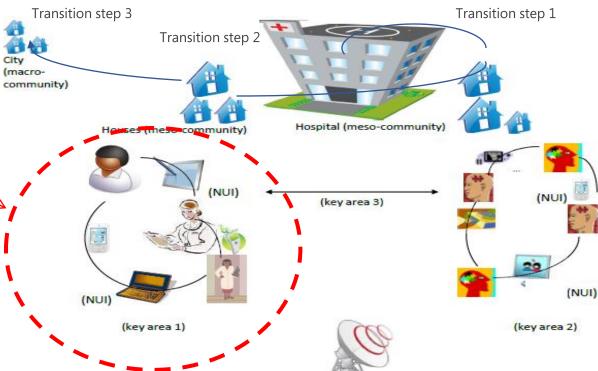


#### NUI – promises and challenges

- Promises
  - Reduce learning time
  - Leverage of the existing human skills (touch, voice, audio....)
  - Allow people to focus on the task not on the technology (cognitive load)
  - Provide the users the sense of Naturalness
- Technical challenges
  - Make it 'invisible'
  - Integrating sense devices and information
  - cultural sensitivity
- Workplace challenges
  - Social network support
  - Workflow Support

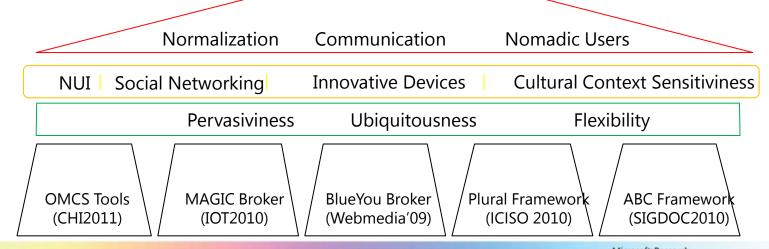
#### Project Goal - NUI framework and tool for Workflow

Investigate using
NUI based channels
to support empathy
amongst Health
Professionals
working on patients'
transition process



#### Research Project Focus

- Participatory Design approach
  - requirements' elicitation
  - development of solutions



#### **Expected Results**

- Analysis of workflow requirements for Health Professionals
- Studies of social networks in complex workplace
- Gaining fundamental NUI insights from a non-GUI community
  - never used keyboard/mouse!
- Formalize proof-of-concept framework and technical solution
  - use of culturally sensitive and flexible natural user interface technologies

Front reusable solutions drastically reducing implementation time and effort





#### Step 1 – Meetings with the Director of the Hospital (May 2011)

- Equipments to be installed at the hospital Area of the hospital to be covered by UNITY
- Team for the Participatory Design Activities
  - a physiotherapist
  - a psychologist
  - a nurse
  - an occupational therapistan administrative staff
- Agenda 2011

  - One meeting per month from June to Septeml
     One Meeting every two months from Novemb



Step 2 – Participatory Design Meeting (June 30<sup>th</sup> 2011)

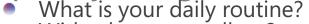
What is your daily routine?

With whom you talk to?

What information do you share?

When do you fill the docs?

What is the frequency?



Observing

the flow of information

the existing social network

"There is no routine"

"We solve the problems on the corridor" "We use our own cellphones to talk"





#### Next Steps

- Analyzing the technological solutions (cellphones) spontaneously adopted
- Analyzing the formal and the informal flow of information
- Analyzing the formal and the informal workflow
- Designing the existing social network

#### Thank you

- Prof Carlos Brito FAPESP
- Juliana Salles Microsoft Research Brazil

# **UNITY**Team of Researchers



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