

BEYOND SIRI

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Mobile Voice 2013



Mobile Assistants



Robots

Robots

Speech /Natural Language

- ❖ **Autonomous** Can move itself
- ❖ **Multi-modal** Respond to 3D environment
- ❖ **Embedded** Not necessary
- ❖ **Android** Human in shape - not necessary

Robots

Applications

- ❖ Laborers
- ❖ Helpers
- ❖ Companions

Applications

Laborers

- ❖ Home Appliances
- ❖ Teams / Collaborators

Laborers

Home Appliances

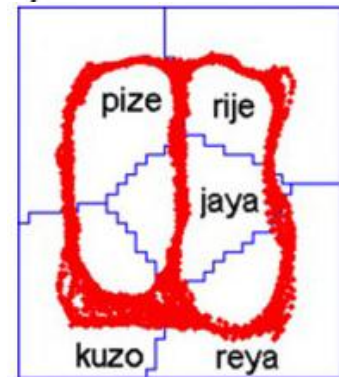
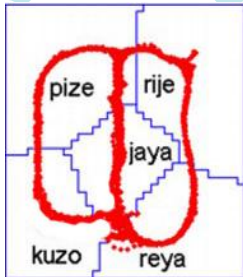
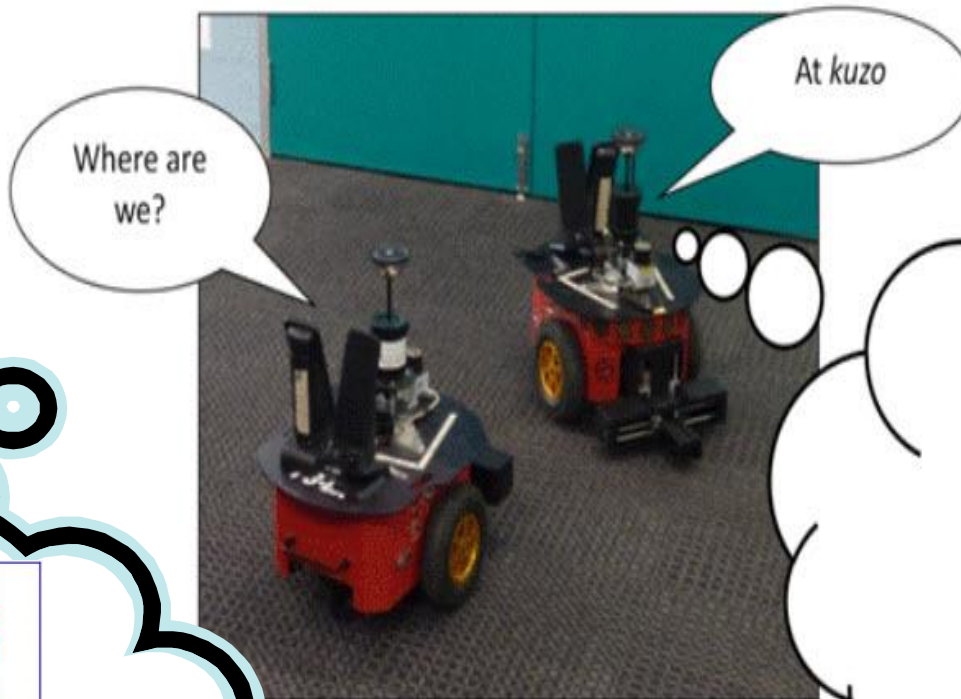
ASR
Recorded
Speech



Sony Cocorobo
Vacuum Cleaner

Laborers

Teams/Collaborators



Applications

Helpers



Helpers

Guide



Beatrice
Guide
Arneis
(Loquendo TTS)

Helpers

Educator



RUBI,
University of California,
San Diego

Helpers

Educator



Mikori,
Osaka
University

Helpers

Trainer

Bandit,
University of Southern California



Applications



Companions

Companions

Eldercare



Nursebot Pearl,
Carnegie Mellon University

Companions

Chatterbot



Zeno, David
Hanson Robots

Thank You

Mobile Speech and Advanced Natural Language Solutions

A. Neustein & J. Markowitz (Eds.) 2013, Springer

Where Humans Meet Machines

A. Neustein & J. Markowitz (Eds.) (to appear), Springer

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