ECHORD call'l experiment

BABR A Better Audition for a Better Interaction with Humanoid Robots

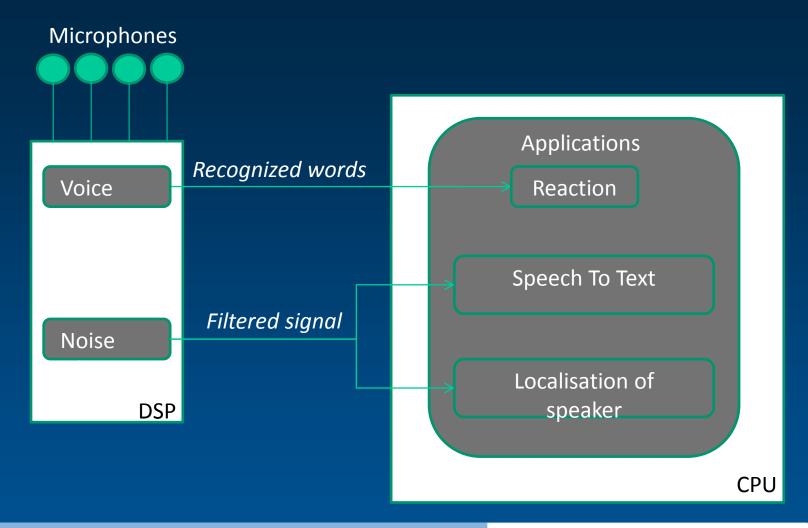
6th of April 2011 EURON/EUROP Workshop Vasteras, Sweden



- Man and Robot will live together
 At work
 At home
- Oral communication is the most intuitive
- Strong need for robust speech recognition
- Developments
 - High quality filtering of audio signal
 - Robust low level speech recognition
 - Accurate localization of the speaker



Experiment BABIR





Experiment BABIR

• Timing

Signal processing: T0+12
Integration on DSP : T0+13
Localization of the speaker : T0+12
Integration : T0+16
Results of evaluation : T0+18



Experiment BABIR

Aldebaran Robotics

- ✤ French SME
- Humanoid Robot manufacturer
- Development
 - ✓ Hardware integration
 - ✓ Speaker localization
- Vocally
 - ✤ French SME
 - Innovative solutions for digital voice processing
 - Development
 - ✓ Signal processing
 - ✓ Implementation on DSP

