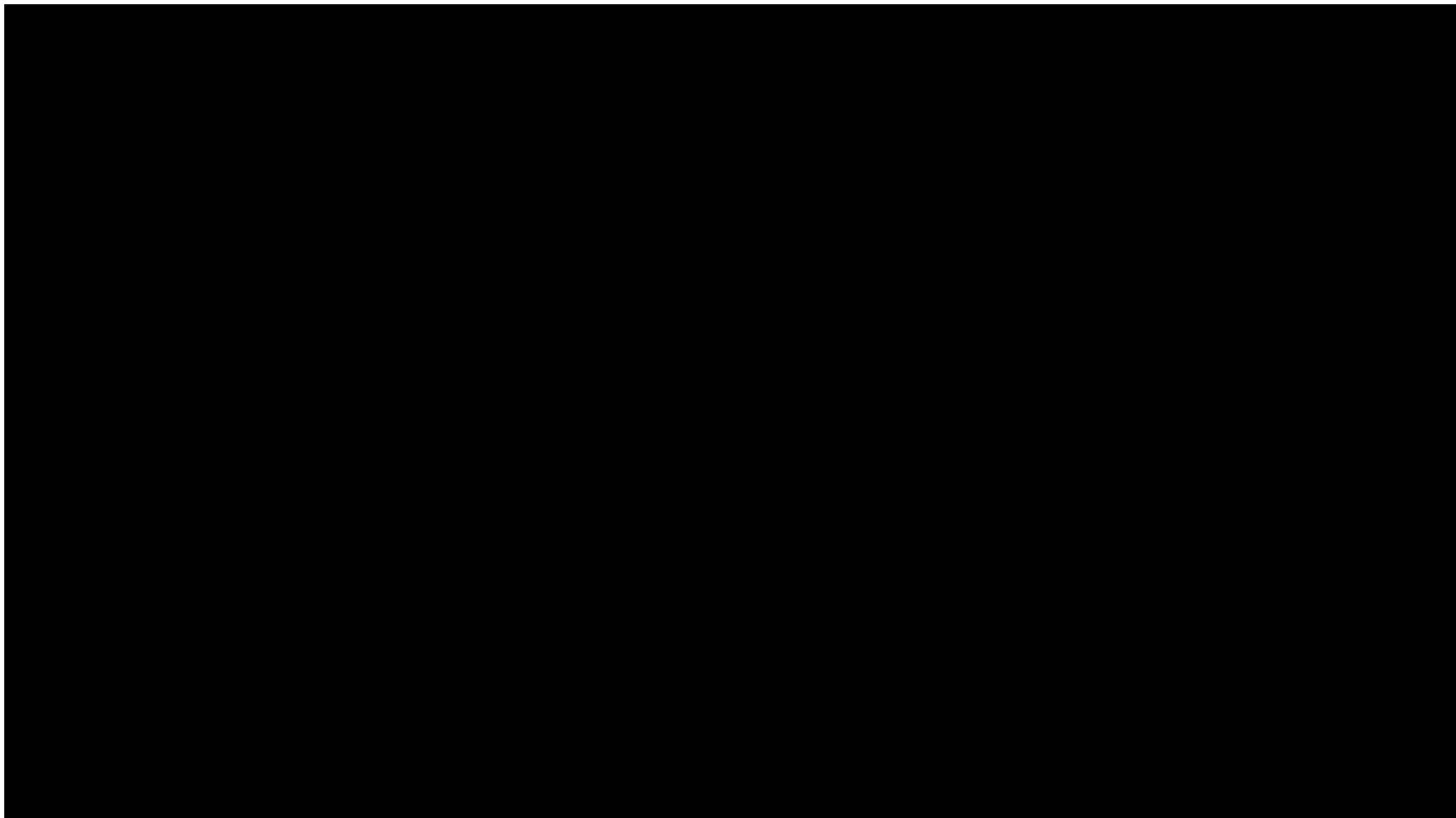


Info Day ECHORD – 23/02/2010 – LAAS,
Toulouse
Rodolphe GELIN

Nao: what is it about?



The Aldebaran Project



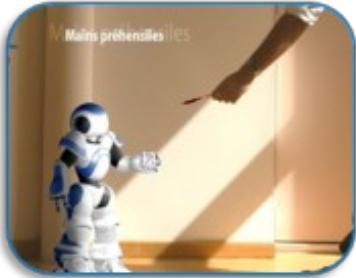
Mission

Create and deliver affordable
autonomous
and easily programmable humanoid
robots.



Time-to-Market

Convergence between project,
market, costs and availability of
technologies.



About Aldebaran Robotics

Financial

- **4 M€ Equity**
- **4 M€ Public grant and subsidies**
- **A total of 15 000 R&D days**
- **5 M€ fund raised end of 2007**
- **85 employees**

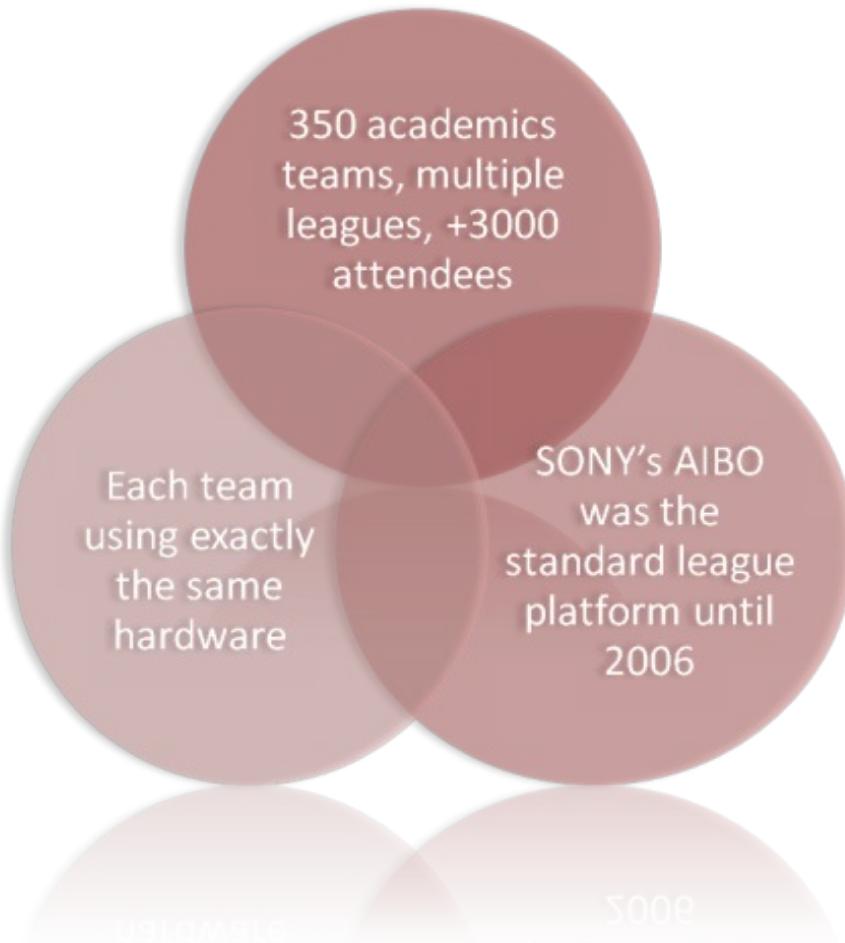
Key support

- **Aldebaran Robotics is member of several research consortiums in France or funded by the EC (i.e Felix Growing, ROMEO, GVLeX...)**
- **New robotics cluster launched in France around Aldebaran Robotics with support of government: CAP ROBOTIQUE**

Aldebaran Robotics relies on strong financial resources and a large network of academic partners.



RoboCup standard platform

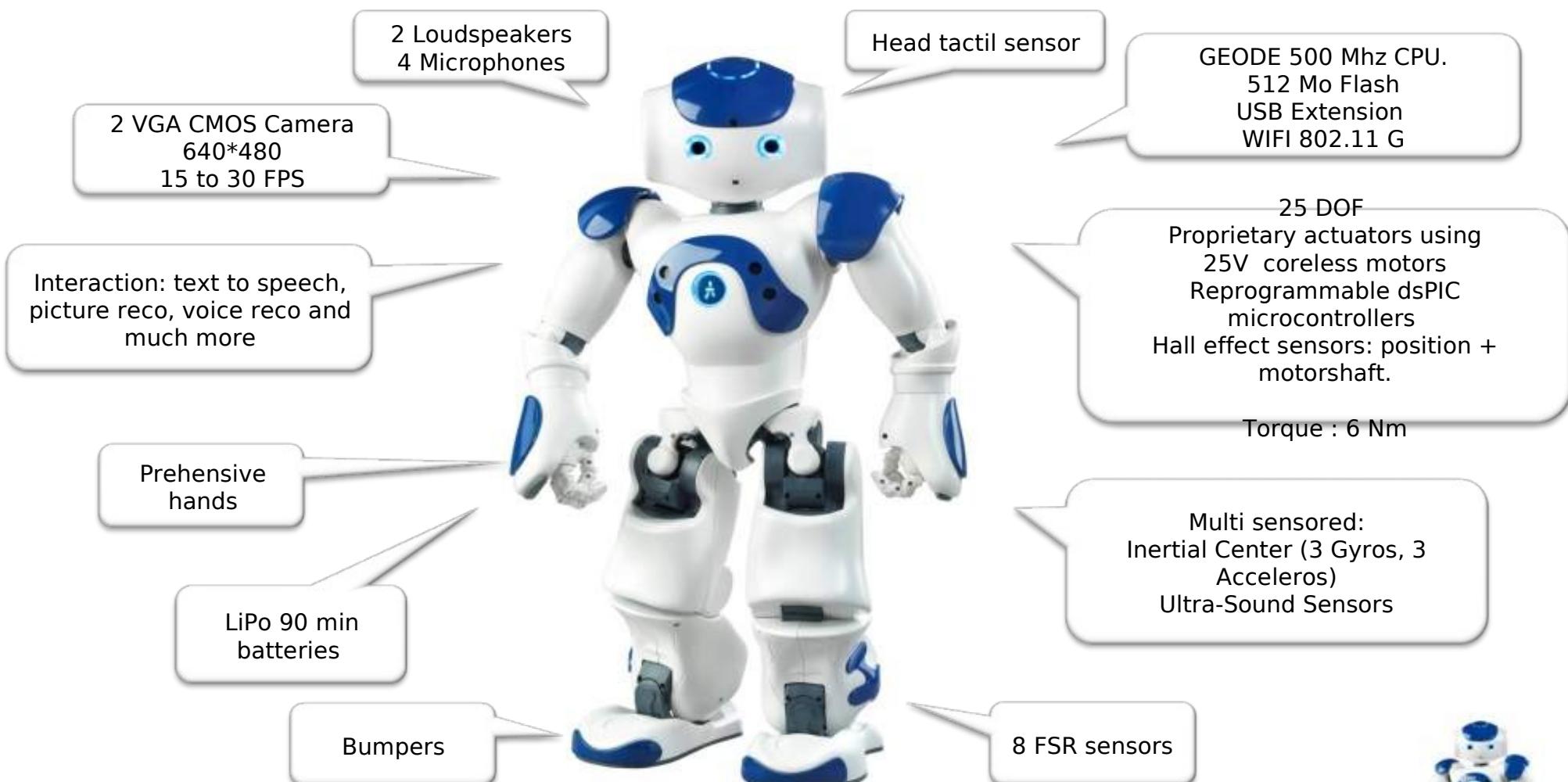


25 teams from 18 countries
used Nao during RoboCup 2009 in Austria

The RoboCup



Nao Academics Edition



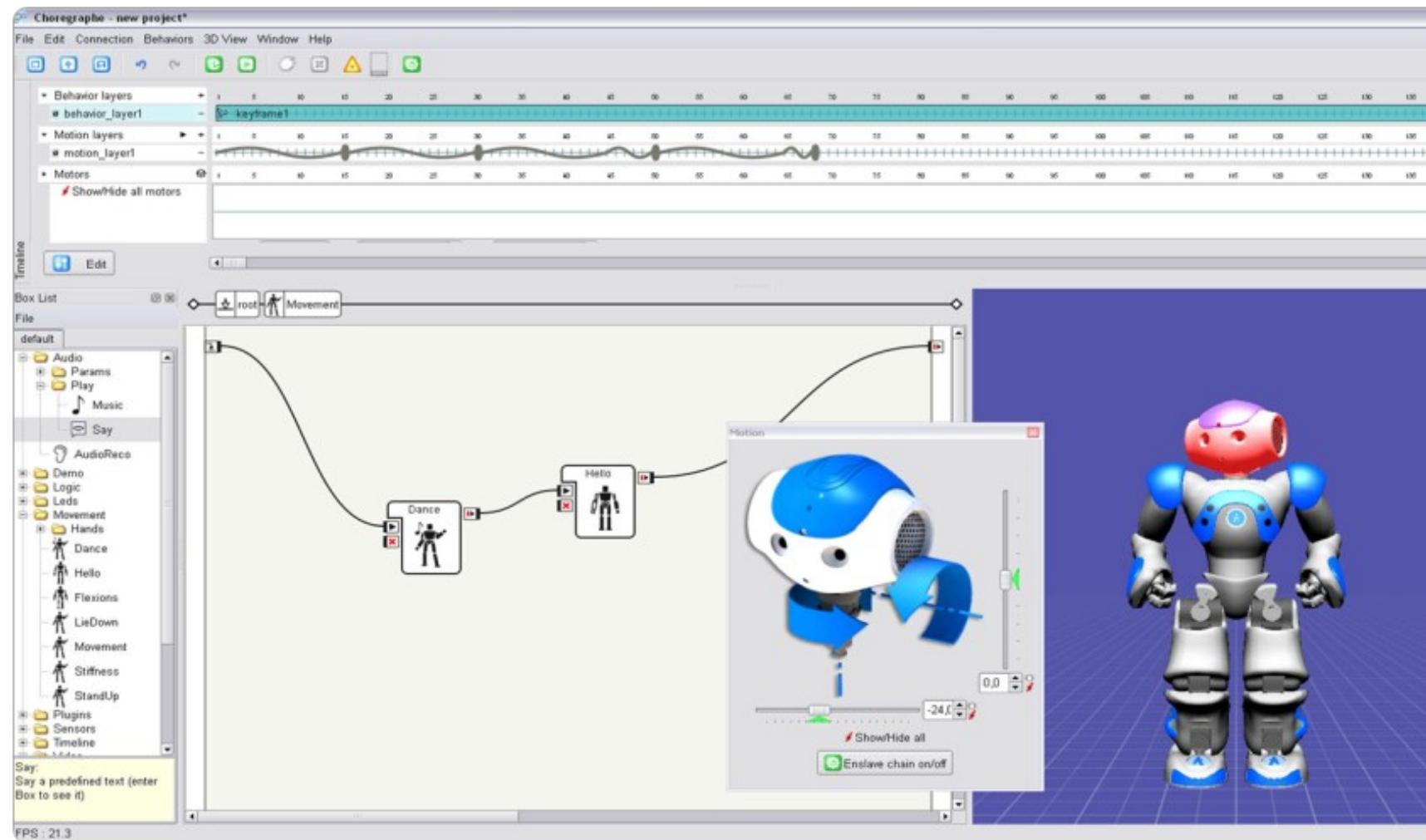
Nao Academics Edition comes along with many options and software.



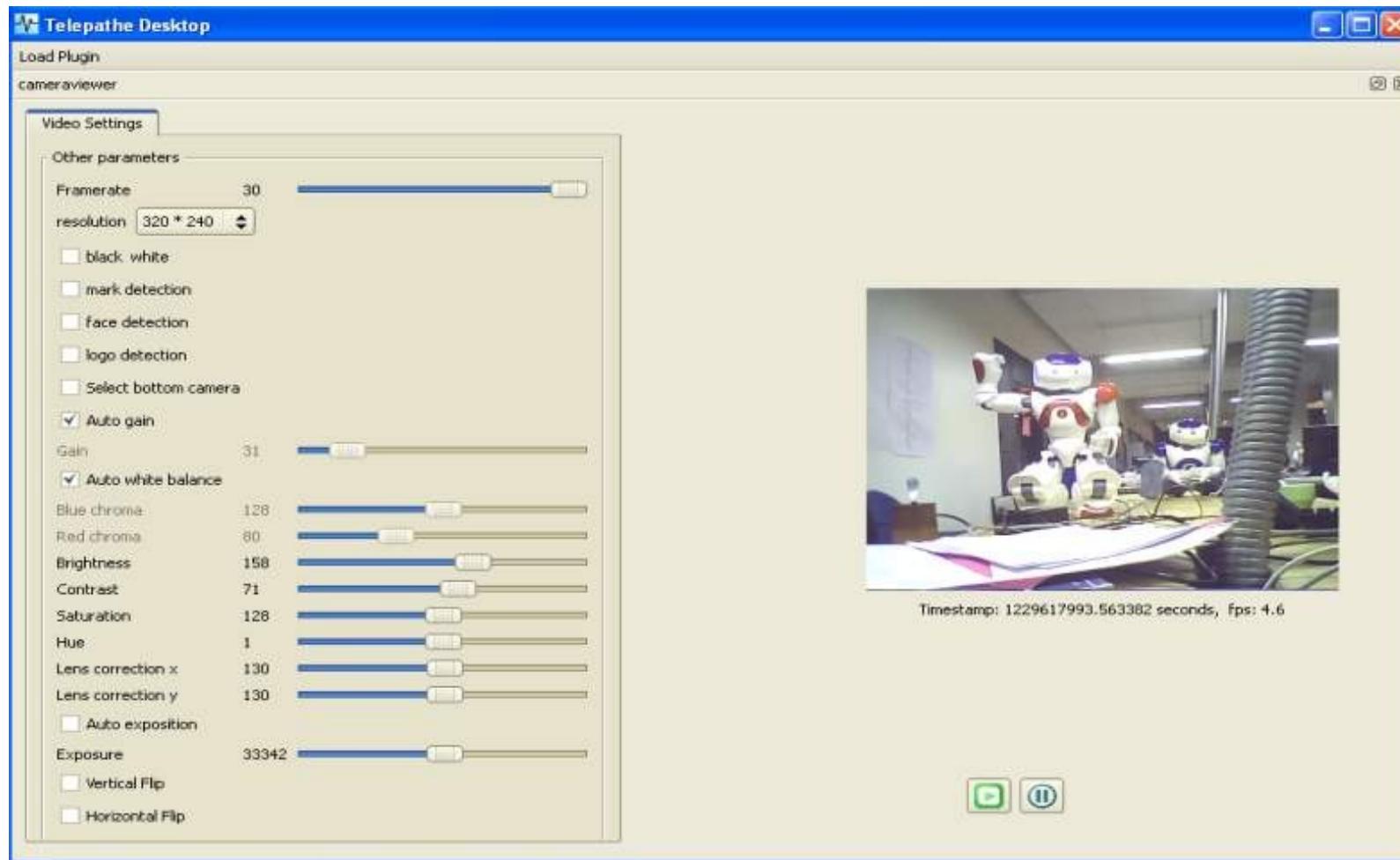
Controlling Nao's platform



choregraphe



Telepathe



The easiest way to see what Nao sees...

Info Day ECHORD – 23/02/2010 – LAAS, Toulouse



Who is already using Nao?

- ❑ Lockheed Martin
 - ❑ KAIST
 - ❑ University of Maastricht
 - ❑ Xiamen University
 - ❑ INRIA Orsay
 - ❑ University of Wales
 - ❑ National Institute of Astrophysics
 - ❑ Bar Ilan University
 - ❑ and many more...
- More than 400 robots sold all over the world

RoboCup 09 standard league:

Carnegie Mellon, University of Pennsylvania, Bowdoin College, Austin Villa Texas, University of New South Wales, Humboldt Berlin, Dortmund, Bremen, Aachen, Technical University of Greece, Bogazici University of Turkey, University of Murcia, NUI Maynooth Ireland, University of Chile, Faculty of Engineering at University of Rome...



And now let's do science



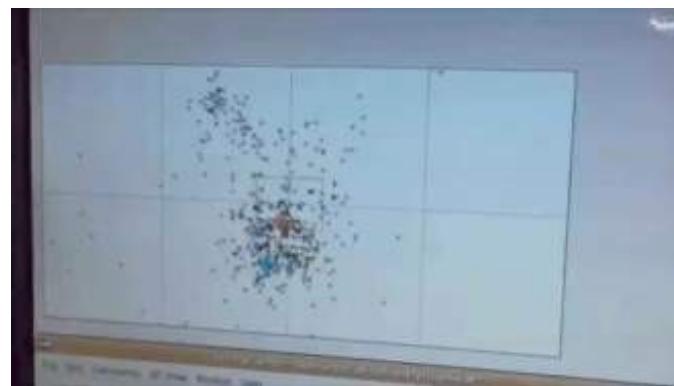
Genetic algorithm



Inertial sensor



Stiffness & haptics



Particles filter



Our involvement in cooperative projects

Feelix Growing (UK, Greece, Switzerland, France)

FEEL, Interact, eXpress: interdisciplinary investigation of socially situated development from an integrated or global perspective as a key paradigm towards achieving robots that interact with humans in their everyday environments in a rich, flexible, autonomous and user-centered way.
<http://www.felix-growing.org/>

ROMEO (France) Robot Companion & Personal Assistant

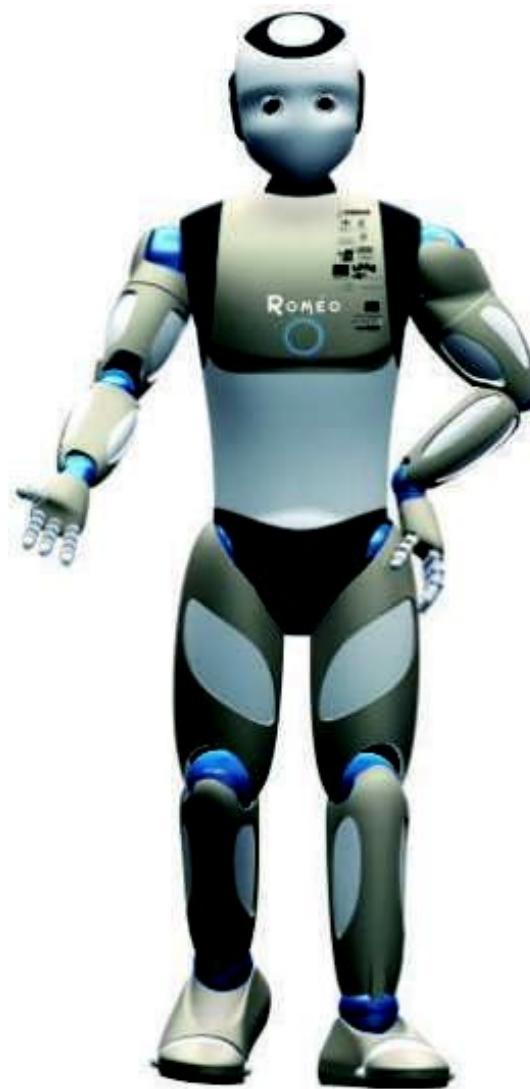
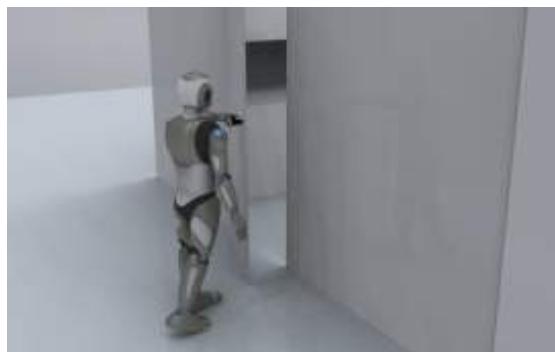
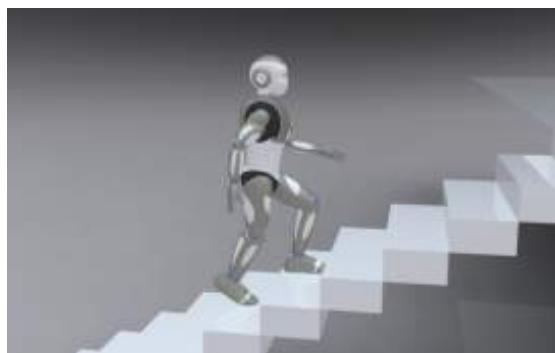
Conception and development of a humanoid robot of bigger proportions based on advanced physique and electronic platform, with elementary perception, fundamental capacities and integrating an advanced dialogue, cognition and interaction systems.

GVLeX (France) Expressive reading for artificial agents

Based on learning from corpus of expressive reading (recordings of professional actors' reading) and automatic semantic analysis of tales for children, the robot or the avatar is able to read, in an expressive way, 15 minutes long stories. Expression will be carried out by voice and gestures.



Introducing ROMEO



ALDEBARAN
Robotics

a
acapela

(o)
SPiROPS

VOXLER

air
angel

Lisv

TELECOM
ParTech

Lisv

INRIA

laas

laas

lppa

INSTITUT DE LA VISION

cap-digital
Paris Region

dgcis
direction générale de la compétitivité
de l'industrie et des services

ile de France
MAIRIE DE PARIS



Our ECHORD proposals

ISAR with Bielefeld University (G)
Laser Head for Intrinsically Safe Robot



GRASPY with DFKI (G)
Stereo-vision head and force control for smart manipulation



BABIR with Vocally (FR)
A better Audition for a Better Interaction

ECHORD Kit (to be confirmed)

What is included?



Multi-platform Software Suite:

- Choregraphe
- NaoQi SDK
- Telepathe
- Documentation



Possible options

- Laser head
- Stereovision head
- 1 day training

Nao with 3 year of guarantee



Battery and charger with local adaptor



NaoQi Spare USB Key



Online Community

A dedicated website: <http://academics.aldebaran-robotics.com>

Nao Academics Edition	
	Date added
<h2>Documents</h2>	
Order by:	Name Date Hits Descending
Choregraphe installer v1.3.13 Mac Leopard	
Choregraphe is a cross platform application that allows the user to edit the movements and behaviors of Nao. It is built around the concept of mixing time-based and event-based approaches to create rich behaviours. The timeline is best suited to create and edit motions and multimedia material, and allows the user to switch between different execution contexts, while the event manager offers the possibility to arrange behaviours and edit their triggering.	Hits: 3 08/03/2009
Download Details	
Choregraphe installer v1.3.13 Win32	
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Download Details	



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Technologies

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Profile: Arabelle Gauthier
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Ask ALDEBARAN: Share your personal questions about the San Francisco and Lawns

Topic	Topic ID	Last Post
General Moderators: support	17	18 Working on 1-1-1 members working 10/10/2010 10:01:00 AM
Operating, hosting and Rent Moderators: support	7	12 Re: Hosting 10/10/2010 09:44:00 AM Re: 10/10/2010 09:44:00 AM Re: 10/10/2010 09:44:00 AM Re: 10/10/2010 09:44:00 AM
Complaints and cross-complaints Moderators: support	6	21 Re: 10/10/2010 09:44:00 AM Re: 10/10/2010 09:44:00 AM Re: 10/10/2010 09:44:00 AM
Help Moderators: support	10	10 Re: 10/10/2010 09:44:00 AM Re: 10/10/2010 09:44:00 AM
Values and Audit Requests Moderators: support	17	17 Re: 10/10/2010 09:44:00 AM

Download Center for software updates



ALDEBARAN

Robotics Platform

Welcome!

We are proud to present our's first documentation, that aims to support everyone from novices to advanced users in their development with us.

We hope that this will bring you as much fun and excitement as we had developing it.

The team behind:

With this version of documentation is updated for Kortex 2. Interbot
Guitard J., Saper L., Saper G., Serey R.

Documentation - Ver 1.3.13

 Getting Started
Changelog

 Web API Modules

 Best Practices

A dedicated forum:

- Community: be in touch with other Nao owners
 - Support: talk with the Aldebaran Robotics Support and R&D teams



Online Documentation



Thank
you!
...and see you
soon