

Cognitive technologies take into account the individual user, the user's environment, as well as the method of interaction.

By integrating cognitive function into their development, cognitive technologies are continuing to improve added value to products and services in this new and increasingly adaptive area.



Involve humans in your technology mix to improve innovation potential within your company

With "Start-up", bilateral research into cognition, The Cognition Institute offers your company a unique approach to solutions using integrated, multi-disciplinary strategies.

Areas of action are: intelligent objects and environments, strengthening and reinforcing the human role, (inter) connected humans.

The markets addressed

- Transport
- IT, media and telecommunications
- Health and e-health
- Leisure and sport, education, e-commerce, home automation

Cognitive Technologies

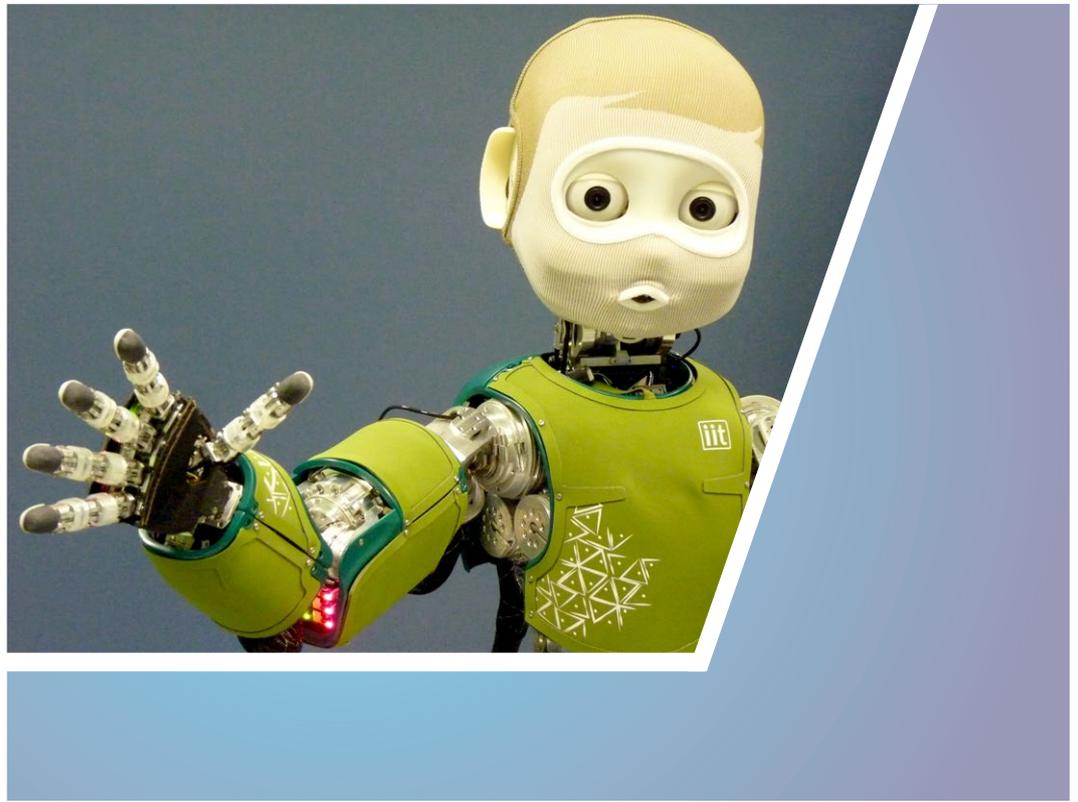
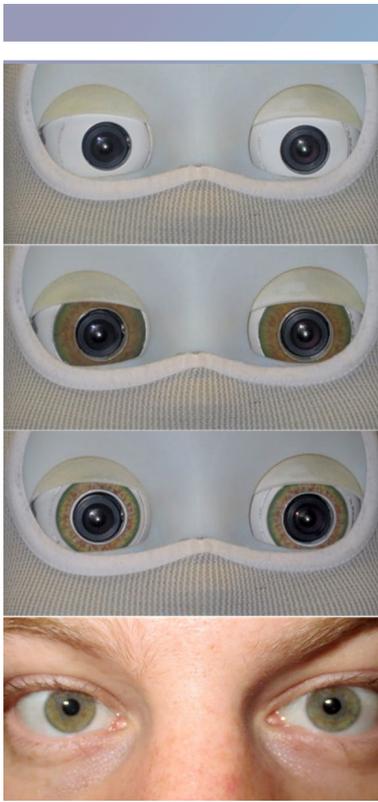
Cognitive technologies enhance the added value of products and services in the context of user application: taking into account the individual users, their environment and the method of interaction being applied.

From their conception, cognitive technologies integrate factors coming from an understanding of their cognitive functions and human behaviour: EMOTION - PERCEPTION - ATTENTION - MEMORY - DECISION - REASONING - LANGUAGE - VISION - STRESS - DEVELOPMENT - HEARING - TOUCH.

The technology solution

Cognitive technologies are implicated in all economic sectors, bringing together man-man and man-machine interactions. Cognitive expertise plays a role in the conception of functions which enhance the value of supplied or perceived functions, design, the variety of uses and the added value for the end user.

- ➔ Accessibility
- ➔ Home support
- ➔ Tele-diagnostics
- ➔ Autonomous systems
- ➔ Urban transport
- ➔ Training
- ➔ Decision making aid
- ➔ Man-machine interface
- ➔ Personalised packages
- ➔ Training and education
- ➔ User behaviours
- ➔ Robotics
- ➔ Simulation



Scientific approaches

The Cognition Institute has three scientific axes:

- ➔ **Enhanced cognition:** cognitive remediation, regulation of emotions, human enhancement, deficiencies (audio, vision, age), design and perception.
- ➔ **Cognitive collaboration:** social cognition, social interaction, group decisions, mutual beliefs, pragmatism.
- ➔ **Cognitive artificial intelligence:** mixing the machine learning approaches, models and evaluations, human experiments.

The Cognition Institute offers a unique approach to integrated solutions that address your problems in a multi-disciplinary manner.

Its areas of action are targeted at:
objects and intelligent environments,
strengthening and reinforcing the human role, (inter) connected humans.



Research staff
 (full-time equivalent): **962**
 including PhD students: **393**

Partnership income
 with industry: **5,2 M€**
 Global budget: **47,9 M€**

CONTACTS

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