

### Manifesto



Our goal is to imagine real life scenarios in which stakeholders, in their day-to-day life, get to interact with artefacts characterized by their autonomy and a life of their own. Observing these relationships and life experiences will allow us to build new ecologies of living together.

Al and robotics were scientifically born more than 60 years ago, but they are now a technological, economic and social reality. Today is a crucial moment in human history, as much scientifically as culturally. Beyond a techno-centered imaginary scenario or the perspective of living under the benevolent care of empathetic artefacts, we urgently need to study and anticipate further paths for a world shared with robots.

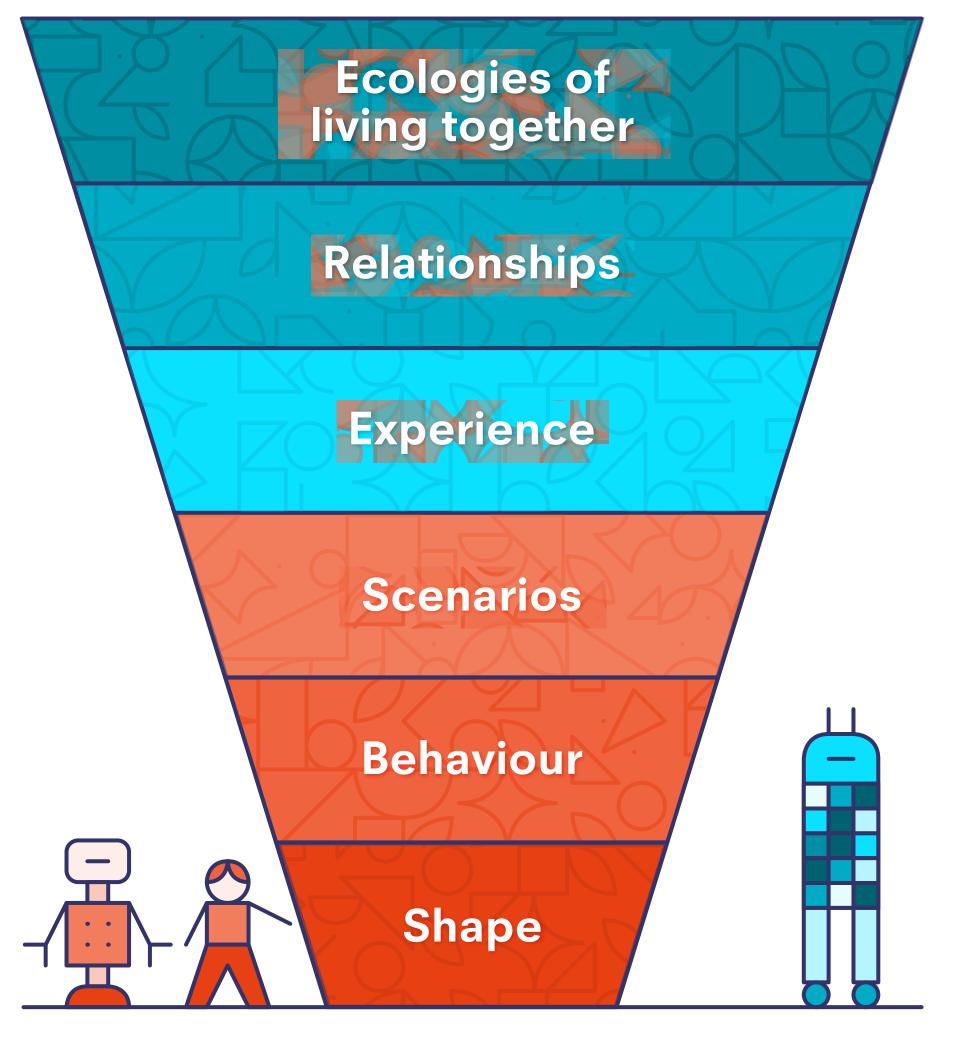
**Design** brings forward the user experience and becomes a mediator between technological advances and

#### human society search for meaning.

Thanks to its ability to use creativity to imagine new narratives, Robotics by

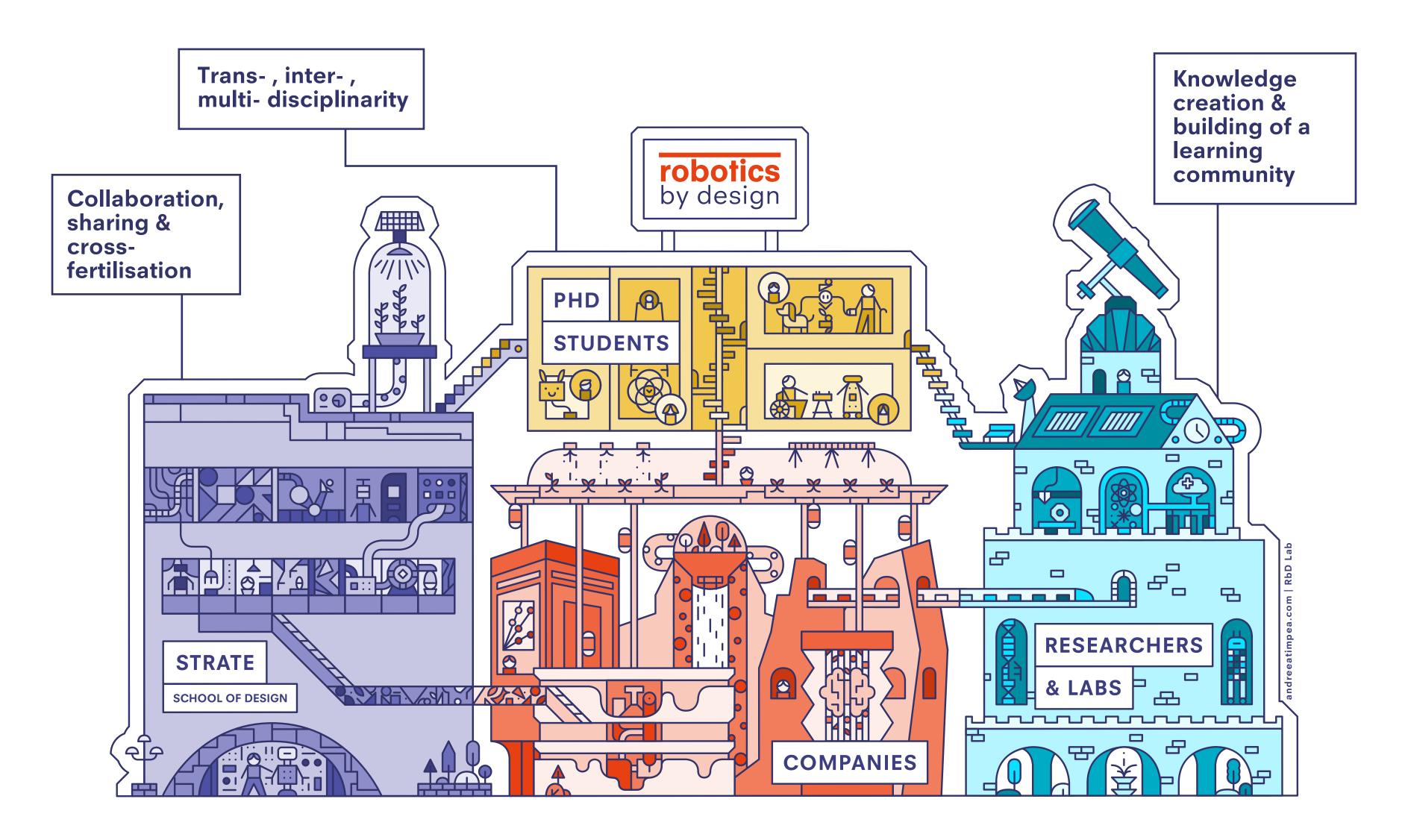
Design Lab (RbD Lab) aims to
envision, create, experiment, and
prototype concrete life situations
featuring emerging technologies in
the short, medium and long term.

Through a multidisciplinary approach,
RbD Lab asks fundamental questions
about the roles, interactions and
relationships between humans and
technologies, to invent a new ecology
of living together.



**DESIGN + ROBOTICS + AI + SOCIAL SCIENCES** 

## A common lab, shared knowledge



Active industrialists, hosting PhD students, trained and managed by Robotics by Design Lab partners, researchers and academic labs.

#### **FOUNDER**



#### PHD DIRECTION







#### **DESIGN PARTNER**



#### **INDUSTRIAL PARTNERS**





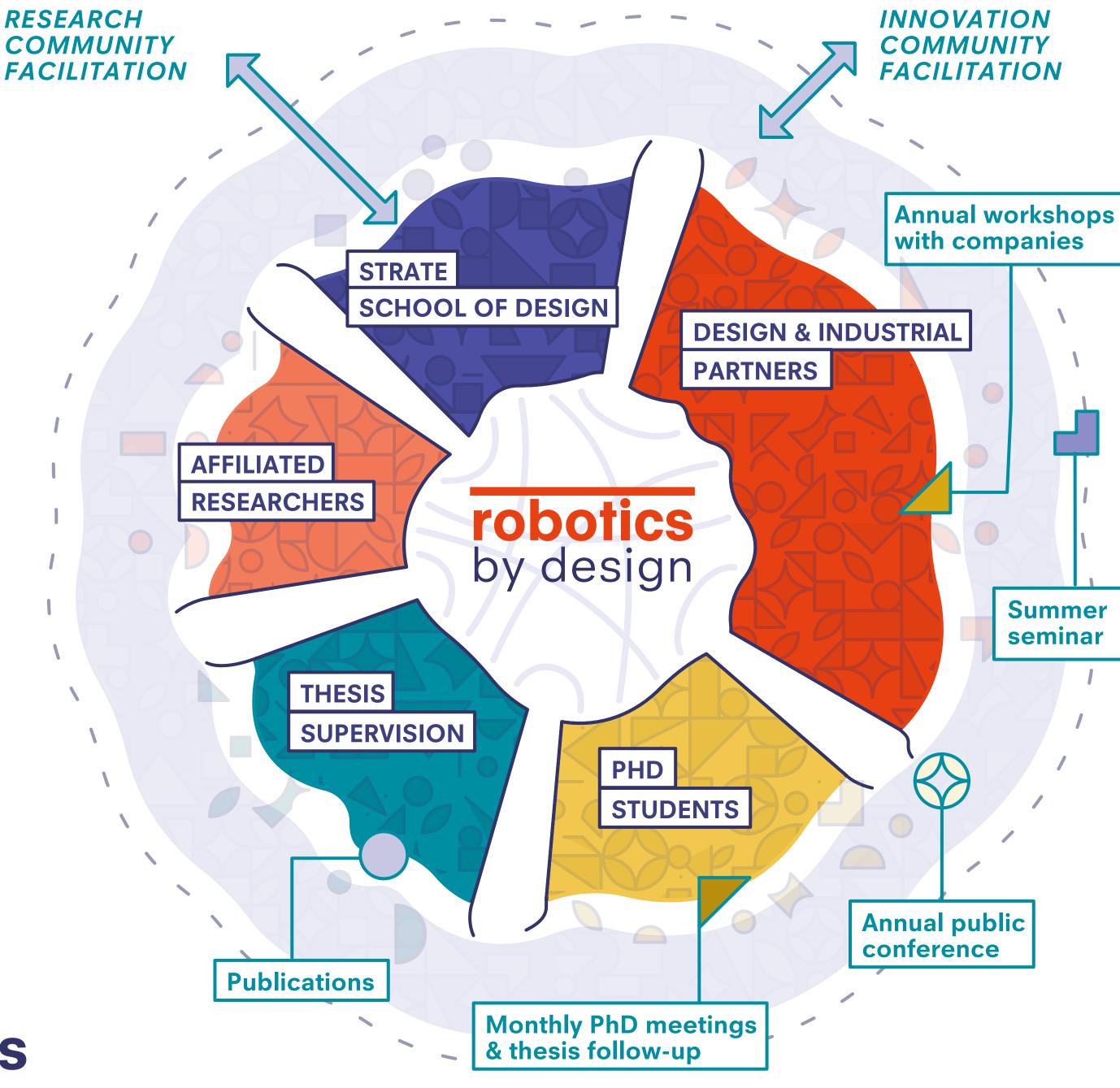


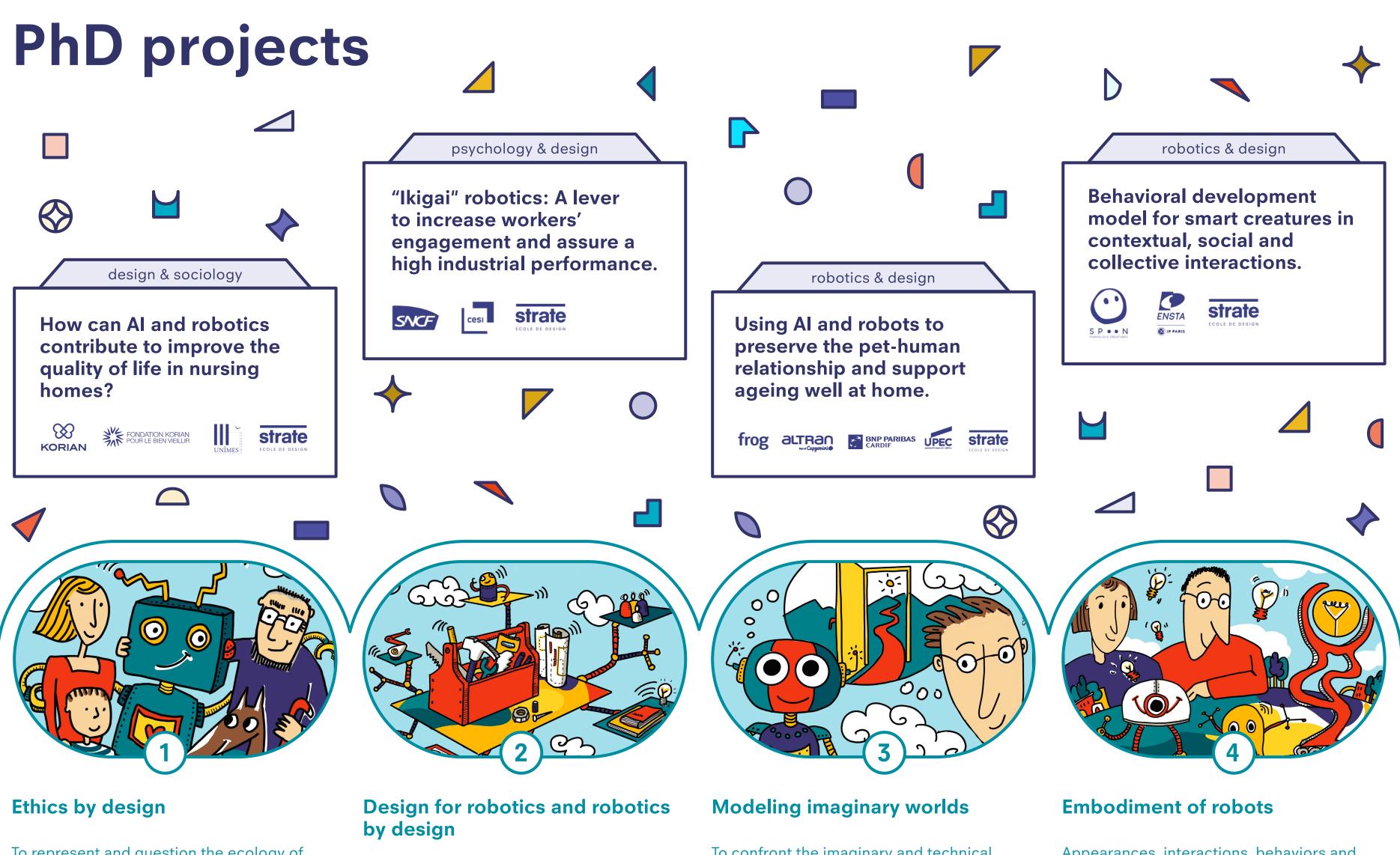






# Operations & (inter-)actions





To represent and question the ecology of living together with new technologies (robots and AI): imbalance, new balance, organization models in a holistic approach.

A common experimentation platform to test and implement a new pedagogy, methodology, and tools for research projects and new jobs spanning both disciplines. To confront the imaginary and technical realities of robotics to challenge and create valuable representations of what User-Centric Robotics could mean.

Appearances, interactions, behaviors and roles: data and representations, from objects to systems and from systems to objects.

### Research themes

### **Activities and benefits**

# Tangible benefits for the **RbD** partners:



**10 doctoral** meetings per year: joint working group of PhD students



Thesis supervision.



1 dedicated annual workshop per lab partner to help infuse innovation inside each company.



1 Summer camp to work on high-priority themes



**1 Annual public conference** to present the RbD lab work and outputs.



4 transversal research themes for all partners



International recognition in robotics thanks to research publications



Business operational excellence improvement



Expansion of companies' customer base



Employee training on innovation by design

# Intangible benefits for the **RbD** partners:



Increase in the company's knowledge of innovative topics in robotics



Get the latest academic and industrial knowledge from renowned academic partners



**Share knowledge and best practices** with a group of experts



**Cross-fertilisation & open innovation** with actors in different sectors of activity



Share **testing grounds** for Al and robotic applications



Open new avenues for **industrial collaboration** between the lab partners



Change by **design through cultural integration** workshops



Contribute to **brand image** 



Benefit from shared work with **public and international research labs** 



