İSTANBUL
CHAMBER OF INDUSTRY

enterprise
europe
network
Business Support on Your Doorstep

ISTANBUL
DEVELOPMENT
AGENCY

ISTANBUL PROJECT ACADEMY

İTÜ NOVA
TEKNOLOJİ TRANSFER OFİSİ

TTO
Boğaziçi Üniversitesi
Teknoloji Transfer Ofisi A.Ş.

İSTANBULTTO
TEKNOLOJİ TRANSFER OFİSİ

KOÇ ÜNİVERSİTESİ

MİTTO
MARMARA ÜNİVERSİTESİ
İNOVASYON VE TEKNOLOJİ
TRANSFER UYGULAMA VE
ARAŞTIRMA MERKEZİ

YTÜ YILDIZ
TEKNOPARK

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ISTANBUL PROJECT ACADEMY

enterprise europe network

Business Support on Your Doorstep

Horizon Europe Cluster 1:

Health Brokerage Event

Project Idea / Field of Expertise :

Technology
–Human Machine interaction
- Data management

Organisation Name:

École supérieure des technologies industrielles avancées (ESTIA)

Addressed Topic(s) & Call(s):

HORIZON-HLTH-2023-TOOL-05-03:
HORIZON-HLTH-2023- TOOL-05-05

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Organisation name

- École supérieure des technologies industrielles avancées (www.estia.fr)

- Founded in 1996, the ESTIA INSTITUTE OF TECHNOLOGY is a general engineering French school training trilingual versatile engineers, to undertake positions such as product engineer, supply chain planner/manager, quality manager, production manager, and project manager.
- The ESTIA campus is an ecosystem which includes:
  - Engineering courses & masters degrees
  - Research teams in technology
  - Technical platforms
  - A company incubator

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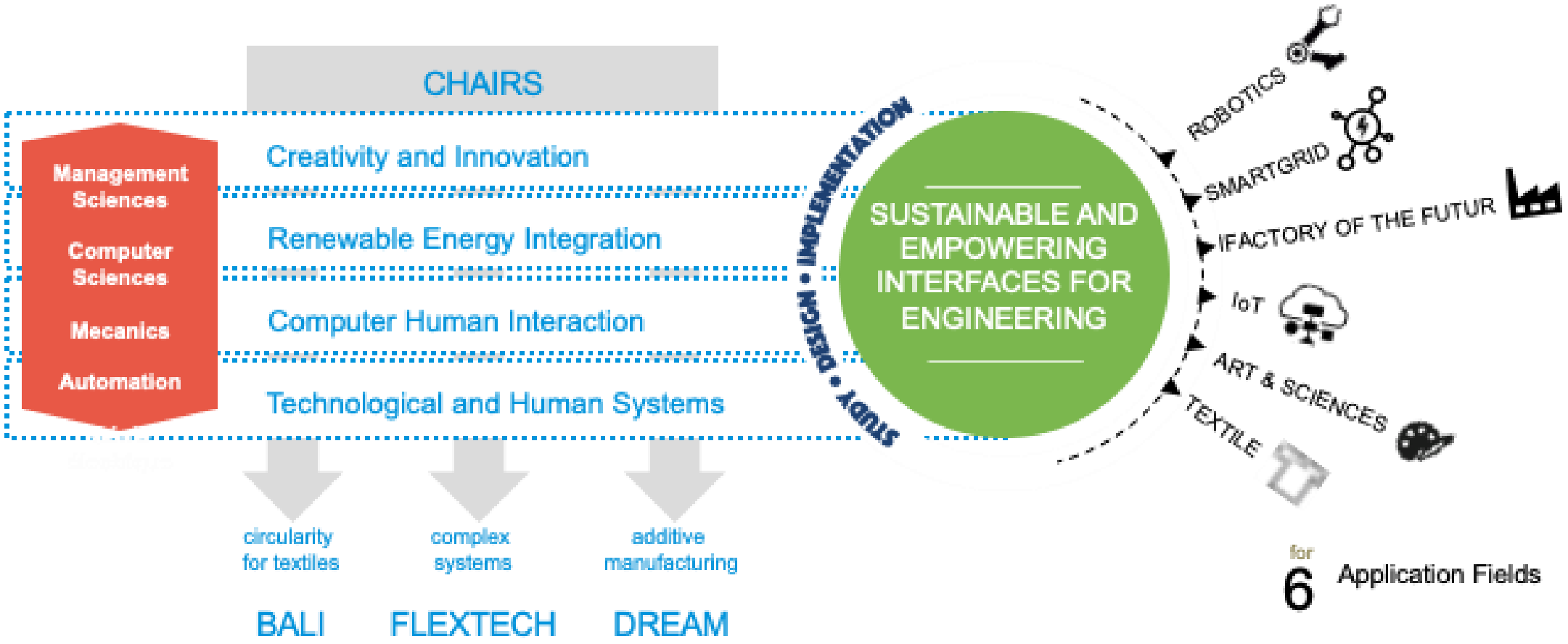
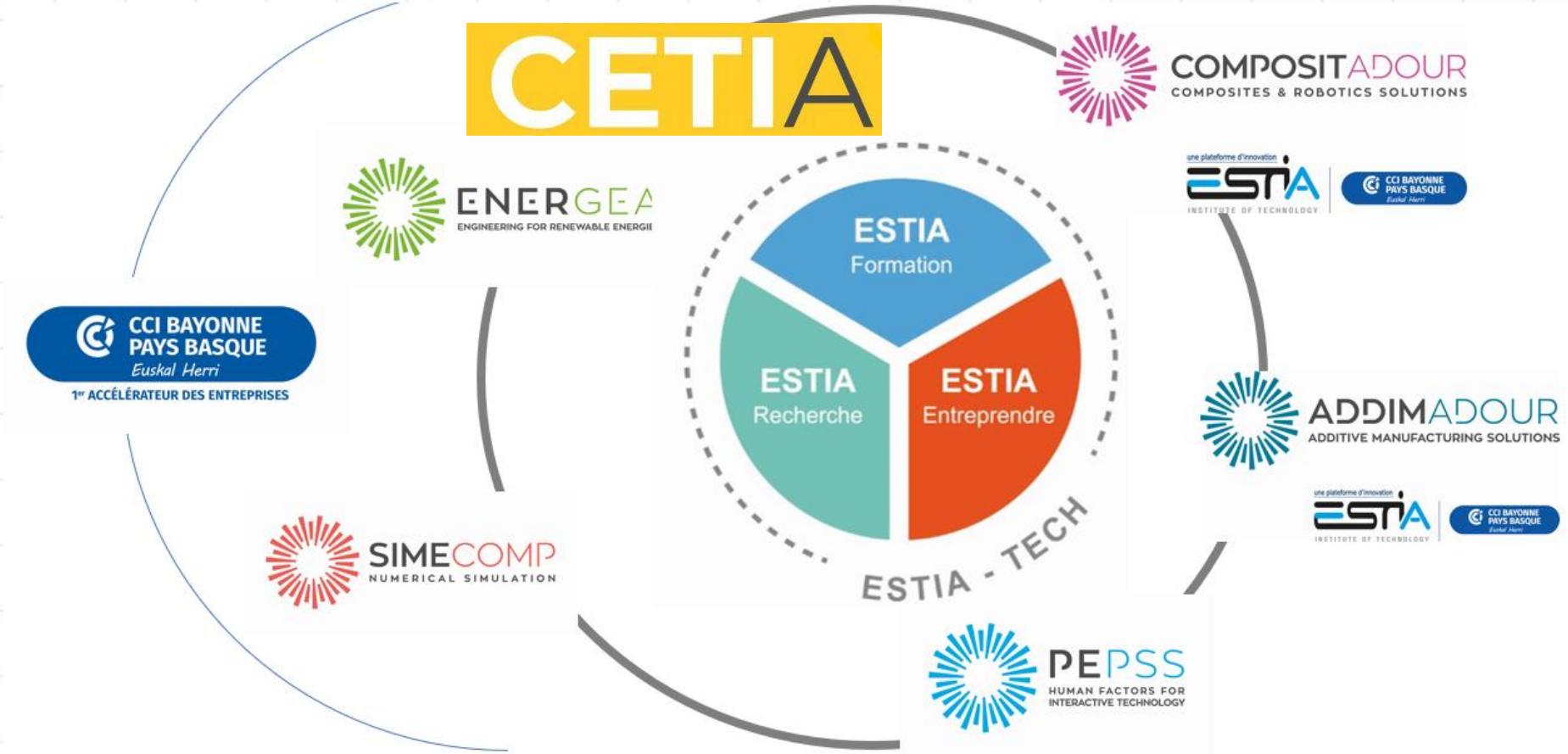
Lab Experience and Key Projects



ESTIA expertise

ESTIATECH is the entity in charge of value-added research and technology transfer, fosters relationships between ESTIA and businesses looking for technological solutions, skills and training for their innovative projects, and stimulates partner-oriented research.



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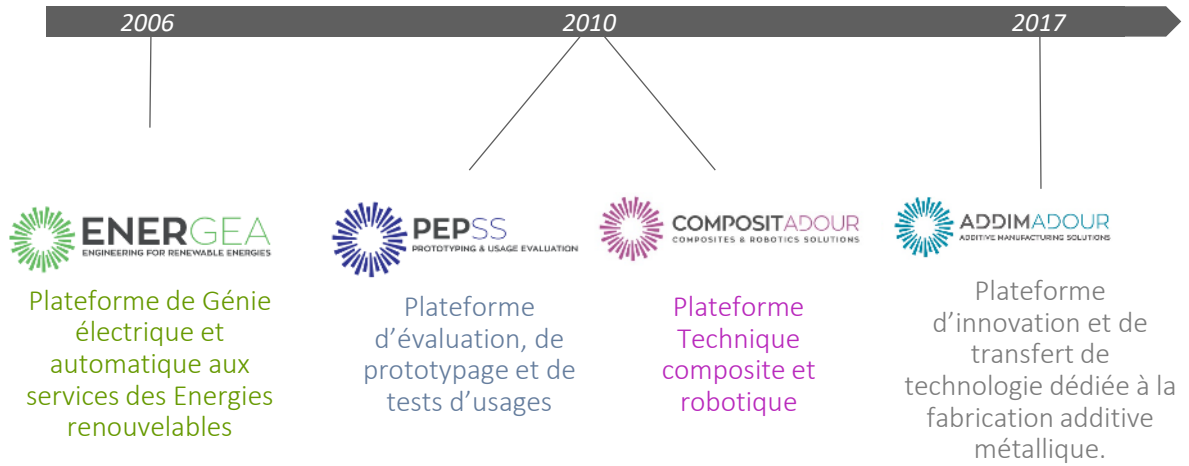
ESTIA Platforms

Support for research activity

Support for teaching

Support and guidance for companies

Since 2006



Composites

KEYWORDS

Thermoplastic / Thermoset composites
Dry fibre / AFP (Automated Fibre Placement)
ATL (Automatic Tape Lay-up) / RTM (Resin Transfer Moulding)
LRI (Liquid Resin Infusion) / Stamping / Compression moulding

RESEARCH TOPICS

Automated composite parts lay-up:

- Development of lay-up equipment
- Programming of draping strategies
- In-situ consolidation of thermoplastic composites
- Alternative heat sources technologies

Non-Destructive Testing

Injection / Infusion of experimental matrixes

High rate manufacturing, stamping/forming and press consolidation

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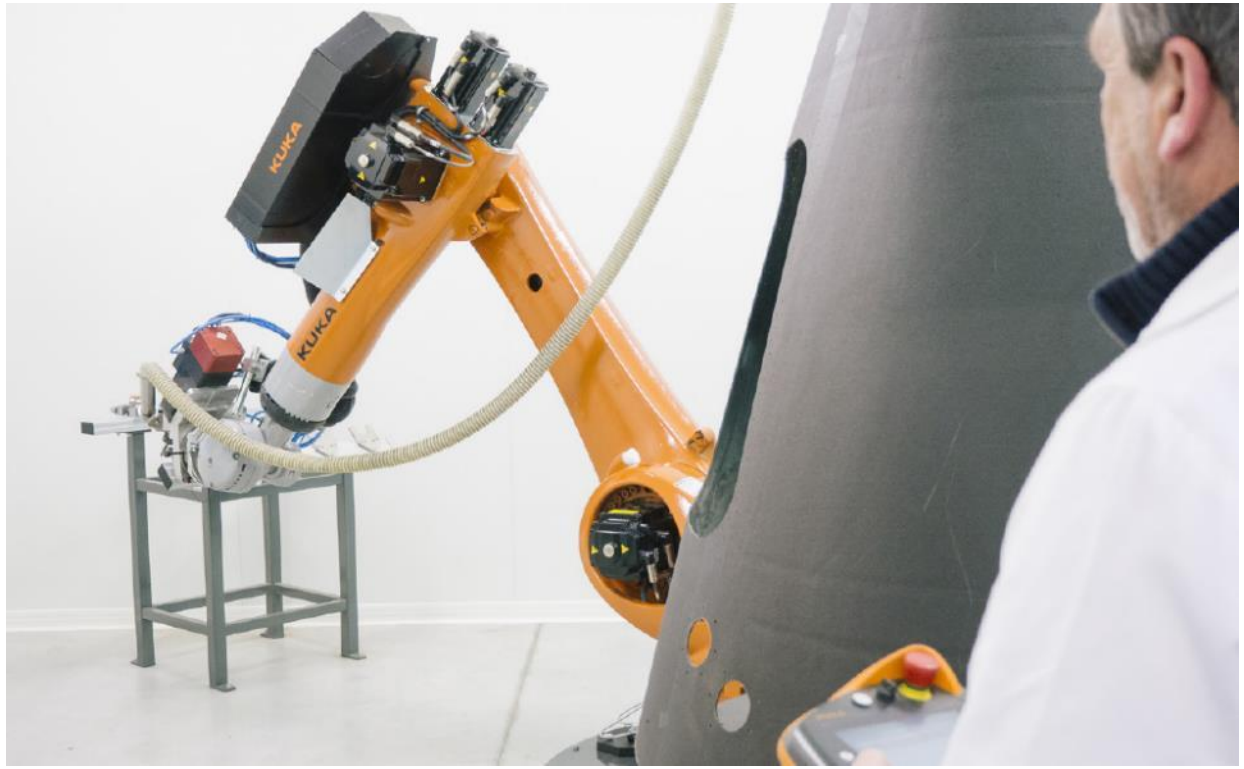
COMPOSITES & ROBOTICS SOLUTIONS

ESTIA
INSTITUTE OF TECHNOLOGY

Robotics



KEYWORDS
Robotics simulation / Numerical twin / CAM
Offline trajectories generation
Software development / NDT / Ultrasound

RESEARCH TOPICS

Online robot control with external sensors feedback:
- Robot precision improvement
- Remote control, teleoperation

Control command of complex systems:
- Automatic trajectories generation
- Process control development

Oneline control, nondestructive testing

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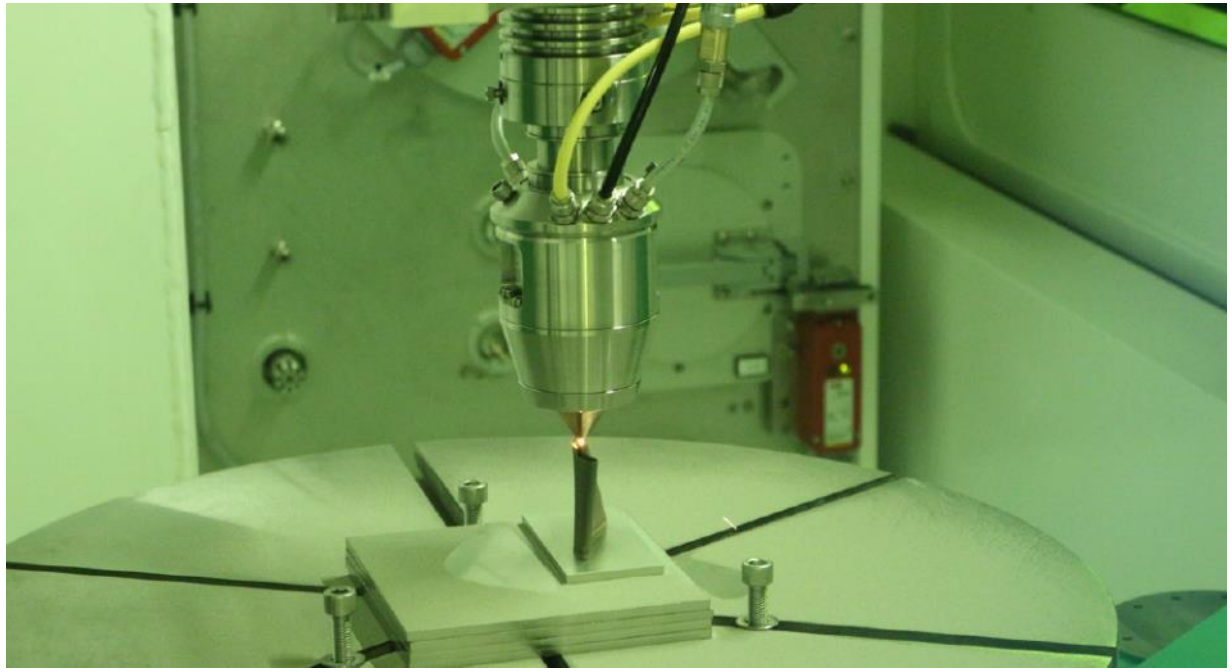
Additive Manufacturing



KEYWORDS
Large parts Metal Additive Manufacturing
Feature addition / Repair / Numerical process simulation
Topology / Optimisation / Metallurgy / LMD-P / LMD-W
WAAM / SLM / Coldspray

RESEARCH TOPICS

Mechanical characteristics improvement of parts obtained by Additive Manufacturing:

- Determination of optimal Key Process Parameters to obtain material soundness
- Development of real-time instrumentation for monitoring and post-process control
- Development of deposition strategies tailored to Additive Manufacturing processes

Multiphysics numerical simulation of Additive Manufacturing processes:

- Thermal, mechanical and metallurgical simulation for behaviour prediction (residual strains and deflection)
- Topology optimisation (Finite Element Method structural design for performance/weight ratio enhancement)

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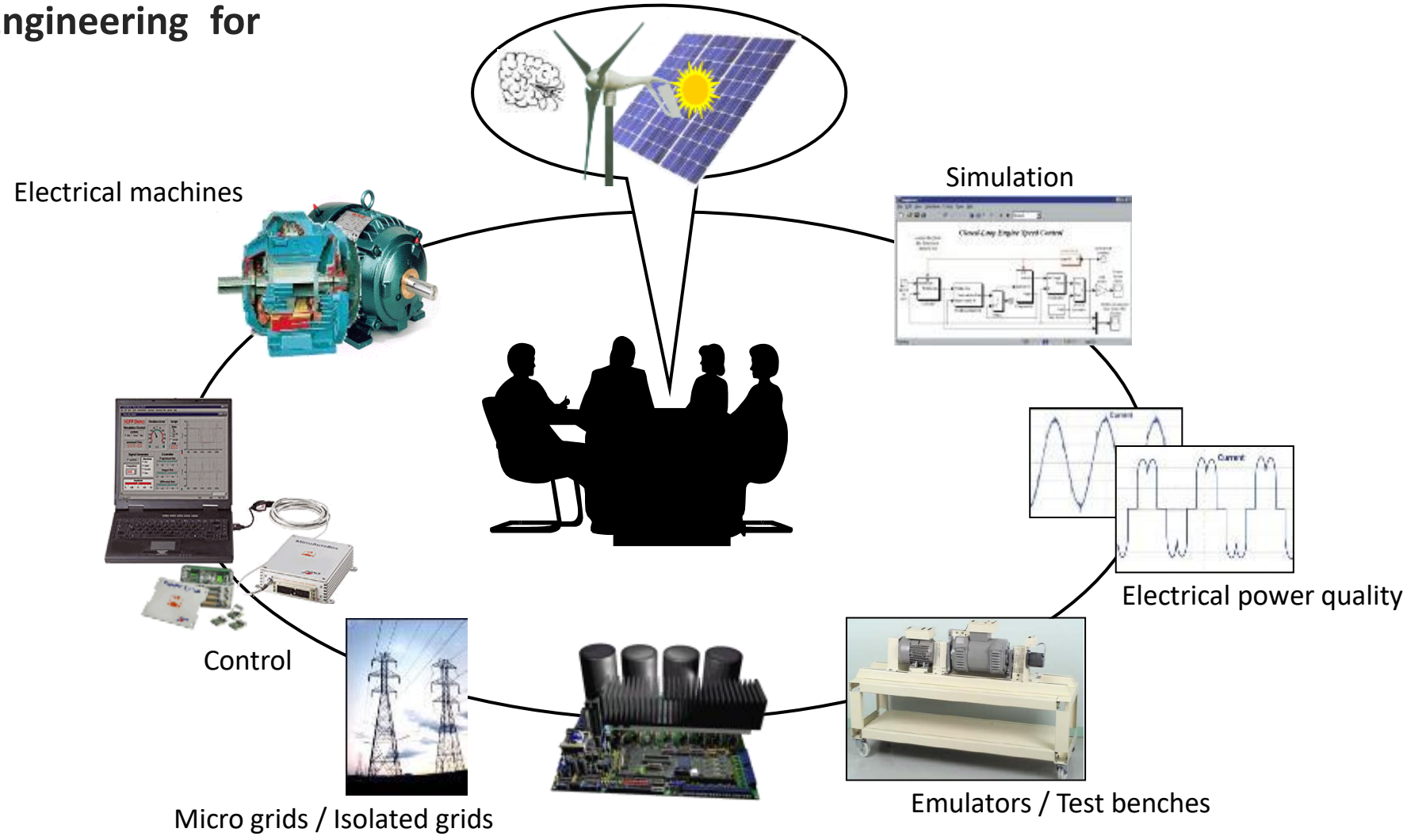
ESTIA Platforms

Electrical and Automatic Engineering for Renewable Energies

- Automatic
- Power Energy
- Control
- Energy storage
- Smart grid



ENERGEA
ENGINEERING FOR RENEWABLE ENERGIES

ESTIA Platforms

- User centred design
- Human Computer Interaction / Integration
- Behavioral and Morphological Modeling

Platform for Prototyping, Evaluation and Usability Testing

PEPSS HUMAN FACTORS FOR INTERACTIVE TECHNOLOGY

UNIVERSITÉ PARIS DESCARTES

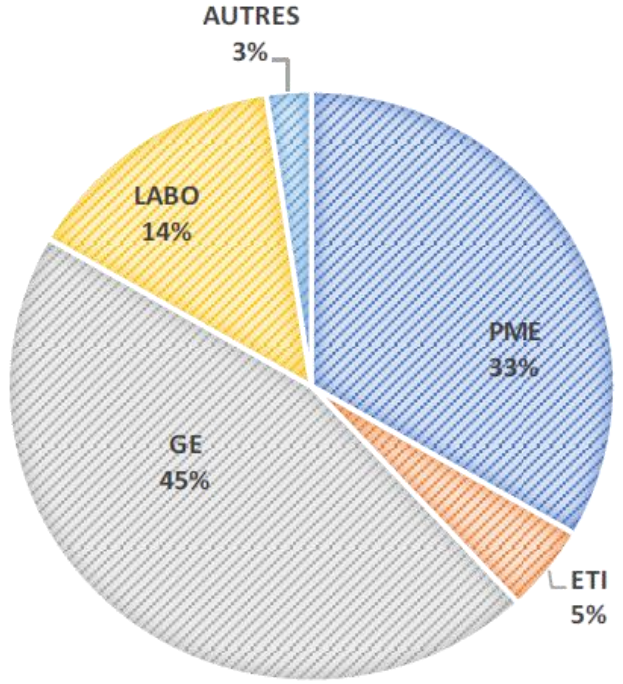
- Prototyping innovative systems
- Facilitate the interaction between people and between a human and a system
- Model human behavior: use, appropriation and emotion

Partnership research commitments

- ESTIA contracts with around fifty companies per year, mainly in the aeronautics and aerospace, energy and oil & gas sectors

- For 2019 : Global Turnover : 2.600.000€
- For 2020 : Global Turnover : 2.400.000€

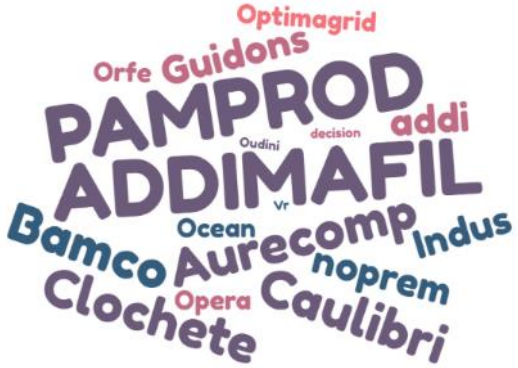
- For 2019 : EU and National funding : 3.900.000€
- For 2020 : EU and National funding : 3.500.000€



Ongoing collaborative projects

20 EU projects

15 national projects



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THANK YOU...