

Technological innovations accelerator

IN SPORT, HEALTH AND WELL-BEING INDUSTRIES

Carnot STAR Institute gives a boost to your innovation and supports your project from beginning to end. It describes your needs to researchers, guides your project and ensures the development follow-up.



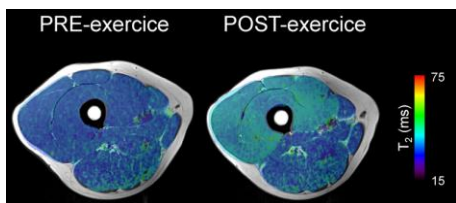
Our mission: Support our customers at the development stage of their innovative ideas

Driven by a multi-disciplinary team and several technological platforms, the Carnot STAR Institute aims to support research projects spanning a bridge between public laboratories and private companies. Thus, public research expertise can be put at the service of your industrial needs:

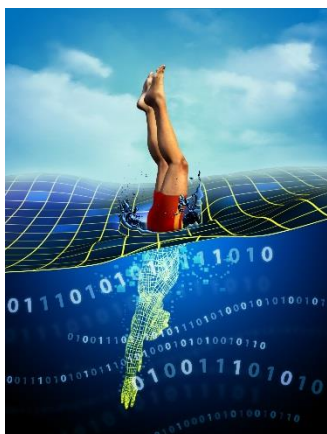
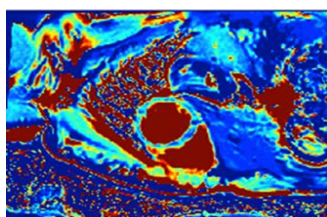
- Research & Development
- Consulting and expertise
- Experimentation and product qualification
- Proof of concept
- Development assistance

Targeted markets :

- Sport industry
- Connected Health
- Biomedical imaging



An integrated approach of sports



High performance

- Geo-tracking
- Simulation
- Nutrition
- Prevention
- Augmented and virtual reality

Adapted sports

- Pathology
- Disability
- Materials
- Big Data



- Sensors
- Biomarkers

Leisure

- Biomedical imaging
- Sports equipment
- Connected devices
- Modeling

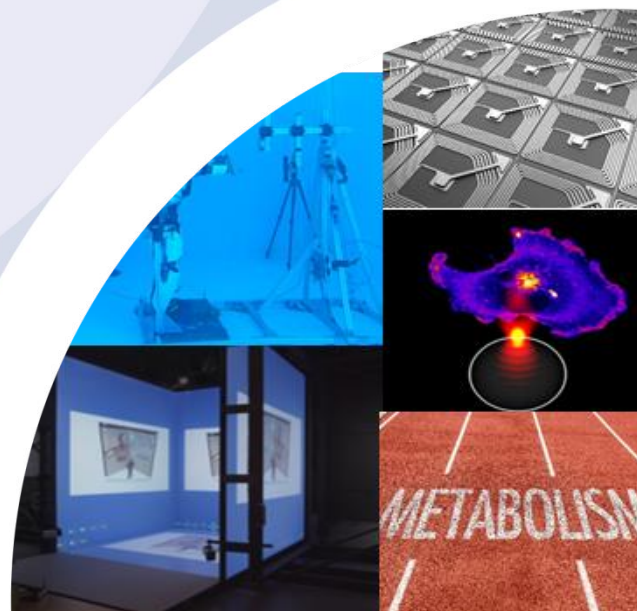
Silver economy

- Movement sciences
- Biomechanics

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A differentiating range of competences and resources

- Man-machine interface
- Characterisation of the human being in his sport activities
- Design of ergonomic material for performance, diagnostics and training
- Biomechanical, physiological, neurological and psychological studies of sporting gestures
- Development of Software (modelling and simulations related to sport materials)
- Development of communicating objects for the collection, processing and restitution of data
- Augmented and virtual reality
- Design of implants, prosthetics and orthosis
- Development of new non-invasive biomarkers
- Nutrition

An efficient ecosystem

- Competitiveness clusters : Eurobiomed, SCS, Optitec
- Technology transfer: SATT Sud-Est
- Incubators : Impulse, Belle de Mai

Responding to societal challenges

- Aging population
- Increase of healthcare expenditures and efforts to keep them under control
- Personalized health care
- Prevention policies to foster the “age well” process
- The need for competitive differentiation through innovation and high added value

8 Research units

- IM2NP
- Institut FRESNEL
- CRMBM
- INT
- ISM
- LBA
- LSIS
- NORT

Technology platforms

- TechnoSport
- CERIMED
- CRIBIOM
- CEMEREM
- Neurosciences
- RFID
- Biomechanics
- CRVM
- ...

Research staff (full-time equivalent): **682**

Including PhD students: **287**

Partnership research income: **10,1M€**

Global budget : **22 M€**

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