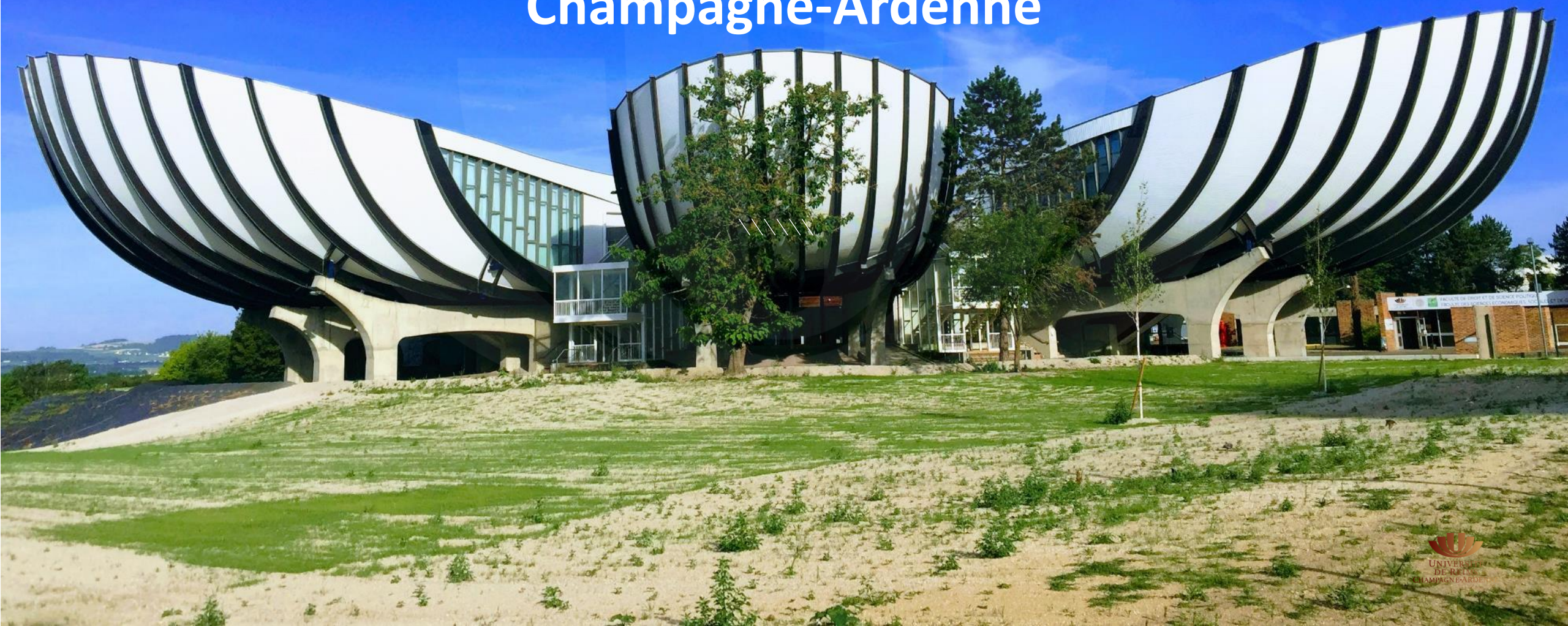
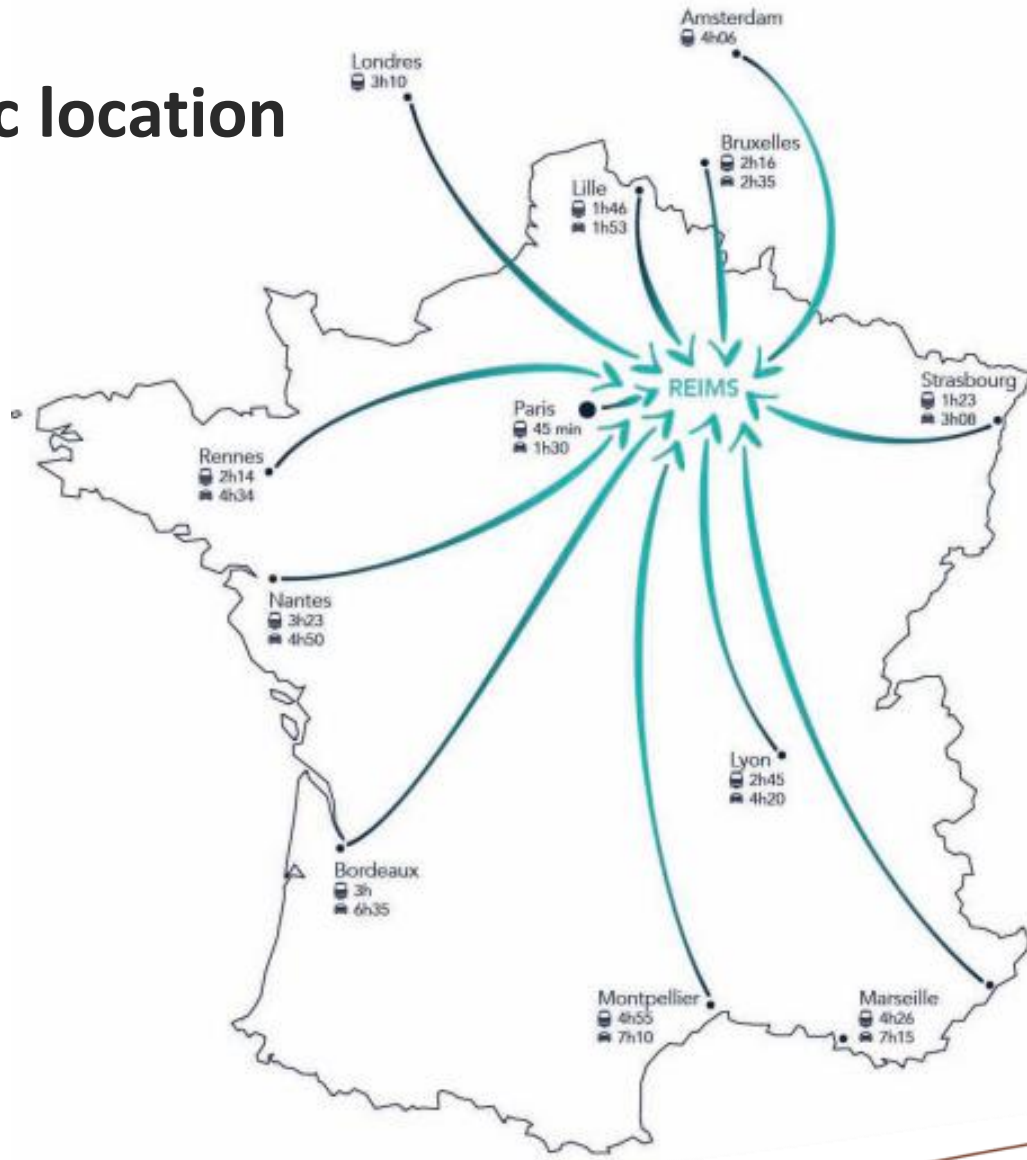


# University of Reims Champagne-Ardenne





# A strategic location

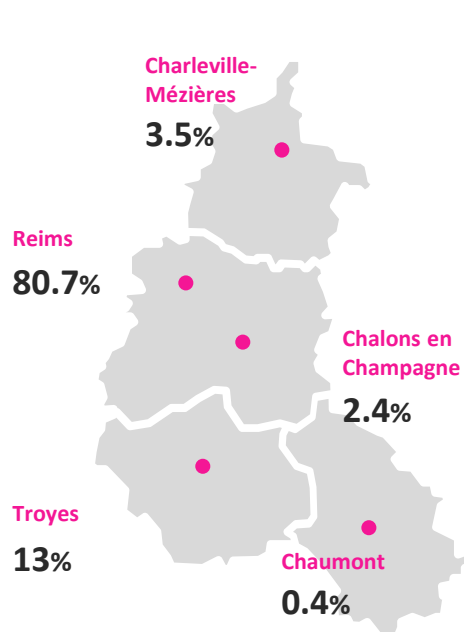


Located at the heart of France, at the crossroad of Rhineland, Northern Europe and Italy, URCA has a strategic position for European and international exchanges.

Reims is a student friendly city with a rich cultural and historical background



# The university is a driving force in the region



- 5** Towns in Champagne Ardenne
- 8** faculties
- 2** engineering schools
- 1** INSPE (higher national institute of teaching and education)
- 4** Doctoral Schools
- 2** IUTs (university institutes of technology)
- 1** champagne vine and wine Institute
- 31** research units
  - 4 CNRS, 1 INSERM, 2 INRAE (1UMR,1USC), 1 INERIS, 1 ANSES, 1 CEA

 **29,100** students

- Chalons en Champagne : **650**
- Charleville-Mézières : **940**
- Chaumont : **110**
- Reims : **23,900**
- Troyes : **3,500**


 **5th**

biggest employer in the former Champagne-Ardenne region  
(source INSEE)

 **6,537** jobs sustained in the region

 **2,500** staff

- 1,460** Teachers and teacher-researchers
- 1,040** Library, research engineers, administrative, technical, Social and Health staff

 **+ than €255 M** of economic impact (wealth created) for the region

# A constantly evolving training offer

	2018-2022
Bachelor degrees	24
Vocational Bachelor degrees	48
Technology Bachelor degrees	16
Master's degrees	54
Engineers degrees	7
Health degrees	8

› Click [here](#) to access training offer by degree

## RANKING

Medical Technology Field at URCA – **301-400th**  
*(Shanghai Ranking of Academic Subjects)*

Master in statistics for evaluation and forecasting – **3<sup>rd</sup> in big data / 1<sup>st</sup> University**  
*(Eduniversal 2021)*

Master in Wine and champagne – **4<sup>th</sup> in wine and gastronomy management**  
*(Eduniversal 2021)*



# Study at URCA

## FACULTIES (UFR)

Faculty of Literature and Human Sciences (Link [here](#))

Faculty of Economic, Social and Management Sciences (Link [here](#))

Faculty of Law and Politics (Link [here](#))

Faculty of Exact and Natural Sciences (Link [here](#))

Faculty of Science and Techniques of Physical and Sport Activities (Link [here](#))

Faculty of Medicine (Link [here](#))

Faculty of Pharmacy (Link [here](#))

Faculty of Odontology (Link [here](#))

Campus of the Counts of Champagne (Link [here](#))



# Study at URCA

## INSTITUTES

**IUT RCC** - University Institute of Technology in Reims-Châlons-Charleville (Link [here](#))

**IUT Troyes** - University Institute of Technology in Troyes (Link [here](#))

**IVV** - Georges CHAPPAZ Institute of Champagne vine and wine (Link [here](#))

**Inspé** - National Institute of Higher Education and Teaching (Link [here](#))

## SCHOOLS

**ESIREIMS** - Packaging and Conditioning Engineering School (Link [here](#))

**Doctoral Schools** (Link [here](#))

**Eisine** - School of Engineering in Industrial and Numeric Sciences (Link [here](#))



## Study at URCA

# GEORGE CHAPPAZ INSTITUTE OF CHAMPAGNE VINE AND WINE (IGC)

The IGC showcases research and higher education in Champagne vine and wine through interdisciplinary collaboration, as its expertise relies on the exact sciences and technology, as well as social sciences and humanities.

IGC is also part of a **strong network** which involves higher education institutions of the region, research clusters, local and regional authorities and businesses of the Champagne region and champagne industry, to carry innovative techniques and production process of wine and champagne.

INSTITUT  
**GEORGES  
CHAPPAZ**  
VIGNE & VIN EN CHAMPAGNE  
VillasDouce&Bissinger



# Study at URCA

## OENOLOGY NATIONAL DIPLOMA

- **URCA is one of the two universities in France** that deliver this national diploma
- **Bachelor level required** in biological, chemical, biochemical or agronomic sciences
- **Two years of training including two internships, at Georges CHAPPAZ Institute of Champagne vine and wine** with classes mutualized with the Master in Wine and Champagne
- Click [here](#) to get more information

INSTITUT  
**GEORGES  
CHAPPAZ**  
VIGNE & VIN EN CHAMPAGNE  
VillasDouce&Bissinger

  
**UNIVERSITÉ  
DE REIMS**  
CHAMPAGNE-ARDENNE

  
UNIVERSITÉ  
DE REIMS  
CHAMPAGNE-ARDENNE



# Courses available in English

## MULTIMEDIA AND INFORMATION TECHNOLOGIES –

### Troyes Institut of Technology

- Topics : Integration Content Manager Section
- Click [here](#) to get more information

## CORPORATE AND ADMINISTRATION

### MANAGEMENT – Troyes Institute of Technology

- Topics : Administration, Management, Commerce
- Click [here](#) to get more information

## BUSINESS AND MARKETING – Troyes Institute of Technology

- Topics : Marketing, Sales & Commercial communication
- Click [here](#) to get more information

## MECHANICAL & MANUFACTURING

### ENGINEERING – Troyes Institute of Technology

*(Spring Semester)*

- Topics : product design, product manufacturing and operations management
- Click [here](#) to get more information

→ Kindly note that we are still in process of building our training offer in English, do not hesitate to contact us if you would like to know more about our English taught courses.



# Courses available in English

## ELECTRICAL ENGINEERING & INDUSTRIAL IT –

### Troyes Institute of Technology

- Topics : Electricity, Automation, Computer Science
- Click [here](#) to get more information

## BIOLOGY AGROSCIENCES MASTER DEGREE– Science Faculty in Reims

- Topics : Agro-ressources and biorefinery
- The fall semester of the first year will be shared with the Erasmus Mundus Bioceb taught at URCA
- Master level (equivalent level : fourth year)
- Click [here](#) to get more information

## ENGINEERING SCHOOL IN PACKAGING – ESIReims

- Topics : packaging design, material resistance, computer-aided design and prototyping, etc
- Up to 3 semesters available from bachelor level to 1st year of Master equivalent
- Click [here](#) to get more information

## ENGINEERING SCHOOL IN ENERGY ENGINEERING – ESIReims

- Topics : material resistance, thermodynamics, convective heat transfert and energy system
- Bachelor level
- Click [here](#) to get more information

→ Kindly note that we are still in process of building our training offer in English. Do not hesitate to contact us if you would like to know more about our English taught courses.





# Learning French at URCA

## INTERNATIONAL CENTER FOR FRENCH LANGUAGE (CIEF)

- Possible **taylor-made programmes** : French & Sciences
- **Free classes** for Exchange Students
- **6 different levels**, each composed of 16 to 20 hours of weekly courses, with at least 1 hour of autonomous work in the Languages Resources Centre (CRL), guided by a teacher-tutor
- Mentoring for students ([click here](#))
- DU Passerelle – Students in exile ([click here](#))



# An international university



**2,900**

International students  
(122 nationalities)



**74**

funded projects in  
the last 5 years



**481**

cooperation  
agreements with



**185**

partner  
establishments in



**59**

countries  
worldwide



**Member of the EUA** – European University Association

Member of the **International Associated Laboratory**  
(LIA) of the CNRS “Absorption Spectroscopy of  
Molecules of Atmospheric or Planetological Interest” -  
SAMIA

Joint master’s degree **in bioeconomy “Erasmus Mundus  
BIOCEB”** with **4** European universities





# An international university



COMMITTED TO PROVIDE THE BEST EXPERIENCE TO OUR INTERNATIONAL STUDENTS

## Events

- Welcome Days
- International Students' Day
- Cineclubs

## Programmes

- Language Tandem
- Buddy programme & Buddy Family
- Tutoring



# Joining a European University Consortium

URCA will join a transnational **alliance of European Universities** called **INVEST**. This alliance gathers **five others European universities** including Leeuwarden in the **Netherlands**, Joensuu in **Finland**, Nitra in **Slovakia**, Tessaly in **Greece** and Plovdiv in **Bulgaria**.

This alliance focus **on sustainable and regional development**.



Co-funded by the  
Erasmus+ Programme  
of the European Union





# A player in major social issues



Disability



Equality  
and  
diversity



Professional  
codes of  
ethics



Sustainable  
development and  
social responsibility



Secularism and  
countering racism  
and anti-Semitism



Student  
healthcare



# Contributing to SDGs



Over the period from 2016 to 2021, URCA's publications related to 15 of the 16 Sustainable Development Goals

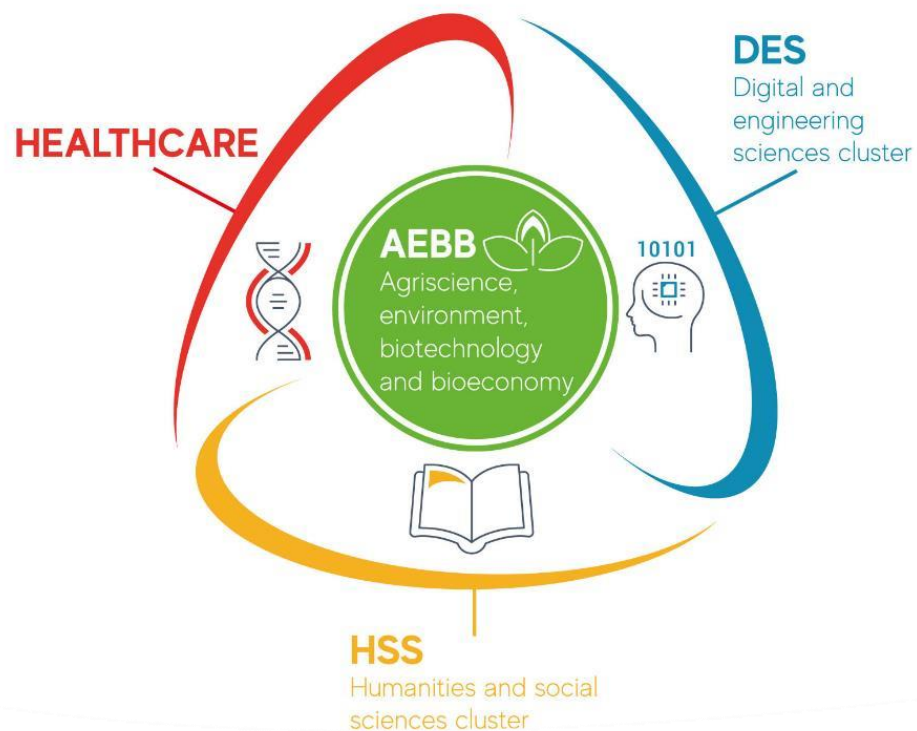
The first SDG that stands out for URCA is Good Health & Well being



Box size indicates Web of Science Documents ©

# Research at URCA

A strategic training, research and innovation project based around four scientific application clusters focused on a regional, national and European priority: Bioeconomy



**850**

researchers and teacher-researchers

**31**

Approved laboratories

4 CNRS, 1 INSERM, 2 INRAE

(1UMR,1USC),

1 INERIS, 1 ANSES, 1 CEA

**13**

technological platforms and technical facilities

**1**

LIA (International Associated Laboratory) CNRS SAMIA (Absorption Spectroscopy of Molecules of Atmospheric or Planetological Interest)

**4**

Research federations

**FR CNRS Condorcet** : Agricultural sciences, environment and sustainable development (URCA / UPJV / ULG /CNRS supervision)

**FR CNRS MNGE** Grand Est Materials and Nanosciences (Unistra supervision)

**FR GE@2M** –Grand Est Federation in Mechanics and Materials (University of Lorraine supervision)

**SFR Cap Santé** (URCA supervision)

**8**

Academic and industrial chairs

Including 1 INSERM and 1 ANR chair

**4**

Doctoral Schools

Including 1 joint with AgroParisTech (AEBB)

500 PhD students




# EXEBIO, an International Institute for Bioeconomy within URCA


In July 2022, URCA has been **awarded a National investment programs** for Higher Education of **22 millions euros** over 10 years, by an international jury.


This project, called EXEBIO, will create an **International Institute for Bioeconomy** within the University, in line with our scientific and academic policy and priorities.






# Training/Research/Innovation structuring projects

**01**  (Institute of Artificial Intelligence for Health)



**02** DeMETeRE (PIA 4 DemoES) 


**03** MesoNet (EquipEx+) 

**04** Junior pr chairs  
Atmospheric and carbon cycle sciences   
Bio-sourced, eco-designed, multifunctional materials 

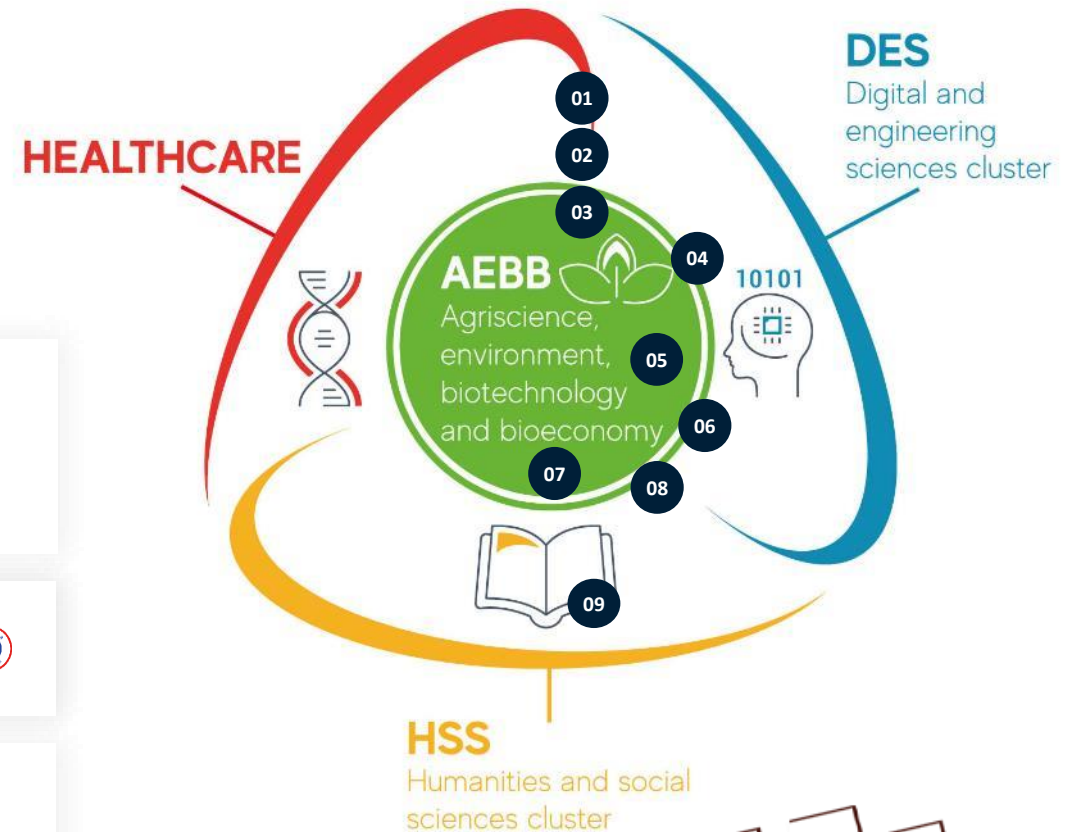
**05** CMQ for BIOECO Academy excellence (PIA 3) 

**06** Obs4clim (EquipEx+)  
LabCom LYNNA    
Chair   

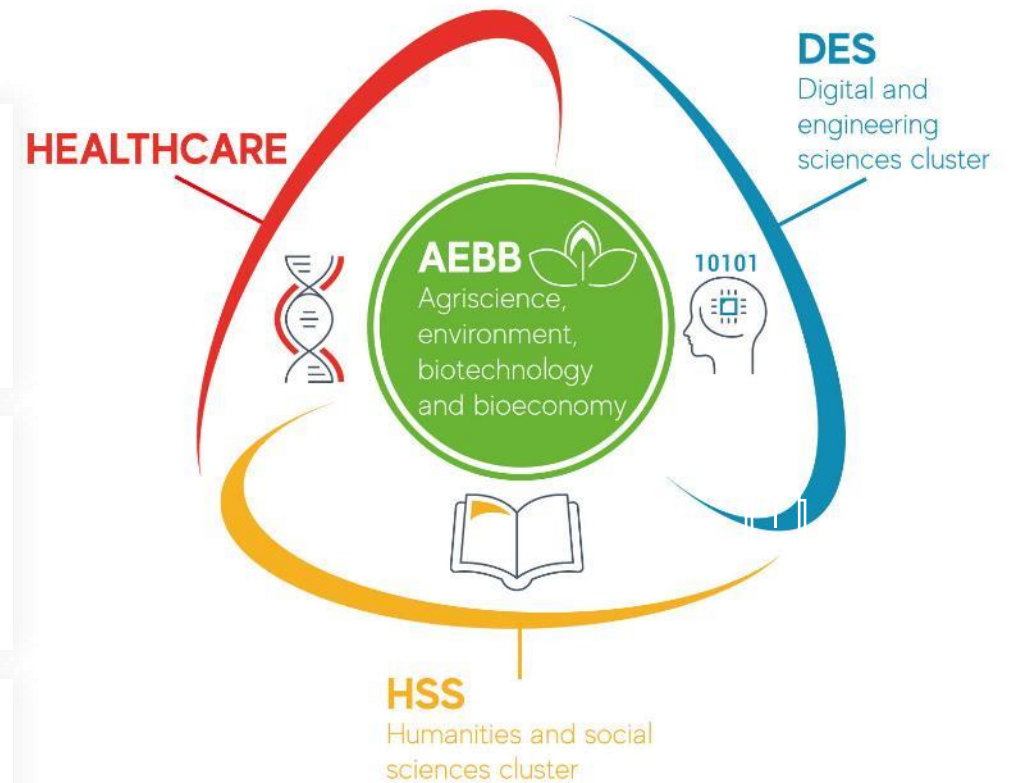
**07** EXEBIO (PIA 4 Excellences)   
*submission of application February 2022*  
ZARG (Argonne Workshop Zone) 

**08** Terraforma (EquipEx+) 

**09** Human Sciences Establishment



# 5 technological platforms to link teaching, research, innovation, and knowledge transfer (21 M€)

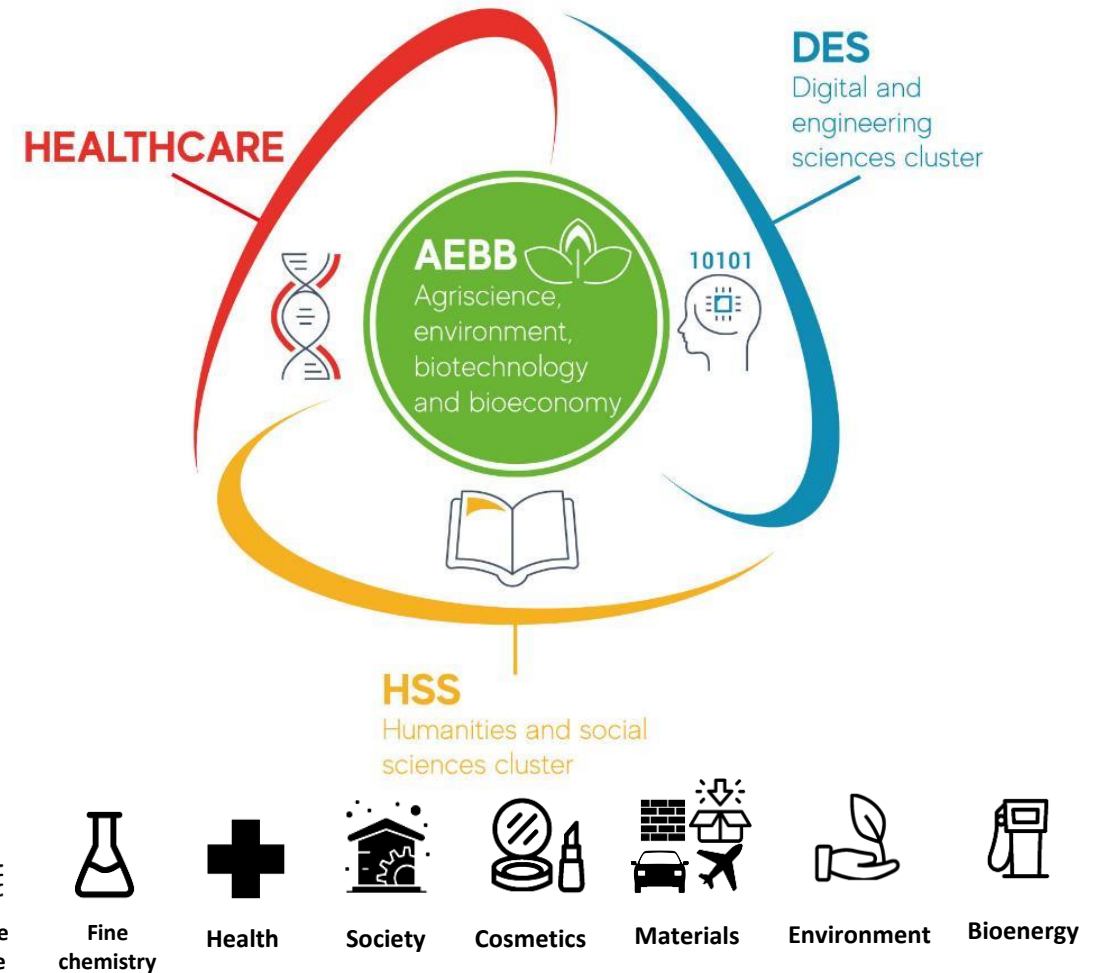




# AEBB Cluster expertise at URCA

## 8 main research areas

- ✓ Sustainable crop production: biocontrol & biostimulation
- ✓ Environment
  - ✓ Soil & Water management
  - ✓ GHG emissions measurements & their impacts on climate
- ✓ Production of biomolecules & biopolymers: green chemistry and white biotechnologies
- ✓ Biobased materials for industries: construction, textile, bioplastics for cars, planes, health and cosmetics
- ✓ Energetic valorization of biomass: methanization
- ✓ Societal impacts of bioeconomy: acceptability, new trades, economical systems, reindustrialization



# AEBB Cluster Strike Force

## 15 LABORATORIES

4 CNRS, 1 INERIS, 2 INRAE

## 1 DOCTORAL SCHOOL

Agriculture, food, biology, environment, health - ABIES (Paris-Saclay University, Agreenium, Paris-Est University & URCA)

## 7 TECHNICAL PLATFORMS

CERFE, Mobicyte, PLANET  
ROMEO, P3M, PICT IBISA, Nanomat'



## 2 KEY STRUCTURING INTERDISCIPLINARY PROJECTS

AEROLAB – Monitoring GHG emissions

ZARG – Territorial ecology

## 1 CNRS RESEARCH FEDERATION

FR CNRS Condorcet on Agrosciences, Environment & Sustainable Development (URCA / UPJV / ULg / CNRS)

680 researchers, 30 laboratoires

3 European Regions : Grand Est, Hauts-de-France, Wallonia

## 6 ACADEMIC & INDUSTRIAL CHAIRS

### AFERE

Agroressources  
FERmentation Enzymes  
UMR FARE

### MALDIVE

Vine wood disease  
USC RIBP

### AQUASURV

Development of tools for the  
biomonitoring of aquatic  
environments  
UMR SEBIO

### ATMOSFERE

Greenhouse gases  
UMR GSMA

### MAGICS

Molecular medelling  
UMR MEDYC

### MATUR

Architected materials  
ITHEMM

# A favourable context for the development of the bioeconomy

## AGRICULTURE AND VITICULTURE-BASED ECONOMY IN THE GRAND EAST REGION

### A REGIONAL PRIORITY

Become European leaders in bioeconomy by supporting the development of production and use of regional resources (agricultural and forestry biomass, household bio-waste, etc.)

### BIOECONOMY FOR CHANGE (B4C) CLUSTER

- 450 Partners
- 2 billions € investment
- 350 funded projects





# A favourable context for the development of bioeconomy

## EUROPEAN CENTRE FOR BIOTECHNOLOGY AND BIOECONOMY (CEBB)

- URCA
- AgroParisTech
- CentraleSupélec
- Neoma BS



## POMACLE-BAZANCOURT BIOREFINERY

- Gathers biorefinery industries and innovation platform « Biorefinery Research and Innovation »
- Main centre for French agri-industrial research

# Focus on bioeconomy

## BIOECO ACADEMY

- Careers and qualifications campus (CMQ) bring together secondary and higher education institutions for initial or continuing training in sector of excellence corresponding to a national or regional economic challenge and supported by local authorities and companies
- Facilitate the integration of young people into employment and enable companies to hire "well-trained" employees
- BioEco Academy CMQ gather 80 higher education courses related to bioeconomy in the region federated in a unique French campus in Reims
- Promotes modular and mixed courses, centered on professional and continuous training (last year of secondary education until 3rd year of Higher Ed)



CAMPUS  
DES MÉTIERS  
ET DES  
QUALIFICATIONS  
D'EXCELLENCE

Bioeco Academy  
Grand Est

# Focus on bioeconomy

## MASTERS

### BIOLOGY AND AGROSCIENCES

- Plant Biomass Production and Bioprotection
- Biotechnologies, Plant Chemistry and Biorefinery

### SCIENCES OF VINE AND WINE

- Viticulture and Environment
- Wine and Champagne

### RISKS AND ENVIRONMENT

- Biodiversity, Health, Environment
- Environmental management, Waste, Energies

### CHEMISTRY AND LIFESCIENCE

- « Molecular chemistry » course relevant to strategic sectors of application in URCA/ bioeconomy, environment and health cosmetics

### APPLIED ECONOMY

- Ecological transition and public policies. This master program offers students skills in the main societal impacts of bioeconomy worldwide.

### CMI BIOREFINERY

- Since 2016, a « Master-Engineer » curriculum on “Biorefinery and Bioeconomy” has been developed to complement the existing program (5-year integrated cursus starting from L1 to M2)





# Focus on bioeconomy

## ERASMUS MUNDUS JOINT MASTER DEGREE BIOCEB

- « **Biological and Chemical Engineering for a sustainable Bioeconomy** »
- A vision based on a **sustainable use of biological resources**
- Fully taught in **English**
- Study (and life) experience in at least **2 European countries**, resulting (after acquiring 120 ECTS) in 3 MSc degrees from **prestigious universities**
- Started in **September 2020**
- **1st joint semester at URCA**
- <http://www.bioceb.eu/>

**Bioceb**  
European Master in Biological  
and Chemical Engineering for  
a Sustainable Bioeconomy

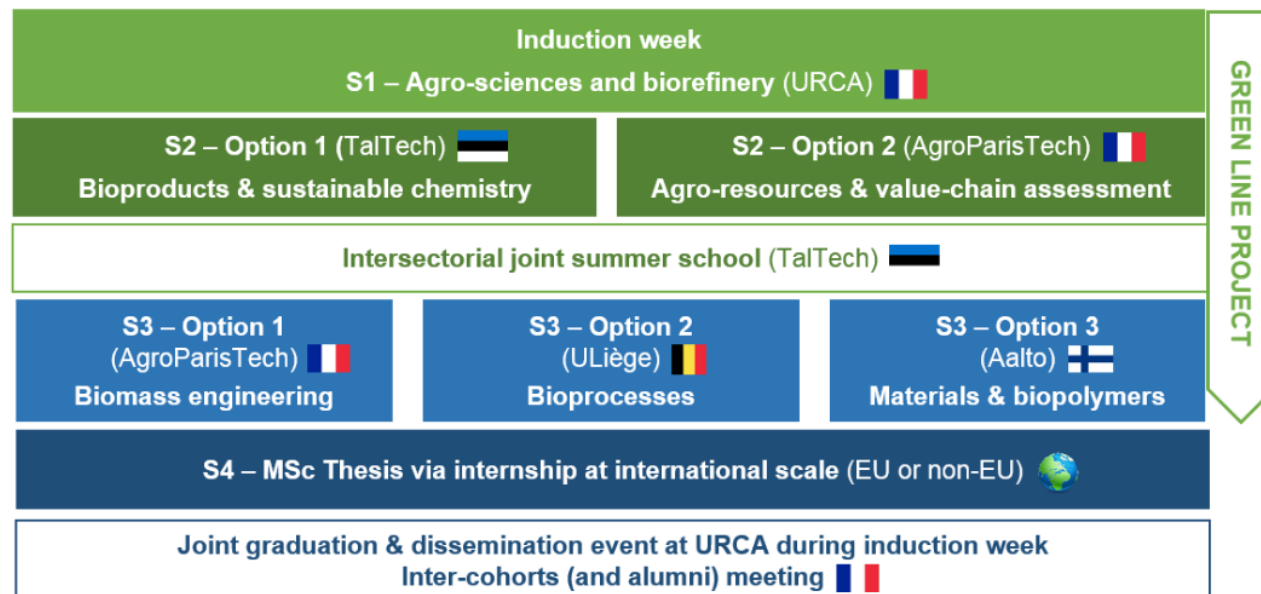


# Focus on bioeconomy

## ERASMUS MUNDUS JOINT MASTER DEGREE BIOCEB

S1 (URCA)	30 ECTS
Disciplinary strengthening in chemistry or biology and in process engineering	3
Physiology and genetic of plant development	6
Agricultural and viticultural soils	3
Plant-soil interactions	3
Plant components and biorefining	6
Molecular biology of microorganisms	3
Green Chemistry, biosourced, building-blocks	3
Green Line project – 1 <sup>st</sup> stage	3

Get the syllabus of these classes [here](#)



GREEN LINE PROJECT



**Track 1:** Bioproducts, green chemistry, biomass engineering

**Track 2:** Bioproducts, green chemistry, bioprocesses

**Track 3:** Bioproducts, green chemistry, materials, polymers

**Track 4:** Agro-resources, value-chain assessment, bioprocesses

**Track 5:** Agro-resources, value-chain assessment, materials, polymers



# Our entrepreneur students

2020/2021 year group

 **1**  
Student  
entrepreneurship  
cluster

 **1**  
incubator



**131**

project leaders



**22**

projects in incubation  
(in January 2021)



**20**

“Young  
Entrepreneurship”  
Grand Est aids



**164**

national statuses of  
entrepreneur students  
obtained



**13**

students enrolled  
in the D2E  
(Entrepreneur Student  
qualification )



**5**

creations of  
companies over the  
year



**99**

dossiers tracked in the pre-  
incubation programme



**10**

projects awarded a prize  
including 1 National PEPITE  
prize





# A network-based approach

## COMPETITIVENESS CLUSTERS



## MEDIA & LOCAL

### PRESS



## INDUSTRIAL PARTNERS



## LOCAL AUTHORITIES AND REPRESENTATION



## EXISTING PROGRAMS



### PIA



## PUBLIC RESEARCH BODIES



## ACADEMICS



## CAMPUS DES MÉTIERS ET DES QUALIFICATIONS



# THANK YOU FOR YOUR INTEREST IN THE UNIVERSITY OF REIMS CHAMPAGNE-ARDENNE !

Do not hesitate to contact our  
Department of international affairs at  
[dredi@univ-reims.fr](mailto:dredi@univ-reims.fr)

