



Udi

INSTITUTE

Littoral
Urbain
Durable
Intelligent

Smart Urban Coastal Sustainability

History

1993

Creation of La Rochelle Université

La Rochelle Université becomes autonomous (extended competences)

2009

2004

Convergence with the CNRS¹

2008

First labellisations by the CNRS:

- Creation of LIENSs²,
- Creation of the FREDD³

2011

The CRMM⁴, which joined the institution in 2004, evolves and becomes a Joint Service Unit (La Rochelle Université - CNRS): the PELAGIS Observatory

2014

Continued dialogue and contractualisation with the CNRS:

- Integration of the CEBC⁵
- Creation of the LaSIE⁶

2019

Creation of the EU-CONEXUS European University on the LUDI concept

2018

Adoption of the University's transformation project and the specialisation on Smart Urban Coastal Sustainability (LUDI): Creation of the LUDI Institute

2021

Operationalisation of the LUDI Institute

¹Centre National de la Recherche Scientifique

²Littoral ENVironnement et Sociétés

³Fédération de Recherche en Environnement pour le Développement Durable

⁴Centre de Recherche sur les Mammifères Marins

⁵Centre d'Etudes Biologiques de Chizé

⁶Laboratoire des Sciences de l'Ingénieur pour l'Environnement

Editorial



Jean-Marc Ogier
President,
La Rochelle Université

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Director,
LUDI Institute

La Rochelle Université is a widely recognised internationally at the highest level in training and research, following disciplinary and multidisciplinary approaches, around a unique signature in France and abroad on the Smart Urban Coastal Sustainability (LUDI in french).

The LUDI Institute focuses its efforts on the scientific niches in which La Rochelle Université has already gained international recognition and will extend them in an interdisciplinary and systemic vision.

The LUDI Institute also aims to respond to a major societal and economic challenge by targeting studies on the quality of life of populations living in coastal areas strongly impacted by global climate change.

Thus, the environmental transition is addressed from the perspective of integrated coastal zone management. The issues associated with the energy transition are addressed in close relation to the notions of sustainable construction and transport. Digital transformation, a major challenge in the evolution of our societies, is a strong element in the rapprochement of the so-called "hard" sciences and the humanities. The human and social sciences, at the heart of the LUDI Institute, are working on what "living in an urbanised coastline" means, combining the themes of the environment, sustainable construction and transport, and digital technology with a view to the livability and comfort of coastal urban spaces. This desire to provide answers to the challenges of tomorrow is also reflected in the support provided to public policies and in a strong European presence through the EU-CONEXUS European University.



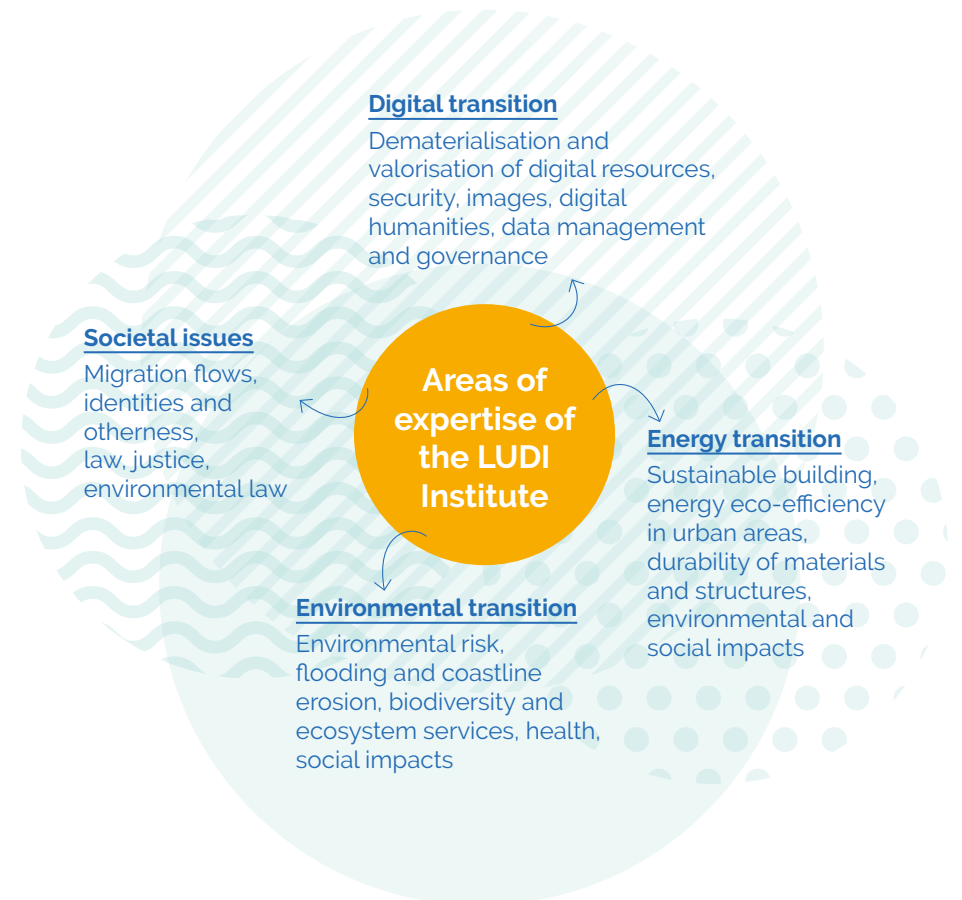


Broad-based, interdisciplinary themes

The ambition is to address all the scientific questions raised by the transitions and major societal challenges resulting from the anthropisation of the coastline. An incentive policy allows the emergence of new scientific questions, notably through an interdisciplinary approach.

To unite ↙

the potential of teacher-researchers, researchers, teaching and research staff around the societal challenges linked to sustainable development in coastal areas



Laboratories



To promote

a systemic and interdisciplinary approach to research and training, drawing on the disciplinary excellence of its researchers

CEBC: Centre d'Études Biologiques de Chizé UMR CNRS 7372

Ecology, Agro-ecology, Bio-logging, Physiology, Genetic, Statistics and modeling, Eco-toxicology

Agro-ecology/Contaminants/Conservation/Demography/Functional ecology

CEIR: Centre d'Études Internationales sur la Romanité

History of law

Romanity/Society/Law/Institutions/Antiquity legacy

CEJLR: Centre d'Études Juridiques de La Rochelle

Private Law, Criminal Sciences, Public Law, Political Science

Insurance/Companies/Environment/Europe/Justice

CEREGE: Centre de Recherche en Gestion (co-accredited with the University of Poitiers)

Management

Digitalization/Sustainable development/Corporate social responsibility

CRHIA: Centre de Recherche en Histoire Internationale et Atlantique (co-accredited with the University of Nantes)

History, Literature, Civilisation

Cities/Cultures/Migration/Atlantic/Americas

D2iA: Dynamiques, Interactions, Interculturalité Asiatiques

Languages, literatures and cultures of Asia, Geopolitics, History, Didactics.

Belt and Road Initiative/Diaspora/Religions/Representations/Linguistics, didactics

L3i: Laboratoire Informatique, Image et Interaction

Computer Science, Computer engineering, Automation, Signal processing

Digital Documents/Data Mining/Internet of Things/Artificial Intelligence/Big Data

LaSIE: Laboratoire des Sciences de l'Ingénieur pour l'Environnement UMR CNRS 7356

Engineering

Environmental Engineering/Civil Engineering/Modeling in mechanics and transfer phenomena/Material Design and behavior/Corrosion

LIENSs: Littoral Environnement et Sociétés UMR CNRS 7266

Biology, Ecology, Geophysics, Oceanography, Geography, History, Chemistry, Biotechnology, Environmental law, Political science

Ecology/Risks/Biotechnology/Sustainable management

MIA: Mathématiques, Image et Applications

Mathematics, Computer Science, Signal processing

Applied mathematic/Computer vision/Deep learning/Partial differential equations/Applied geometry

Observatoire Pelagis UAR CNRS 3462

Ecology

Conservation/Marine megafauna/Public policies/Strandings/At sea observations



Structuring

partnerships and creating objects together with companies



valbiotis

Start-up specialising in food supplements for disease prevention, which has been developing and exploiting technologies resulting from a collaboration with the University since 2014.

public/
private



A joint La Rochelle Université/CNRS/EDF R&D laboratory dedicated to the Energy and Environmental Efficiency of Envelopes and Cities, created in 2016, conducts research to improve the energy and environmental performance of buildings and the quality of life of the inhabitants of urban spaces.



Transfer unit specialising in the study of interactions between industrial activities at sea and marine fauna.



Joint La Rochelle Université/IRD/ USTH international laboratory created in 2014, specialised in the design and development of methods and tools combining surveys in different ICT fields.



European Centre for Digital Valorisation supported by the University, which aims to develop new economic opportunities by boosting innovations related to the dematerialisation and valorisation of content.

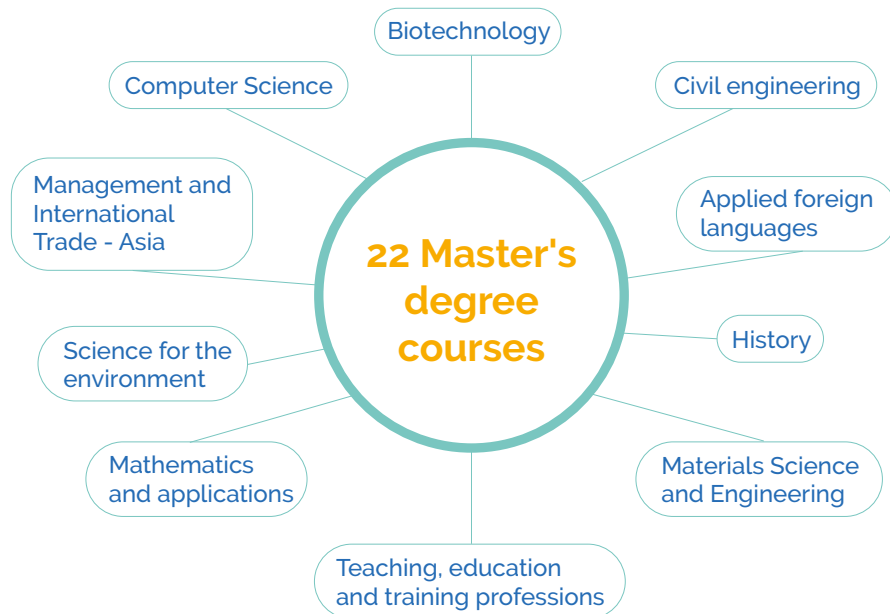
In order to fully play its role as an economic player in the region, La Rochelle Université has set up CampusInnov, a global approach based on partnership innovation, in order to develop and support projects.

Master training

To train

high-level professionals in the Institute's main disciplinary fields and to intensify the coupling of research and training from the master's to the doctorate level

The diversity of our training courses aims to train experts who will share a common culture of taking into account societal issues and a commitment to meeting the challenges of tomorrow.



With the European University EU-CONEXUS, joint masters will be set up with our 8 partners to train European eco-citizens.

1 multidisciplinary doctoral school

To produce international experts in different disciplinary fields of a very high level on the theme of Smart Urban Coastal Sustainability, with a systemic understanding of the issues of a theme clearly positioned as interdisciplinary.



Law



Mathematics, computer science



Management Sciences



Environmental sciences (biology, earth sciences, ecology, geography...)



Engineering sciences (materials, chemistry, physics, fluid mechanics)



Humanities and social sciences (history, literature, languages, cultures)

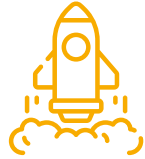
But also a lifelong learning offer to meet the needs of stakeholders and decision-makers for sustainable coastal management at local, regional, national and international levels.

Towards a European PhD with EU-CONEXUS

CampusInnov

To stimulate

a dynamic of innovation
contributing to the development
of the socio-economic environment
and to accompany the valorisation
of research



CampusInnov aims to support and accelerate a dynamic of innovation and entrepreneurship at the service of territorial socio-economic development. As a true link between the academic world and the business world, CampusInnov offers a variety of mechanisms, each at their own level, to help the emergence, implementation or maturation of innovation and entrepreneurship projects, for students, researchers, doctoral students, companies, local authorities and associations.

CampusInnov also supports the valorisation of research work from La Rochelle University,

notably through the partnership with SATT Aquitaine Science Transfert.

Currently under construction, the CampusInnov co-innovation centre is designed to be a technological centre of excellence supported by academic research. A genuine scientific intermediary, it hosts innovation projects that intensify the link between research and the socio-economic sector.

Its aim is to combine complex technological infrastructures and high-level specialised expertise by hosting researchers and companies for the duration of a project.

Contribute

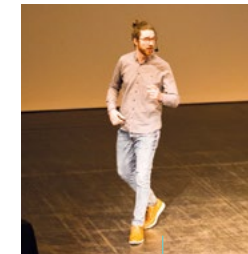
to the dissemination of scientific
and technical culture



Scientific mediation



Open house



Ma thèse en 180 secondes



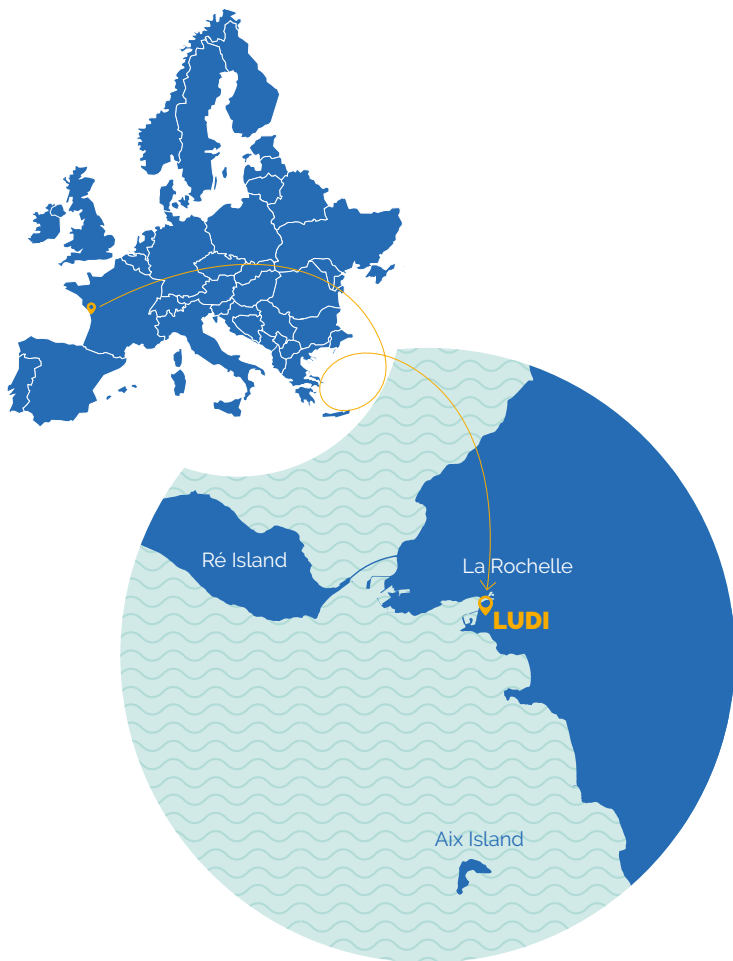
Festival du film (pas trop) scientifique



Rencontres LUDI



Encouraging scientific culture is performed by the centre for scientific, technical and industrial culture Cap Science and Mendes France.



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