



Cerema

CLIMATE & REGIONS, THE FUTURE

WHO WE ARE

- France's leading public agency, supporting the Green Deal
 - Supporting public policy for urban development, mobility, adapting to climate change, and transitioning society
 - Under the remit of the relevant government departments
- Over 2500 agents across 29 locations in mainland and overseas France (West Indies and Indian Ocean)
- €240m budget, 80% generated from French government contracts
- Our main clients in 2019 (excluding French government)
 - 36% private enterprises
 - 32% local authorities
 - 18% French public bodies
 - 14% others

SIX AREAS OF COMPETENCE



WHAT WE DO

- Operational research: 11 research teams, 50 projects underway with high levels of TRL
- Cutting edge engineering and expertise, focused on the Green Deal
- Innovation for public policy that serves the habits, needs, and well-being of the community
- Renowned state-of-the-art expertise and methodology (2600 publications), training for a wide range of public and private sector stakeholders

11 RESEARCH TEAMS

UMRAE: Environmental Acoustics (component of UMR AE)

Experimental and digital researches on source of noise, acoustic propagation, effects of noise on people and biodiversity.

DIMA: Durability, Innovation and Recovery of Alternative Materials

Understand the characteristics of construction materials comprising alternative products durability of structures, modelling of behaviour, and assessment of the life cycle and environmental impacts in the context of a circular economy.

BPE: High performance buildings in their environment

Characterisation of envelope, materials and walls, assessment of the overall performance of the building, and interactions between buildings and urban micro-climates.

ENDSUM : Non-destructive Evaluation of Structures and Materials

Diagnosis and characterization that doesn't alter the test environment and allows the replacement of methods based on radioactive sources by new technological developments for infrastructure managers and design offices.

ITS: Intelligent Transport Systems, towards greater safety and integration into sustainable regions

Systems and infrastructures for safer mobility : the road of the future, the digital revolution, driving aids, autonomous vehicles.

HA: Hydraulics for Development

Hydrological hazards and forcings, hydro-sedimentological impacts as well as hydraulic interactions with installations (infrastructures, dredging, navigation safety).

ESPRIM: Disruptions and Resilience of Mobility systems

Adapting the behaviour of mobility players confronted with various transformations of their environment. Disruptions of mobility systems (people and goods) are perceived as potential levers to increase individual or collective capacities to adapt.

TEAM: Transfers and interactions linked to water in built environments

Contribution to sustainable, resilient, frugal built environments that are pleasant to live in, protection of receiving environments and water resources, adaptation to climate change.

GeoCoD: Geomaterials and Geomechanics: couplings and dynamics for geotechnical structures and risks

Knowledge, prevention and management of gravitational risks such as land movements in relation to adaptation to climate change and on management, optimisation, modernisation and design of infrastructures and structures.

REPSODY: Response of Soils, Sites and Structures to dynamic stresses - Earthquakes and vibrations

Interaction between seismic waves, soils and structures to prevent potential damage to buildings and other structures.

PsyCAP : Research team in applied psychology

understand behaviors to accompany changes and innovations in mobility, building, risks and sea & coastline.

RESEARCH TEAMS OF CEREMA

<https://www.cerema.fr/fr/innovation-recherche/recherche/equipes>

(link to French website > English website will soon be available. Please contact us)

SCIENTIFIC CONTACTS FOR TEAMS

UMRAE: Environmental Acoustics

DIMA: Durability, Innovation and Recovery of Alternative Materials

BPE: High performance buildings in their environment

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ITS: Intelligent Transport Systems

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TEAM: Transfers and interactions linked to water in built environments

GeoCoD: Geomaterials and Geomechanics

REPSODY: Response of Soils, Sites and Structures to dynamic stresses

PsyCAP : Research team in applied psychology

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SCIENTIFIC BIBLIOGRAPHY PORTAL OF CEREMA

<https://hal.archives-ouvertes.fr/CEREMA>

(French & English references)