

- ▶ All Actions
- ▶ Biomedicine and Molecular Biosciences (BMBS)
- ▶ Chemistry and Molecular Sciences and Technologies (CMST)
- ▶ Earth System Science and Environmental Management (ESSEM)
- ▶ Food and Agriculture (FA)
- ▶ Forests, their Products and Services (FPS)
- ▶ Individuals, Societies, Cultures and Health (ISCH)
- ▶ Information and Communication Technologies (ICT)
- ▶ Materials, Physics and Nanosciences (MPNS)
- ▶ **Transport and Urban Development (TUD)**
 - In Detail
 - Actions
 - Restricted Area
- ▶ Trans-Domain Proposals

TUD in Detail

The following examples illustrate actual research within this Domain. The scope of the Domain is not restricted to these activities.



The Domain deals with **assessment, planning and management** of transport systems covering issues like safety and security, energy consumption, environmental impacts, modal diversion and re-equilibrium, transport policies, traffic management, market issues, and

sustainable mobility.

It focuses on **improving transportation structures** by developing new design and technologies both for infrastructures (materials, intuitive driving signals, etc.) and vehicles (alternative fuels, Intelligent Transportation System, etc.), enhancing human-machine interfaces and upgrading driving behaviour.

The Domain covers all aspects of **urban development**. These include land use planning and management within or around urban areas, environmental management, urban-rural relationships, safety and security, reconstruction, rehabilitation and renovation, disaster management, logistics, and cultural heritage.

A large component of the Domain is related to **engineering, construction, and architecture of urban structures**. These cover design methods and technologies for construction, maintenance, operation, rehabilitation and protection of buildings and infrastructure. Emphasis is given to green structures and particularly to the energy efficiency of products, processes, and organisation.

The Domain involves scientists, practitioners, decision-makers and industry in basic and applied research activities based on integrated and interdisciplinary approaches. These lead to technical developments, standards and policy recommendations.

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