



LABORATÓRIO NACIONAL
DE ENGENHARIA CIVIL

Urban and Territorial Studies Unit

AREAS OF RESEARCH 2014-2020

(updated May 2016)

AREAS OF RESEARCH 2014-2020



Programmed activities in the period 2014-2020
prioritize **three areas of research**:

1. Quality in the built environment
2. Risk, safety and security in the built environment
3. Territorial development and sustainability

Within these three areas, **10 research themes** have been identified corresponding to:

- › Current and future research priorities
- › Acquired competences through previous research

RESEARCH THEMES 2014-2020



1. Built environment organisation and functional performance
2. Urban regeneration, urban rehabilitation and building rehabilitation
3. Healthy cities
4. Housing models and ways of living
5. Risk management and territorial policies
6. Social perception, attitudes and behaviour towards risk
7. Safety and security in the built environment
8. Production and management of the built environment
9. Territorial governance and public participation
10. Efficient and sustainable use of territorial resources

Theme 1.

BUILT ENVIRONMENT: ORGANISATION AND FUNCTIONAL PERFORMANCE

Topics:

- › Quality in the built environment
- › Urban morphology and land-use patterns
- › Mobility in urban, periurban and low-density areas
- › Programming buildings and urban areas
- › Cities and buildings of the future
- › Methodologies to analyse and assess quality of the built environment



Theme 2.

URBAN REGENERATION, URBAN REHABILITATION AND BUILDING REHABILITATION



Topics:

- › Urban regeneration policy
- › Strategies for urban rehabilitation
- › Methods and techniques for building rehabilitation

Theme 3.

HEALTHY CITIES



Topics:

- › Space and health
- › Ageing and old age in urban and rural environments
- › Senior tourism
- › Psycho-social aspects of comfort in the built environment

Theme 4.

HOUSING MODELS AND WAYS OF LIVING



Topics:

- › Socio-territorial cohesion
- › Metropolisation and ways of living
- › Appropriation of buildings and public spaces
- › Housing models and residential satisfaction

Theme 5.

RISK MANAGEMENT AND TERRITORIAL POLICIES



Topics:

- › Social morphology and vulnerability
- › Resilience to disruptive events
- › Integrated methodologies for risk management

Theme 6.

SOCIAL PERCEPTION, ATTITUDES AND BEHAVIOUR TOWARDS RISK



Topics:

- › Representations, attitudes and behaviour towards risk
- › Observable behaviour in emergency situations

Theme 7.

SAFETY AND SECURITY IN THE BUILT ENVIRONMENT



Topics:

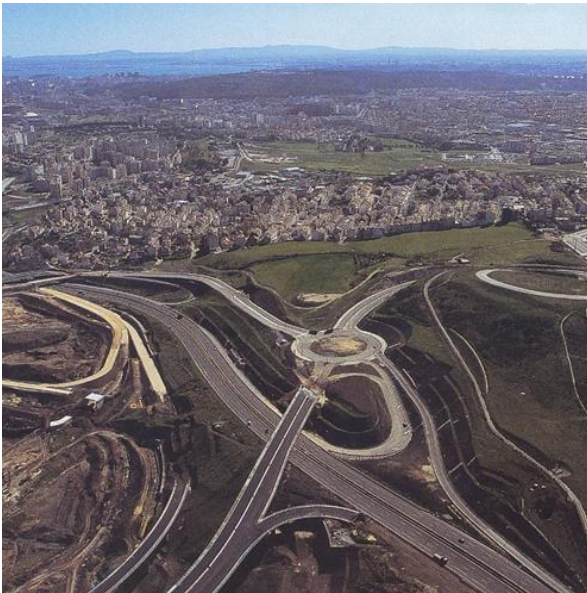
- › Safety in the normal use of buildings and public spaces
- › Fire safety in buildings and urban areas
- › Security in buildings and public spaces

Theme 8.

PRODUCTION AND MANAGEMENT OF THE BUILT ENVIRONMENT

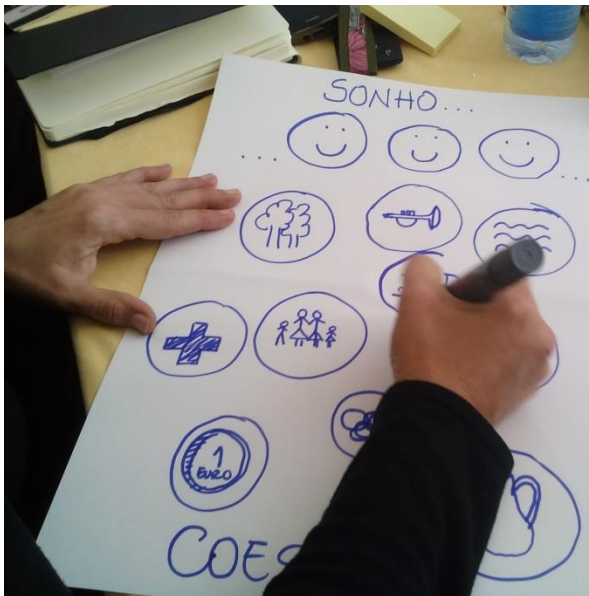
Topics:

- › Urban development and territorial organisation
- › Territorial change and social dynamics
- › Socio-territorial prospective
- › Reurbanization, transition spaces and informal settlements
- › Methods and tools for territorial development planning
- › Urban planning and building laws and regulations



Theme 9.

TERRITORIAL GOVERNANCE AND PUBLIC PARTICIPATION



Topics:

- › Public participation
- › Collective action and governance systems
- › Transdisciplinarity and collaborative methods
- › Place-based social innovation

Theme 10.

EFFICIENT AND SUSTAINABLE USE OF TERRITORIAL RESOURCES



Topics:

- › Sustainable urban development and buildings
- › Low-carbon urban and territorial systems
- › Adaptative responses to climate dynamics
- › Representations, attitudes and behaviour in the use of territorial resources



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