Erasmus+ Action Type: KA220-HED - Cooperation partnerships in higher education Climate change, cities, communities and Equity in health Cli-CC.HE Project Reference: 2021-1-IT02-KA220-HED-000032223



Teachers Training Workshop

Belgrade, June 16-17, 2022

Session 2: Objectives and methodologies

Integrated vision of urban regeneration: objectives and strategies for climate proof cities and societies – Transfer R1 to teachers and students

Salvatore Carlucci, Ioanna Kyprianou



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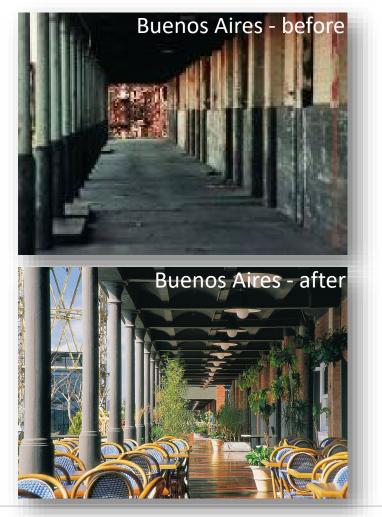






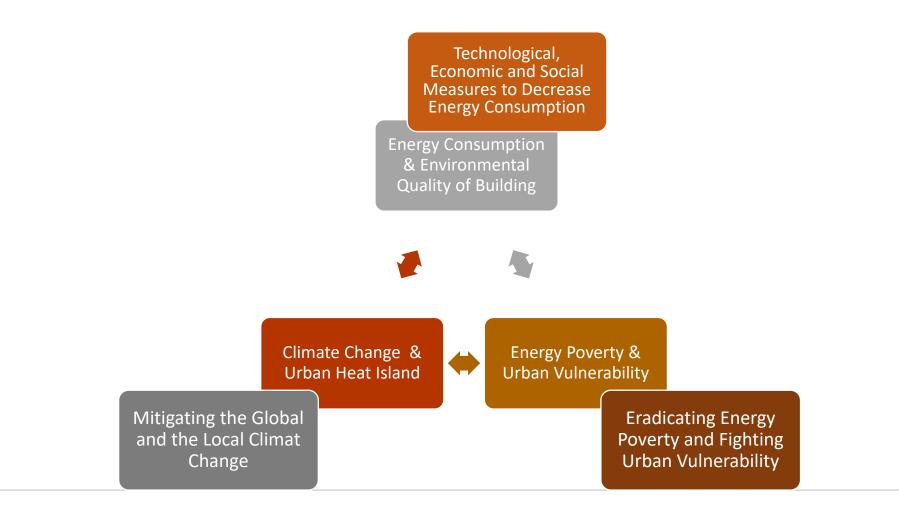
What is urban regeneration

- Recovering neglected, underused or underutilised urban spaces which may be in decay and weaken the city's image, liveability and productivity
- Public and private stakeholders joining forces creates the best outcomes
- Community engagement and policy governance are further contributing elements to a successful project
- The process should be adequately designed and implemented





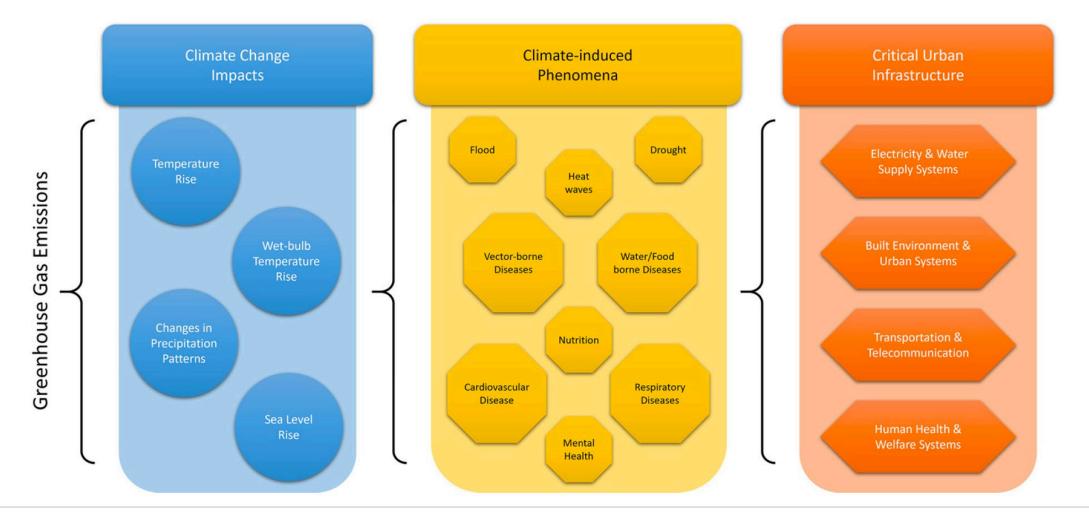
Urban challenges and climate change







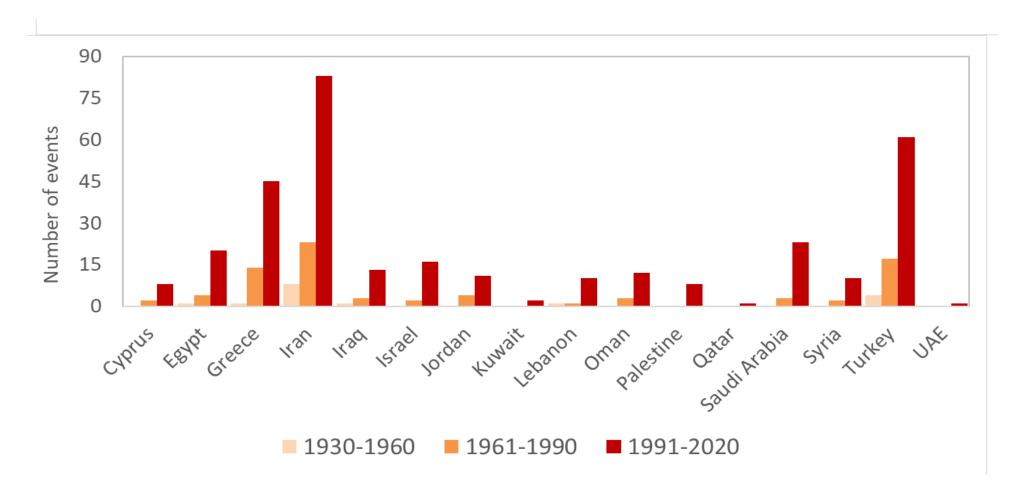
Urban challenges and climate change







Urban challenges and climate change



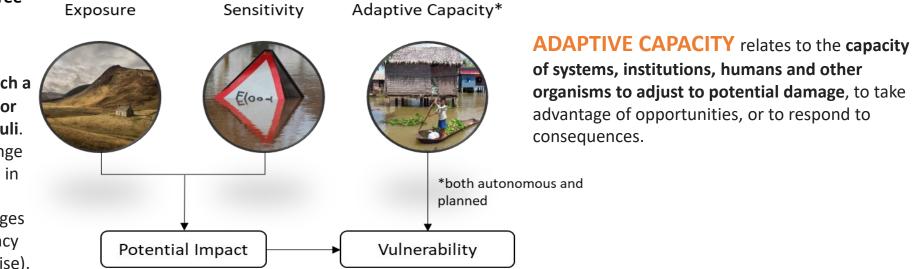




IPCC terms relative to climate change

EXPOSURE is the **nature and degree to which a system is exposed** to significant climatic variations.

SENSITIVITY is the degree to which a system is affected, either adversely or beneficially, by climate-related stimuli. The effect may be direct (e.g., a change in crop yield in response to a change in the mean, range, or variability of temperature) or indirect (e.g., damages caused by an increase in the frequency of coastal flooding due to sea-level rise).



IMPACT is the **consequences of climate change on natural and human**

systems. Depending on the consideration of adaptation, one can distinguish between potential impacts and residual impacts.

POTENTIAL IMPACTS: All impacts that may occur given a projected change in climate without considering adaptation.

RESIDUAL IMPACTS: The impacts of climate change that would occur after adaptation.

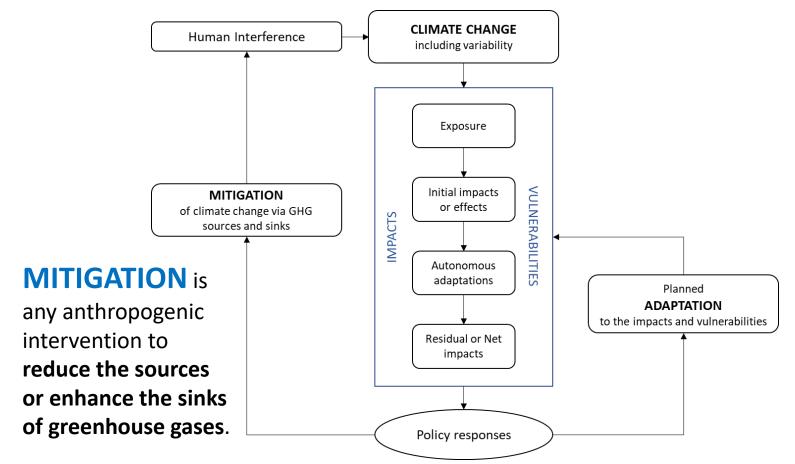
VULNERABILITY is the degree to which a system is susceptible to, or unable to cope with, adverse effects of climate change, including climate variability and extremes. Vulnerability is a function of the character, magnitude, and rate of climate variation to which a system is exposed, its sensitivity, and its adaptive capacity.

IPCC Glossary





Adaptation and mitigation

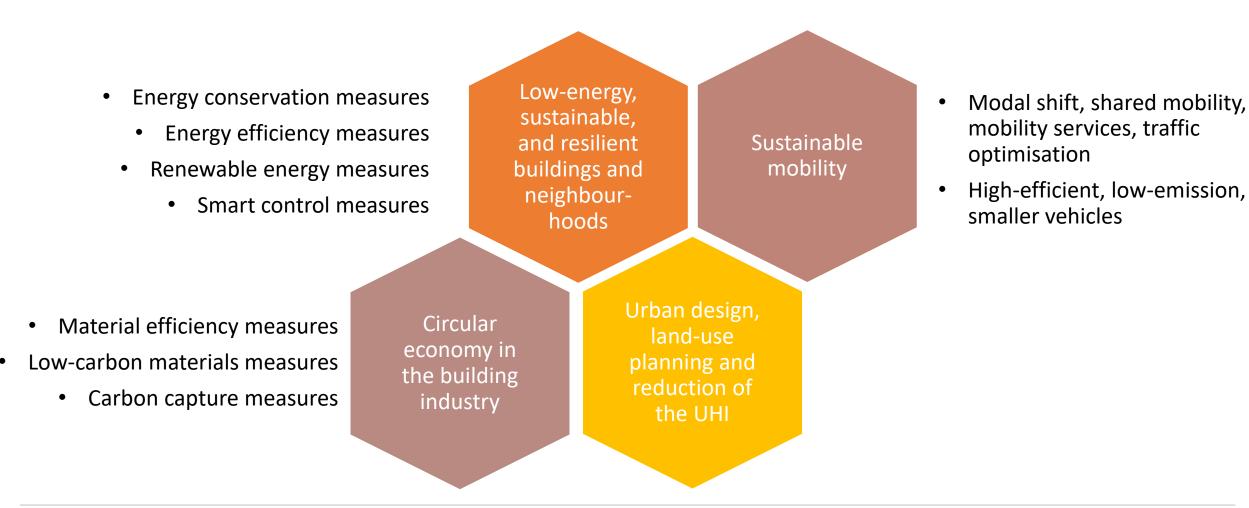


ADAPTATION to climate change refers to adjustment in natural or human systems in response to actual or expected climatic stimuli or their effects, which moderates harm or exploits beneficial opportunities. Various types of adaptation can be distinguished, including anticipatory and reactive adaptation, private and public adaptation, and autonomous and planned adaptation. Adaptation has the potential to reduce adverse effects of climate change and can often produce immediate ancillary benefits, but will not prevent all damages.





Mitigation measures







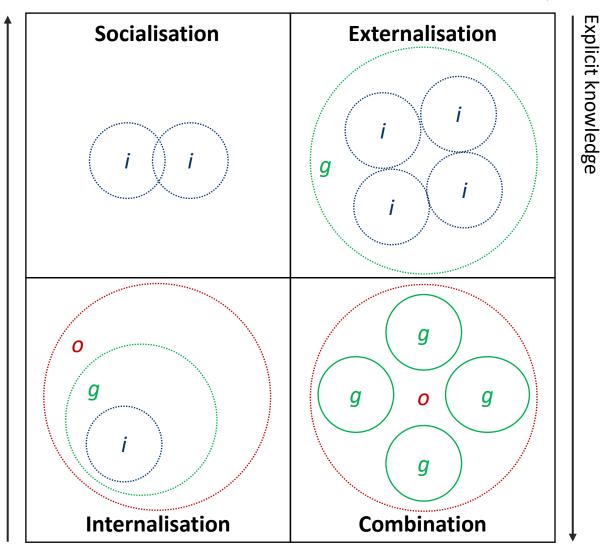
Adaptation measures







Tacit knowledge

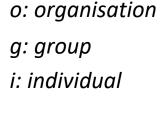


Improving the learning experience: The SECI model

Tacit knowledge

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Explicit knowledge







Tacit knowledge

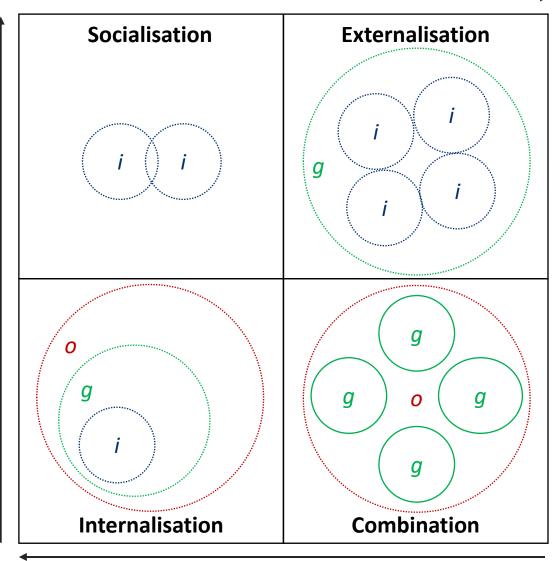
Students could **SOCIALISE** by:

- Forming focus groups and discuss collected information
- Considering interactive questions or what-if scenarios
- Learning about building standards and calculation tools for the analysis

Students could **PREPARE THEMSELVES** by:

- Pre-reading documents (reports, papers, ...)
- Pre-exploring supplementary material (maps, video, art, ...)
- Identifying and following suitable MOOCs
- Tacit knowledge Administer questionnaires to target groups





Students could **EXTERNALISE** by:

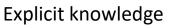
- Preparing and giving presentations to larger groups
- Pitching their solutions • through the Pecha Kucha format
- Conduct tutorials

Explicit

knowledge

Students could COMBINE KNOWLEDGE by:

- Preparing report on measures suitable to their own cities and neighbourhoods
- Creating short videos ٠
- Designing and installing public art installations
- Designing and executing gamesimulation events



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More ideas?

