

NEW METROPOLITAN PERSPECTIVES 2020

THEMATIC SESSIONS - TS

TS-07

TOWARDS SUSTAINABLE, SAFE, SMART AND RESILIENT INFRASTRUCTURES

Keywords: Sustainability; Safety; Resilience; Smart; Infrastructure.

Sustainability, safety, resilience, and smart features are the key characteristics in modern and efficient transportation infrastructures.

The sustainability is closely linked with the concept of development that meets the needs of the present without compromising the ability of future generations to meet their own needs. Safety calls for methods and measures used to prevent users from being killed or seriously injured. The resilience is usually connected with the occurrence of extreme events or unusual disturbances (earthquake, landslide, floods) during the life cycle of the infrastructures and indicates their ability of recover the previous functionality. Smart features refer to different technologies incorporated into infrastructures, for improving their operation and safety.

These are current and emerging topics in 2020 society and in research and require the development of innovative methods, experiments and materials for the practical application.

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