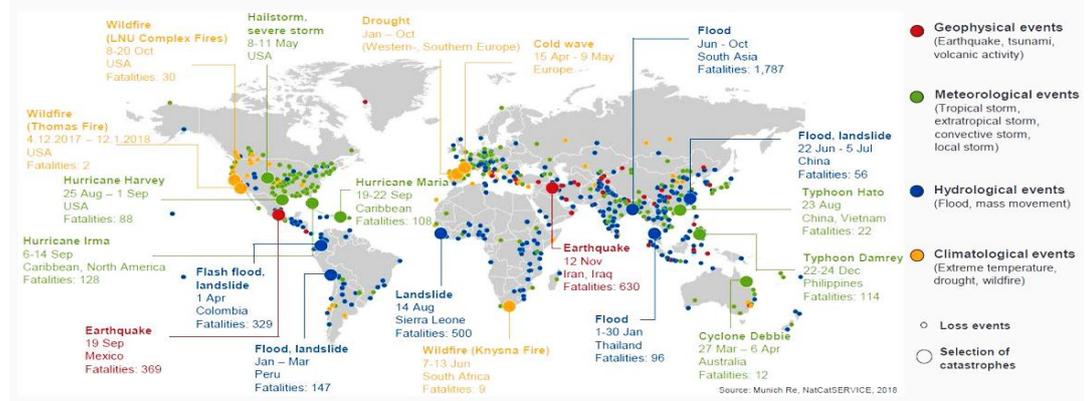


WP 1 – BE and SUOD: State of the Art (SoA), risks and human behaviour

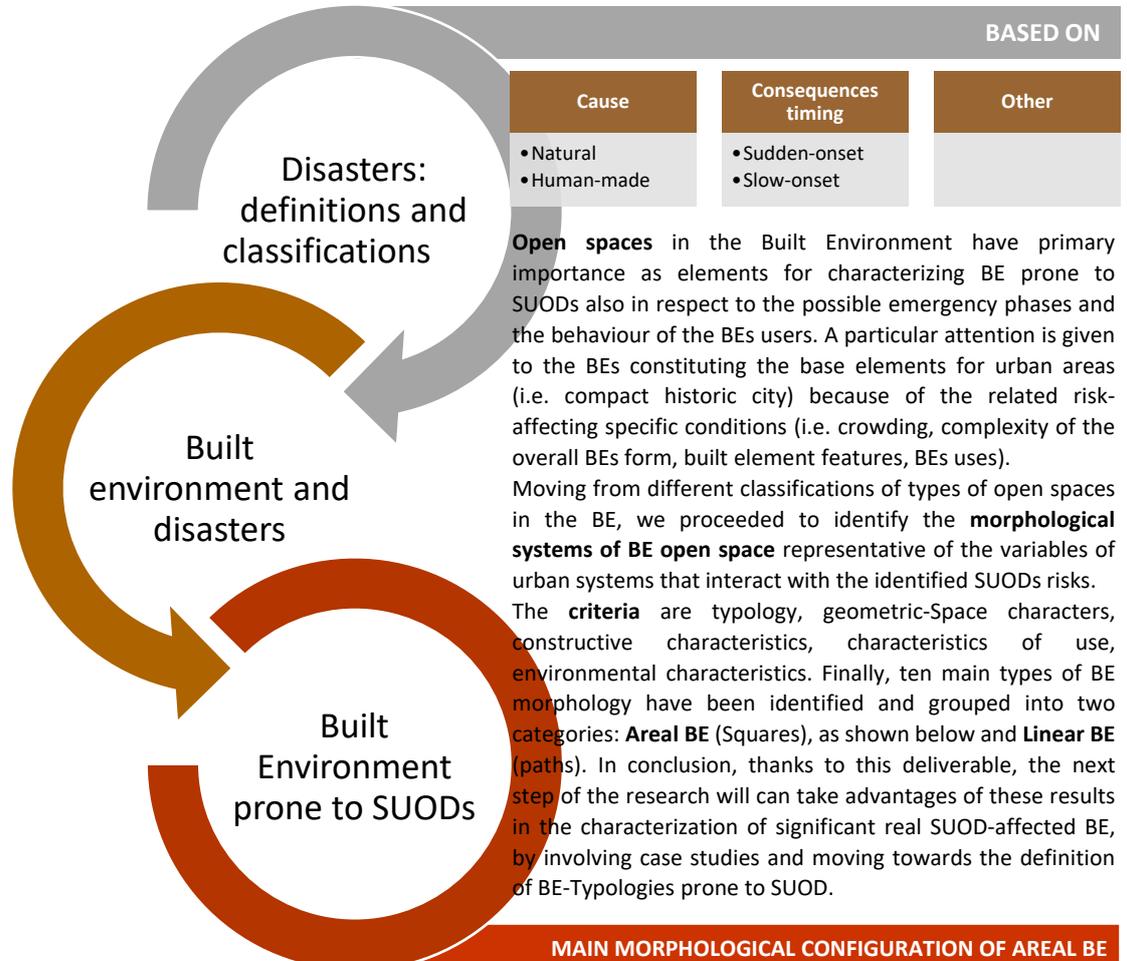
T1.1 - SoA-based definition and characterization of BE as network of buildings, infrastructures, connecting space in reference to SUOD occurrence and users' typologies

D1.1.1 – BE PRONE TO SUOD DEFINITIONS REPORT

One of the most significant categorizations of disasters distinguishes between SUOD and SLOD (Slow-Onset Disasters) according to the timing of the consequences, while other ratings consider source, frequency, scale, and predictability. When considering the risk associated with Sudden-onset disasters (SUOD) in the Built Environment (BE) it is essential to investigate human behaviour.



To general objective of the research requests a preliminary study on risk categories and BE morphology. The activities are divided in two parts, so as to outline a consolidated state of the art on the two issues, and a first characterization of main factors characterizing the relation between BEs, their composing elements and the risks (i.e. SUODs). A first part of the investigation involves the detection and transposition of the various classification of risks of the scientific literature and international disaster risk reduction and assessment organizations. A second step interested the BE, which can be defined as human-made surroundings that provide a setting for human activity, ranging in scale from personal shelter to neighbourhoods, and large-scale civic surroundings. The Sudden-onset disasters are those events: whose occurrence cannot be predicted far in advance (e.g. from seconds for earthquakes, to weeks or months for volcanos activities); as an alternative definition, which take a short time to produce emergency conditions.



Considering natural and technological disasters, the SUOD affecting BE are organized on: predictability reaction time to alarm, source of risk for humans, influence between built environment and safety, and the reciprocal correlation between a couple of SUODs (primary/secondary). The task brought to the identification of Areal BE (beside) and Linear BE.

MAIN MORPHOLOGICAL CONFIGURATION OF AREAL BE

