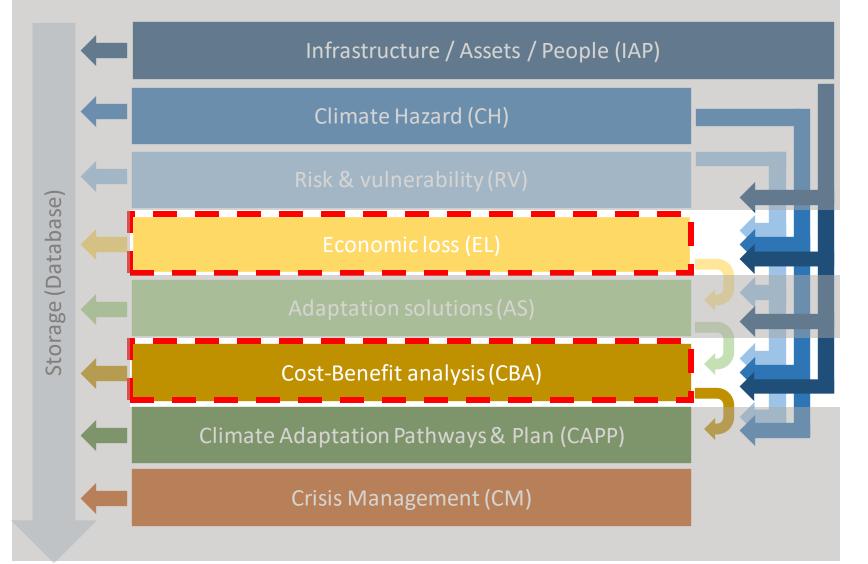




MODULE 3, 6

Ruben VALSECCHI





Economic loss (EL

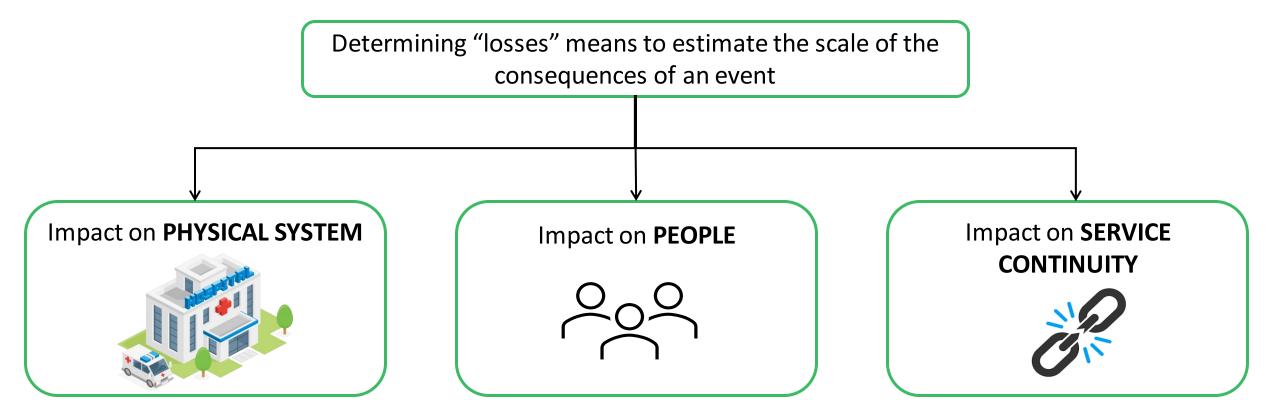
<u>In a nutshell</u>

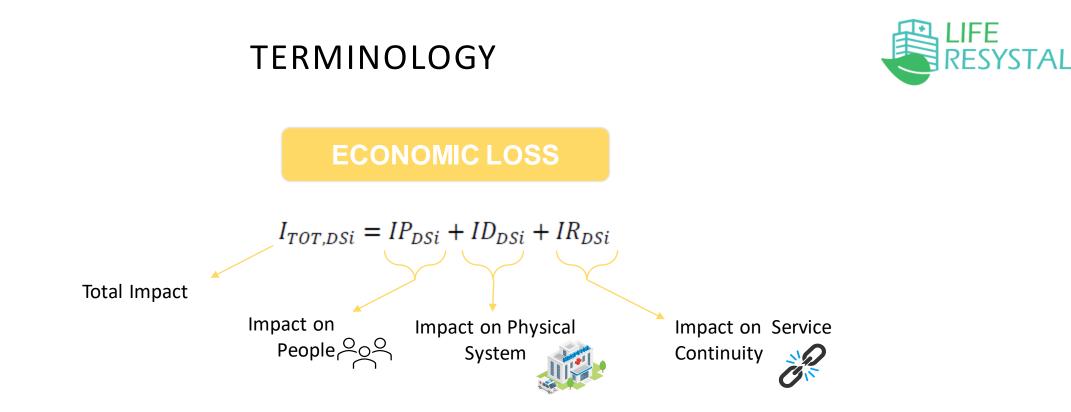
Estimation of the economic losses related to the occurrence of a certain hazard on a specific asset.

The aim of M3 is to assess the actual situation of the assets. The actual losses are defined through the evaluation of the Expected Annual Loss (EAL) by the combination of the three main aspect of the risk assessment, such as hazard, vulnerability, and exposure.







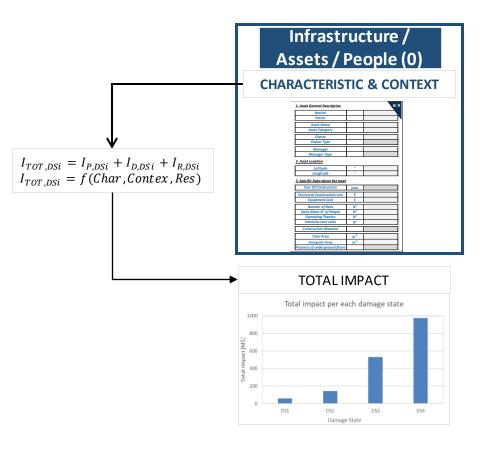


The economic loss is a function of several data:

- *Physical characteristics* (Asset dimension, Year of construction, Construction cost, Avg. people inside the asset, etc...)
- **Context data** (Closest asset, Influence area, Regional GDP, Regional population density, etc...)
- *Resilience indicator* (Preparation, Internal resourcefulness, External resourcefulness)

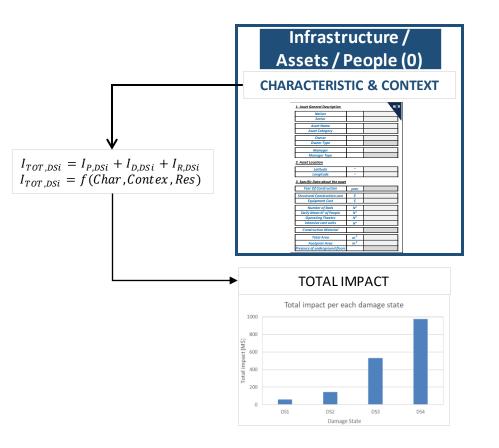
METHODOLOGY – MODULE 3

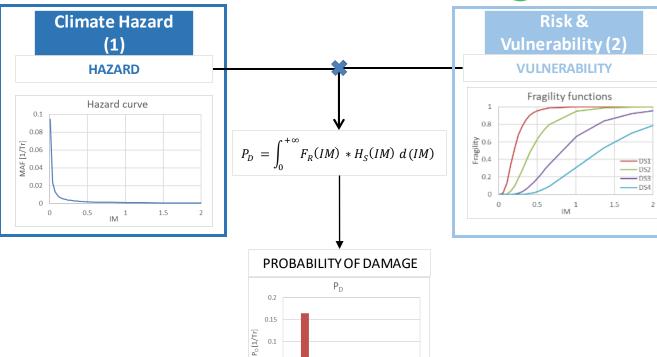




METHODOLOGY – MODULE 3







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DS1

DS2

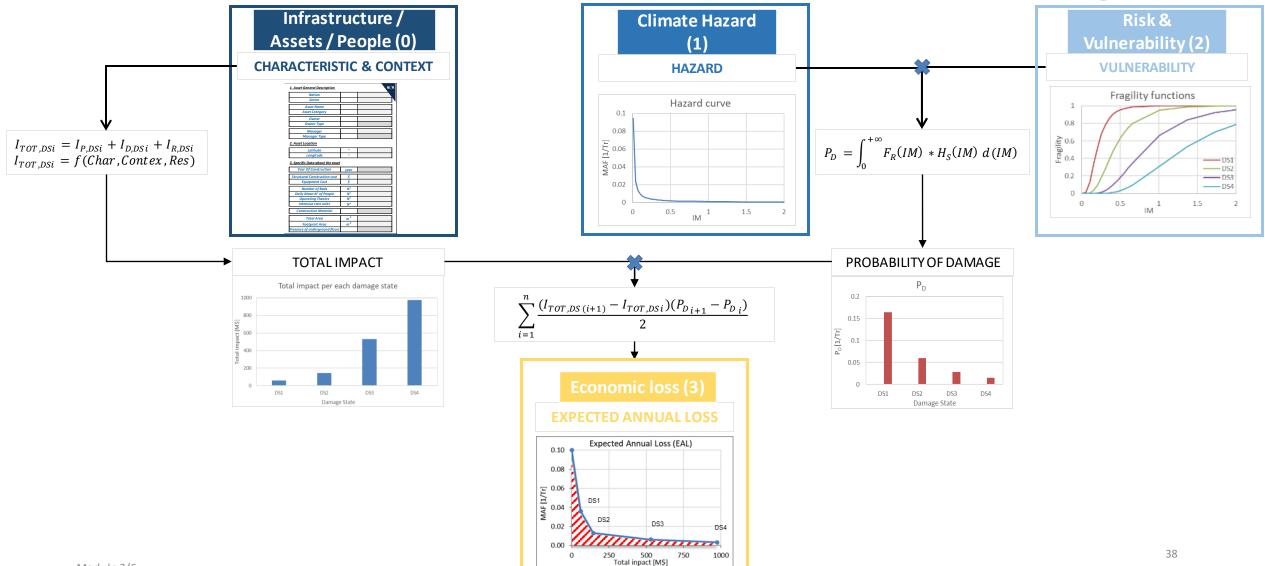
DS3

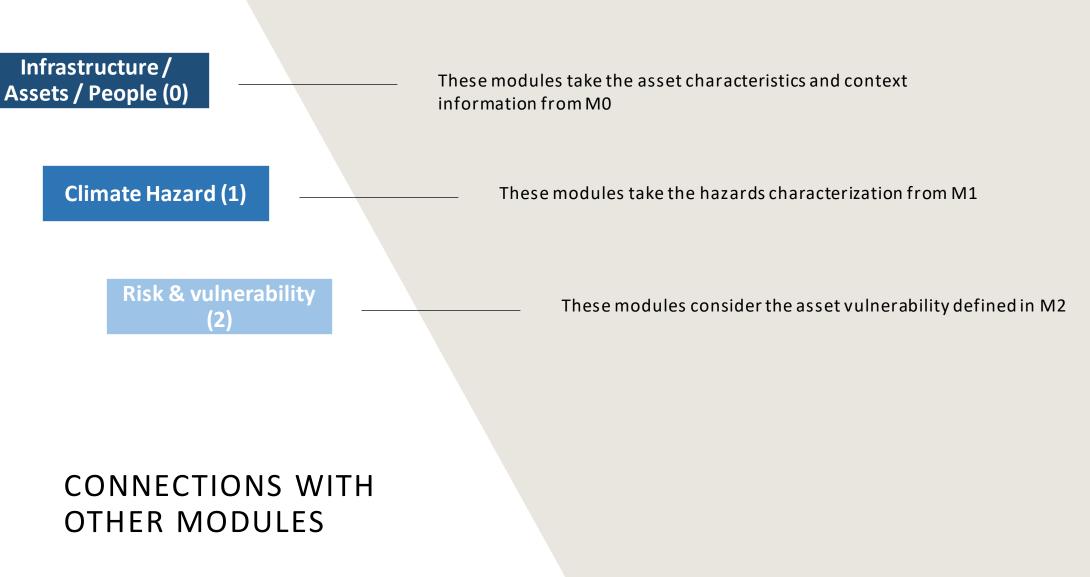
Damage State

DS4

METHODOLOGY – MODULE 3









MODULE 3 I/O

INPUT

Infrastructure /	'Assets /	People

Climate Hazard

Risk & vulnerability

- 1. Asset Characteristics list
- 2. Hazard type & characterization
- 3. Asset Vulnerability information

OUTPUT

1. Current EAL of the Asset

