

To develop a vulnerability assessment you need some categories of data/indicators: which ones?

To understand which sources are needed we have to make reference to the definition of vulnerability. You can find useful elements in file F02, chapter 3: "*Different types of vulnerabilities can be found in literature and assessment experiences in various contexts. Within the Ensure project it has been decided to label those vulnerabilities as follows*" and, mainly, in file F29.

Very briefly we can distinguish:

- **social** vulnerability, by which we address several components of societal coping capacity, ranging from individuals, to social groups, to communities, to organisations. Social vulnerability can be both physical and systemic
- **physical** vulnerability, by which we refer to the propensity to physical damage.
- **economic** vulnerability, by which we refer to the response economic sectors are able (or unable) to provide in the aftermath of an extreme event. Also in the case of economic vulnerability, both physical and systemic aspects must be considered.
- **environmental** vulnerability, by which we refer to the characteristics and quality of the natural environment and to the identification of existing threats to environmental values.
- **systemic** vulnerability, by which we address the fragilities arising in one system as a consequence of the relationship among its components or of its dependence from other systems.
- **functional** vulnerability, by which we refer to the characteristics and quality of the system of material and immaterial networks of services and infrastructures that serve a territorial area.

To obtain the information needed to develop a vulnerability assessment we therefore have to identify, select and elaborate data able to describe a territorial area highlighting all elements and phenomena which matter with vulnerability at different territorial scales and for different types of hazards.

See in file F29: Table 1 "*Scaling of vulnerability indicators*" and the example of application in Table 2 "*Indicators of flood vulnerability*"

You can also find examples of selection and elaboration of indicators in the case studies in module 4.