



# UN-SPIDER



## Reducing risk and impacts of climate-related disasters: Making space-based observations usable in developing countries – The agricultural drought example

**UNOOSA** is mandated to promote international cooperation in the peaceful uses and exploration of space science, technology and their applications for sustainable economic, social and environmental development.

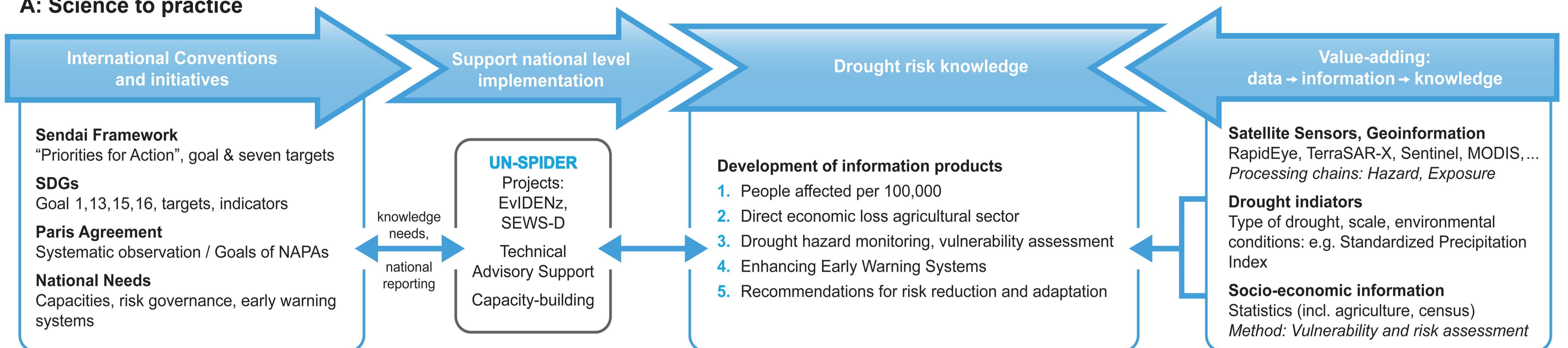
UN-SPIDER – as an UNOOSA programme – is mandated to provide universal access to all countries and all relevant international and regional organizations to all types of space-based information and services relevant to disaster management to support the full disaster management cycle.

**DROUGHT** is one of the key causes of malnutrition and poverty and is influenced by climate change and variability; its effects are exacerbated by population growth, improper land use and water consumption practices.

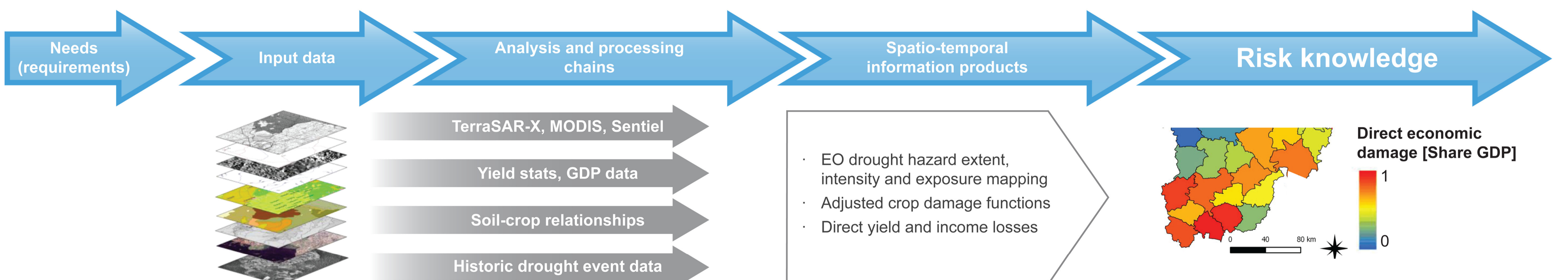
Several international agreements feature more and more targets and indicators related to drought. Space-based applications allow for consistent, systematic and global observation and offer synergistic uses.

### APPROACHES

#### A: Science to practice



#### B: Value-adding chain



### THE UNOOSA/UN-SPIDER APPROACH

- Facilitation of synergistic uses of space-based applications and information to contribute the 2030 Development Agenda and of the incorporation of scientific and technological knowledge into uses, especially in developing countries
- Continuation on enabling access to space-based data and information, building capacities in value-adding methods and advising on implementation on the national level

### ADDRESSING GAPS and CHALLENGES

- Systematic information on historic drought events needs to be integrated in indicator development
- Developments from drought hazard indicators towards impact indicators are needed
- Improvement of early warning systems with impact-based information
- Establishment of National, inter-sectoral drought policies
- More capacity-building and knowledge management efforts are needed

