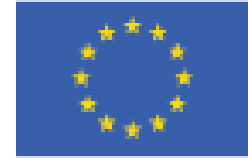




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# **ENVIRONMENTAL INDICATORS AS CONTEXTUAL INFORMATION FOR TERRITORIAL ACTORS.**

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# Sequence of presentation

- 1. Sustainable Development: Conceptualisation Process.**
- 2. Measures of Sustainable Development.**
- 3. CAENTI Contribution to the Environmental Dimension.**

# Conceptualisation (I)

1. **Broad and ambiguous term influenced by international context.**
2. **“Maintenance through time” ⇒ WELFARE**
3. **Sustainability Theory:**
  - **Preservation of Natural Capital**
  - **Equity: Inter- and Intra-Generational.**
4. **Dimensions: Territorial and Temporal**

# Conceptualisation (II)

## 5. Models:

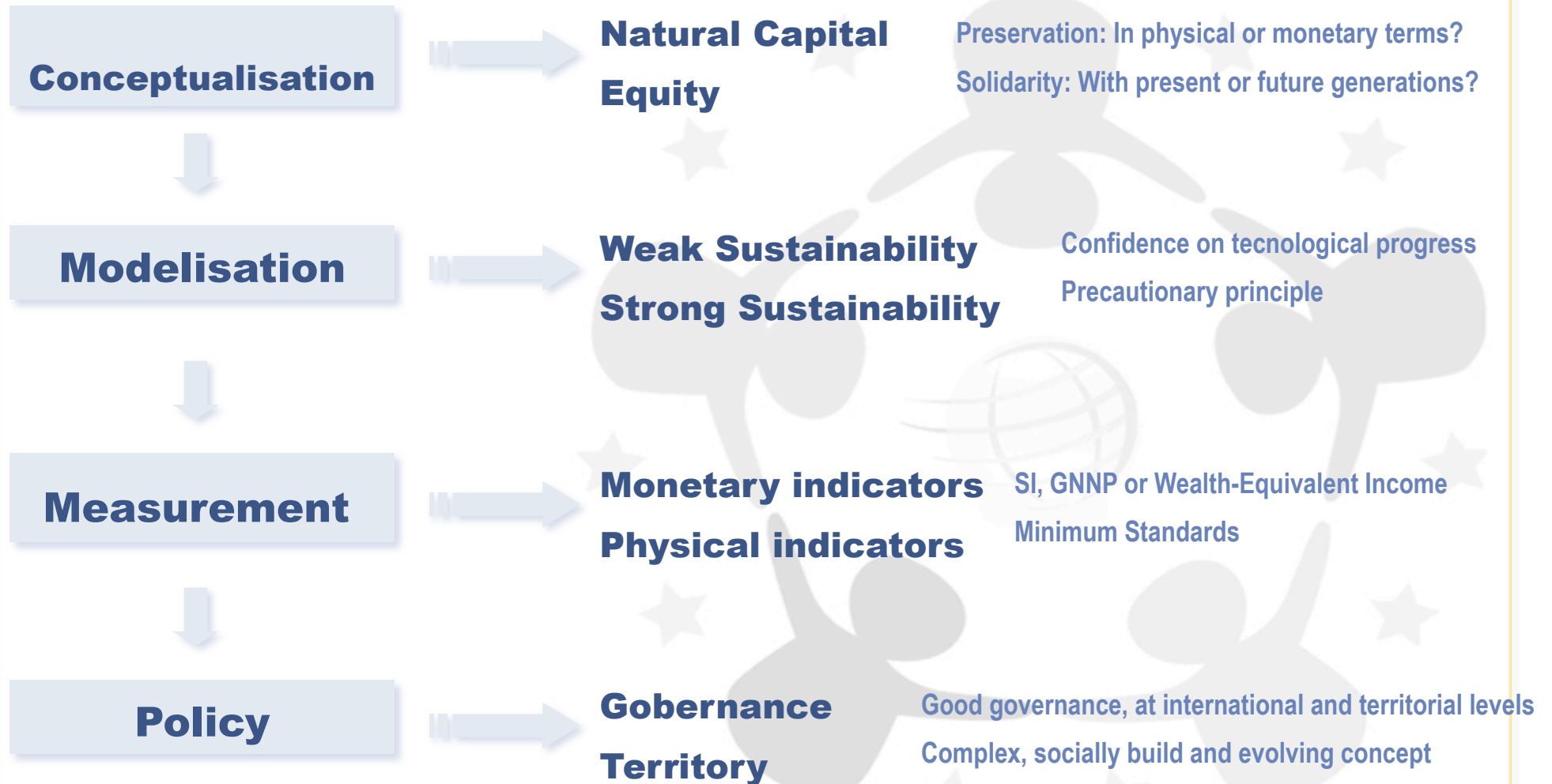
- **Weak Sustainability**
- **Strong Sustainability**

## 6. Key Issues:

- **Sustainability Policy**
- **Governance.**
- **Territory.**



# Conceptualisation (III)

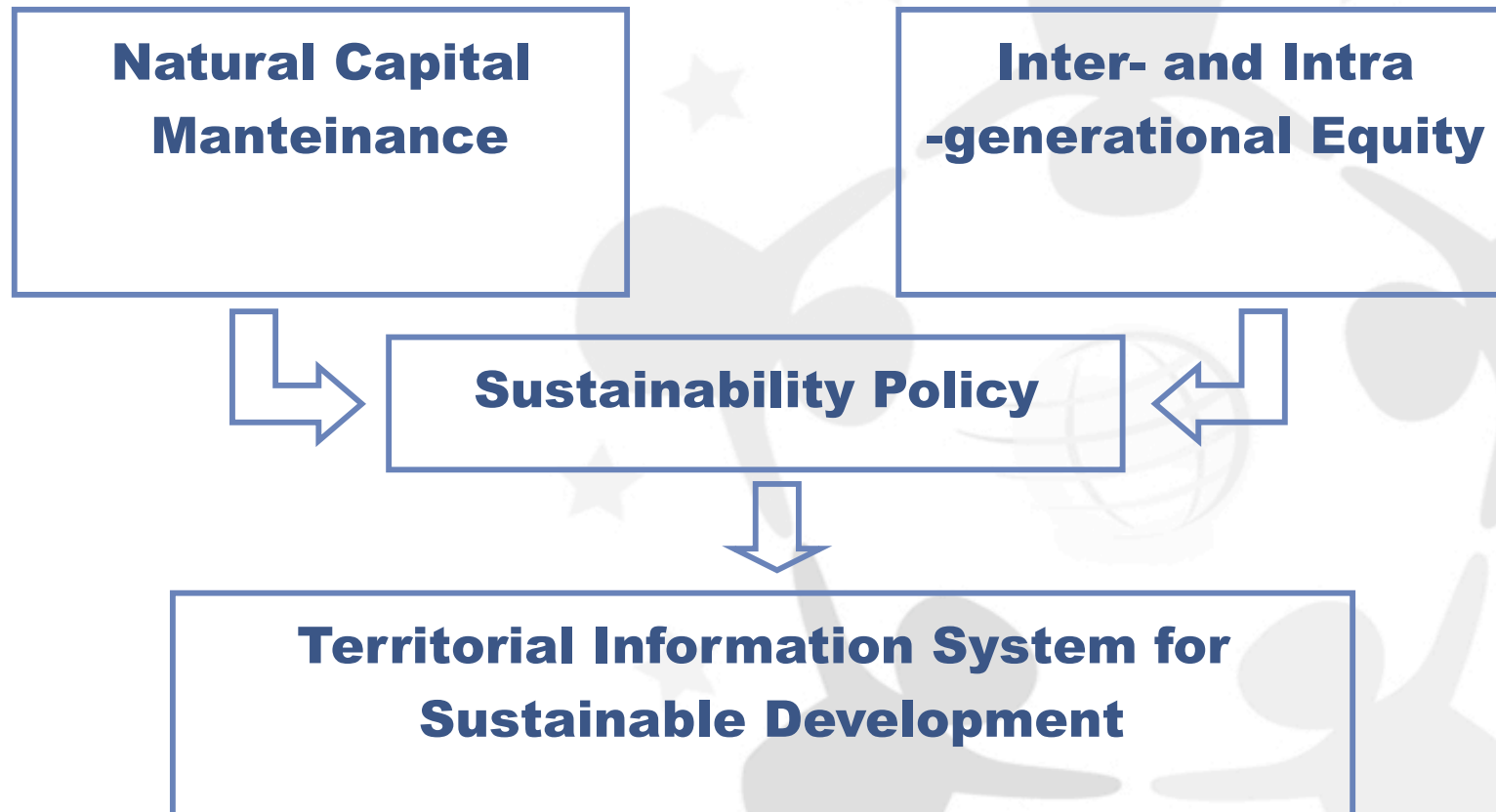


# Measures of SD

CLASS	TIPE	INDICATORS
SUSTAINABILITY MACRO-AGREGGATES	Economic indicators environmentally adjusted	Green GDP. Genuine Savings.. Sustainable Economic Welfare Index. Genuine Progress Indicator.
	Quality of Life Indicators.	Human Development Index (HPI, GRDI) Quality of Life Index..
	Physical Indicators	Ecological Footprint. Environmental Sustainability Index (EPI, EVI). Energy Indicators (HANPP, NES, AES, TEP, EEC, X Factor).
SYSTEMS OF INDICATORS	International Systems of Indicators	United Nations System of Indicators. Millenium Objectives System of Indicators. World Bank System of Indicators. OECD System of Indicators.
	European Union Indicators	European Union Indicators of Sustainable Development.. Structural Indicators. European Environmental Agency Indicators. Urban Environment Indicators.

# Contribution to the Environmental Dimension (I)

Theoretical perspective



# Contribution to the Environmental Dimension (II)

Theoretical perspective

## 1. What natural capital needs to be preserved?

- **Study of Ecosystems: identification and interconnections.**
- **Basic indicators: carrying capacity, minimum security standards and critical natural capital.**

## 2. How do we achieve Inter- and Intra- generational equity?

- **Universalism (generate worthy lives)**
- **Consequences of local decisions at a global scale: focusing on consumption and production patterns.**
- **Typology of education and post jobs.**

# Contribution to the Environmental Dimension (III)

Praxis perspective

- **Based on the joint work of CAENTI (researchers and actors) detecting needs and producing territorial information, we focus on the environmental dimension.**
- **Policy level as the starting point: European Strategy of Sustainable Development (ESSD):**
  - ✓ **availability of the information gathered,**
  - ✓ **methodology,**
  - ✓ **protocols,**
  - ✓ **levels to which information is computed.**

# Contribution to the Environmental Dimension (IV)

Praxis perspective

- **Territorial Environmental Indicators (EESD):**
  - ✓ **Municipal waste generated.**
  - ✓ **Electricity consumption by households.**
  - ✓ **Greenhouse gas emissions.**
  - ✓ **Modal split of passenger transport.**
  - ✓ **Built up areas.**

**Comparable and calculated for NUTS 1 level, but...**

**Could we go deeper?**

# Contribution to the Environmental Dimension (V)

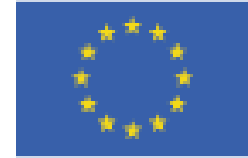
Praxis perspective

- **Constraints in going far into lower levels (NUTS 2-3, LAU 1-2):**
  - ✓ **Information behind the equally called indicator in one or other territory is not gathered in the same way.**
  - ✓ **Different methodology even within the same territory.**
  - ✓ **Diverse providers within an area.**
  - ✓ **Quite different protocols depending on the organism gathering the information.**
  - ✓ **Mainly: availability of information.**



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**Thanks!**