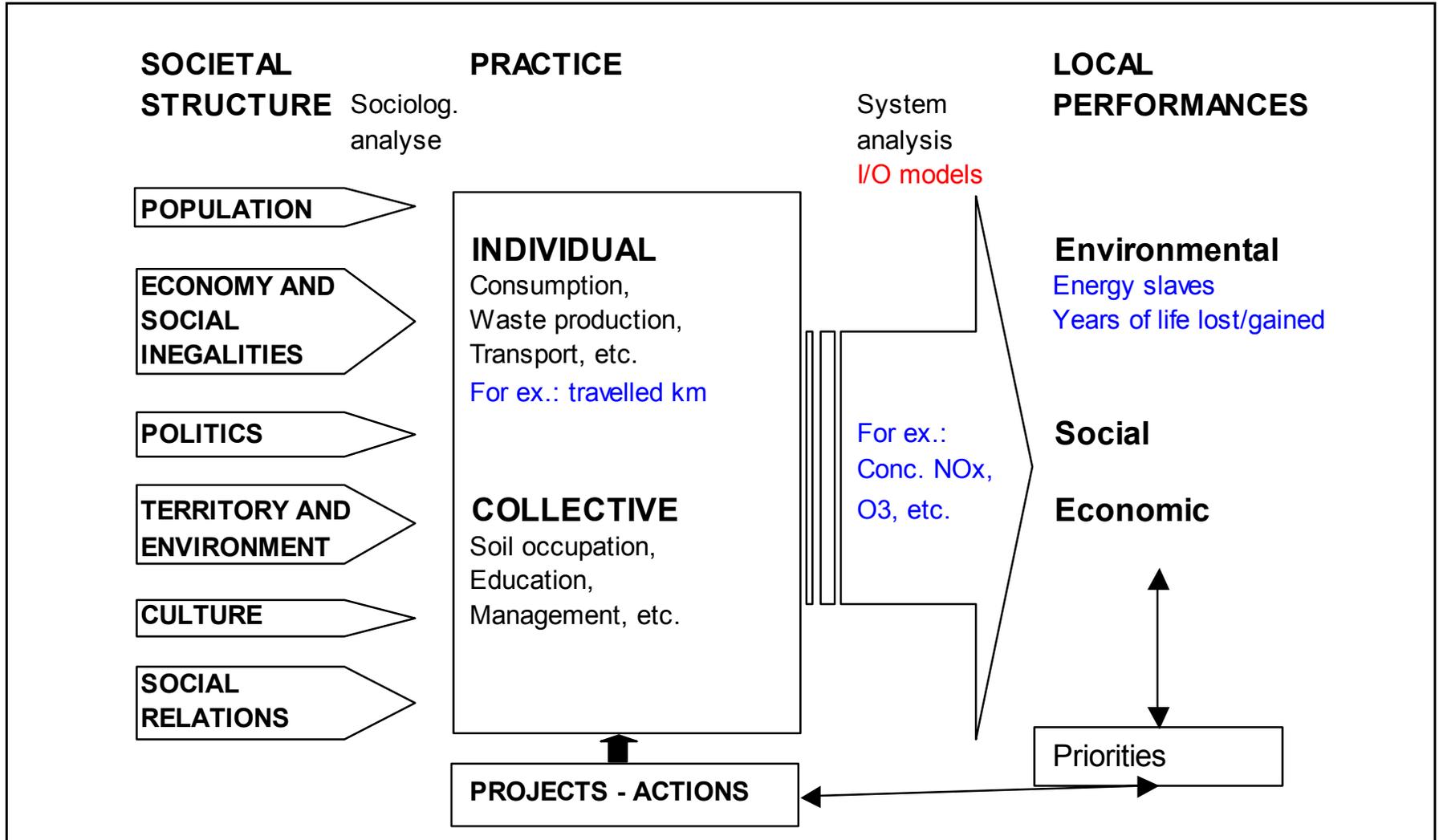


Project « Priority 21 »

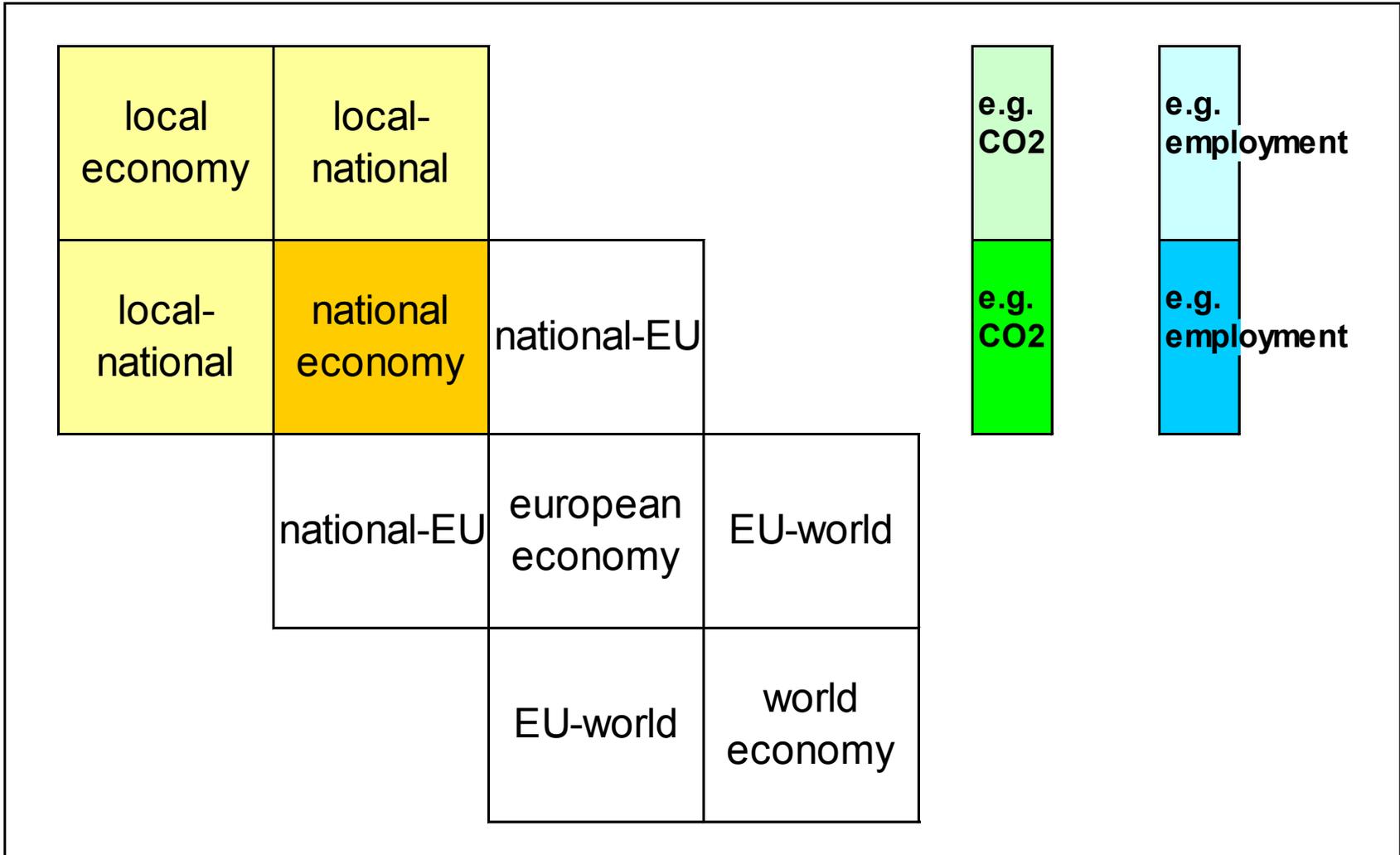
With more than 40 chapters, Agenda 21 offers many possibility for actions.

- *How to establish priorities in a coherent way ?*
- *How to assess the sustainability of the different projects ?*

Problem setting



I/O with satellite accounts Concept



Formalisation

$$\left(\begin{array}{c|c} \mathbf{A}^{\text{Vevey}} & \mathbf{D} \\ \hline \mathbf{U} & \mathbf{A}^{\text{Swiss}} \end{array} \right)^{-1} \left(\begin{array}{c} \mathbf{Y}^{\text{Vevey}} \\ \mathbf{0} \end{array} \right) = \mathbf{A}^{-1} \mathbf{Y} = \mathbf{X} = \left(\begin{array}{c} \mathbf{X}^{\text{Vevey}} \\ \mathbf{X}^{\text{Swiss}} \end{array} \right)$$

M_M : Production value $\mathbf{M}_M = (\mathbf{I}-\mathbf{A})^{-1}\mathbf{Y}$	M_E : Employment value $\mathbf{M}_E = \mathbf{w} (\mathbf{I}-\mathbf{A})^{-1}\mathbf{Y}$
M_e : Energy value $\mathbf{M}_e = \mathbf{e} (\mathbf{I}-\mathbf{A})^{-1}\mathbf{Y}$	M_P : Environmental impact value $\mathbf{M}_P = \mathbf{p} (\mathbf{I}-\mathbf{A})^{-1}\mathbf{Y}$

Strengths of this approach:

- **decoupling of the different geographical levels,**
- **same methodology usable for assessing socio-economical and environmental impacts,**
- **evaluation of different objectives with the same consistent framework.**

Illustrative example

The final decision lies in a political weighting of the different impact categories. Does the locality want to stimulate the local economy or to increase energy efficiency ?