**Speaker**

**Ecological Foundations and Limits of Sustainable Economy**

1. Multiple dimensions, temporalities in interaction
2. Scientific vs political representations of sustainability
3. Focus on the eco-bio-physical dimension and Ecological Economics
4. The entropic nature of evolutionary processes
5. Stocks vs flows – the different ecological and economic potentials
6. The capitalist-industrial complex: global cultural attractor
7. Technological and institutional dependence, locked-in situation
8. Capitalist rationality and the need for a normative shift (to an eco-social rationale)
9. Alternatives – Circular Economy and Industrial Ecology (downcycling)

**Panellist**

**1.- Problems of contemporary economics—Need for New Theory**

* Mechanistic epistemology and its limitations (complexity, temporality & irreversibility not grasped)
* Purpose: prove the supremacy of the market, the invisible hand: no political authority is required, powerful actors vested interests are free to operate (implement business and institutional strategies that amplifies their positions)
* New approach is needed (Kapp)
* Paradigm shift to an evolutionary epistemology (peripherical elements become central & vice-versa)
* Human psychology, motivations and needs, technology, institutions, complexity and heterogeneity of processes, inter-relations, Circular and cumulative causation, evolution and co-evolution, time, change, qualitative &and irreversible change, time asymmetry, are given the central role
* Normative implications of the paradigm change (substantive rationality, ecological maxima & existential minima; the development corridor)

**2.- Money and financial Markets**

* Multiple dimensions and focus on the monetary dimension
* The property-based economy- Institutional foundations of capitalist economies
* Property, credit, and money creation
* Creditor’s money and the emerging capitalist properties/requirements
* The property self-expansion and the commodification-capitalisation dynamics
* Framing the capitalist expansion