

**Session Biosphere: April 12th 11.30 hrs**

**1s2 Healthy foods produced in circular food systems**

## **Multidisciplinary science based tools enabling transitions towards a sustainable circular bioeconomy**

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Focus on the governance of transitions towards a circular and climate neutral economy from a WUR Climate neutral and circular economy perspective. First of all we elaborate on different points of view on the transition process? Furthermore, how can we accelerate transitions and embed trade-off and synergy effects among various policy goals. In our “governance to transitions” toolbox important tools are (1) a conceptual framework, (2) a monitoring system, (3) an integrated system analyses framework to assess and quantify trade off and synergy effects among policy aims, and (4) governance structures, incentives to change behavior, and a multi actor approach. It analyses frameworks, indicator lists, system analyses framework and governance theories to understand transitions, behaviour and to develop interventions and business models. This paper covers the whole range from global transitions towards circular and climate neutral bioeconomy (agri-food, biomaterial, bioelectricity) systems to individual farms and households. Trade-offs between the different scales of circularity will be investigated.

The conceptual framework gives guidelines and perspectives of action for those actively striving to speed up the transition, independent of the scale of investigation and the disciplinary background of the investigator. Progression and impact can be followed by the implementation of the connected monitoring system. The system analyses framework framework is instrumental in determining trade-offs connected to various courses of action. The governance theories help to guide actors to have impact beyond their direct sphere of influence.

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*Keywords:*