

# Second Annual Summit on Science Enablement for the Sustainable Development Goals: The Workshops

## Session C: Sustainable Consumption and Production (SCP)



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# The production and consumption system

*What needs to be done:* a system to produce goods and services in a way that is socially just and within environmental limits

*By means of:* closed production and consumption, minimizing the use of natural resources and emissions of waste and pollutants over the whole product lifecycle and protecting human wellbeing

*In order to:* meet human needs (as defined by SDG 1-8,10,16) and aspirations – now and into the future.

# Sustainable Consumption and Production (SCP): Scope and Opportunity

- SDG12: Ensure sustainable production and consumption patterns. Decoupling economic growth from resource use.
- Outcome: Production and consumption systems that are closed (including the consumer as one system). Production systems that work in an inter-related way (across sectors and geographies)

# Sustainable Consumption and Production (SCP): Areas for action from science

1. Information needed to inform and incentivize changes in behavior in both production and consumption
2. Using data to understand and manage resources available in city context – to get to a closed system
3. Research to enable better consumer engagement/ consumption patterns

# Sustainable Consumption and Production (SCP)

## Topic 1: Ratings/Indexes/Standards/Labels

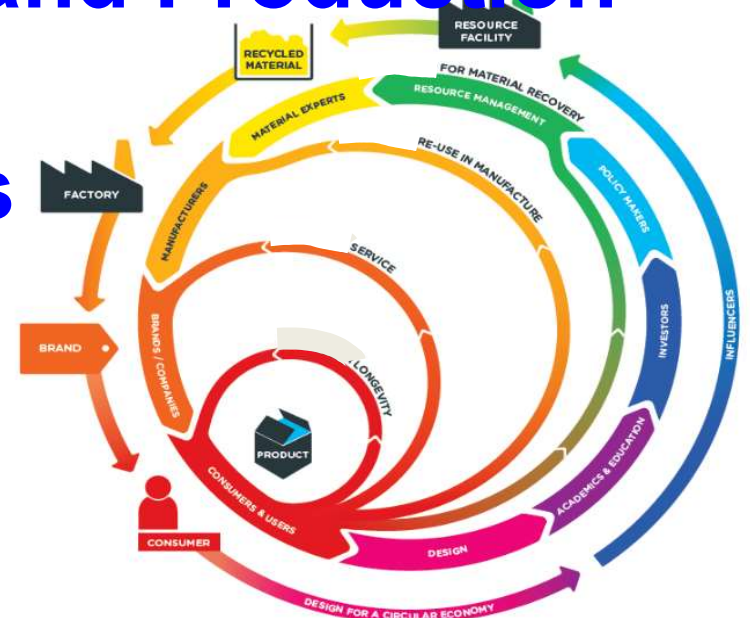
Aim: to provide the information needed to inform and incentivize changes in behavior in both production and consumption

Prioritized project ideas:

- **The Materials Resilience Index.** Building on planetary boundaries to provide a detailed roadmap of the materials available and the level of dematerialization needed. Providing policy makers, governments and innovators with the information they need to transition/ develop new materials.
- **Scalable and affordable LCA.** Using data sharing and standardized approaches to make the information gathered in individual LCAs more widely available and comparable. Could also contribute to independence and trust of this data.

# Sustainable Consumption and Production (SCP)

## Topic 2: Closed Loop Cities



Aim: to provide the resources and incentives to accelerate closed loop cities

Prioritized project ideas:

- **City based resource mapping.** Using data from a range of sources, including citizens to assess resources available and accelerate an ‘industrial ecology’ style approach. Would start with 2-3 practical pilots with city administrations partnering with data providers and academics.
- **Resilient city index** to drive improvement on resource management by recognizing how ‘circular’ a city is. Ideally would be aligned/ supplementary to other city indexes

# Sustainable Consumption and Production (SCP)

## Topic 3: Engaging Consumers

Aim: to encourage consumers to actively engage in their consumption activities

Prioritized ideas:

- **Better consumer choices/ citizen engagement** – using social science and behavior change to increase targeted interventions, based on data and social media, to help make better choices. Could also be new citizen engagement in the idea of closed loop systems (see cities).
- **Dematerialized consumption.** Research to assess new consumption models (sharing economy, service based consumption, new forms of exchange) that work for decoupling and share opportunities with policy makers and communities across developing markets

# SCP: Getting to a closed system

