

Circular Economy Catalysts: From Innovation to Business Ecosystems

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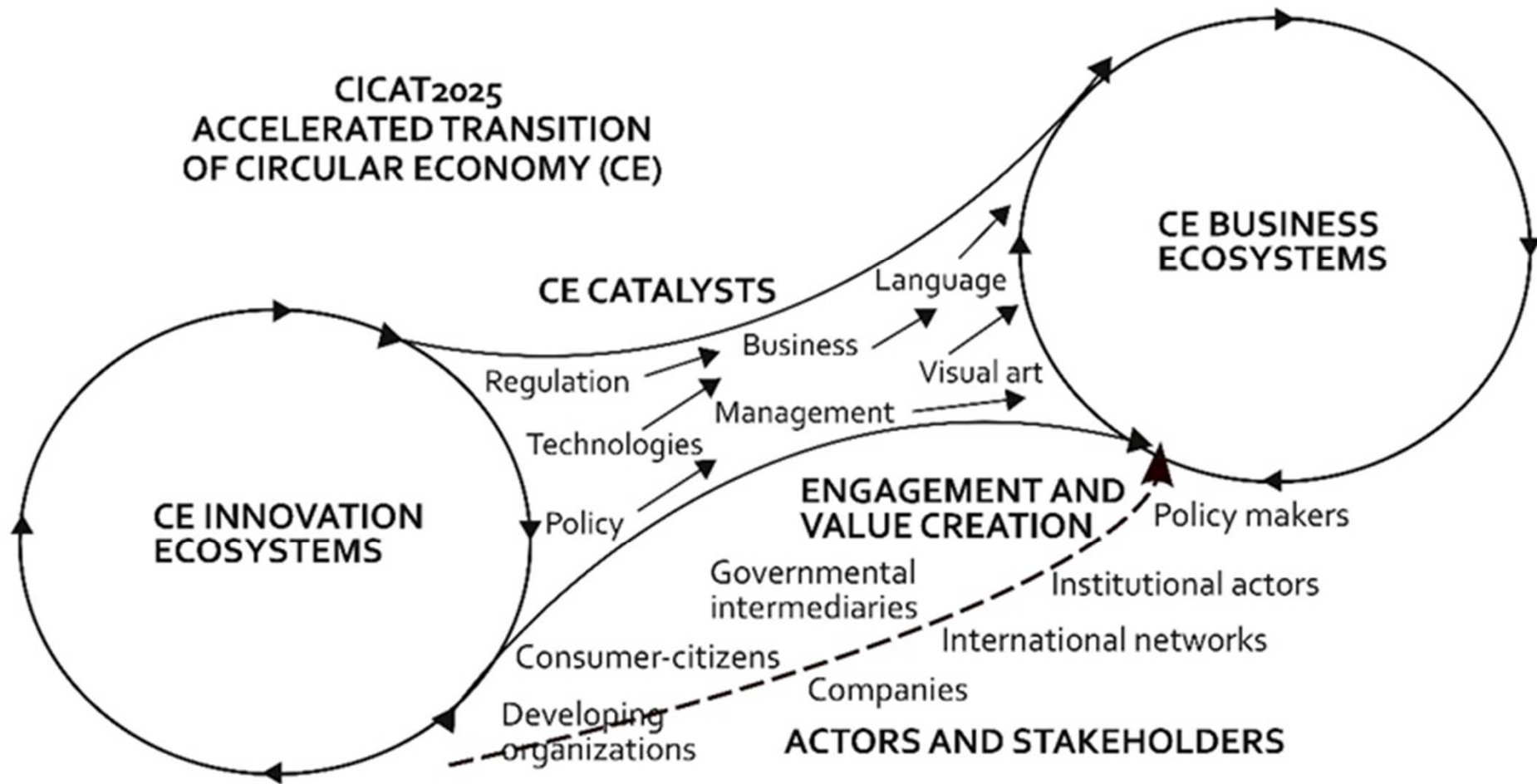
Circular Economy Catalysts: From Innovation to Business Ecosystems (CICAT2025)

- Circular Economy (CE) is a pathway towards more environmentally friendly, sustainable economic growth.
- A systemic transition from CE innovation ecosystems to sustainable CE business ecosystems is required.
- We examine how diverse catalysts and change agents enable and accelerate the CE transition.
- Duration 1.1.2019-31.12.2023
 - 6 Universities, 30+ researchers



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**CICAT2025
ACCELERATED TRANSITION
OF CIRCULAR ECONOMY (CE)**





Material and process technology, materials, nutrients, minerals

Digital technologies, IoT, AI, block technology, logistics

Business models, commercialization, service models, public procurement, collaboration, customer references

Strategic management, leadership, change management, innovation culture

EU and Finnish law, investments, contract law, regulation

Scalability, places and spaces

Terminology, framing, discourse

Visual arts, visual communication, visual service design

Four types of ecosystems in focus in CICAT2025

Ecosystem types	An established ecosystem An industry that is developing into CE business ecosystem	An emerging CE technology ecosystem Technology centered ecosystem	Regional ecosystem resembling a CE cluster Regional ecosystem, cluster	A hub centric business ecosystem for global CE business Business ecosystem
Primary cases	Construction Textile	Zero fiber ecosystem Food	Hiedanranta Tampere, Lahti, Espoo Smartcity, ECO3	Neste



Examples of various catalysts driving circular economy business

Technology catalyst



UPM Rafcycle and Profi

In 2005, UPM developed a new material that uses waste as a resource

Regulation catalyst



Fortum Circular Economy Village

The ban of organic waste landfilling enabled the innovative combination of Eco, Plastic, and Bio Refineries.

Language catalyst

SITRA

Support for discussion

Sitra introduced "Kiertotalous" as a Finnish term for Circular Economy. Has collaborated with hundreds of stakeholders to drive Circular Economy forward.



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