



➡ Knowledge Ecosystems ♦ Systems Thinking ♦ Living Labs ♦ Stakeholders  
Community ♦ Multi-Actor Approach ♦ Small Data ♦ Problem-Based Learning ♦ Open  
Science ♦ Responsible Research and Innovation ♦ Bottom-Up Epistemologies ♦ Tacit  
Knowledge ♦ Urban Systems ♦ Rural Systems ♦ Responsible Identity ♦ Clusters ♦  
Participatory Knowledge ♦ Participatory Governance ♦ Participatory Development ♦  
Epistemic Chains ♦ Research Based Innovation ♦ Transformative Innovation ♦  
Incremental Innovation ♦ Facilitators ♦ Replicators ♦ Digital Transformation ♦  
Knowledge Brokers ♦ Interdisciplinarity ♦ Multidisciplinarity ♦ Sustainable Memory ♦  
Added Value ♦ Post-Factum Actions ♦ Autopoiesis ♦ Scaling ♦ Going on ♦ Building the  
Future ➡





## Building Cesar Knowledge Ecosystem Based on 4 Clusters of 25 Living Labs

### Agri-Food Cluster Cesar Cluster 1

- FILL - Food for Iasi Living Lab
- OLL - Organic Food Living Lab
- Innovative bio(nano)composite systems Living Lab
- FLIT - Food Living Lab Transilvania
- HAS - Food Health & Safety Living Lab

### Knowledge Ecosystem Cluster Cesar Cluster 2

- STILL3 - Systems Thinking LL
- Cesar Academy Living Lab
- EPSA - European Policies & Strategic Actions Living Lab
- PLL - Project Logistics Living Lab
- Emergent Cesar Living Lab
- DECK Living Lab

### Visual Narratives Cluster Cesar Cluster 3

- FCPL - Food Culture & Politics Lab
- FoodH - Food History LL
- GLOTTO Living Lab
- Anthropology Living Lab
- MOARA - Moara Culturală
- GERTRUDE - Immersive Performance Hub

### Societal Innovation Cluster Cesar Cluster 4

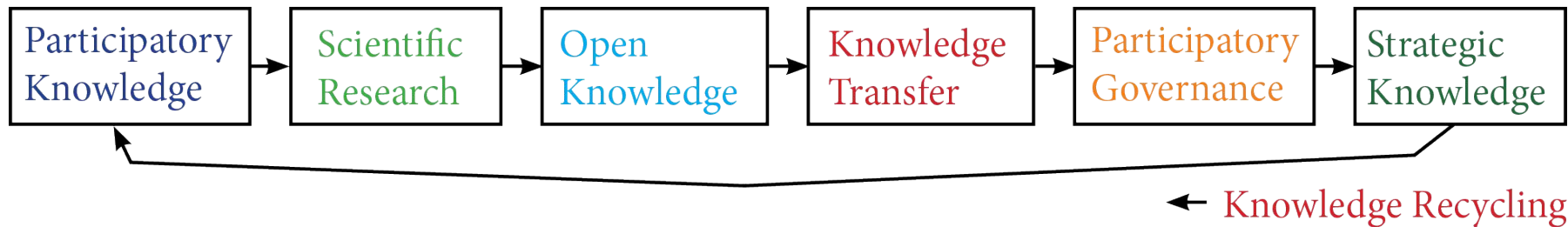
- RULL - Rural Development LL
- TIES Hub - Interspecies LL
- RODIA - Diaspora Living Lab
- ZAHARA
- GastroTOUR
- DHALL - Digital Humanities LL
- RESYST - Resilient Systems Living Lab





## Building Cesar Knowledge Ecosystem Based on 4 Clusters of 25 Living Labs

### Knowledge Chains of Production and Distribution





Reality  
Level

CRFS Arena  
Urban Food System  
Reality Level

#local issues #global issues # norms #regulations  
#events # patterns #structures #mentalities  
They could be identified as themes or narratives

Action  
Level

Agents  
They change the system  
Innovation

Stakeholders Interface  
#academia #governance  
#entrepreneurs #civil society  
#consumers #knowledge brokers

Actors  
They enforce the system  
Latent Knowledge

Knowledge Level

Deep Understanding  
#PESTLE  
#4 Pillars of Food Security  
#Food Security Dimensions

Unstructured Knowledge / Problem Based Learning  
Living Labs / Policy Labs

Structured Knowledge / Systems Thinking  
Iceberg Model  
#events  
#patterns  
#structures  
#mental models

MOTTO:

*Moving tacit knowledge to strategic knowledge.*

The Cesar2030 living labs build and support multi-actors communities, based on the quadruple helix model, including stakeholders from academia, civil society, entrepreneurship, and governance.

The knowledge management of the stakeholders communities is based on KAPIMS methodology, developed with the contribution of ARFI in the Cities2030 project, and financed within Horizon 2020 Programme.

KAPIMS methodology is based on the report D3.3 Systems Thinking Methodology; 2021 - Cities2030 Project.

Reference:

Löytty, T.; Dinu Vasiliu, C.; Brumă, I. S.; Tanasă, L.; Koetse, M.; Vanhalst, J.; Georgiou, K. E.; Yamasaki, E.; Osmancelebioglu, D.; Silva, B.; Doboş, S.; Karlsson, K. CITIES2030 - D3.3 Systems Thinking Methodology; 2021, Available online: [www.cities2030.eu](http://www.cities2030.eu)





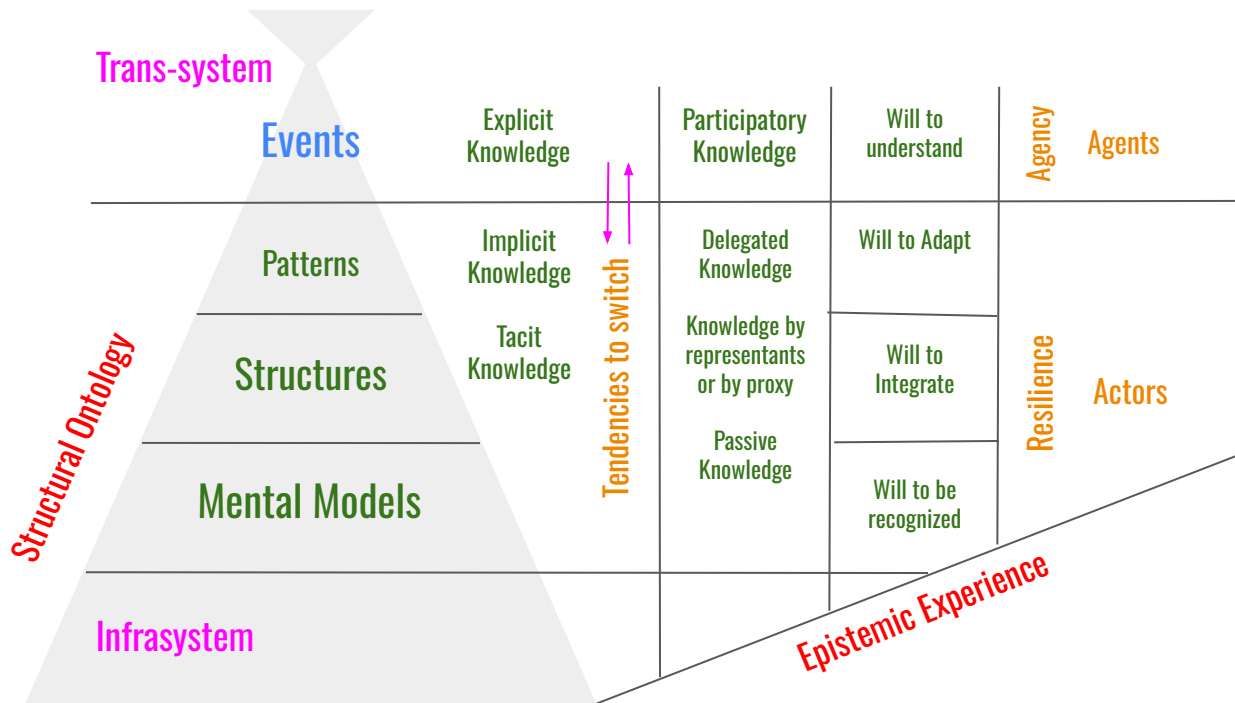
KAPIMS Model is based on Systems Thinking methodologies and Iceberg Model structuring tool for problem-based learning and critical thinking.

## Resources

- Polanyi, Michael. 2002 [1958]. Personal Knowledge: Towards a Post-Critical Philosophy. London: Routledge
- Fodor, Jerry. 1981. The Appeal to Tacit Knowledge in Psychological Explanation. Representations. Cambridge, MA: Bradford/MIT Press, 1981

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## Quadruple Helix Continuum generating POLICY transformation

