

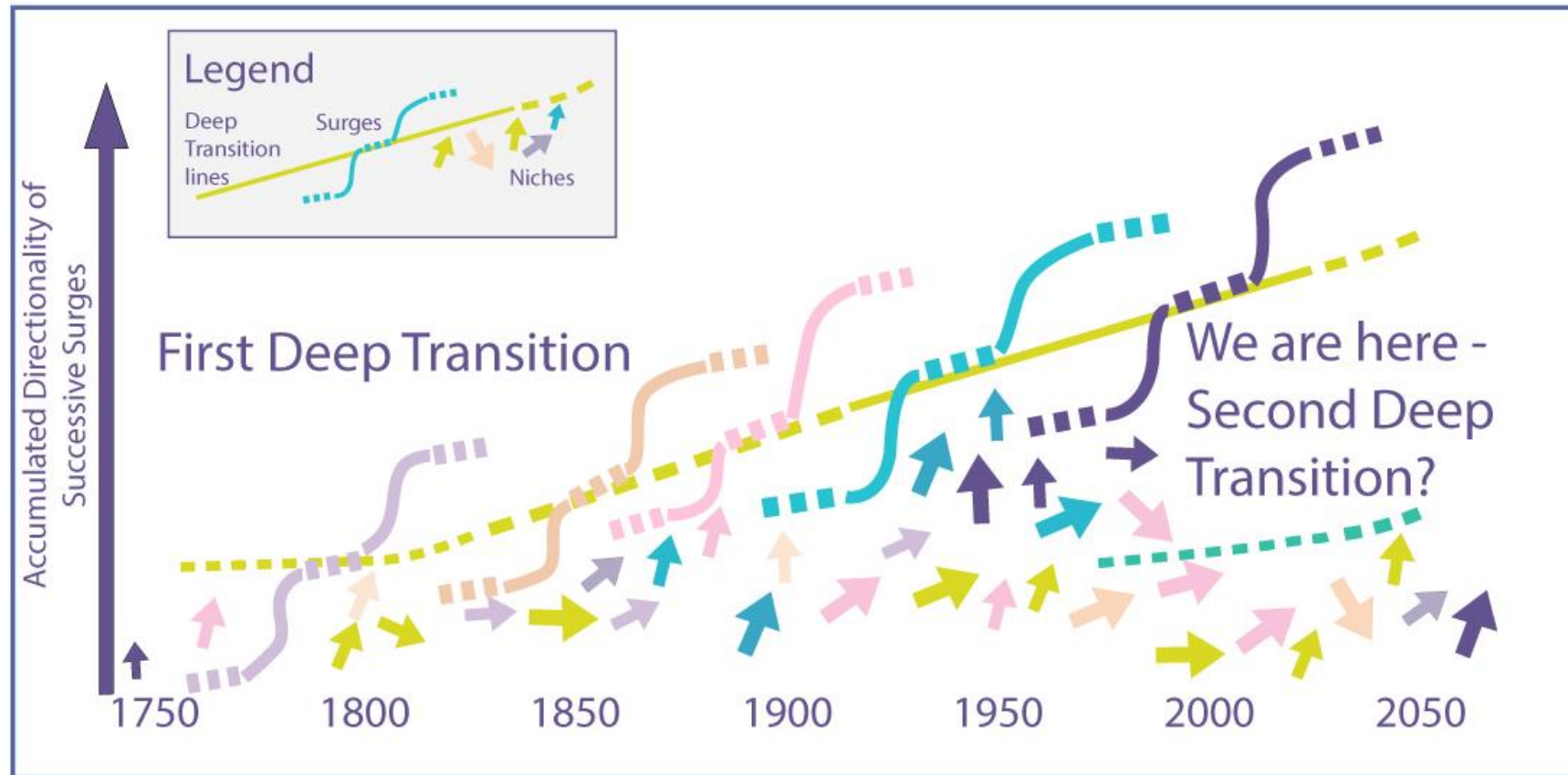
Implementing Transformative Innovation Policy through formative evaluation with transformative outcomes

Presentation for Working Group Understanding and Managing Industrial Transitions,
15 July 2020

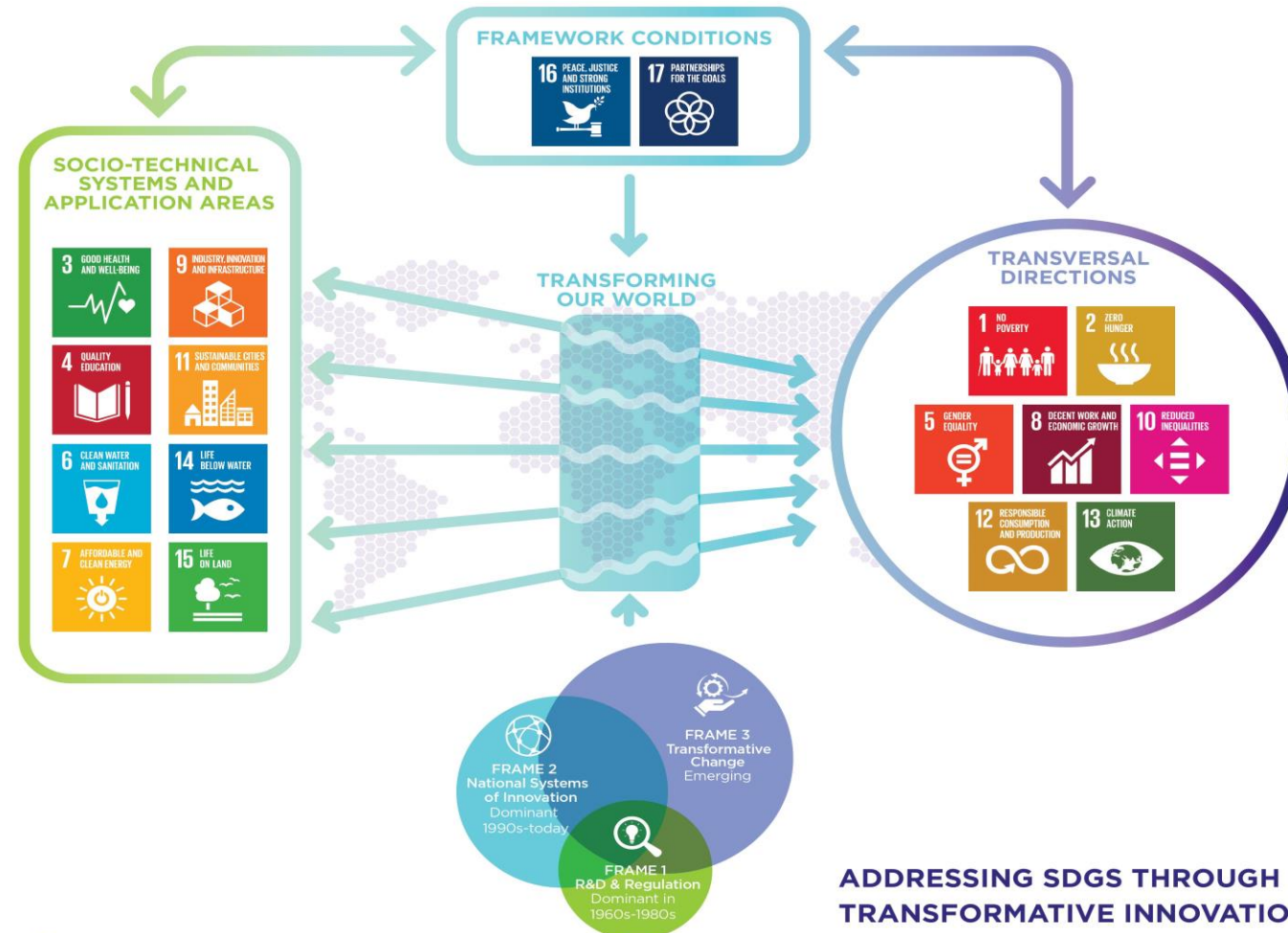
Johan Schot, Utrecht University Centre for Global Challenges

Based on TIPC working paper with Bipashyee Ghosh, Paula Kivimaa & Jonas Torrens

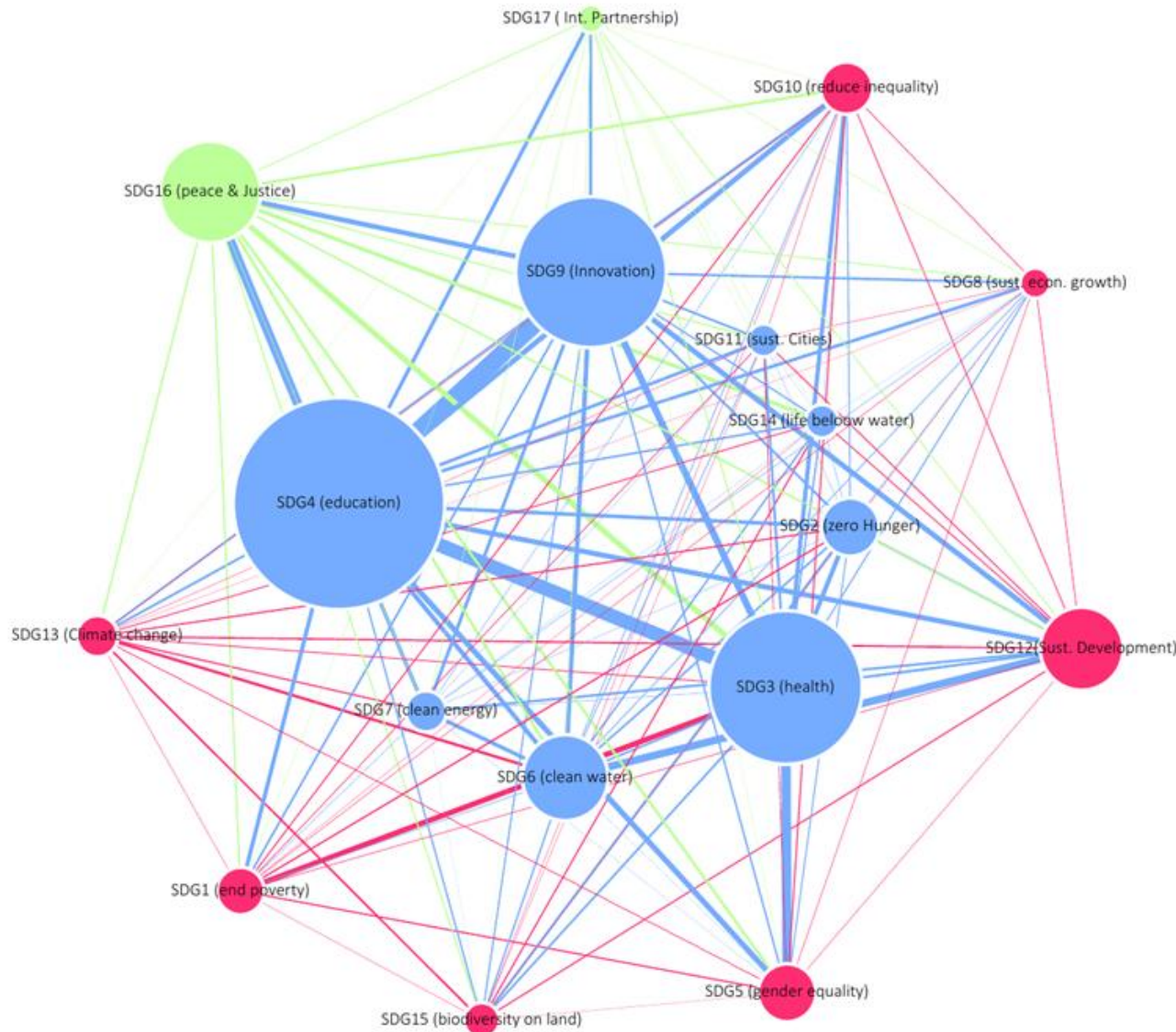
Long term continuity in Deep Transition Dynamics



Transformative Innovation & SDG Implementation



Overview



1. It is significant that two areas of chronic and prolonged problems in Mexico - **poverty and inequality** – appear under-represented compared to other SDGs .
2. Strong interaction between SDG3-4-9 together with SDG16 and 12
3. we suggest that analysis of knowledge communities and triads can help to focus on specific areas for experimentation and strengthening of nexus type research

Ramirez, M., Romero, O., Schot, J., & Arroyave, F. (2019). Mobilizing the Transformative Power of the Research System for Achieving the Sustainable Development Goals. SPRU Working Paper Series.

Background

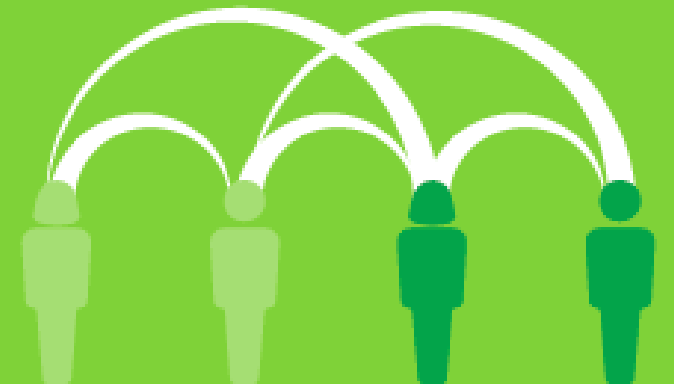
- Transformative innovation policy has emerged as a new approach to innovation policy to achieve SDGs
 - Socio-technical system change
 - Experimentation
 - Directionality
 - Inclusivity
- Main question for TIPC: How can orient the efforts of STI agencies towards making their existing policies, programmes and projects more transformative? Finding answer through process of:
 - Co-creation of theories, application to practise, building capabilities
 - 5 year programme in Global South and Global North



Conclusions TIPC collaboration first 1-2 years

- STI agencies can implement TIP using two key concepts:
 - Experimental policy engagements – “diverse ways in which (STI) policy makers engage with processes of societal experimentation for sustainable transformation..”
 - Transformative outcomes (TOs) – (processes of) change through altering rule-sets in socio-technical systems
- Method: co-creation of a formative evaluation method to identify processes of transformation, and monitor transformation efforts through experimentation
 - Initial list of transformative outcomes tried out, revised and refined through transdisciplinary engagements like:
 - TIPC Learning journey (June 2019)
 - TIPC training week in South Africa (September 2019)
 - TIPC engagement week in Spain (November 2019)
 - VINNOVA workshop in Sweden (February 2020)

**Co-creation
between
academics and
policy-makers**



to produce knowledge on policy

Transformative outcomes – the framework

Principles:

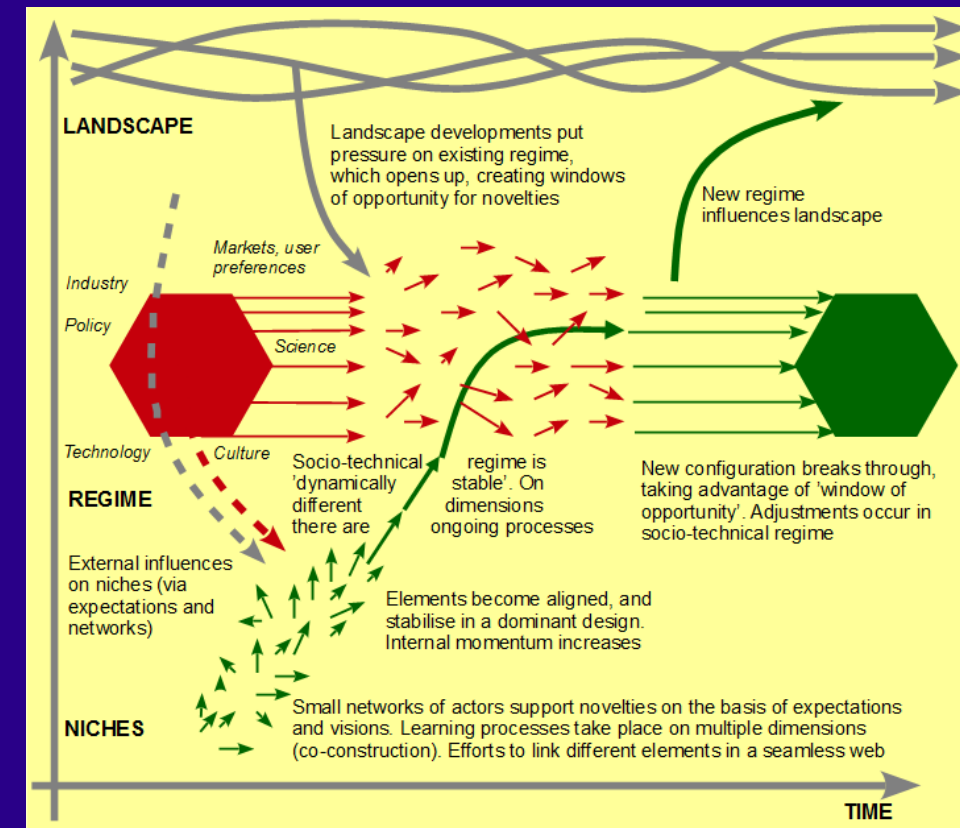
- System change through complex interactions between niches, regime, landscape
- Changes in rules across system dimensions
- Multi actor, negotiated and contested process
- Change is spatially bounded

Three general macro processes that can facilitate transformations:

- 1) building and nurturing niches
- 2) expanding and mainstreaming niches
- 3) opening up and unlocking regimes

A set of four sub-processes in each of the three macro-processes

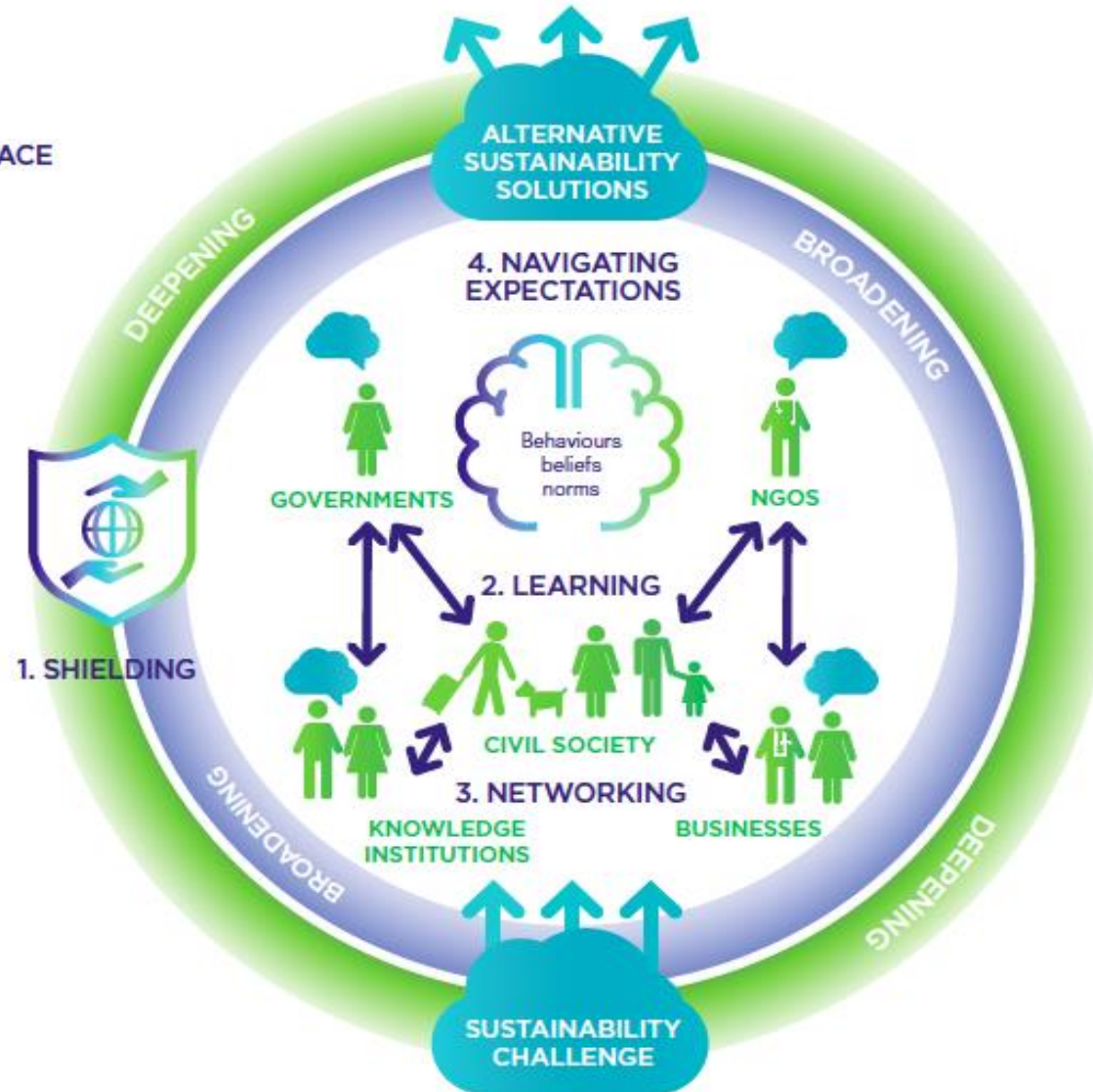
= 12 transformative outcomes



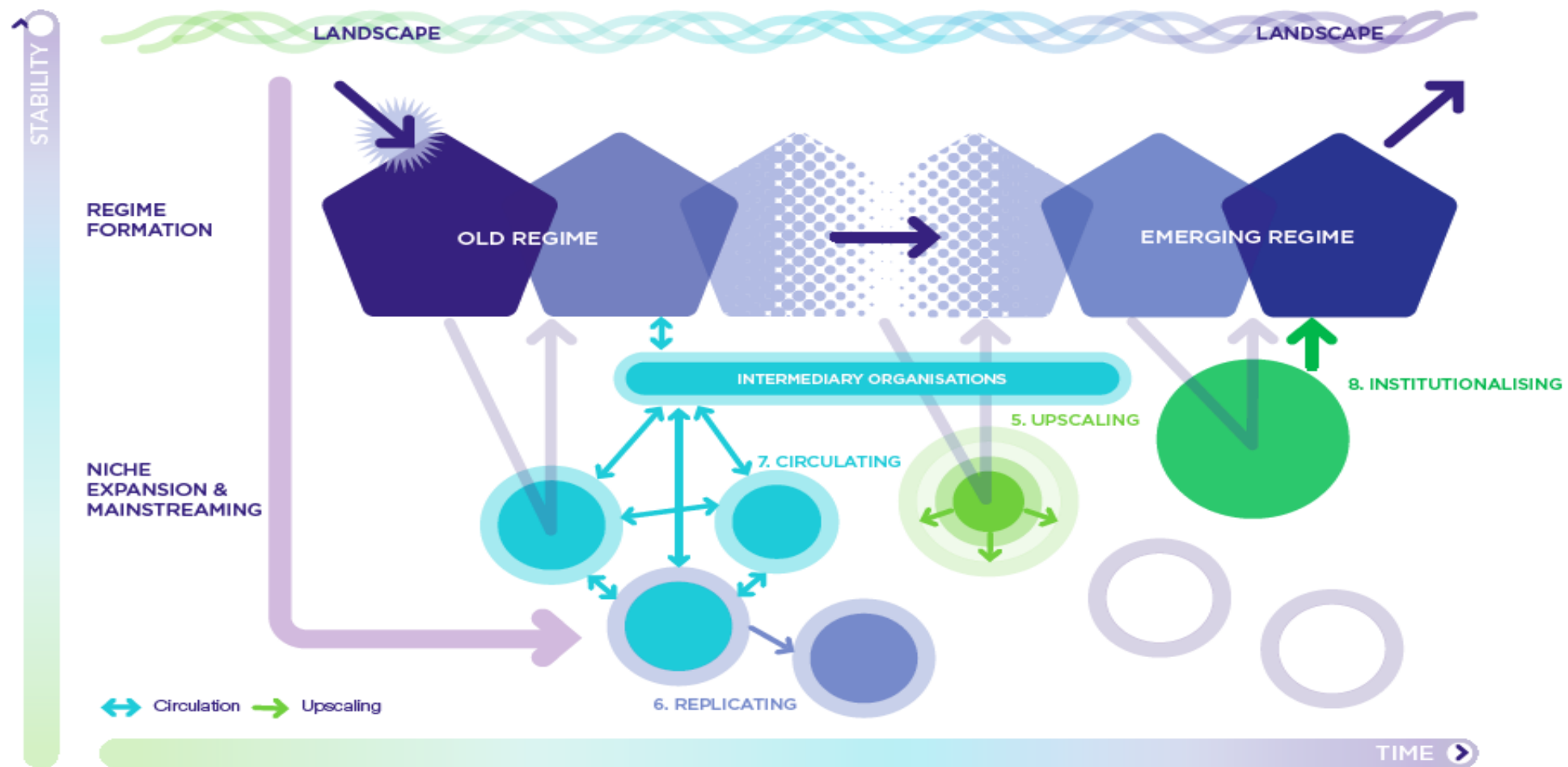
Multi-level perspective (based on Geels, 2002; Schot and Kanger, 2016)

TRANSFORMATIVE OUTCOMES FOR BUILDING & NUTURING NICHE

NICHE PROTECTIVE SPACE



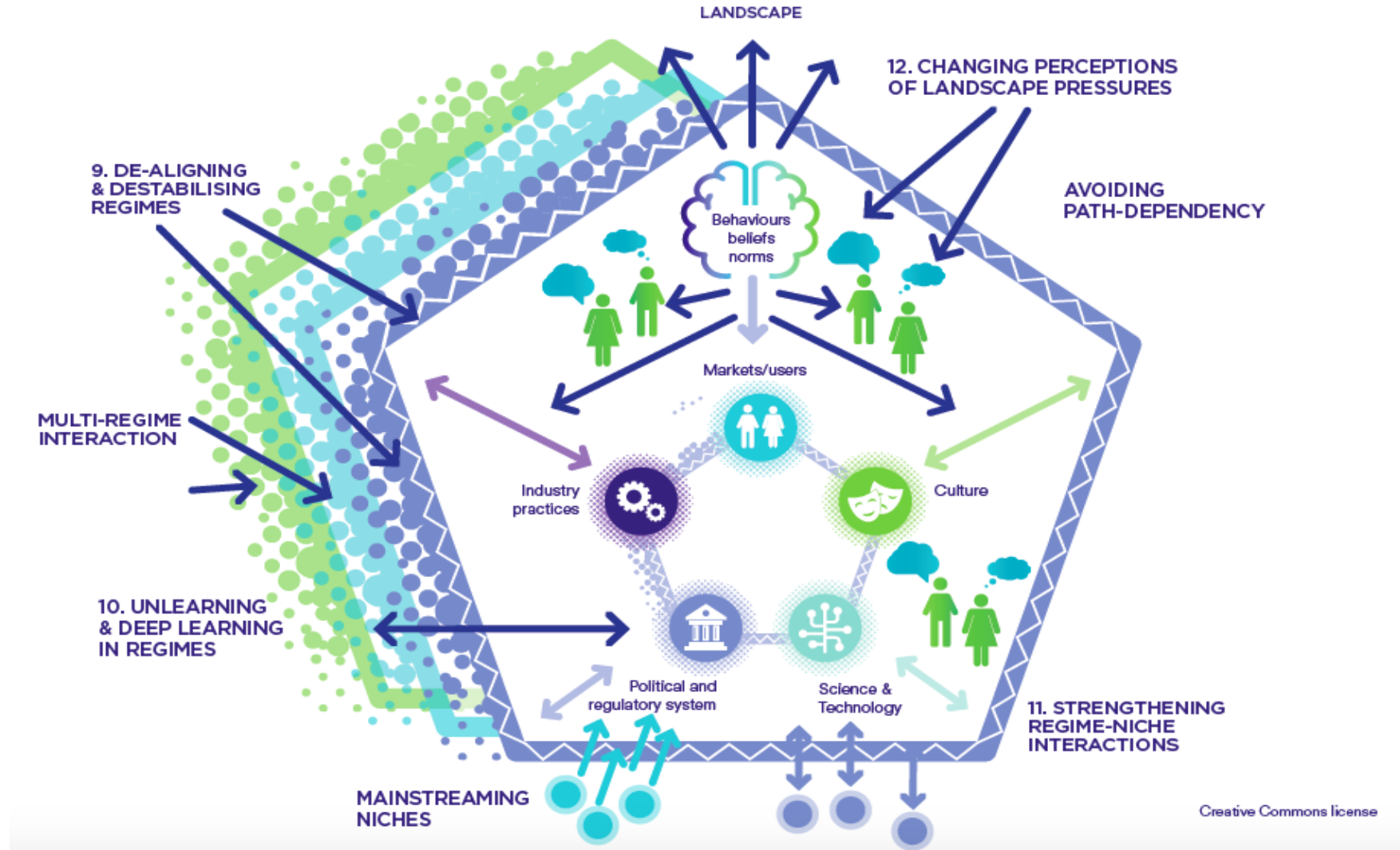
TRANSFORMATIVE OUTCOMES FOR EXPANDING & MAINSTREAMING NICHES



Adapted from Geels and Raven (2006).

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TRANSFORMATIVE OUTCOMES IN OPENING UP AND UNLOCKING REGIMES



Some further reflections and conclusions

- Cases: Transitions to speciality coffee in Colombia and transition to mobility-as-a-service transition
 - Some transformative outcomes are more visible than others
 - Varied quality of transformative outcomes, necessitating indicators
- Transformative change is needs *deliberation, coordination and reflexivity* between niche and regime actors
 - Transformative outcomes provide a *guide for accelerating change through a systemic approach*
- STI agents should focus on shaping, modulating and stretching ongoing transformation processes
 - targeted interventions and quality enhancement through transformative outcomes
- Transformative outcomes is contextual and qualitative indicators of change, assuring *directionality*, important for achieving SDGs.

