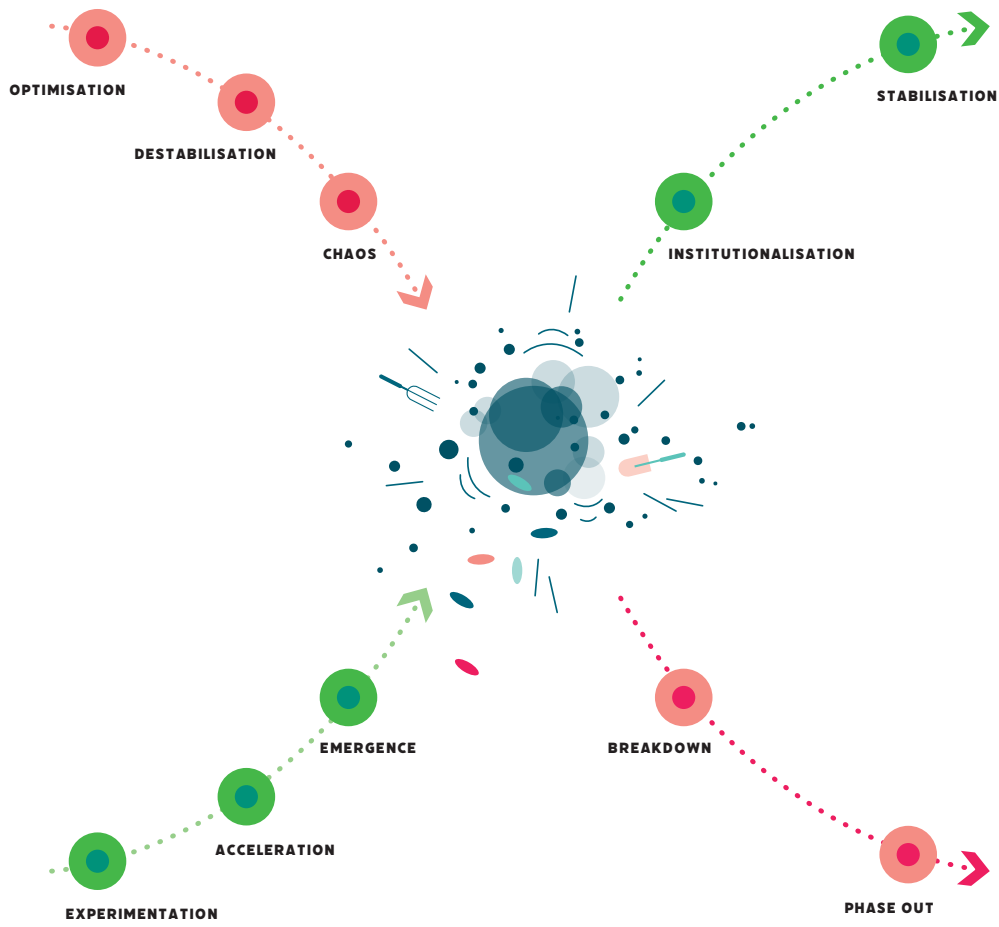
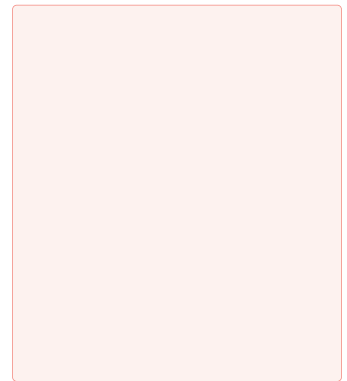
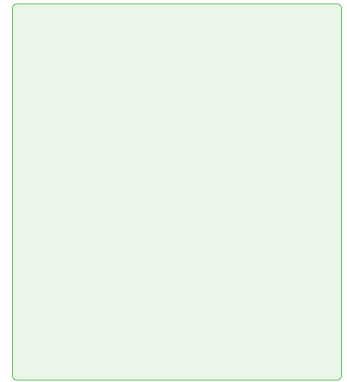
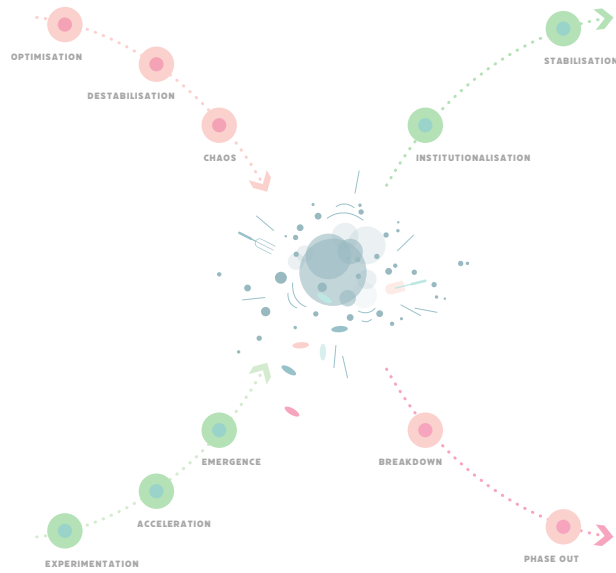
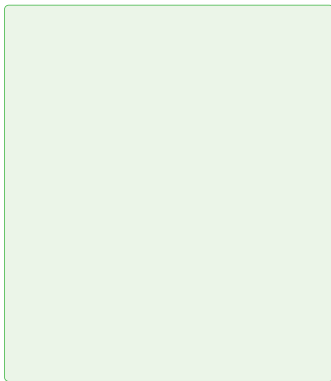
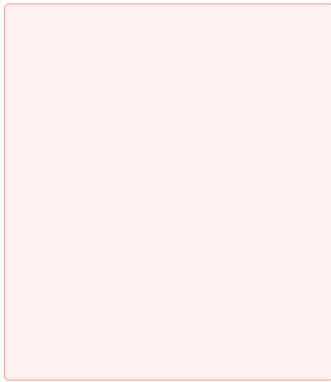


X-CURVE MODEL



SOURCE: image from Silvestri et al. 2022, based on Loorbach, 2007.

EXAMPLE OF AN X-CURVE MODEL WORKSHEET



SOURCE: image from Silvestri et al. 2022, based on Loorbach, 2007.

X-CURVE WORKSHEET

Main purpose/need:

Main system need:

EXNOVATION: SYSTEM DEMANDS

DO YOU RECOGNIZE THESE DEMANDS IN YOUR SYSTEM
(E.G. CITY, NEIGHBORHOOD, ETC.)? IF SO, HOW?

Optimisation Overall demand: Waking up the system

Raising awareness about need for change.

Building a common narrative with all city actors: creating a new story of change and empowerment.

Finding a sense of direction for the city administration/
government: knowing where your city wants to head to.

Other.

Destabilisation Overall demand: Joining forces and clear direction

Finding political commitment to adjust directions and aims of
the process of change

Reorienting law, policies, contracts, financial flows and processes
to correspond to adjusted course: what needs to be built up and
what needs to be dismantled?

Create a transition roadmap and operationalise it. Reflect on
how to get there: knowing what is needed for transformation
and what the steps are to get there.

Create a sense of shared strategy and momentum by forming
coalitions and facilitating knowledge exchange.

Invest in anticipating inequalities and power imbalances that
might be (re-)produced through transition.

Go beyond green washing: incumbents need to be held accountable for their actions.	
Starting to think about phase out strategies already to navigate chaos.	
Building networks that can support the destabilisation.	
Anticipate on what needs to be institutionalised, while keeping different options open and ready, to be able to emerge and institutionalize later.	
Other:	
Chaos > Enforcing regulations for air quality and waste management	
Break down Overall demand: Structurally getting rid of remnants that obstruct the transition and cannot be 'repurposed'	
Starting to phase out institutions, law, policy, contracts, and processes that obstruct or limit the transition.	
Starting to phase out financial systems that obstruct or limit the transition.	
Starting to phase out infrastructures that obstruct or limit the transition.	
Establishing a new 'Business as usual' in people's lives.	
Other:	
Phase out Overall demand: Clear strategy and safeguarding people	
Finding ways to deal with 'loss' culturally, economically and politically.	
Executing clear strategies to navigate the phase out dynamic in different sectors.	
Other:	

X-CURVE WORKSHEET

INNOVATION: SYSTEM DEMANDS

**DO YOU RECOGNIZE THESE DEMANDS IN YOUR CITY?
IF SO, HOW?**

Experimentation Overall demand: Creating space

Empower (local) experiments and bottom-up initiatives: invest in successful niche building.

Allow for spaces and projects that challenge the status quo.

Other:

Acceleration Overall demand: Joining forces and proof of concept

Invest in niche expansion and embedding.

Form networks of support for initiatives and innovations for mutual learning and support.

Learn about different alternatives: what works, when, and how?

Support experiments and bottom up initiatives to build their capacities (e.g. organisationally, administratively, financially).

Support experiments and bottom up initiatives to replicate (e.g. in a different location or sector), to growing (e.g. gain new members), to partner (e.g. collaborate with local institutions and among each other), to have a more transformative impact.

Other.

Emergence > clearly promote and implement the MAAS concept

Institutionalisation Overall demand: Embedding alternatives

Implementation of legal and institutional changes.

Institutionalising the new regime by detailing the implications of the transition throughout institutions, law, policy, contracts, and processes.

Detailing the implications of the transition financial systems.

Detailing the implications of the transition throughout the change of infrastructures.

Adjusting accountability of new institutions and adjustments of the systems through checks and balances

Other:

Stabilisation Overall demand: Stabilising new configuration

Responding to discrepancies and unforeseen side-effects of institutionalising of the new configuration.

Checking how new societal structures affect social inequalities and protecting vulnerable societal groups.

Reflecting on how the new structures are transforming the regime or reproduce similar patterns and problems

Other: