Beyond Experiments: Embedding outcomes in climate governance

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The problem

- The societal transition to Net-zero Carbon emissions will require a continuous flow of innovations which have systemic effects
- Many of these innovations will emerge from bottom-up policy and socio-technical 'experiments' – cities as incubators
- Experiments are small-scale initiatives, pioneering new ways of doing things
- But the processes by which outcomes of experiments expand, diffuse and 'add up' are under-theorised often a notion of 'scaling up'



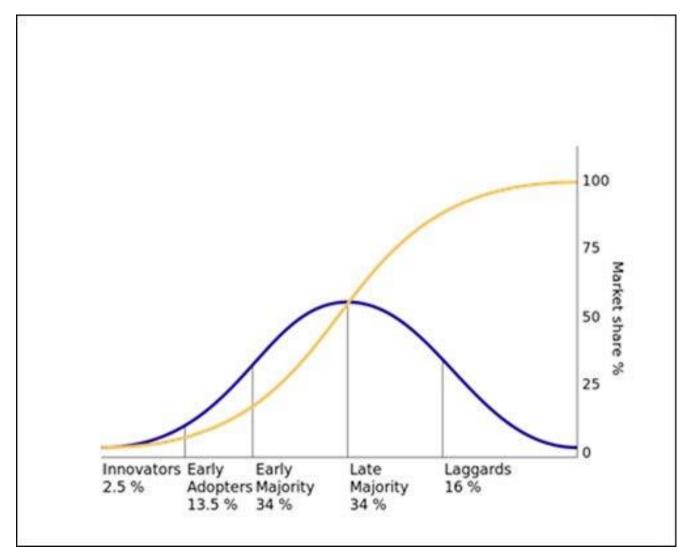


Climate experiments





A standard diffusion model (Rogers, 1962)







Diffusion of experiments as 'embedding'

Outputs of experiments may include:

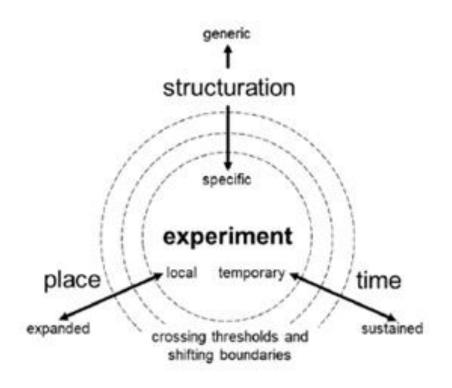
- New ways of doing things (Schumpeter's 'neue kombinationen')
- New technologies and capabilities
- New institutions and regulations
- New coalitions of actors
- New 'imaginaries'

Diffusion or proliferation of rarely a simple process of *adoption*, but an evolutionary process of *mobilisation*, *generalisation*, *embedding* and *reconfiguration* of socio-technical systems





Conceptual territory beyond the experiment







Four 'embedding mechanisms' for experimental outcomes

	Object and kind of mobility (What becomes mobile? And how?)	Object and kind of generalization (What becomes generic? And how?)
Replication	Mobility of experiments across settings	Templates for replication
Proliferation	Mimetic process (with minimal variation)	Conserving process (similar units)
Expansion	Growth in scope (size/time/jurisdiction/publics)	Templates for scope expansion
& Consolidation	Broadening process (with adjustment)	Amplifying process (broader units)
Challenging	Mobility of experimental outcomes	Normalization and depoliticization
Reframing	Extractive process (from outcomes to rules)	Reductive process (simplified units)
Circulation	Mobility of enablers (knowledge, people, ideas)	Extraction of situated knowledge
Anchoring	Mimetic process (with minimal variation)	Reductive and amplifying process





Some illustrative examples

- Replication/Proliferation: Cap and trade schemes (RECLAIM, LA)
- Expansion/Consolidation: Carsharing (Switzerland)
- Challenging/Reframing: Climateers (HK) and #FridaysforFuture
- Circulation/Anchoring: Community Choice Aggregation (Mass)



