Experiential learning in urban mobility experimentation

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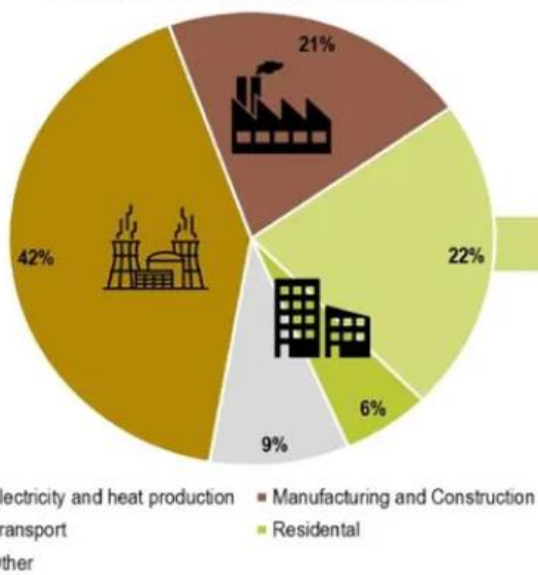
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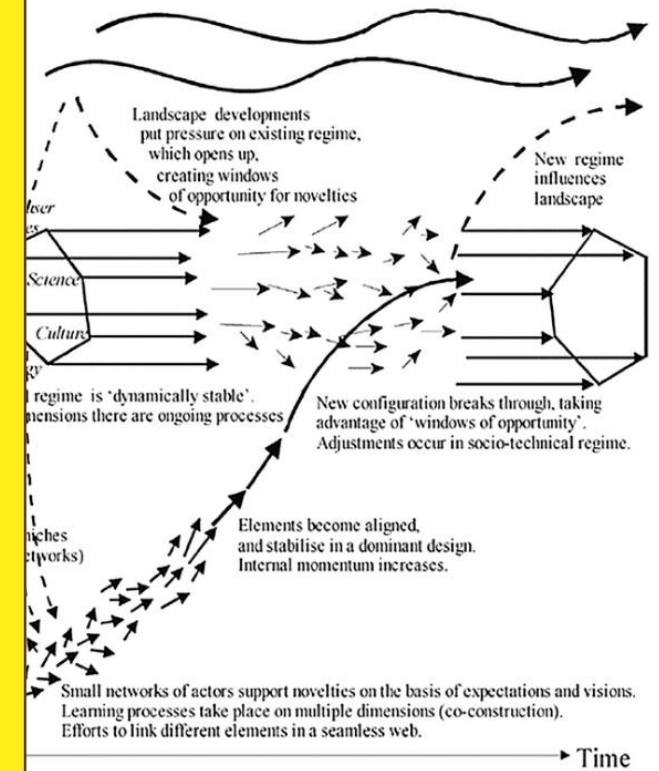
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CO2 Emissions by Economic Sector

- 42% Electricity and heat production
- 21% Manufacturing and Construction
- 22% Transport
- 9% Residental
- 6%
- Other

Source: International Energy Association. IEA and IPCC

Do you know of any uban mobility experiments?

Landscape developments put pressure on existing regime, which opens up, creating windows of opportunity for novelties

New regime influences landscape

regime is 'dynamically stable'. ...mensions there are ongoing processes

New configuration breaks through, taking advantage of 'windows of opportunity'. Adjustments occur in socio-technical regime.

...niches ...tworks)

Elements become aligned, and stabilise in a dominant design. Internal momentum increases.

Small networks of actors support novelties on the basis of expectations and visions. Learning processes take place on multiple dimensions (co-construction). Efforts to link different elements in a seamless web.

→ Time

...ions, illustrating processes at three different levels: the socio-technical ...egime and niche innovations. Source: Geels (2012).

In a database a[...] [...]ty of urban experimentatio[...] [...]ts in 225 cities, Castan B[...] [...]nd social learning as the[...] [...]sfaction rate of less than 1%[...]

Was learning important for the uban mobility experiment you were involved with?

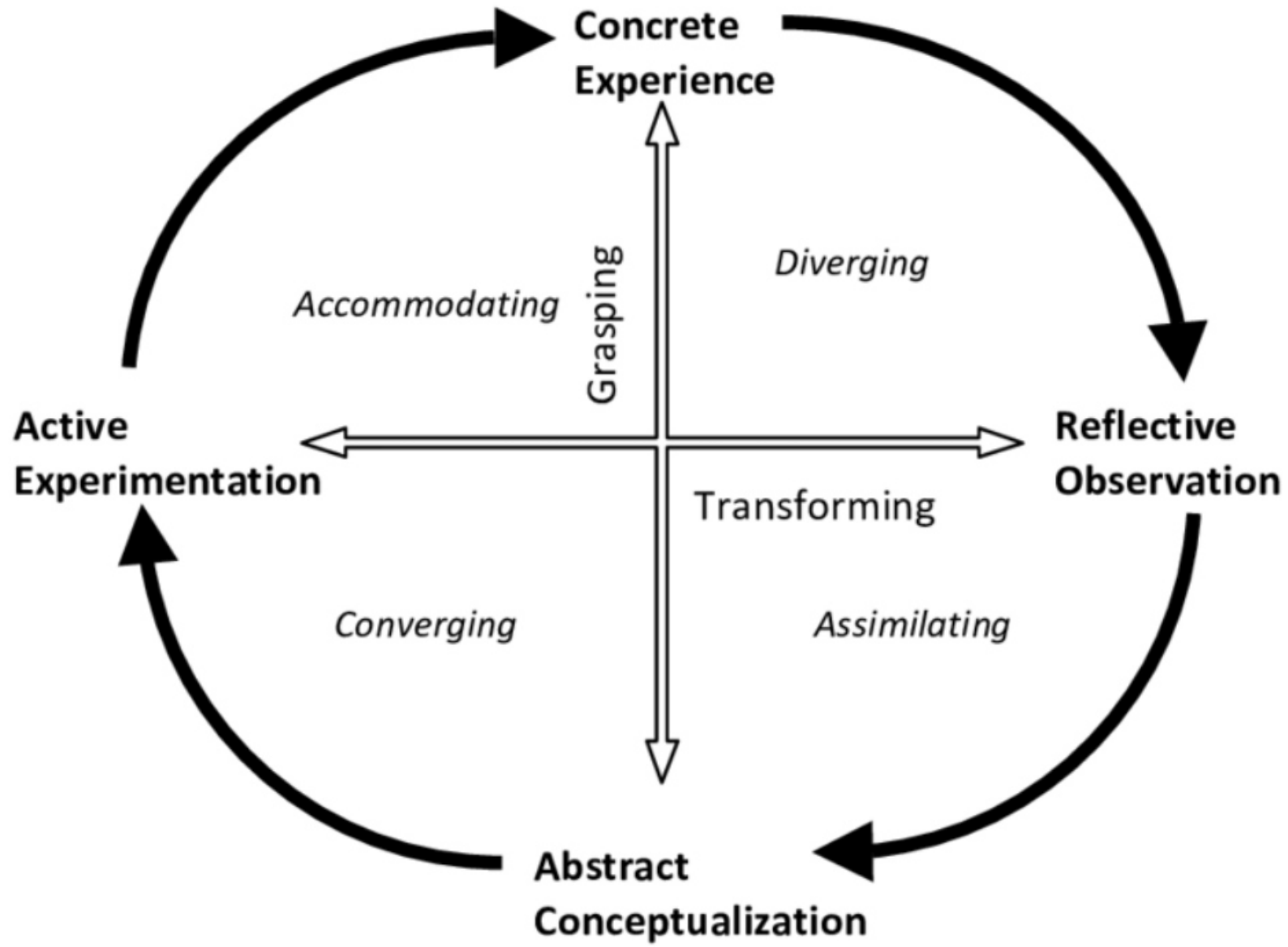Source: Beukers and Be[...] [...]nt boundaries

How to learn   periments?

- Social learning
- Reflexive learni
- Single – double
- From implicit (t
- Experiential lea

**What helped you to learn through
the uban mobility experiment you were involved
with?**

What worked:
- Most rich learning throu[gh] (interactive) exercises, stim[ulated] **self** thinking, designing, d[...]
- Attention for learning = a [...] goal (so no failure)

What didn't work:
- Unclear if lessons learned f[or] transition

How did it work ou[t?]

Applied at progra[m...] urban mobility exp[...] (large to sma[ll...])

How to appl[y...]

How could experiential learning help you to learn through uban mobility experimentation?

is this happening?

[...]ion drifts away > [...]radox between [...]rnal and external [...]eriments succes

[...] improve?

Strategy for learning within and beyond experiment boundary

Beukers and Bertolini (2023), Fostering learning beyond urban experiment boundaries

Beukers and Bertolini (2021), Learning for transitions: an experiential strategy for urban experiments

Different level of actions:
- Institutional (setting up meeting with eldermen to discuss financial arrangement)
- Personal (change workplace once a week)
- Cultural (understanding each others language)

Directly and indirectly involved participants learned supported by the exercises: self

very little.

What did you learn from this presentation?

How can you use these insights for your own work?

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Learning is not enough:
- Knowledge transfer
- Individual learning
- Organizational/ institutional learning

Learning Living Labs/ l
communities:
1. Make explicit:
2. Design excers
learned into applicable action

lessons learned into applicable actions?

Active Experimentation

Reflective Observation

Transforming

Converging

Assimilating

Abstract Conceptualization