

# Positive Tipping Points

The point at which a series of small changes or incidents becomes significant enough to cause a larger, more important change  
*Oxford English Dictionary*

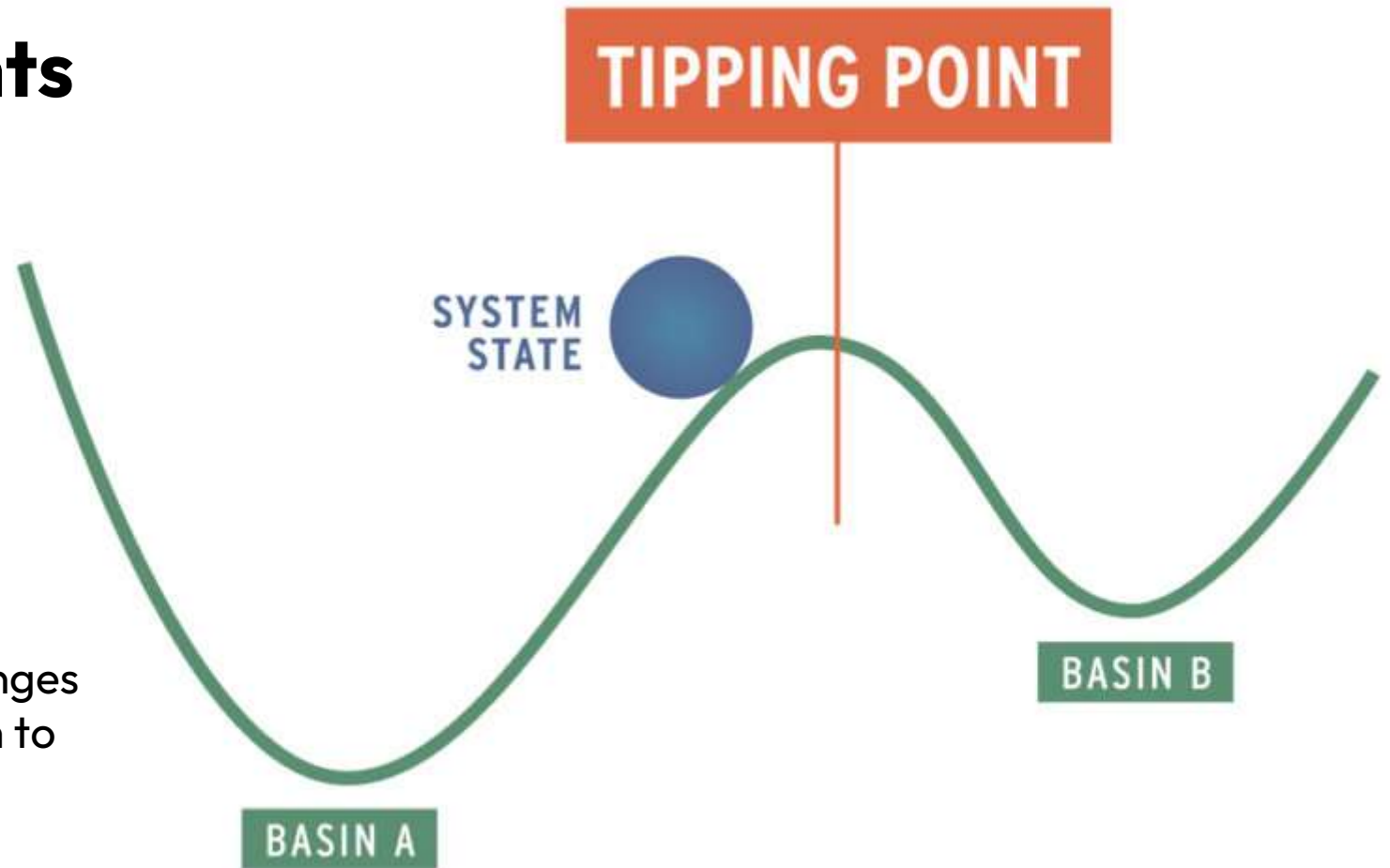


Illustration by Andrew Bernier, adapted from Walker, B. & Salt, D. (2006) Resilience Thinking: Sustaining Ecosystems and People in a Changing World. Island Press: Washington, DC.



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- 1. Unintended consequences**
- 2. Overwhelm**
- 3. Inefficiency**



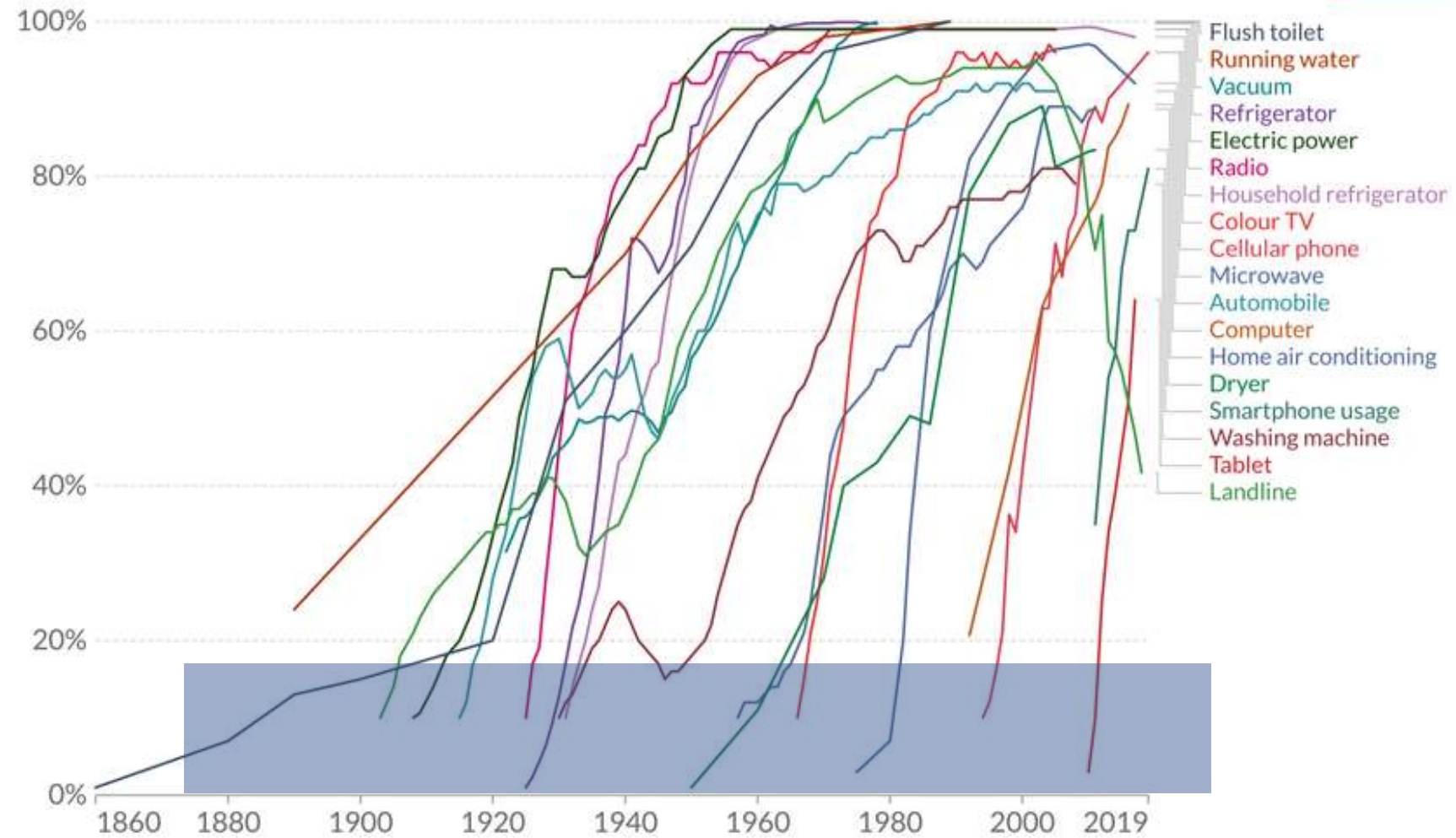






# Share of US households using specific technologies, 1860 to 2019

Our World  
in Data



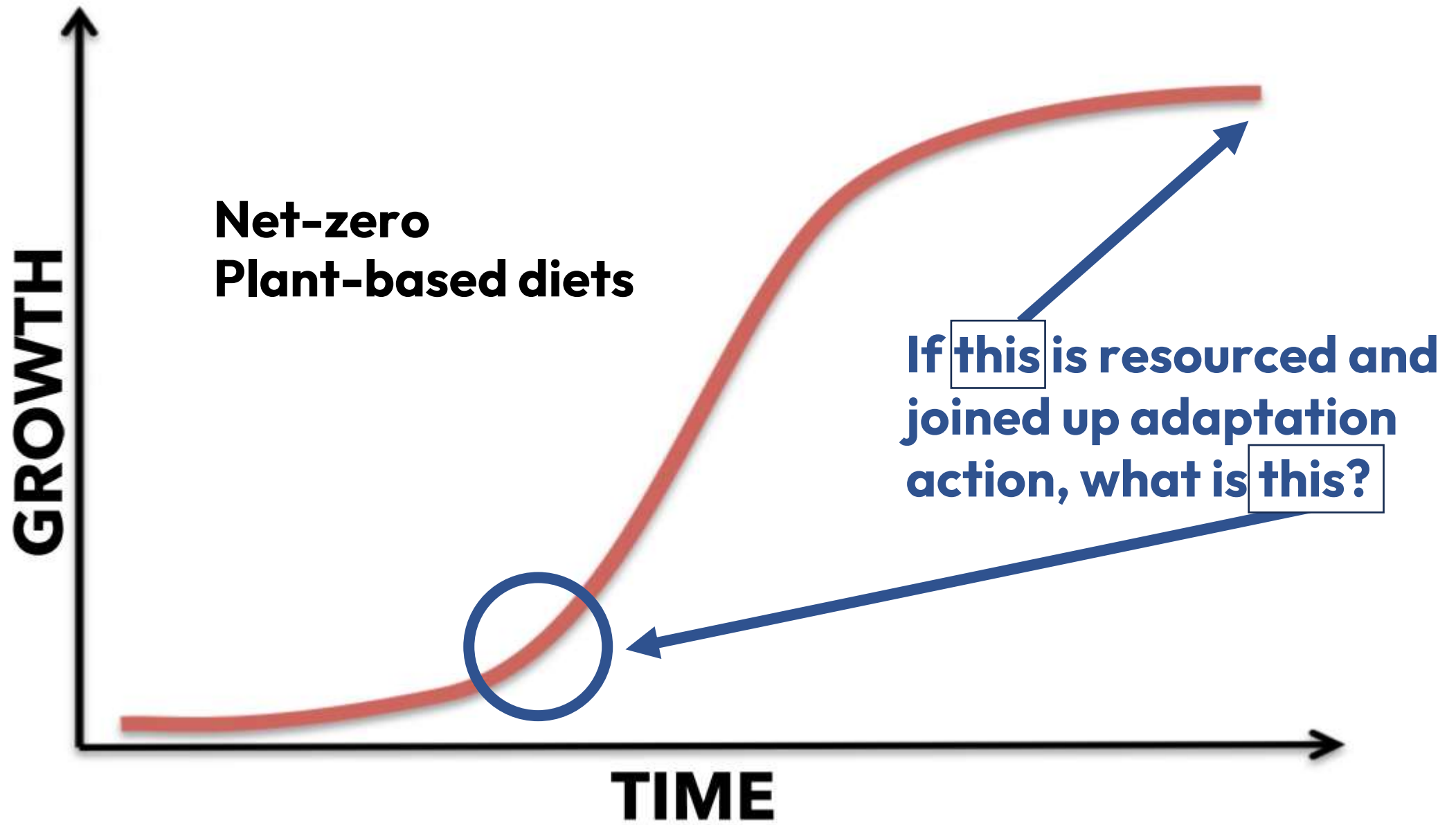
Source: Comin and Hobijn (2004) and others

Note: See the sources tab for definitions of adoption rates by technology.



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Photo by Alex Perez on Unsplash



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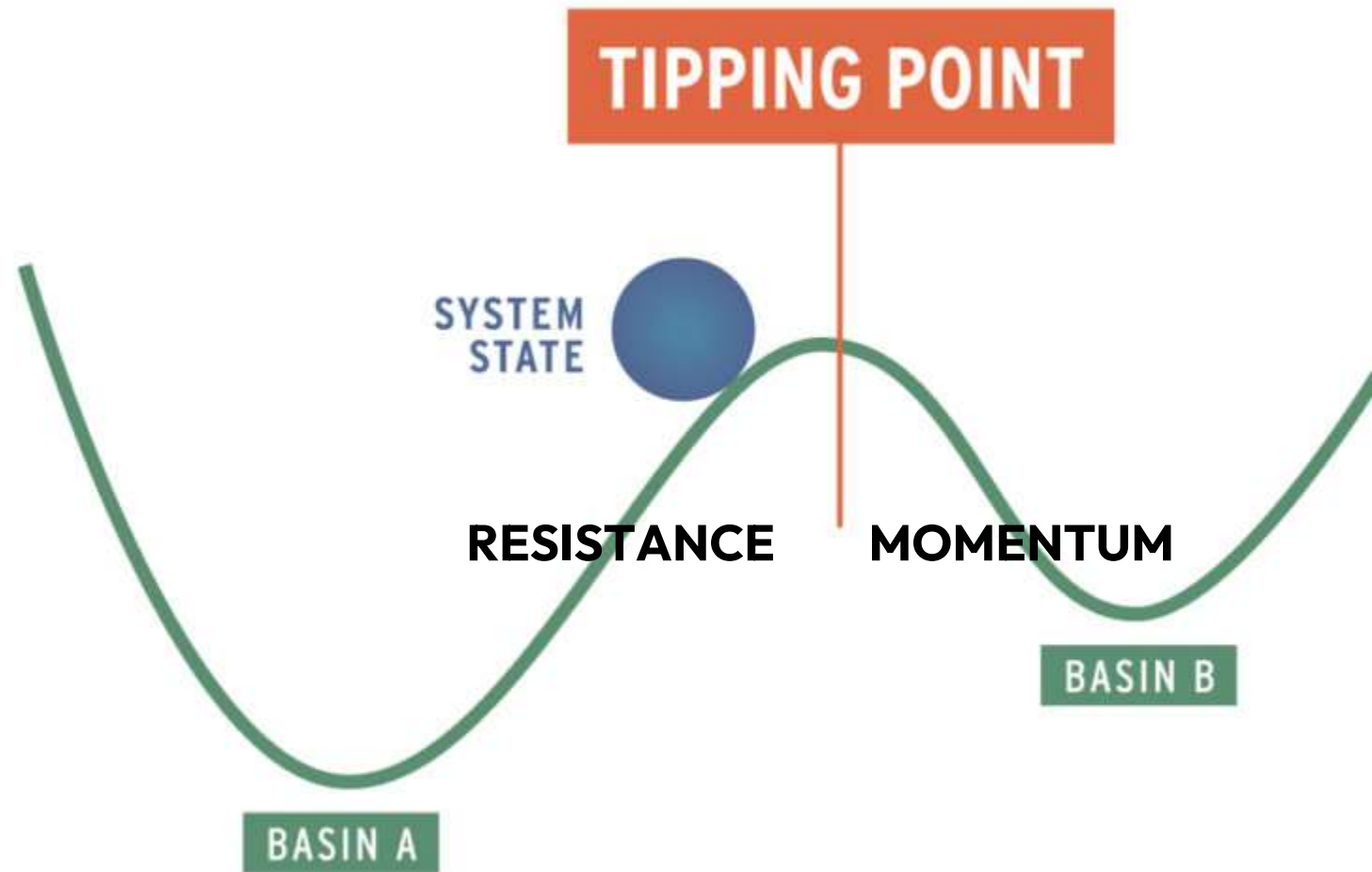


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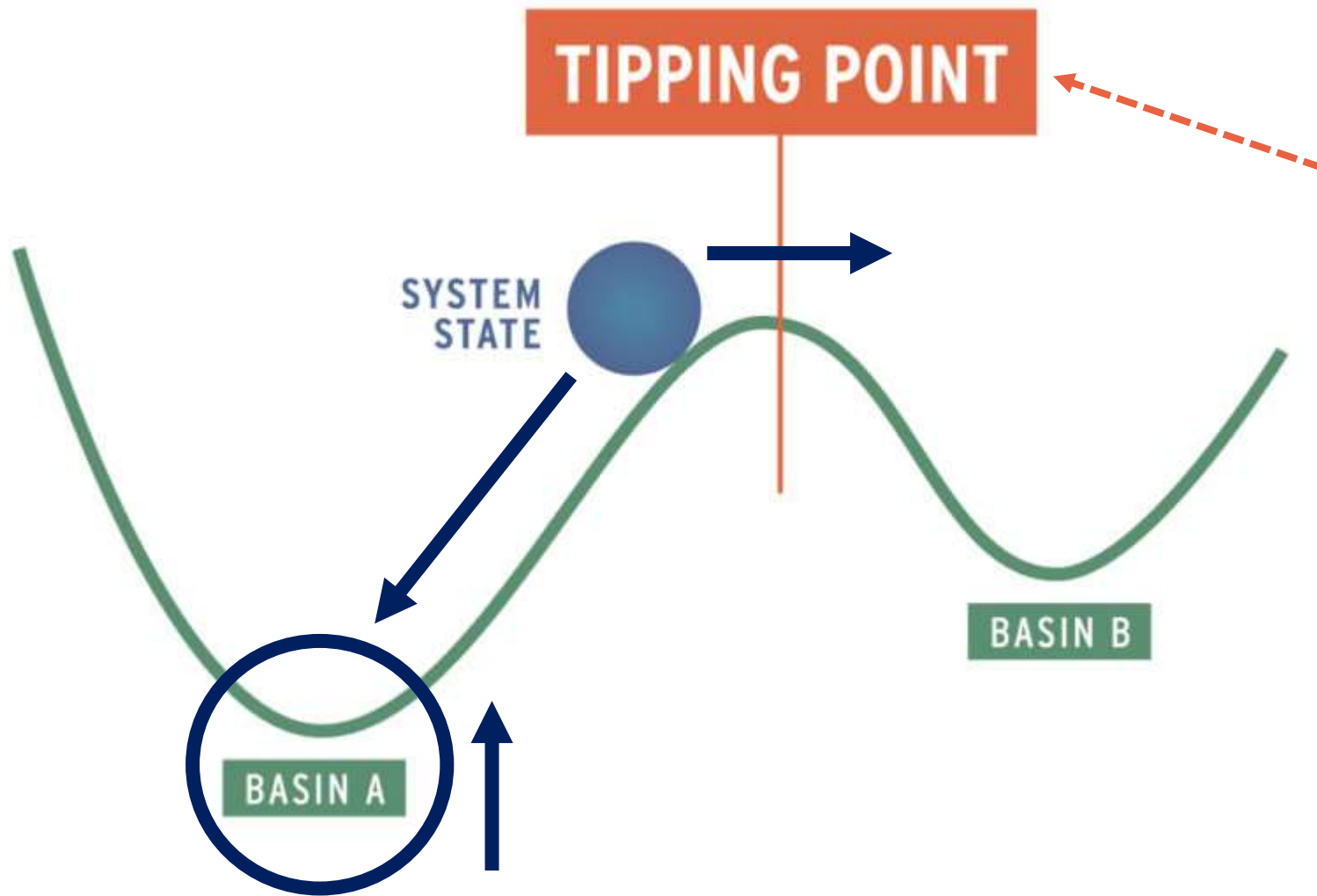


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Illustration by Andrew Bernier, adapted from Walker, B. & Salt, D. (2006) Resilience Thinking: Sustaining Ecosystems and People in a Changing World. Island Press: Washington, DC.



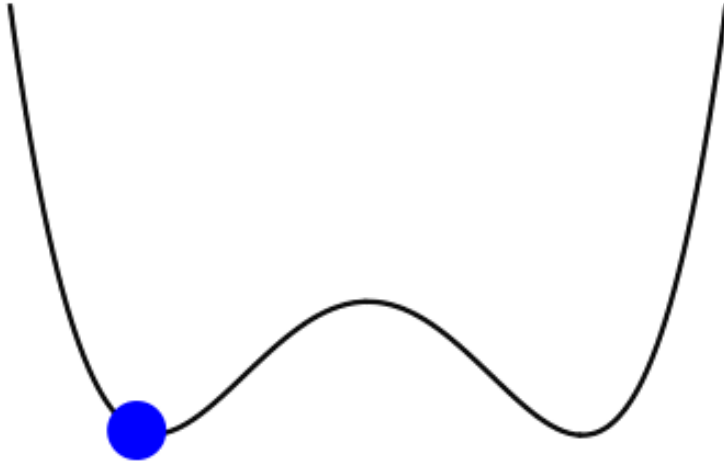
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# Passing a tipping point



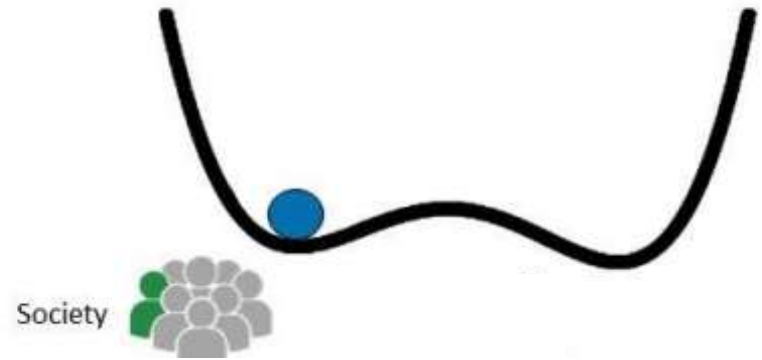
CC BY 4.0 - Chris A. Boulton (UoE, UK)



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**Create the conditions for change**

**Find reinforcing feedbacks**

**Trigger the change**



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## Create the conditions for change



Number of people



Access to information



Affordability



Quality



Desirability



Accessibility

## Find the feedback loops



Critical mass



Economies of scale



Learning by doing



Co-ordination



Social networks

## Trigger the change



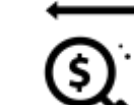
Innovation



New policy



Behaviour change



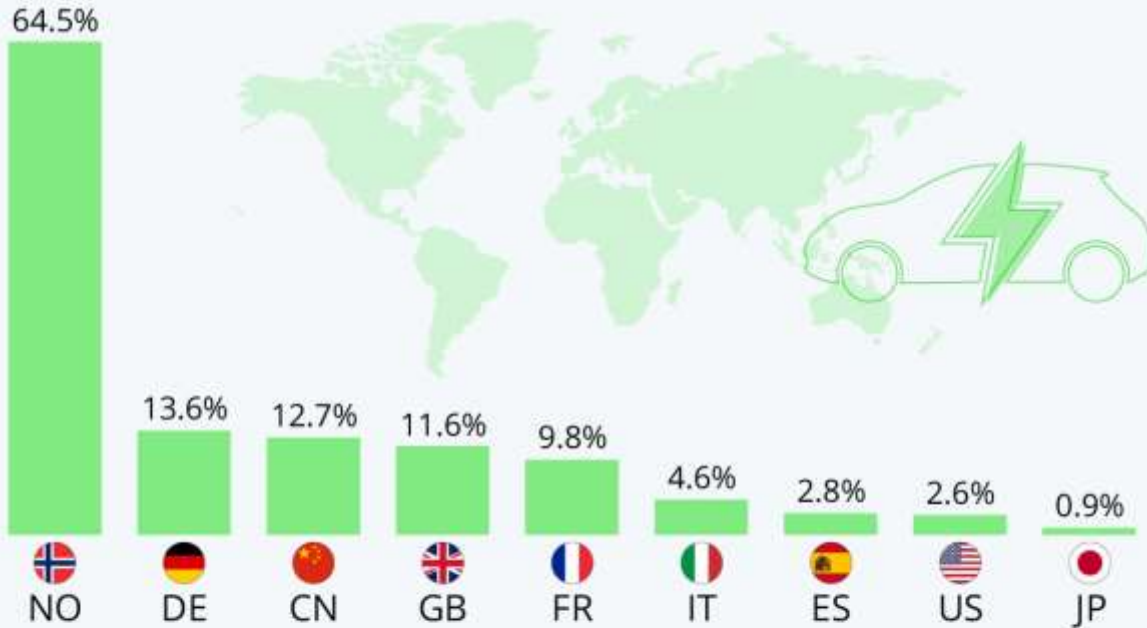
Investment



New information

# E-Mobility: Norway Leads the Charge

Share of electric vehicles in new passenger car registrations in selected countries in 2021\*



\* battery electric vehicles (BEV) excl. plug-in hybrids (PHEV)

Sources: ACEA, CAAM, PwC



statista

Price goes down ↓

Quality goes up ↑

Desirability goes up ↑

Accessibility goes up ↑

Cost of alternative goes up ↑



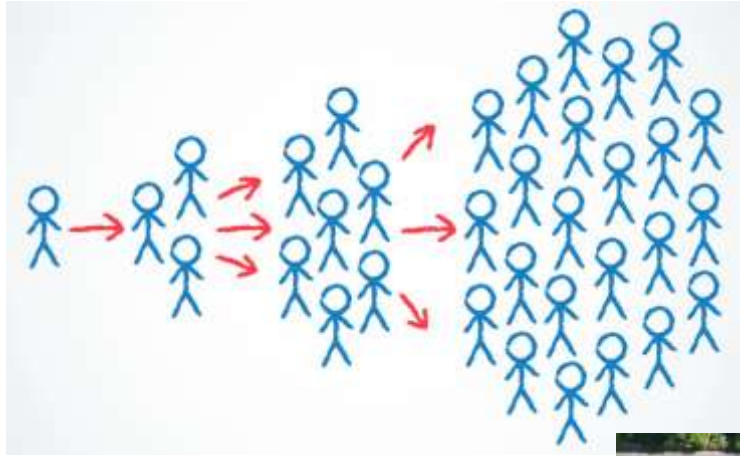
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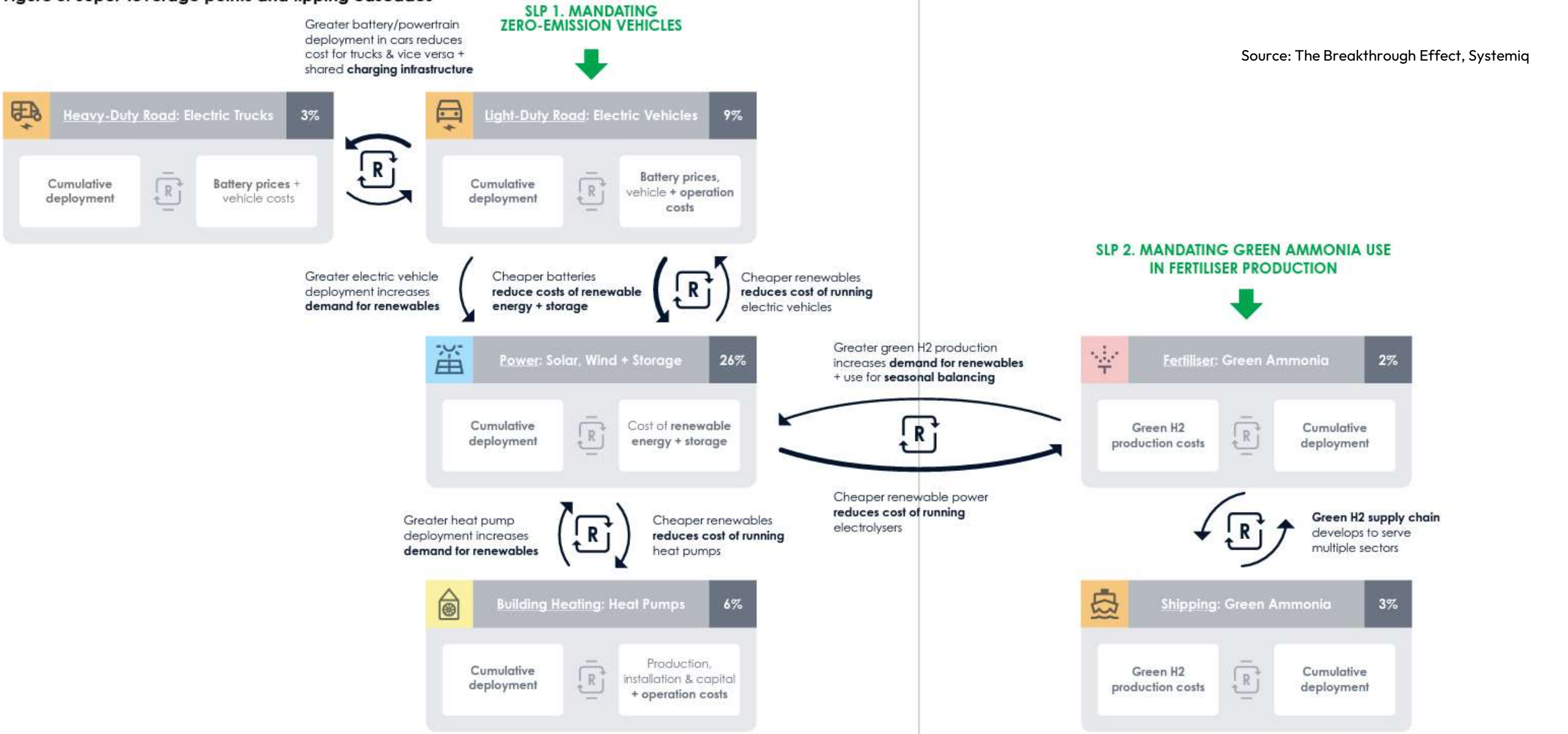
# Social contagion



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Figure 5: Super-leverage points and tipping cascades



Source: The Breakthrough Effect, Systemiq



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Art: @nicoleMcomix

# YOU CAN BE A NEIGHBOURHOOD HERO

Local knowledge  
Communication channels  
Roles and processes  
Legitimacy

“Mutual aid offered by group-based models and social movement networks provides routes to community resilience that support community-led responses to climate change focused on collective advocacy and care.”

*Elise Harrington and Aileen Cole  
Typologies of Mutual Aid in Climate Resilience:  
Variation in Reciprocity, Solidarity, Self-  
Determination, and Resistance – June 2022*

## VOLUNTEER FOR MUTUAL AID



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