



Brisbane ↑

← Warwick  
via Drayton



**Power to perceive**



**Power to act**

**Power to think**

**voices for everyone**

**get things done,  
not perfect**

**Working with uncertainty:  
The challenges and opportunities of socio-technical system change**

**Matt Finch - [mechanicaldolphin.com](https://mechanicaldolphin.com) - 15 February 2023**

**uncertainty**

**Working with uncertainty:  
The challenges and opportunities of socio-technical system change**

**Matt Finch - [mechanicaldolphin.com](https://mechanicaldolphin.com) - 15 February 2023**

**socio-technical**



**Eric Trist**

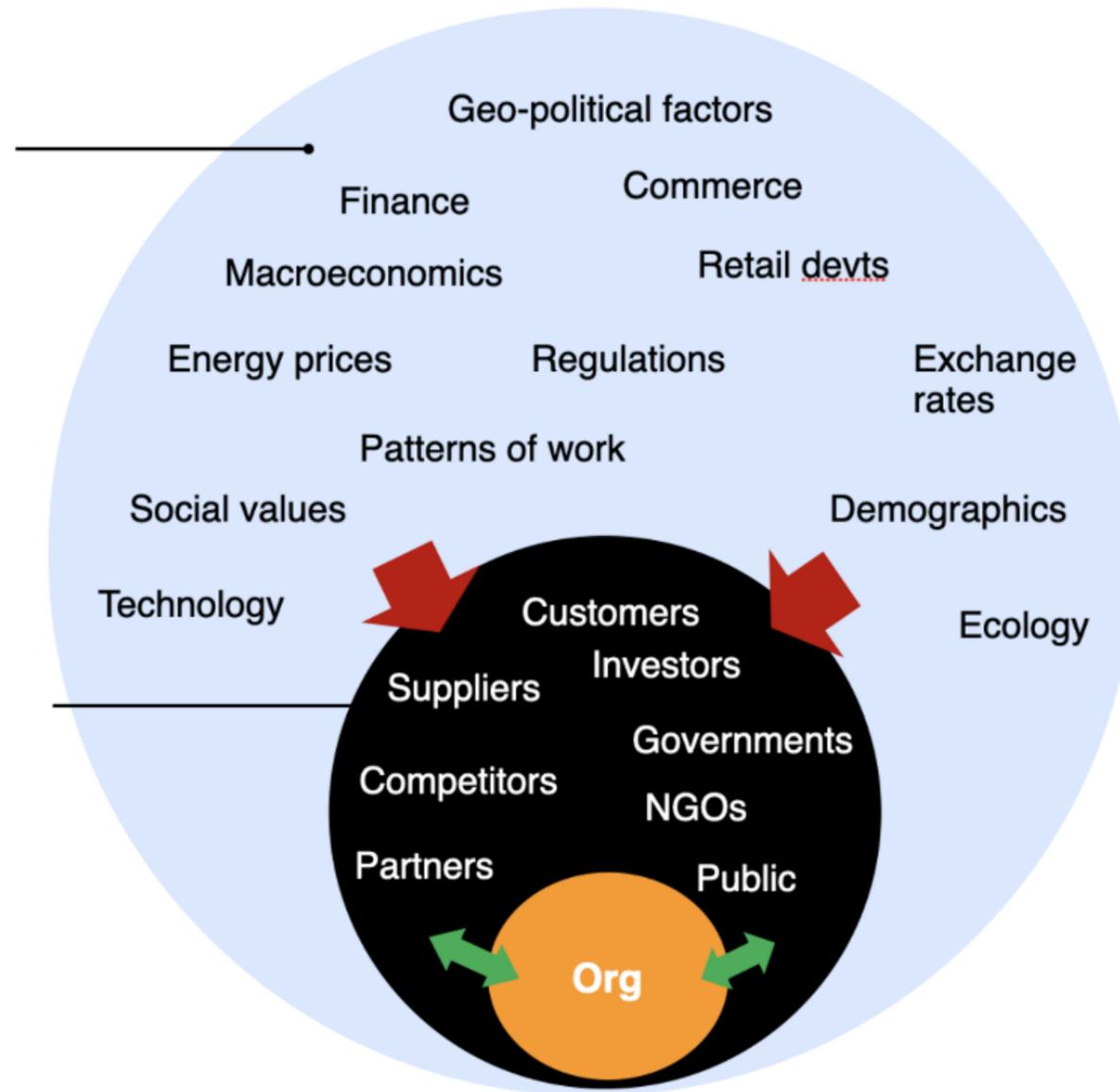


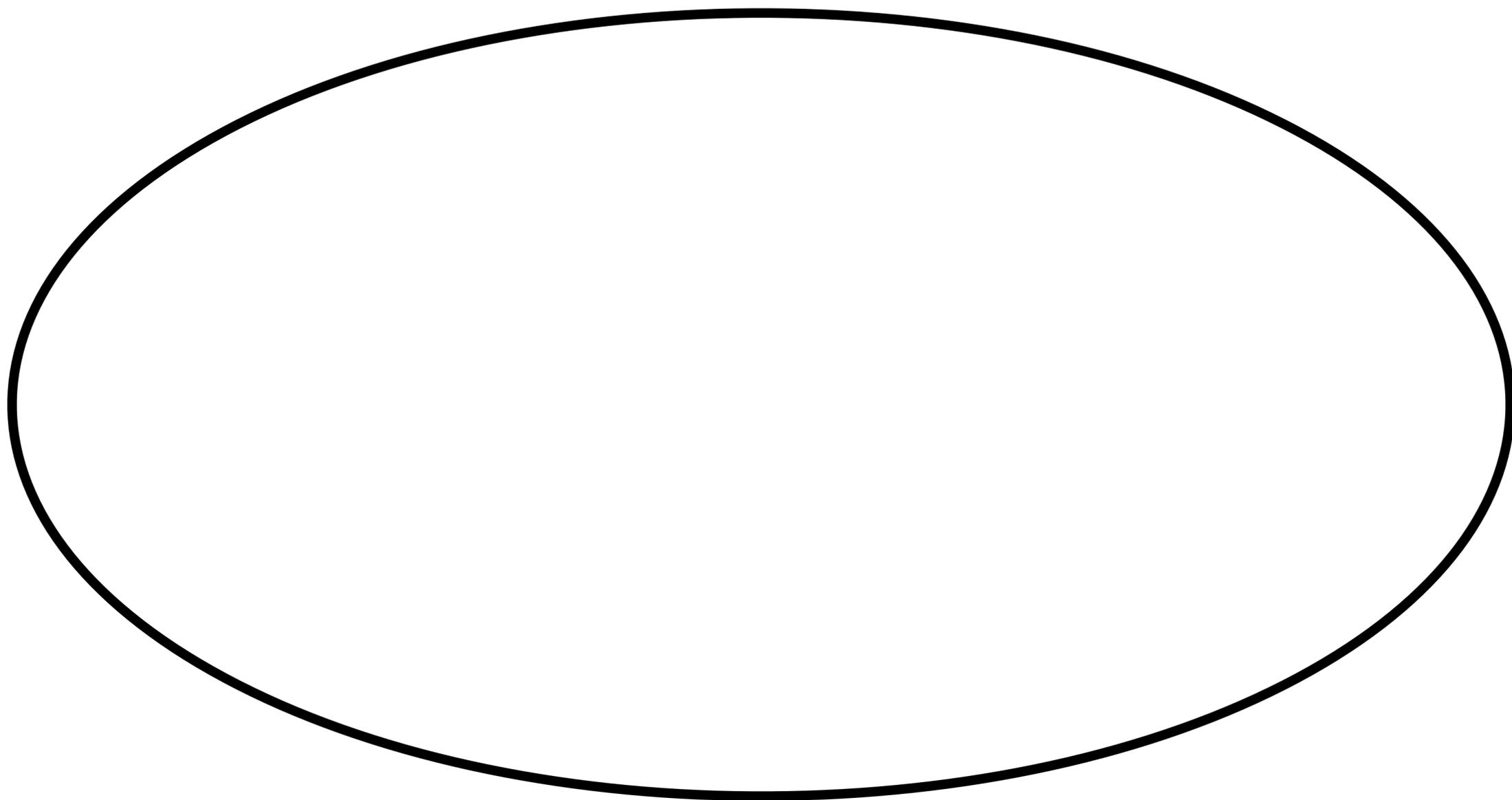
*The Causal Texture  
of Organizational Environments<sup>1</sup>*

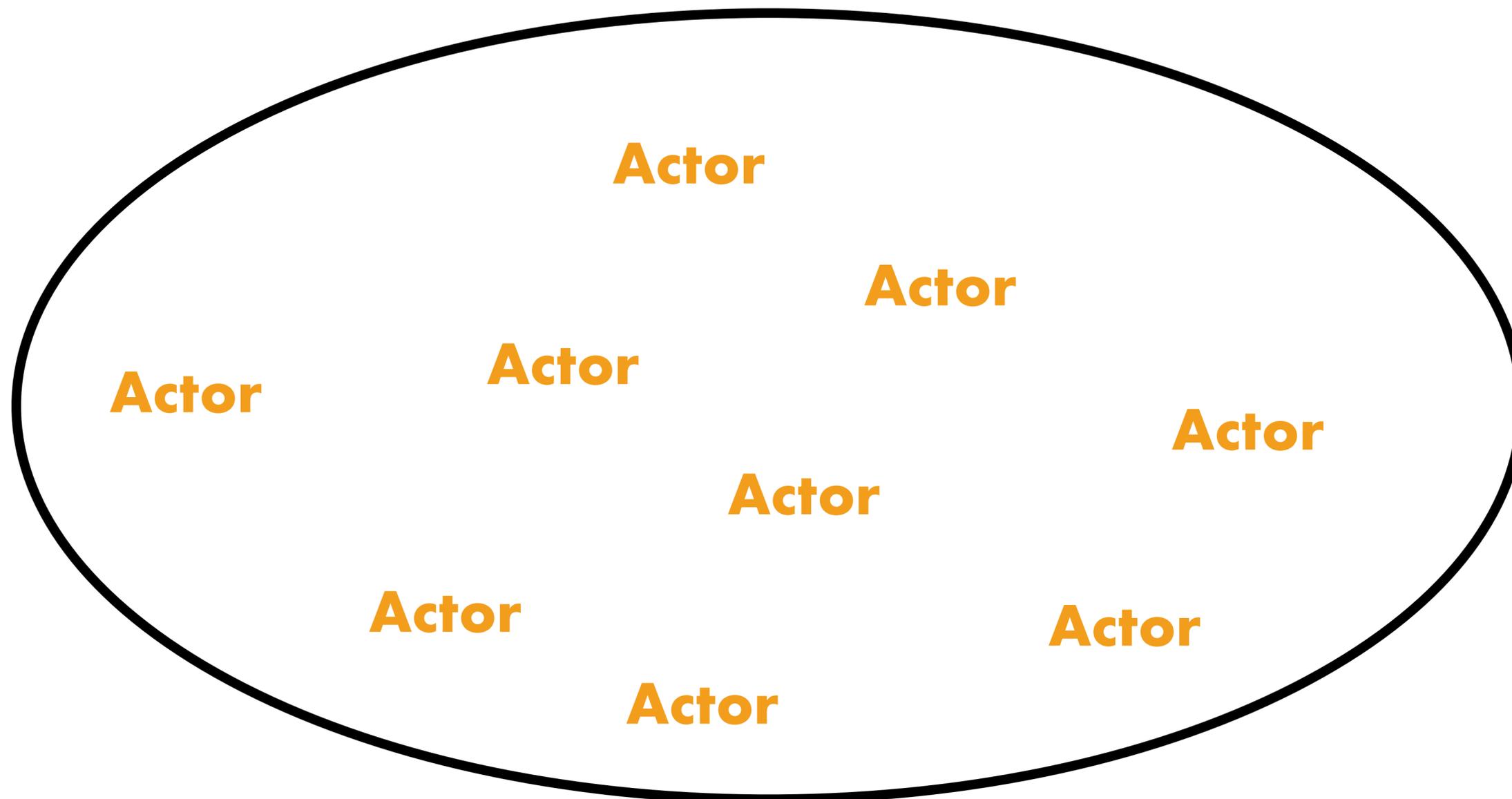
F. E. EMERY AND E. L. TRIST

**Contextual environment**  
(factors out of our direct control)

**Transactional environment**  
(actors and dynamics we can influence)



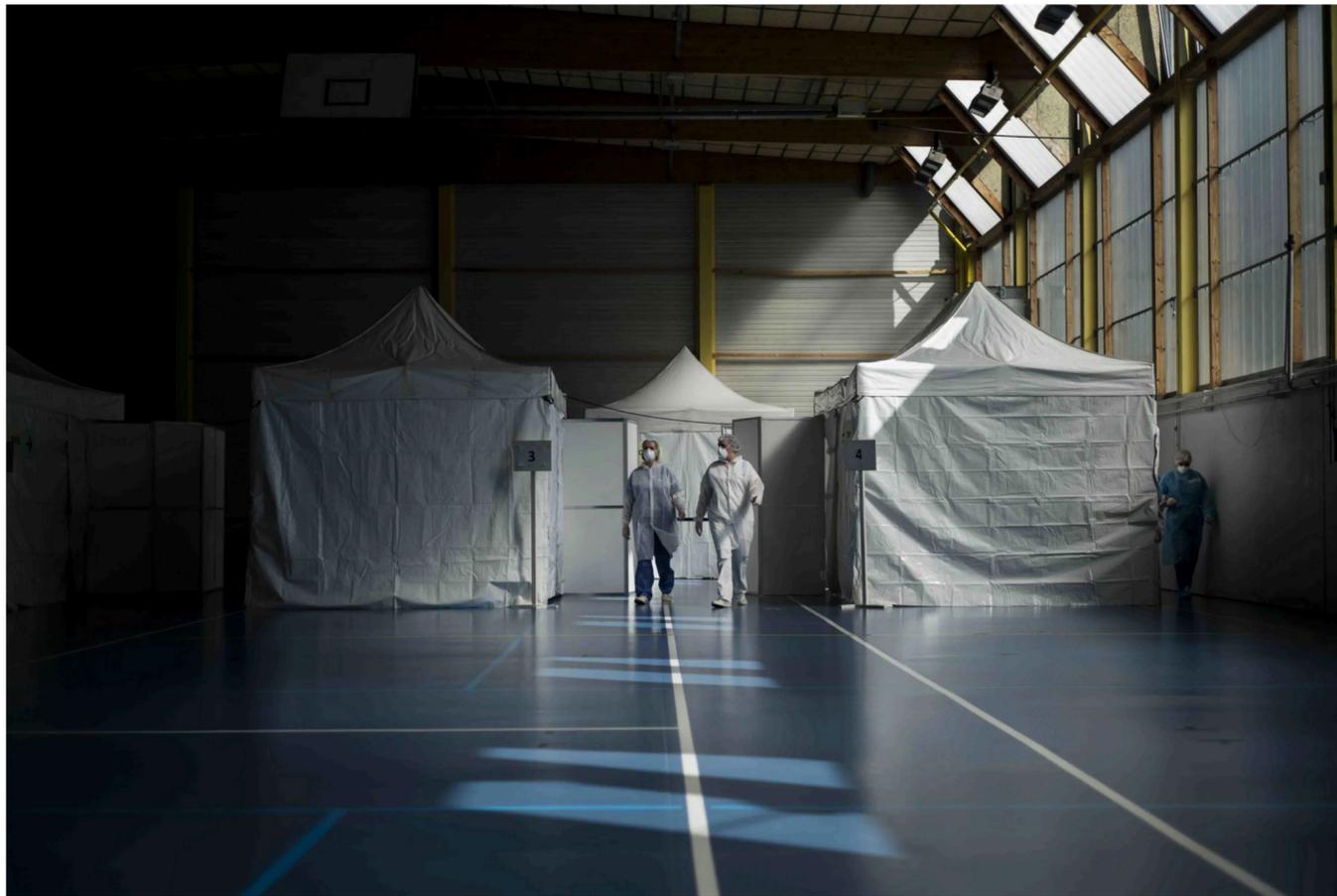






## Planning for the unknown: Lessons for energy sector from Covid-19

[Mark Byrne](#) 26 March 2020 1



EPA/Julien de Rosa

**"I found it frustrating that we were forced to entertain highly implausible futures, such as a benign Chinese government being in charge of Australia's energy supply, while the most likely scenario of all, catastrophic climate change, was backgrounded.**

**But that was not the point. It's about learning to think differently – imagining futures that are substantially unlike the past and present – and then incorporating this different way of thinking into our planning."**

Four pieces of **jade**

**Jose Maria Valenzuela, University of Oxford:**

**"One new dimension of low carbon generation is 'power to x': 'We'll use this power to do something, but we don't yet know what, instead of losing it to curtailment .'**

**To produce hydrogen? To capture CO<sub>2</sub>, which is very energy intensive? We literally use the variable x, meaning the unknown. The uncertainty is right there before us."**

**Jeff Hardy, ZINC / Imperial College London:**

**"Traditionally, you've regulated on the basis of what the data tells you is harm; but our definitions of harm might evolve, just as the system does - so how do we anticipate what's coming next?"**

**Sandboxes are one way of addressing this issue, but it's not enough merely to relax regulations; a temporary derogation without learning will not teach us anything."**

**Camilla Chlebna, Kiel University:**

**"What looks like empty land in the north of Germany, for example, perfect for wind energy, is perceived by some locals as "the Tuscany of the North", a place that would be spoiled by the installation of turbines.**

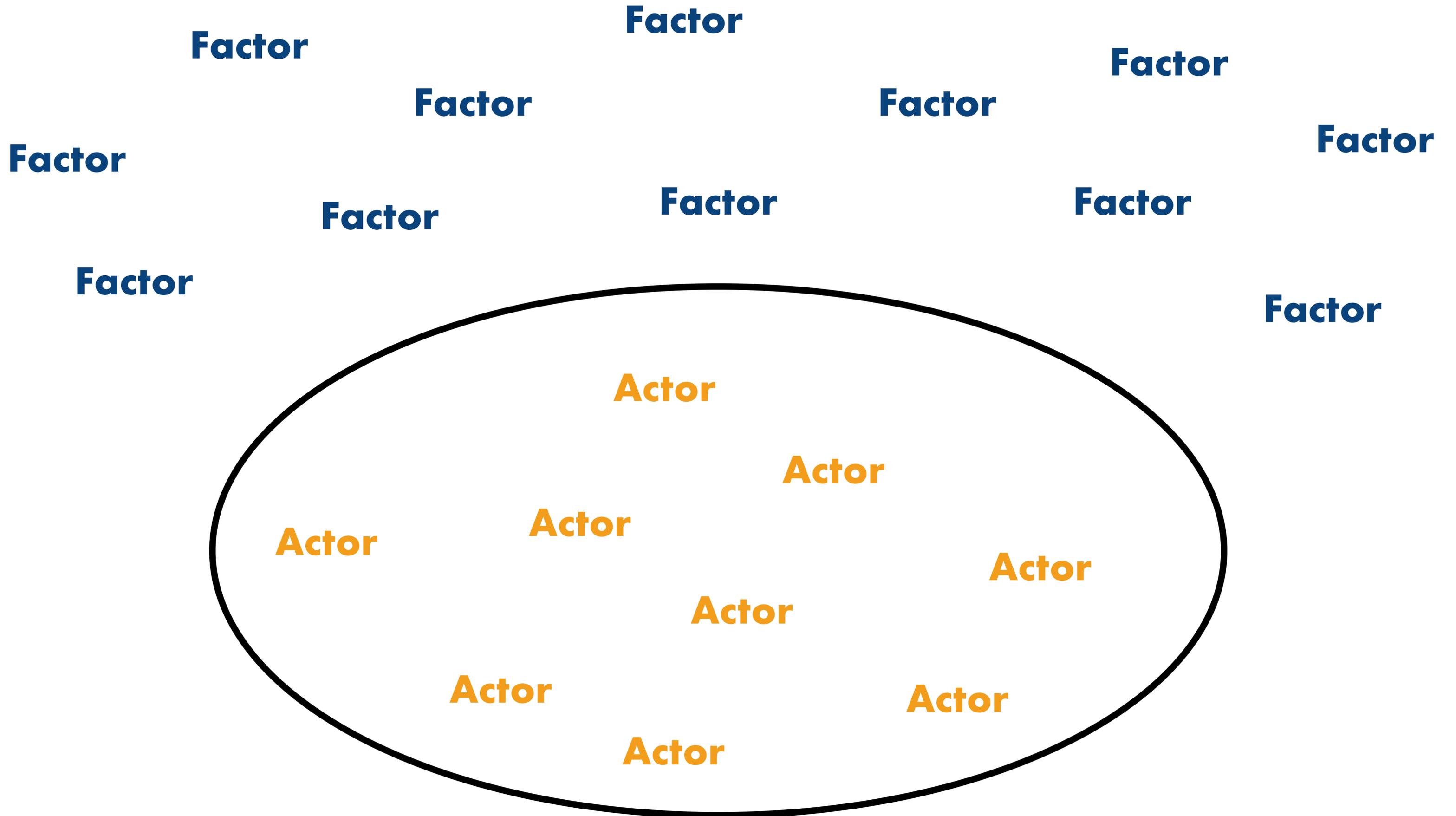
**Because the region is an intermediate unit, it forces us to be aware of dynamics both within and without."**

**Madeleine Gabriel, Nesta:**

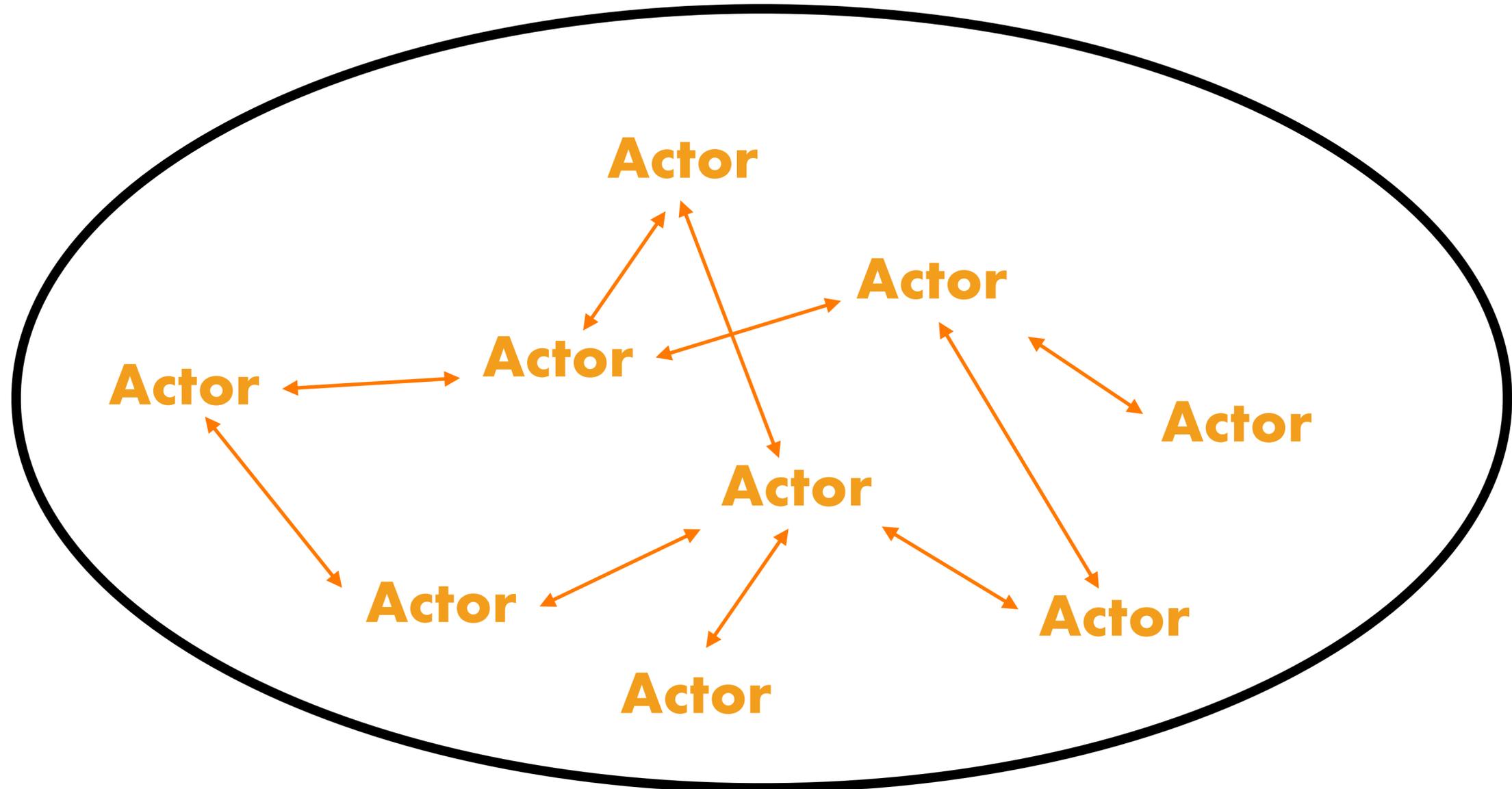
**"To understand decarbonisation from consumers' perspective, we need more granularity of data.**

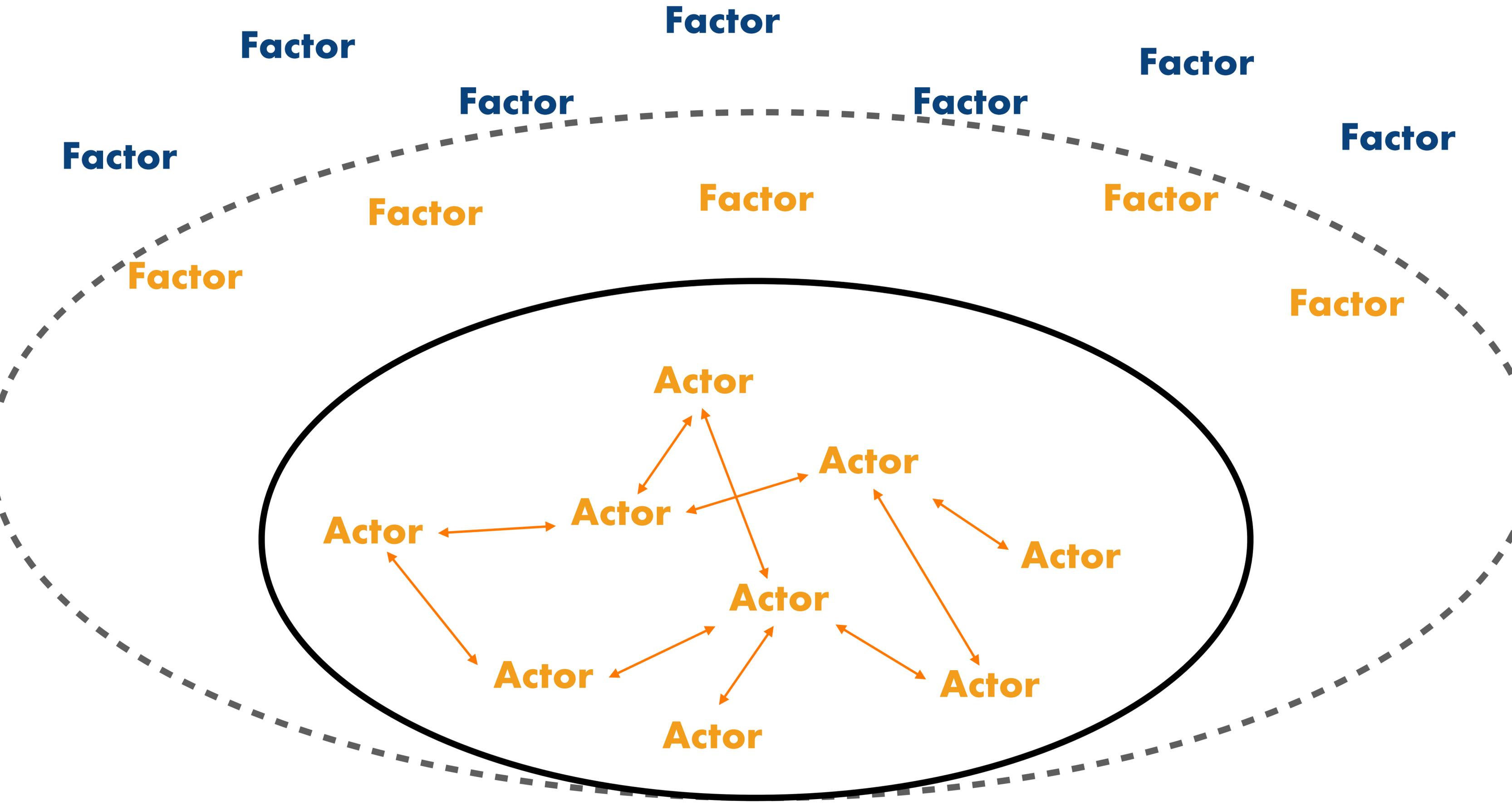
**At the moment there's wasted effort where lots of people are all independently trying to solve the same problem - helping households find the quickest, cheapest and most effective route to decarbonisation.**

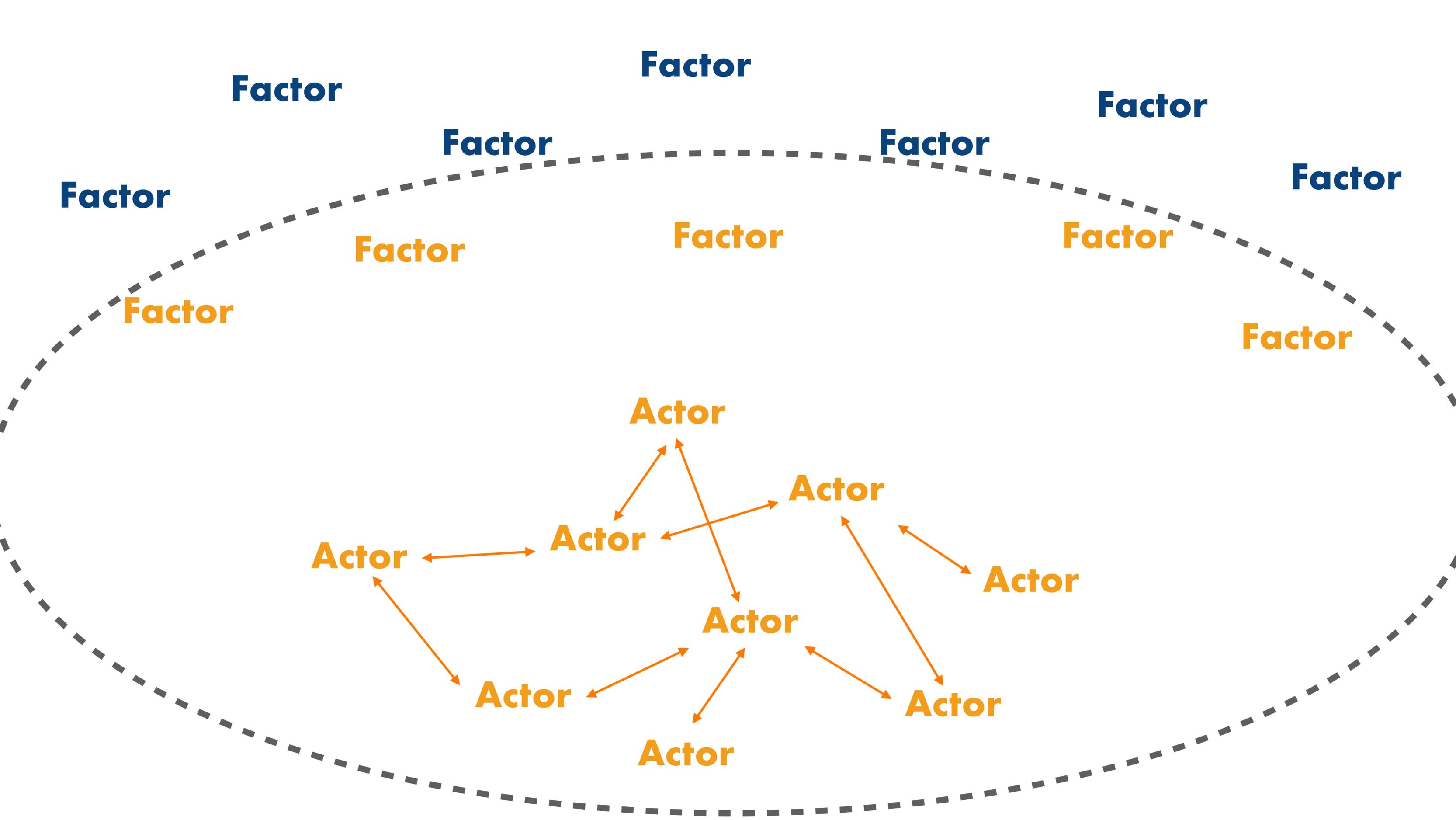
**The more data that can be provided to the sector as a whole, the better; that could mean putting information in the commons to support a range of different groups come up with new solutions and services - public sector, start-ups, charities."**

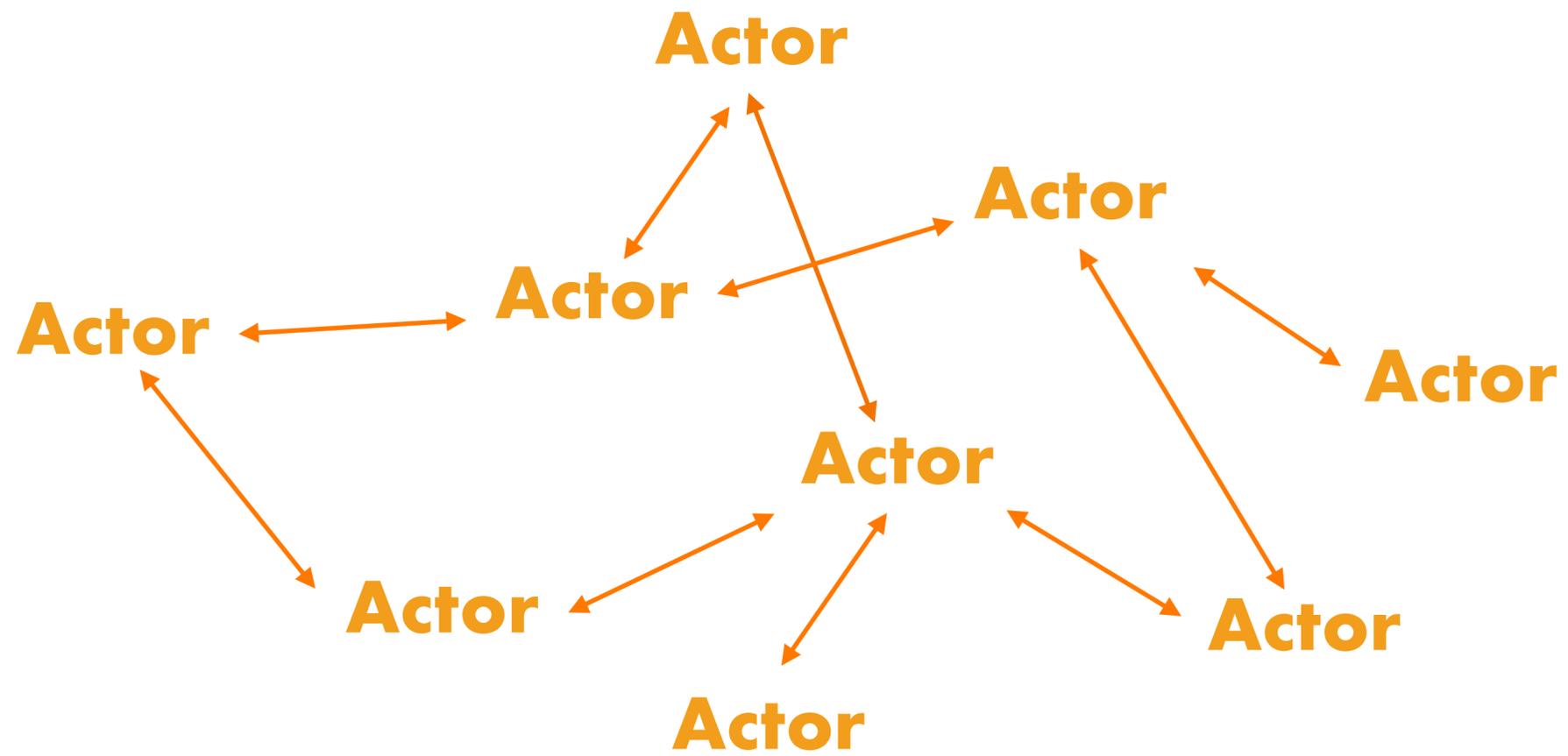


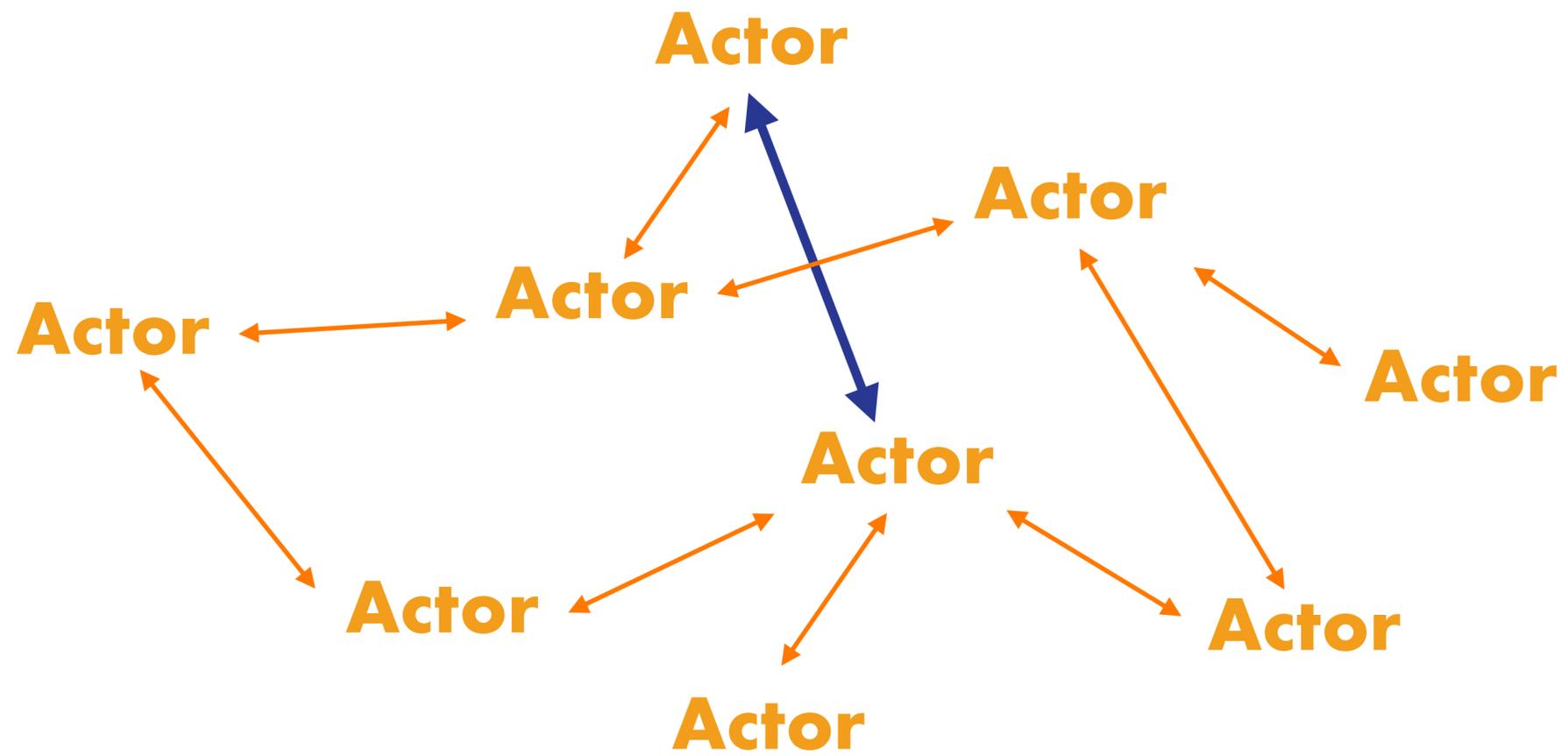
**Factor** **Factor** **Factor** **Factor** **Factor**  
**Factor** **Factor** **Factor** **Factor** **Factor**  
**Factor** **Factor** **Factor** **Factor** **Factor**  
**Factor** **Factor** **Factor** **Factor** **Factor**











Lorenzo  
**NECCI**  
Richard  
**NORMANN**

*Reinventare*  
**l'ITALIA**

ARNOLDO MONDADORI EDITORE

Lorenzo  
**NECCI**  
Richard  
**NORMANN**

*Reinventare*  
**L'ITALIA**

ARNOLDO MONDADORI EDITORE

**Reinventing  
Australia?**

# Reinventing Australia?

?