



Midlands Highway Alliance Plus
MHA, MSIG, WMHA: Moving Forwards Together

Carbon Reduction and Value

Wednesday 22 June 2022

Infrastructure for Life

Mark Baptist, Amey Consulting



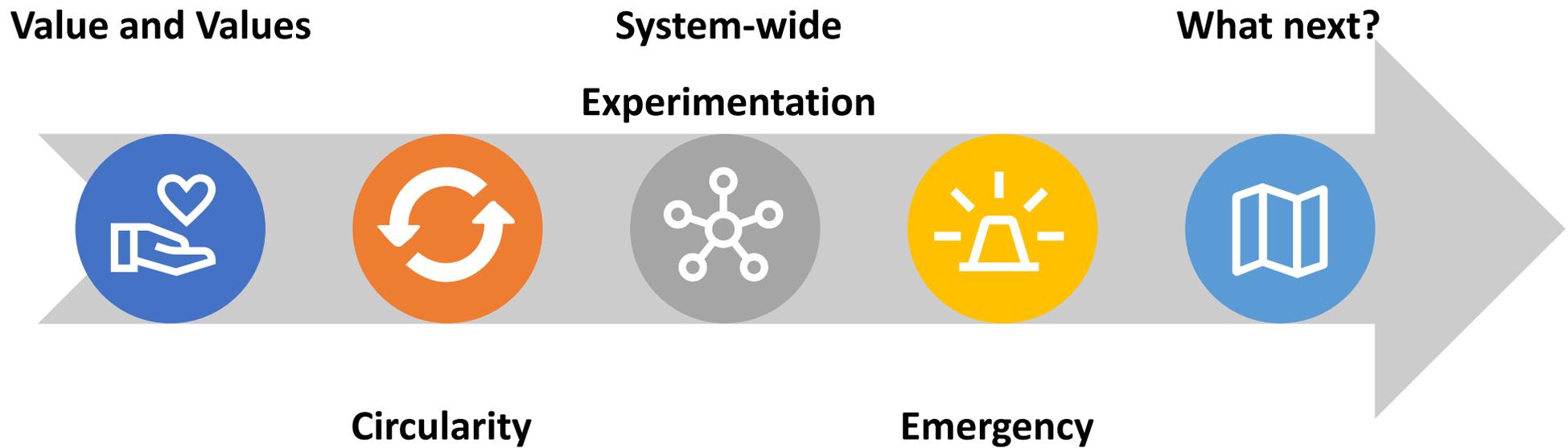
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Together at pace...



But why do we need to change..?



Society

Society and communities are looking for leadership and action

Global Risks

Top risks by likelihood and impact dominated by climate related issues

World Economic Forum
Global Risks Report 2021

Top Risks by likelihood	Top Risks by impact
<ul style="list-style-type: none"> Extreme weather Climate action failure Human environmental damage Infectious diseases Biodiversity loss Digital power concentration 	<ul style="list-style-type: none"> Infectious diseases Climate action failure Weapons of mass destruction Biodiversity loss Natural resource crises Human environmental damage



Investor Demands

BlackRock, Aviva, USS and others put environmental & social issues at forefront of their investment strategies



Top Risks by likelihood	Top Risks by impact
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...and it's the right thing to do



Our sector has a responsibility

Flooding

1 in 6 UK houses are at risk of flooding



Plastic

Everyday **8 million** pieces of plastic enter our Oceans



Concrete and Steel

Concrete and steel production emits 12-16%, of the World's CO2 emissions today



Pollution

1 in 5 deaths caused by air pollution (2018)
14% EU deaths in under 5s caused by fossil fuels



Value



Values

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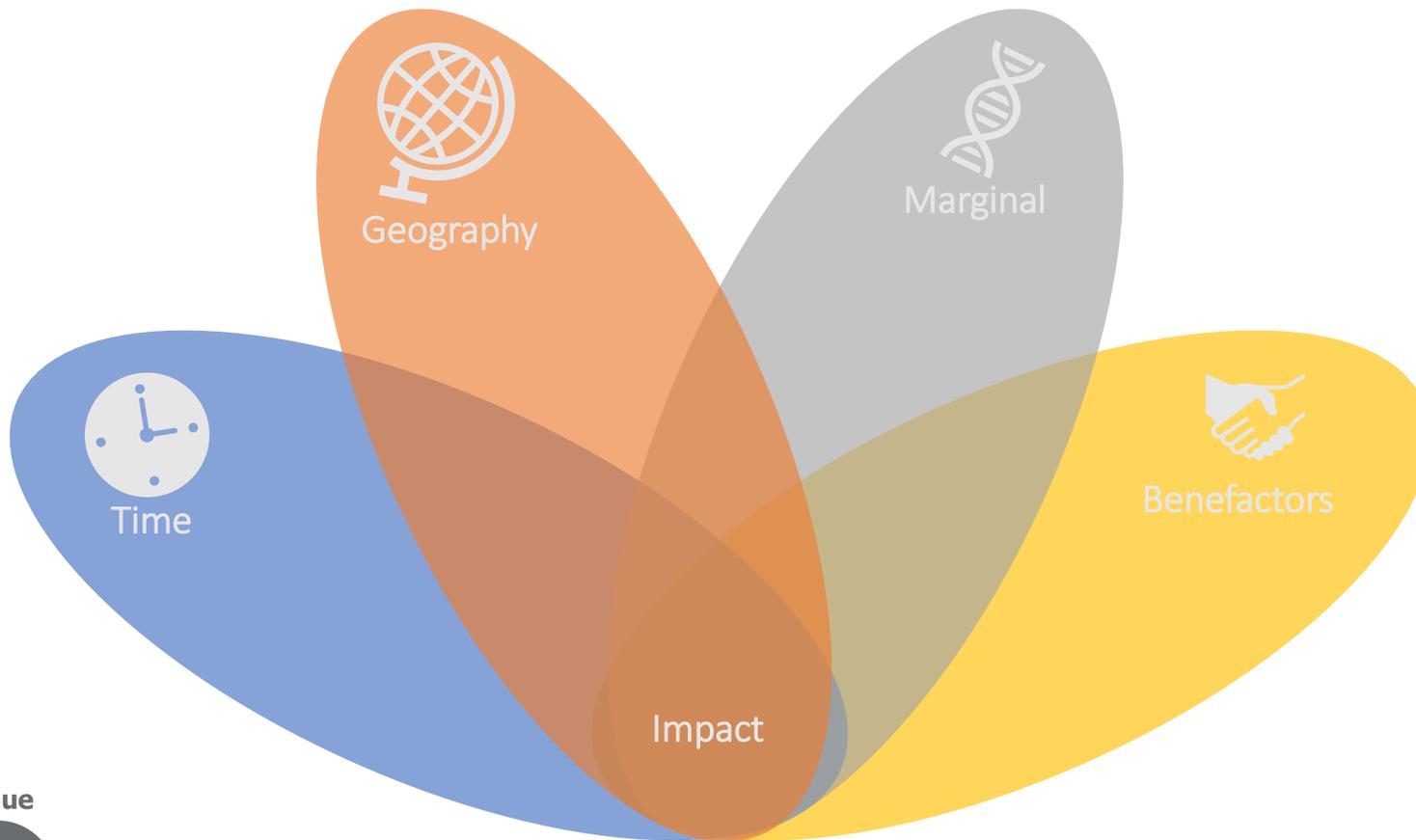


A shift in value
and values



**We need a new approach to infrastructure that leads the way to
sustaining the planet for us and our children**

Our individual decisions have impact



Time

The true impact of our collective decisions is often delayed by decades

Geography

The impact may be felt in other communities & ecosystems

Marginal

Any negative impacts viewed as marginal: ignoring direction and sum

Benefactors

Who do we serve? Are there others who need to be served by our work?

Value



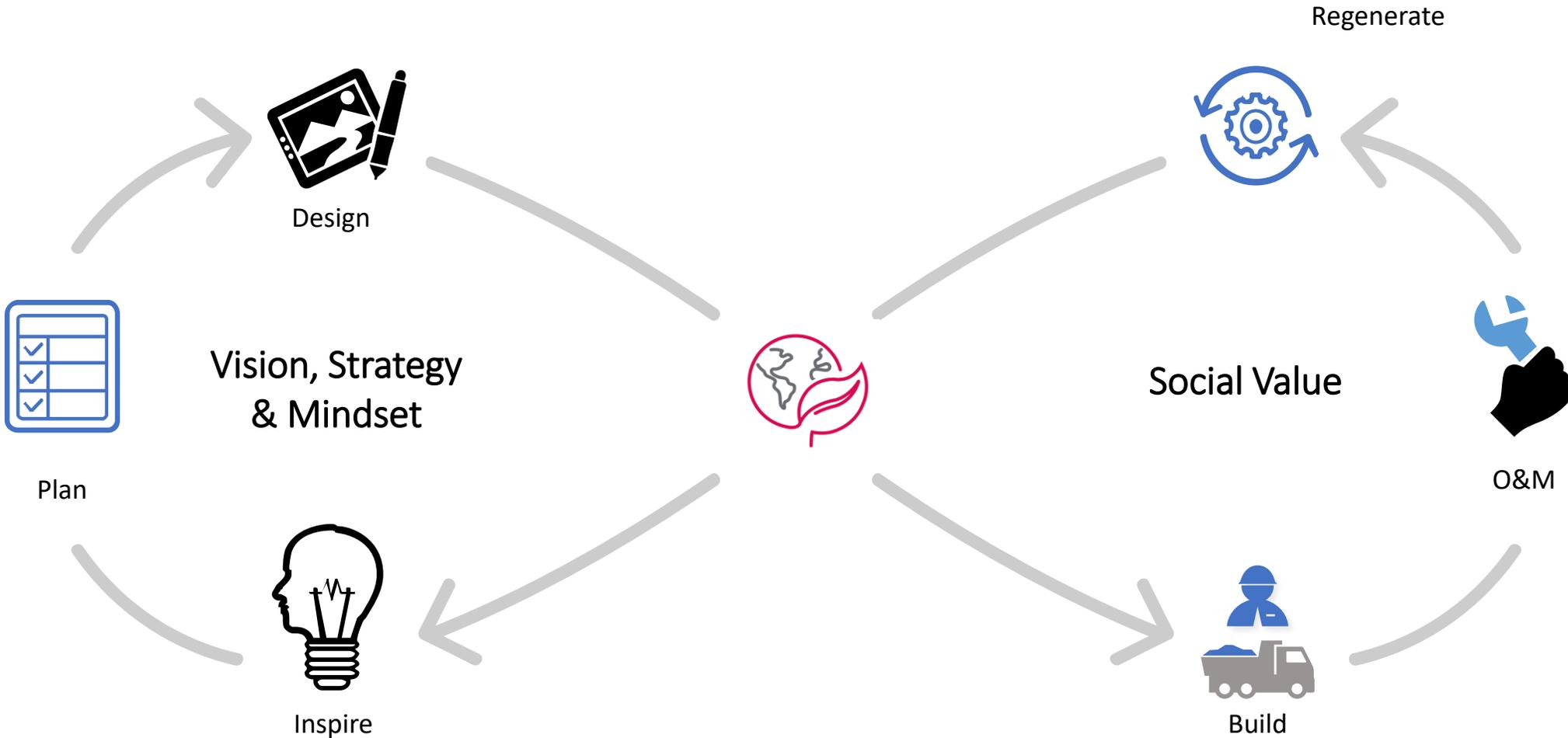
Values

Our collective approach often hides our impact

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Community Wealth and Social Impact

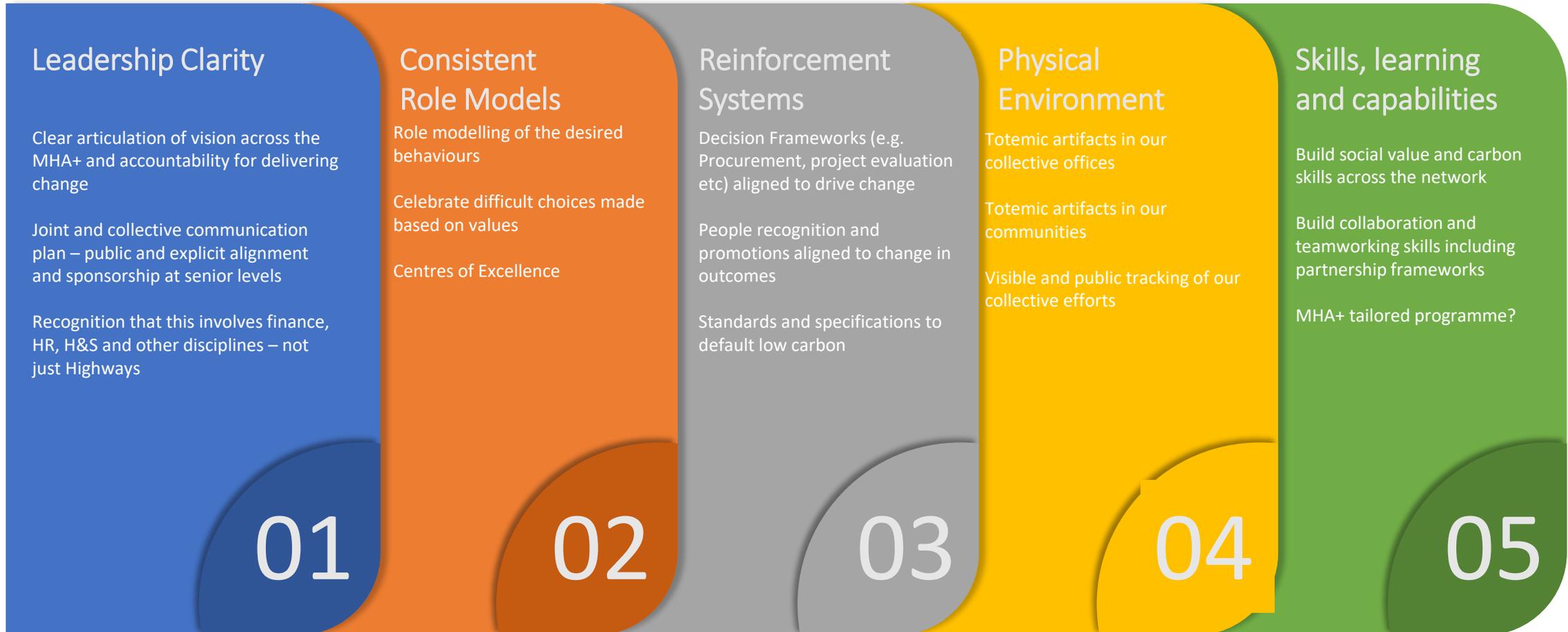
"The Well-being of Future Generations Act says that by law, the way we get to net zero has **to improve well-being as a whole, for everyone.**

Public bodies and decision-makers must take action now to stop those affected by the devastating effects of climate change being disadvantaged for generations." Feb 22

Sophie Howe - Futures Generations Commissioner for Wales



Systemic cultural change



System-wide

Source: based on Schein



Experimentation

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Systemic change



System-wide



Experimentation

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Changing complex systems through experimentation

System-wide



Experimentation

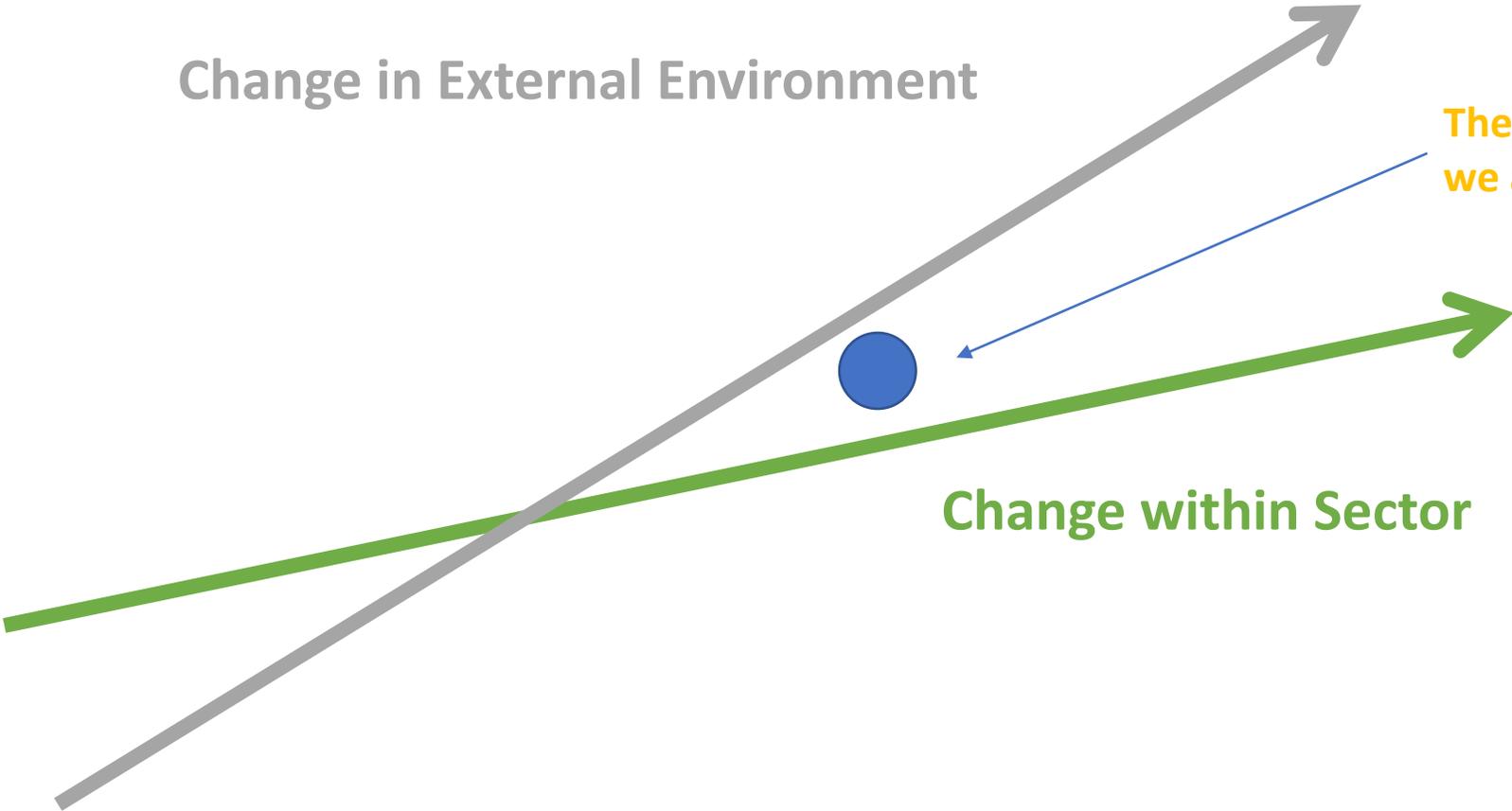
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Change in External Environment

The risky place we are in is here

Change within Sector



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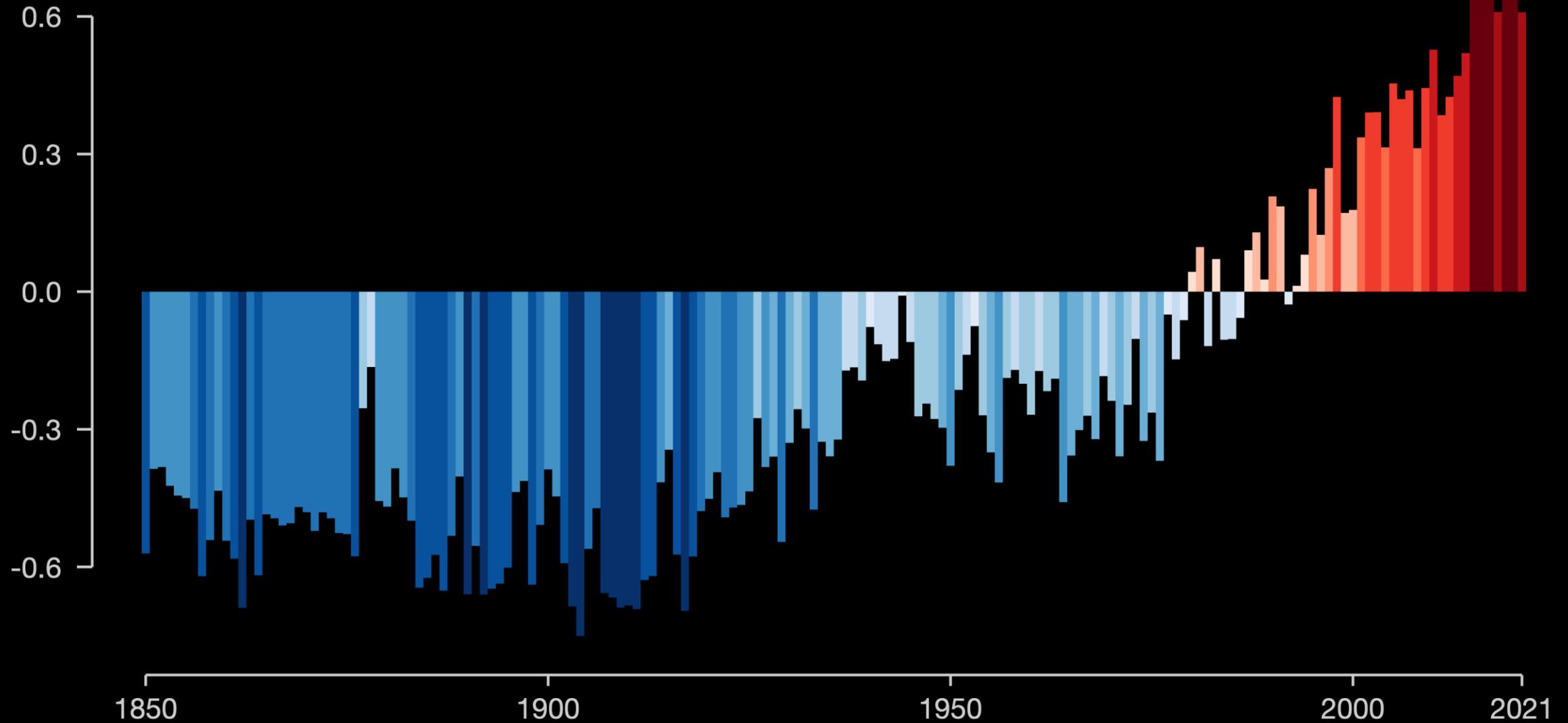
°C

Emergency



Global temperature change

Relative to average of 1971-2000 [°C]

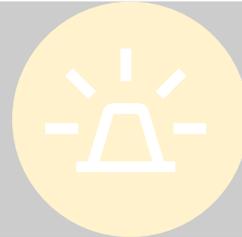
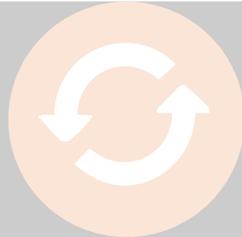


What next...?

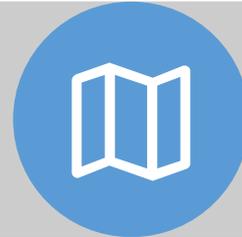
Value and Values



System-wide
Experimentation



What next?



Circularity

Emergency

What next...a proposal

- MHA+ define on a specific outcome / project
- Identify a sub-set of MHA+ LAs who want to go first and lead
- With an ecosystem of suppliers/partners to support them
- Role-model as pathfinders – the key pillars of (i) value, (ii) circularity/whole-life, (iii) systemic experimentation, (iv) act as in an emergency
- Share learning and lead the way for a new way of working

“Because we need to take the action required, not just agree that action is required”

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