

**SCOTLAND
MANUFACTURING
& SUPPLY CHAIN**
CONFERENCE & EXHIBITION



Scottish Engineering



What is Net Zero ?

Dr Eric Boinard

Agenda

Net Zero – an opportunity



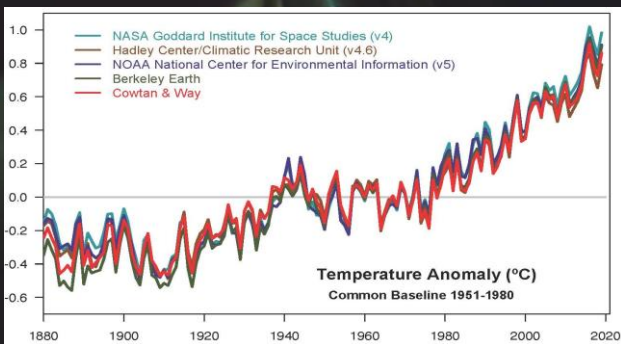
- > Why: who cares ?
- > What: insights from our 1-2-1 programme
- > How: agile, lean and holistic 7 steps process

Roadmap to Net Zero



Why

NO PLAN-ET B

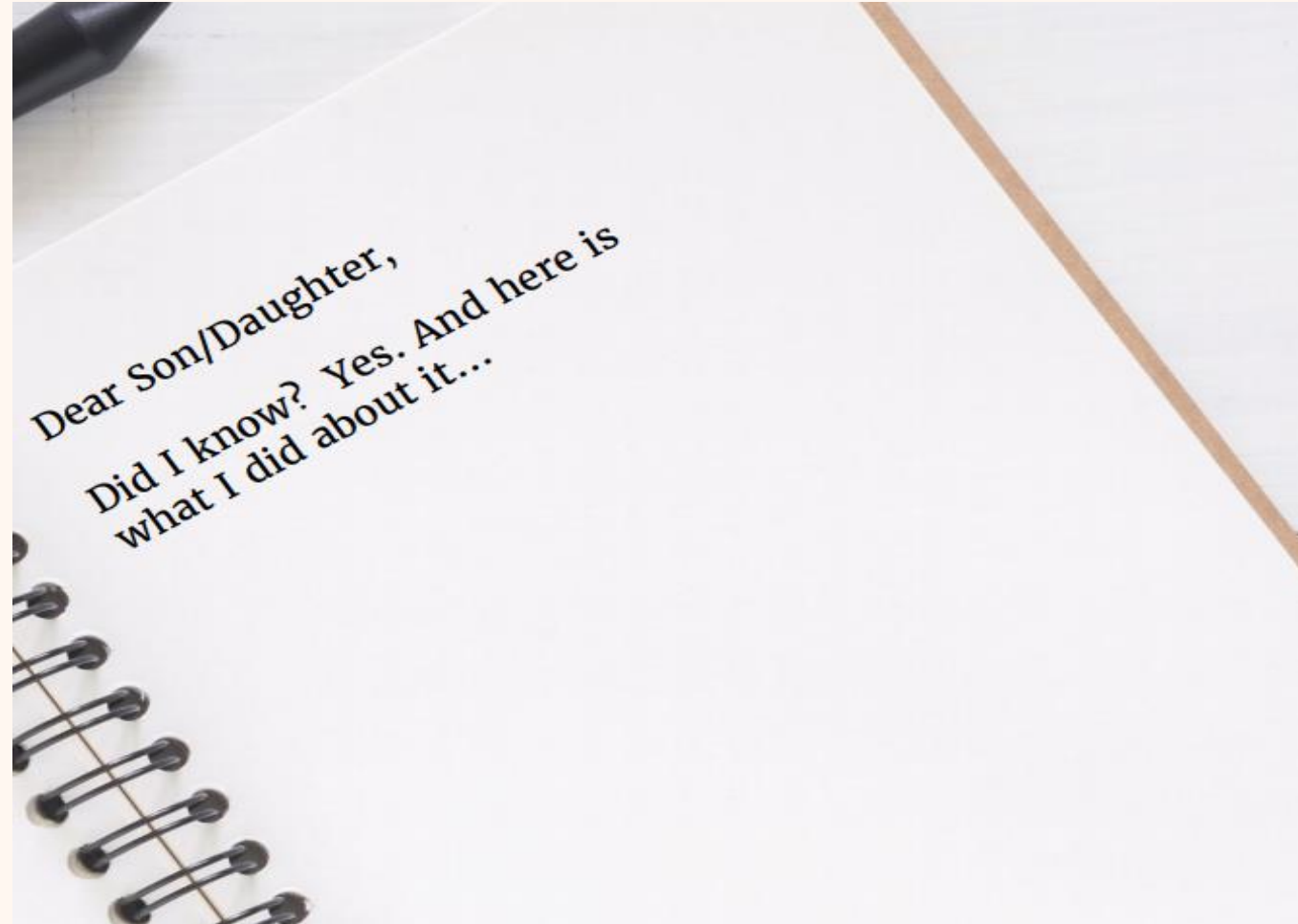


Why Net Zero ?

Positive Legacy



- > We do not inherit the Earth from our ancestors
- > We borrow it from our children



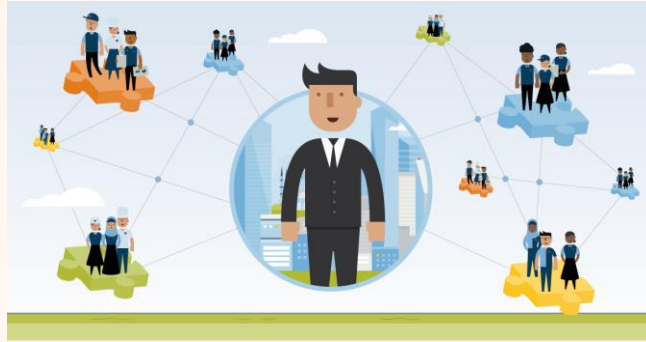
Roadmap to Net Zero



Who cares?



Consumers



Customers



Employees



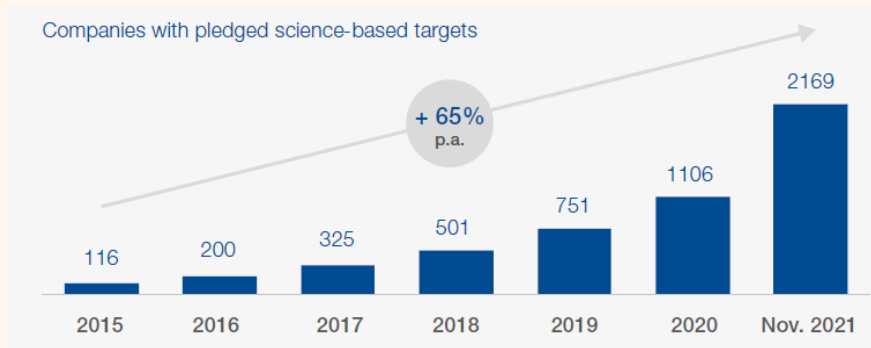
Government

Everybody!



Organisations

Competitors



Department for Business & Industrial Strategy

Cabinet Office

Procurement Policy Note – Taking Account of Carbon Reduction Plans in the procurement of major government contracts

Action Note PPN 06/21 05/06/2021

STREAMLINED ENERGY & CARBON REPORTING

- 1 NO POVERTY
- 2 ZERO HUNGER
- 3 GOOD HEALTH AND WELL-BEING
- 4 QUALITY EDUCATION
- 5 GENDER EQUALITY
- 6 CLEAN WATER AND SANITATION
- 7 AFFORDABLE AND CLEAN ENERGY
- 8 DECENT WORK AND ECONOMIC GROWTH
- 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE
- 10 REDUCED INEQUALITIES
- 11 RESPONSIBLE CONSUMPTION AND PRODUCTION
- 12 RESPONSIBLE CONSUMPTION AND PRODUCTION
- 13 CLIMATE ACTION
- 14 LIFE BELOW WATER
- 15 LIFE ON LAND
- 16 PEACE, JUSTICE AND STRONG INSTITUTIONS
- 17 PARTNERSHIPS FOR THE GOALS

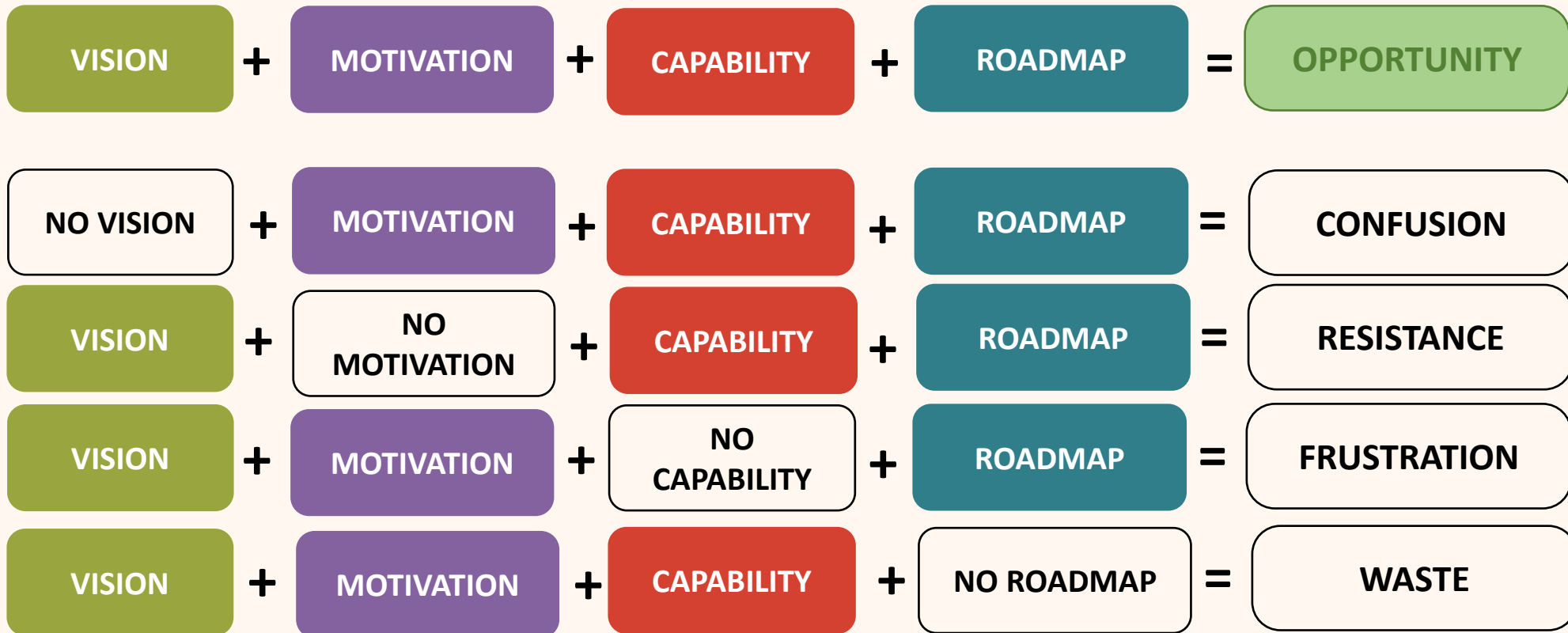
Roadmap to Net Zero



What

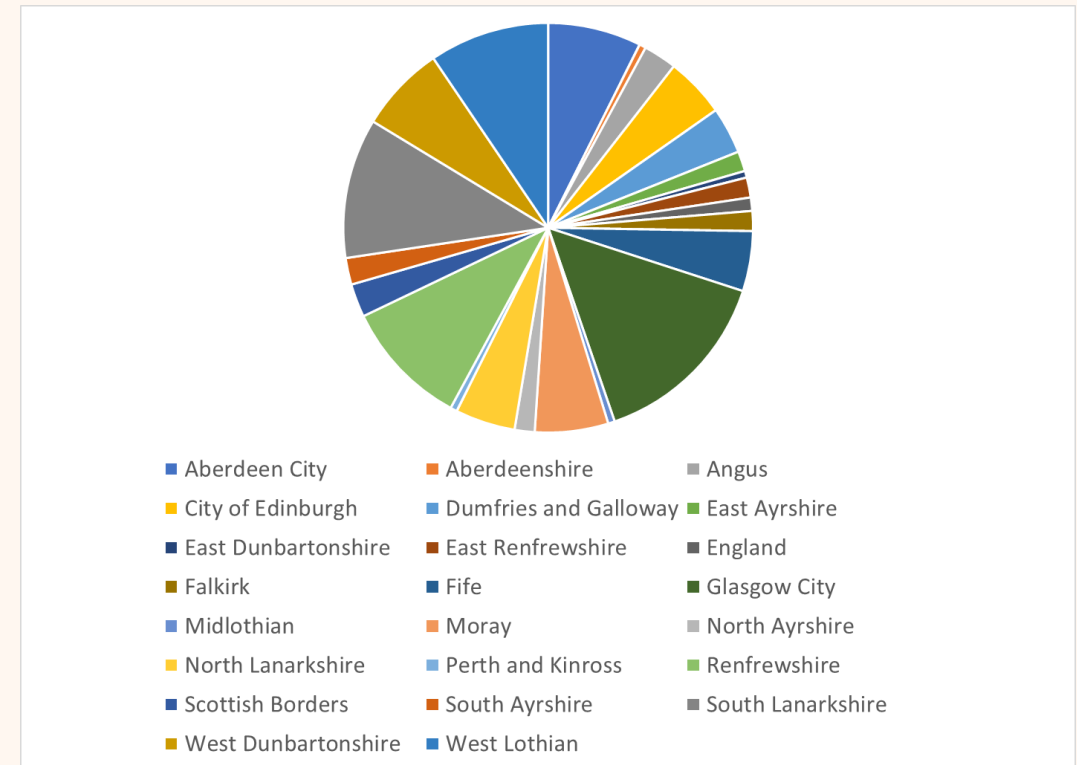
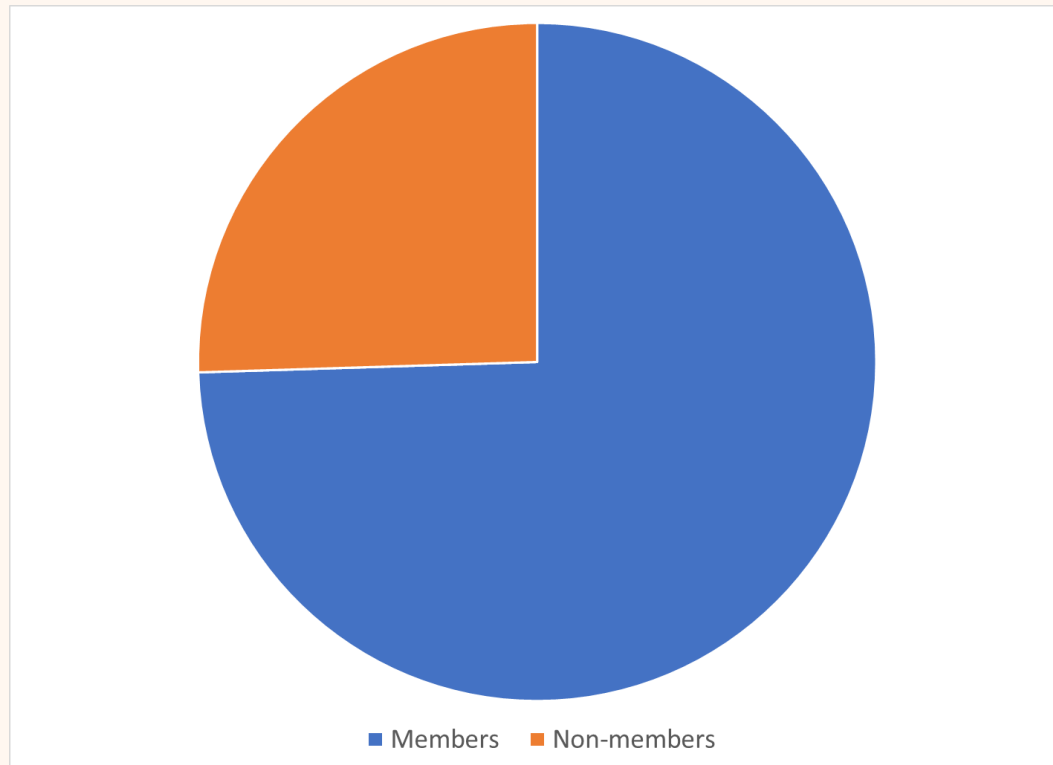
What is Net Zero ?

An opportunity



1-to-1

Engagement (266 to date, 66% with SMEs, 21% skill providers)



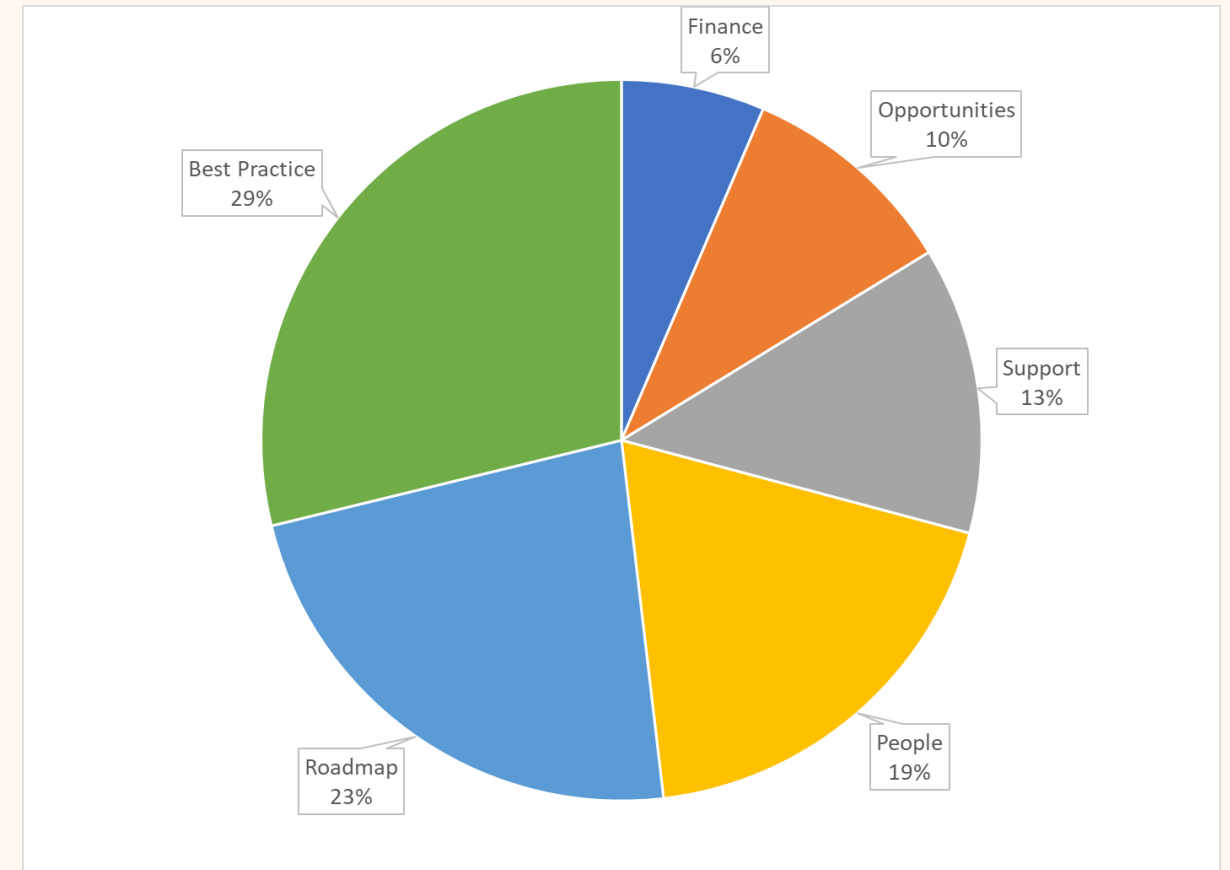
1-to-1

Queries, requests and needs and what we are doing to help



□ Tier 1

- Best practice (29%): methodologies, standards, pledges, legislation ⇒ guidance on standards and methodology, training and interventions
- Roadmap (23%): where to start, confusion, information overload ⇒ 7 steps SMART roadmap guidance
- People (19%): skills and training ⇒ driven by skill provider engagements (80%)



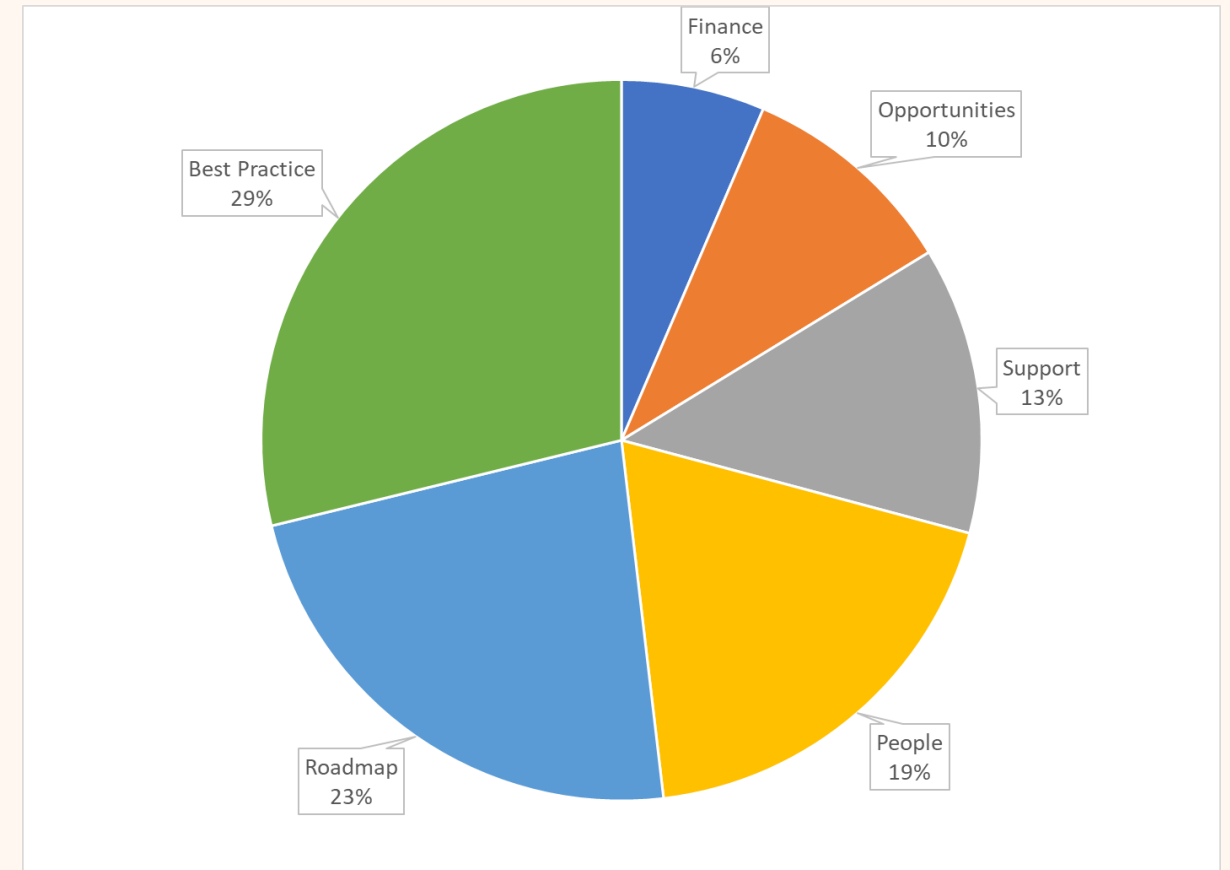
1-to-1

Queries, requests and needs and what we are doing to help



□ Tier 2

- Support - non financial (13%): webinars
⇒ holistic but generic, ideation guidance
- Opportunities (10%): net zero and innovation
⇒ peers, trends, 4Ds
- Finance (6%): funding (internal and external), costs, grants
⇒ FBS, case studies



Programme

Webinars



- **Awareness series** (1 and 2) – Net Zero lean thinking:
 - The 5Ws and 2Hs of Net Zero, part 1
 - The 5Ws and 2Hs of Net Zero, part 2
- **Chapter series** (3 to 6) - based on Scottish Government Climate Change Plan eight chapters:
 - Chapter 1: Electricity and Chapter 8: Negative Emissions Technologies
 - Chapter 2: Buildings, Chapter 3: Transport and Chapter 4: Industry
 - Chapter 5: Waste and the Circular Economy
 - Chapter 6: Land Use, Land Use Change and Forestry (LULUCF) and Chapter 7: Agriculture

- **Net Zero series** (7 to 9)
 - Standards, which one to choose – Selecting the right methodology, including Excel file with more details for each standard
 - Summary of 2021 including findings and learnings from our 1-to-1 programme
 - Roadmap – Building a SMART roadmap
- **Feedback series** (10 to 16)
 - Scottish Engineering ambition with Babcock and Wilcox Diamond Power
 - From Ambition to Solutions: Ideation and Innovation
 - Offsetting not Greenwashing with Texo Group
 - Net Zero and Energy costs with RWG
 - Challenges and AI with Highland Springs
 - Carrots and Sticks with Highland Metals

Roadmap to Net Zero



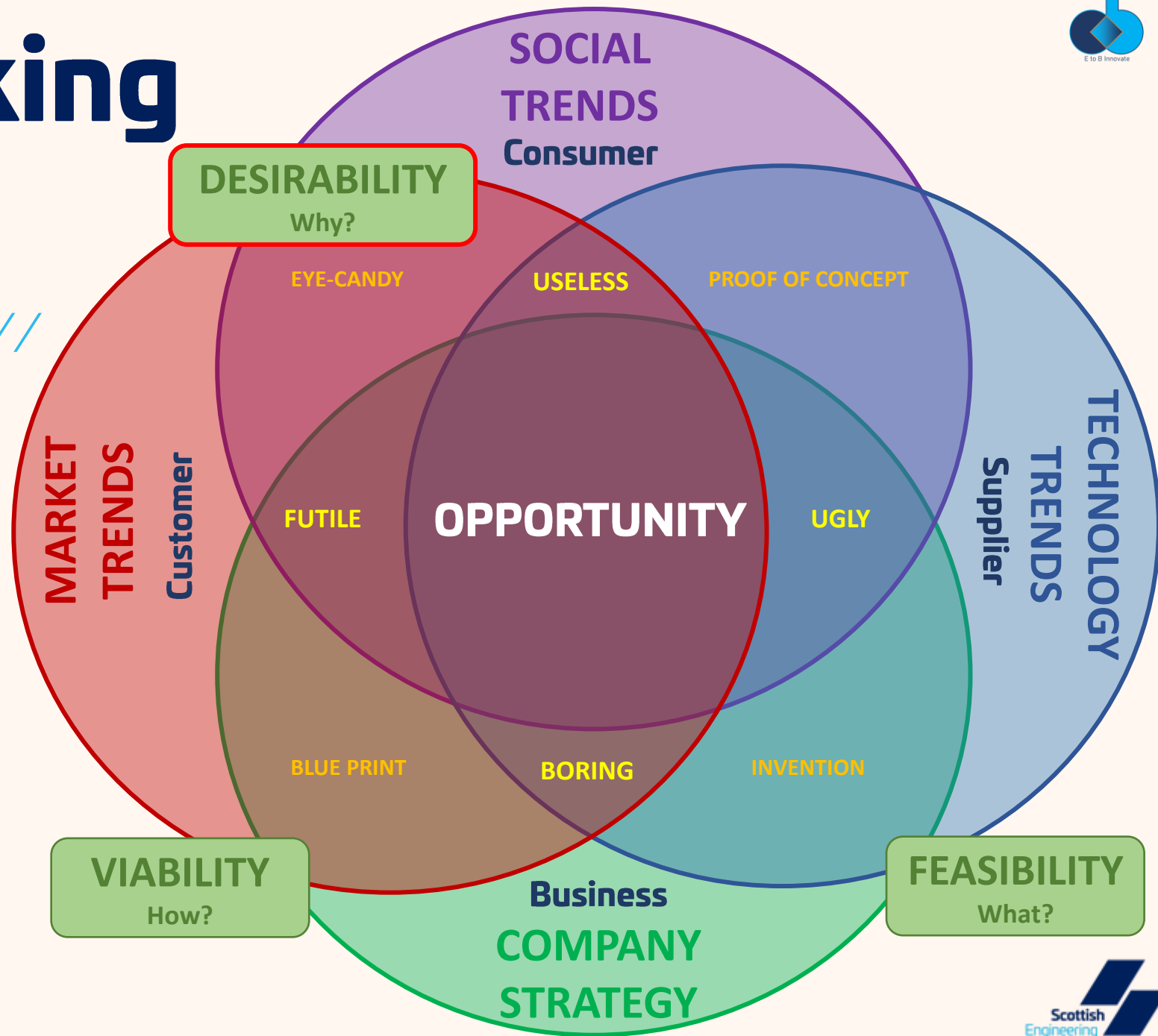
How

Design thinking

Opportunity

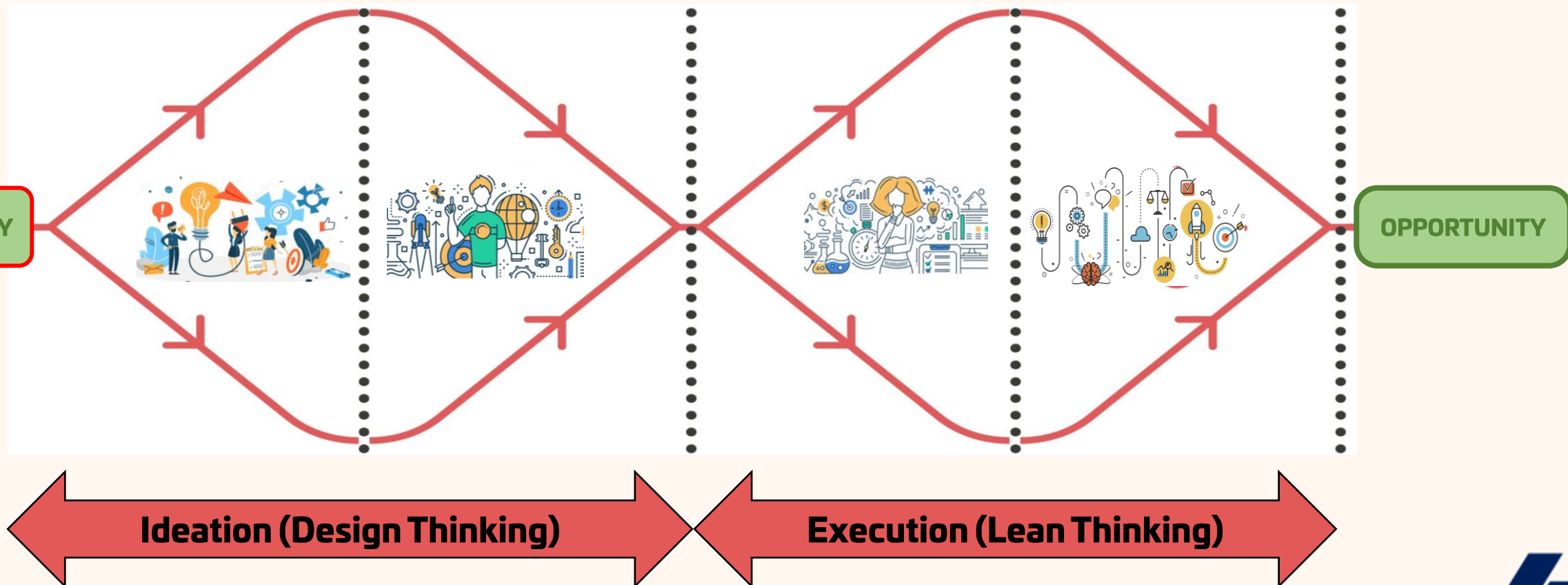


- > Desirability – social and market trends (why it should be done)
- > Feasibility – technologies and strategy (what can be done)
- > Viability – market and strategy (how it can be done)



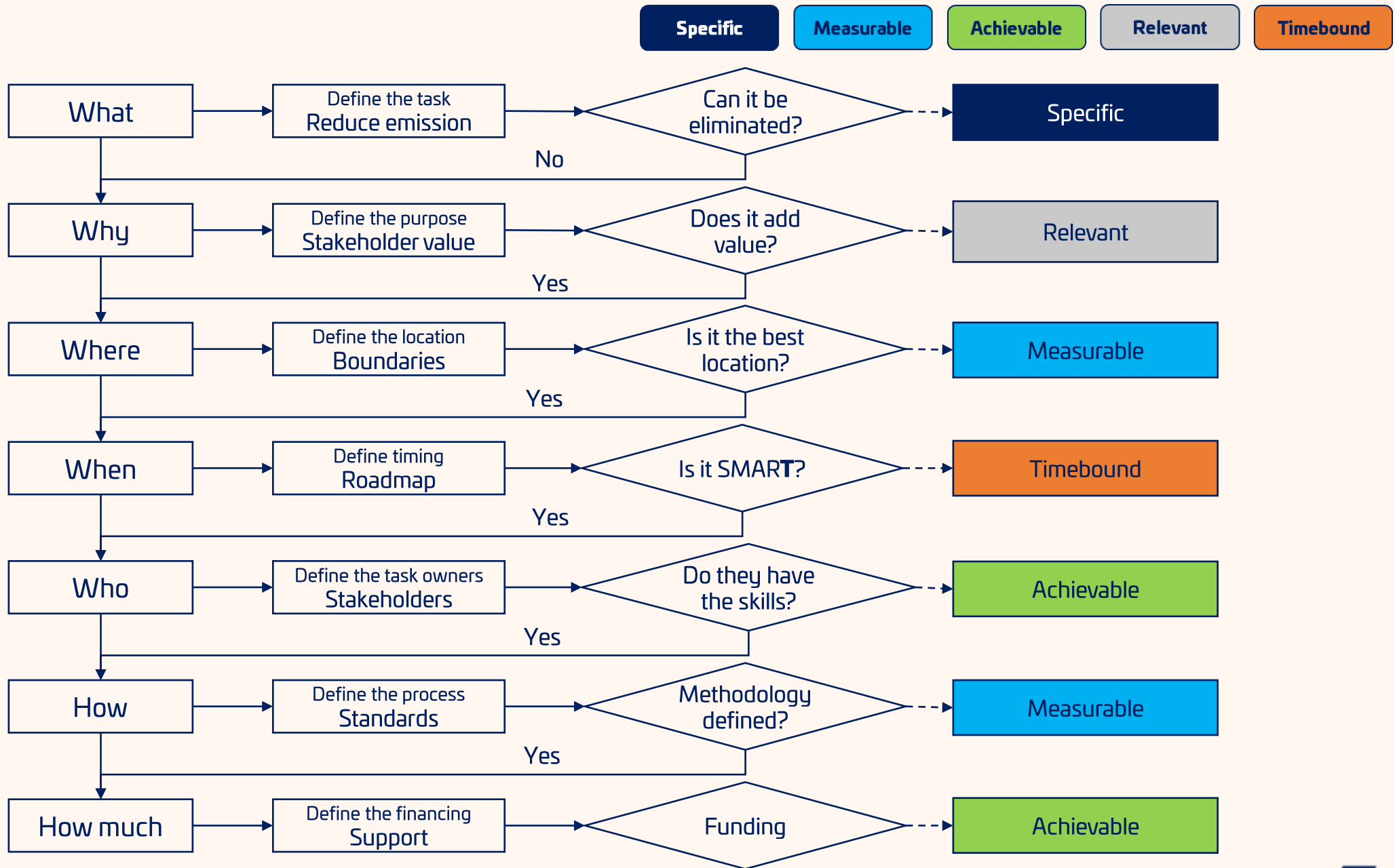
Design thinking

Discover > Define > Develop > Deliver



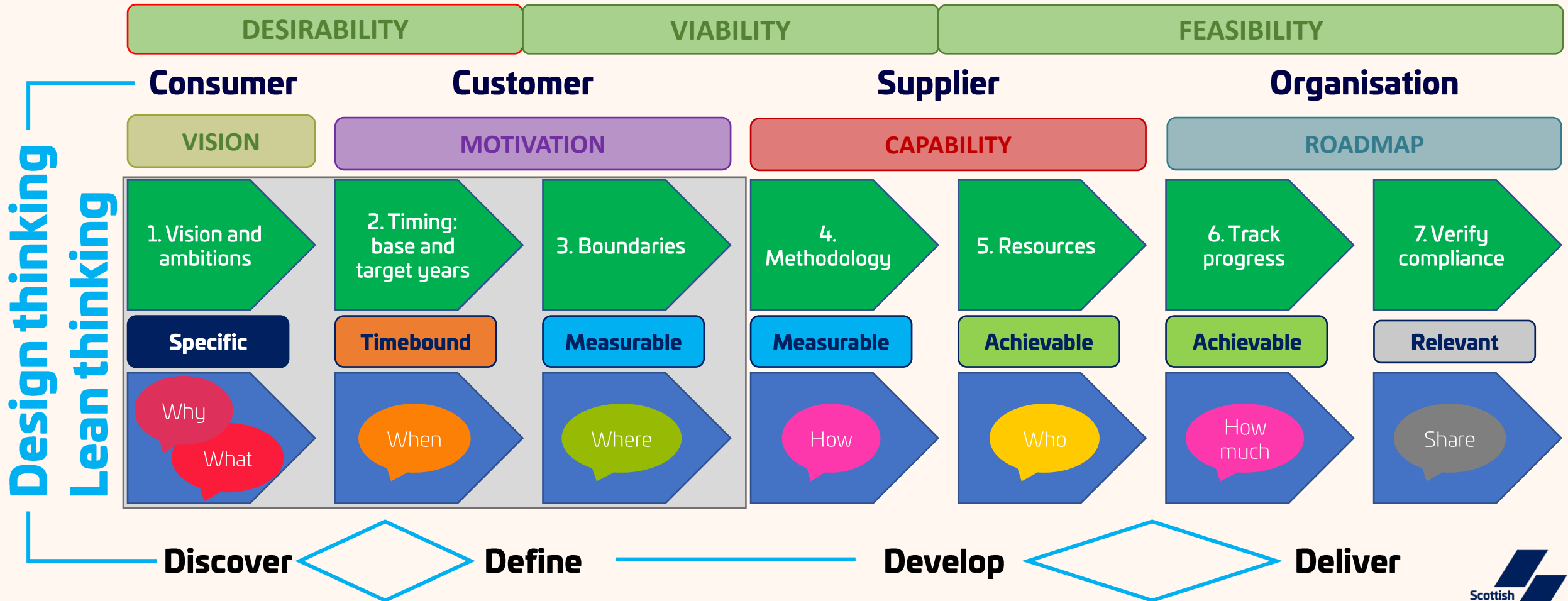
Lean Thinking

From 5Ws/2Hs to SMART



7 Steps

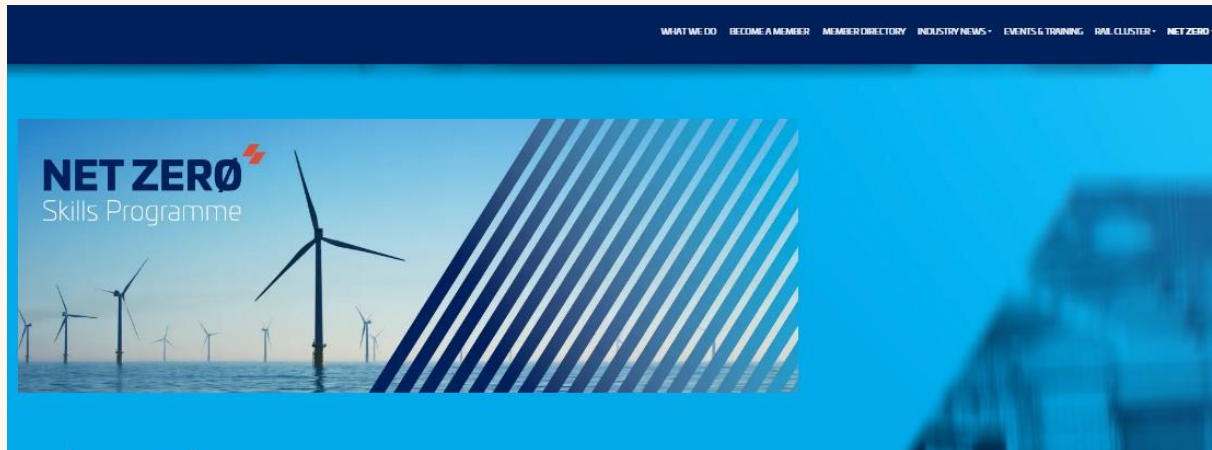
SMART roadmap to Net Zero



Net-Zero Support Programme



Microsite > <https://www.scottishengineering.org.uk/net-zero-skills/>



One-to-One

- > Please make a note of interest to:
 - > scoteng.org.uk
 - > 0141 221 3181

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Thank you



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