

Next

Generation

Systems

Key Contacts

Robyn Dynes - AgResearch
Alan Renwick – Lincoln Uni
Carolyn Hedley Manaaki Whenua
Lania Holt - Scion
Paul Johnstone - PFR
Warren King - AgResearch

Robyn.Dynes@agresearch.co.nz

Next Generation Systems

*Business as usual will
not always be enough*

Beyond business as usual

Options which:

- More value
- More headroom
- Break lock-step

Options include

- Systems development,
- redesign,
- new technologies

Our hypothesis

partnering with rural entrepreneurs and participating in their innovation process will **speed development and reduce the risk of implementing** 'Next Generation Systems'

- Early identification of barriers to adoption of transformational systems
- Leading to better directed stakeholder and research investments

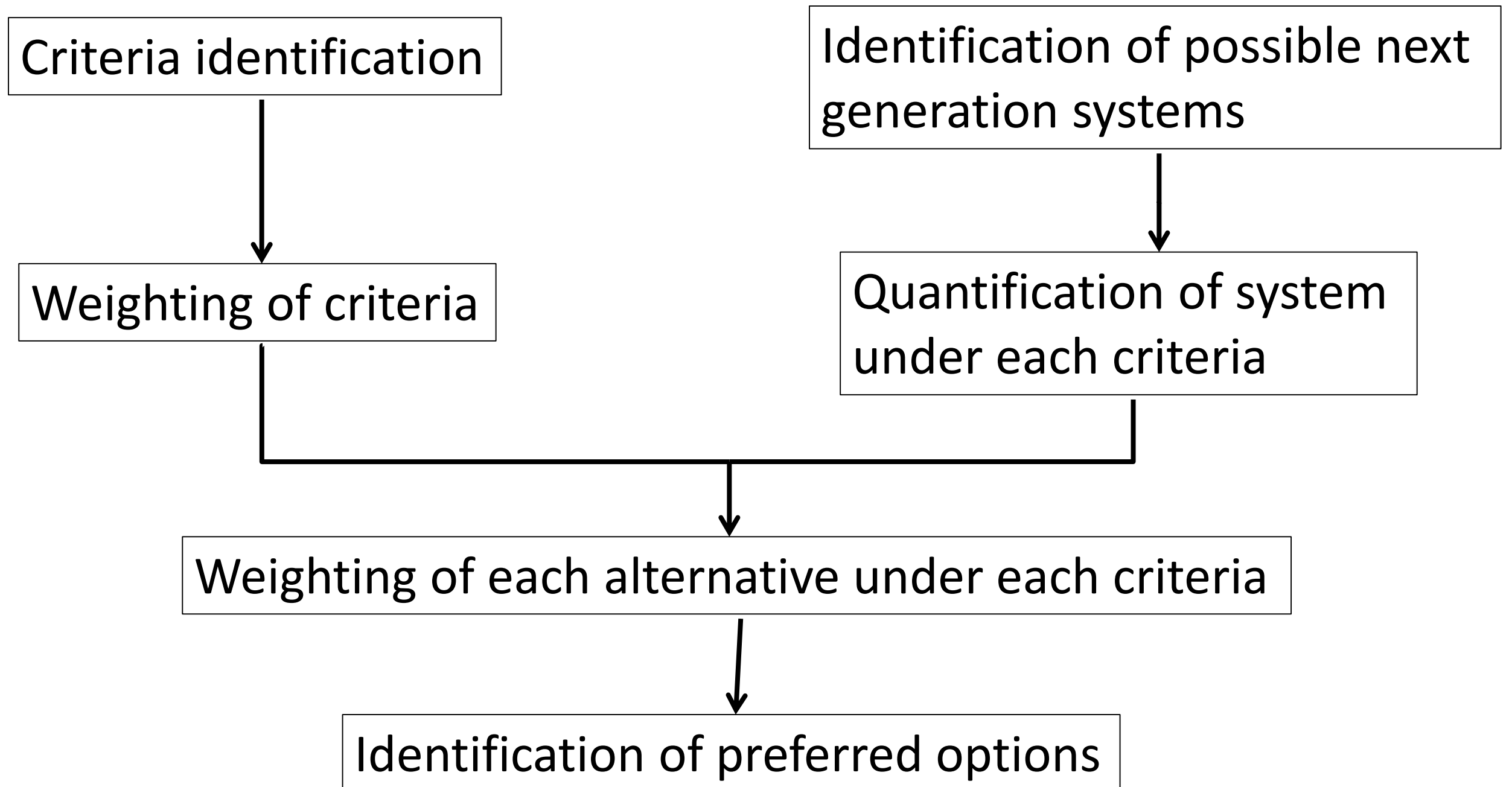
Where we will get to

Support decision making with commercial partners

Use OLW science knowledge and networks

Identify barriers to NGS evaluation and adoption

Multi-criteria decision making



Financial

Capital investment
Return/ha (profitability of enterprise)
Return on Investment
Payback period
Variability in profit

Environment

Domain

N leaching, Erosion,
P losses, E. coli
GHG emissions

Market factors

Scale of market
Ability to capture value added
Supply variability
Strength of supply chain,

System
choice

Regulation

Water,
Animal welfare
Food safety
Building

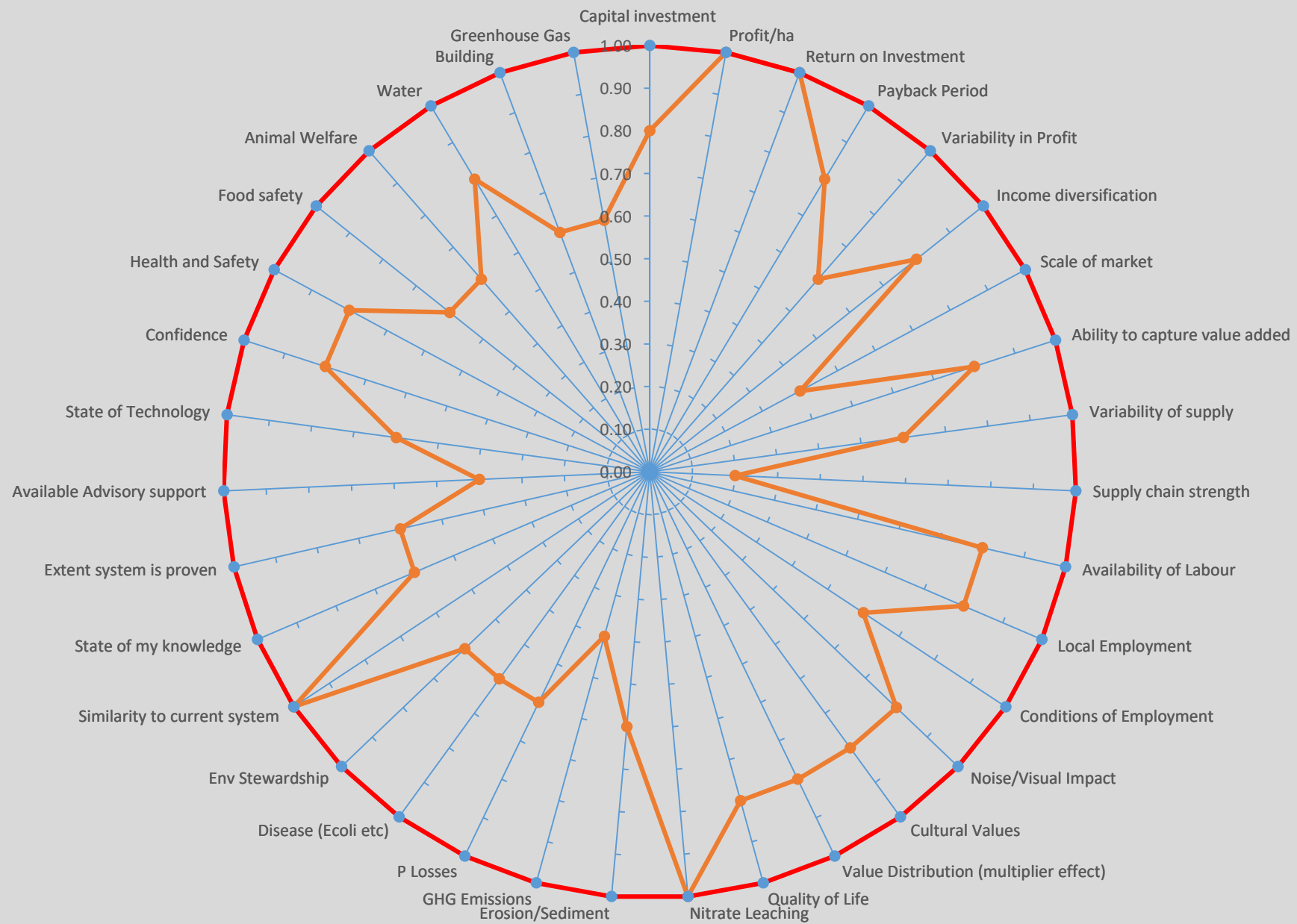
Social well-being

Community acceptability
Impact on communities
Quality of life

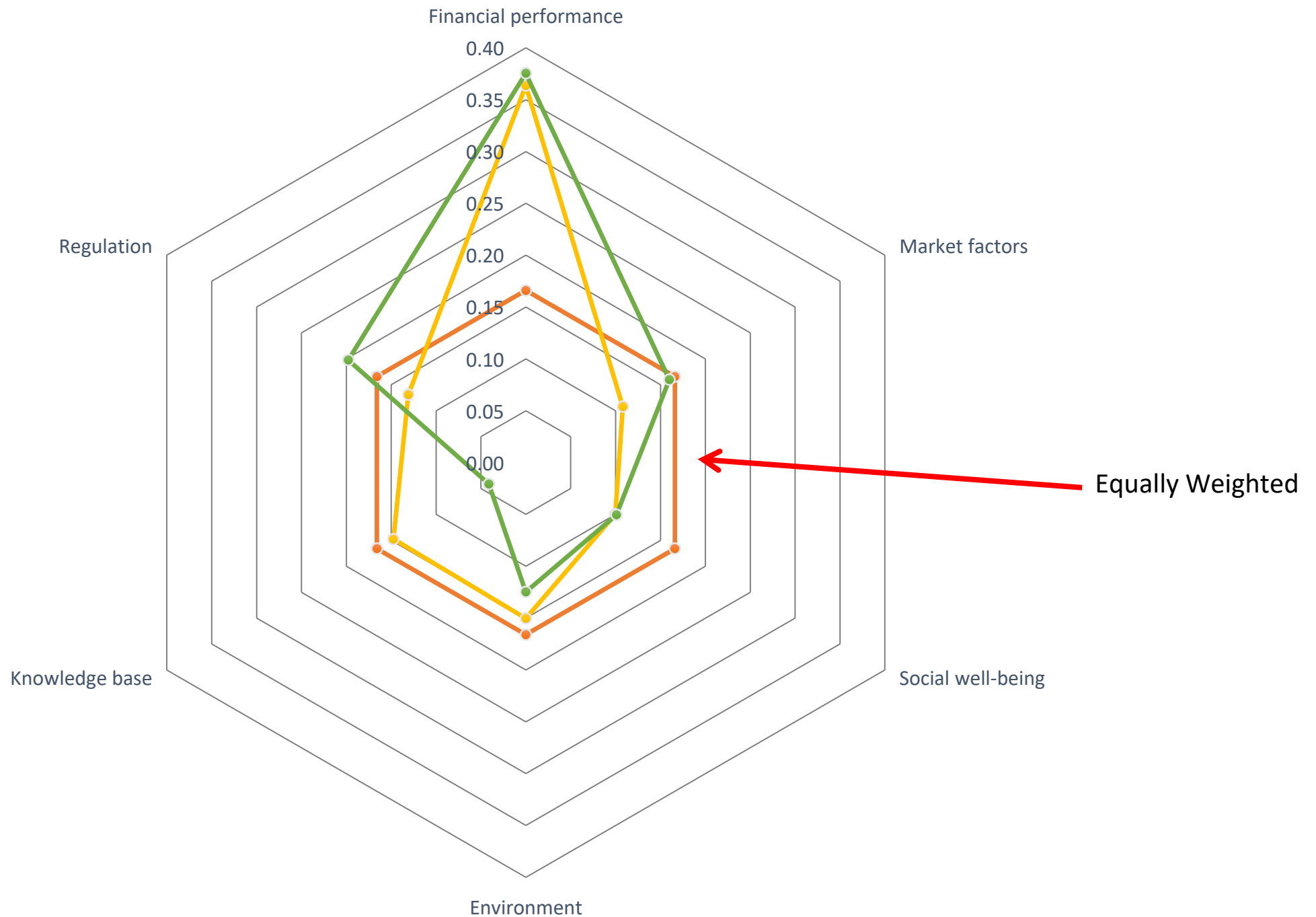
Knowledge base

Current state of knowledge
Similarity to existing systems
State of Technology
Level of Confidence

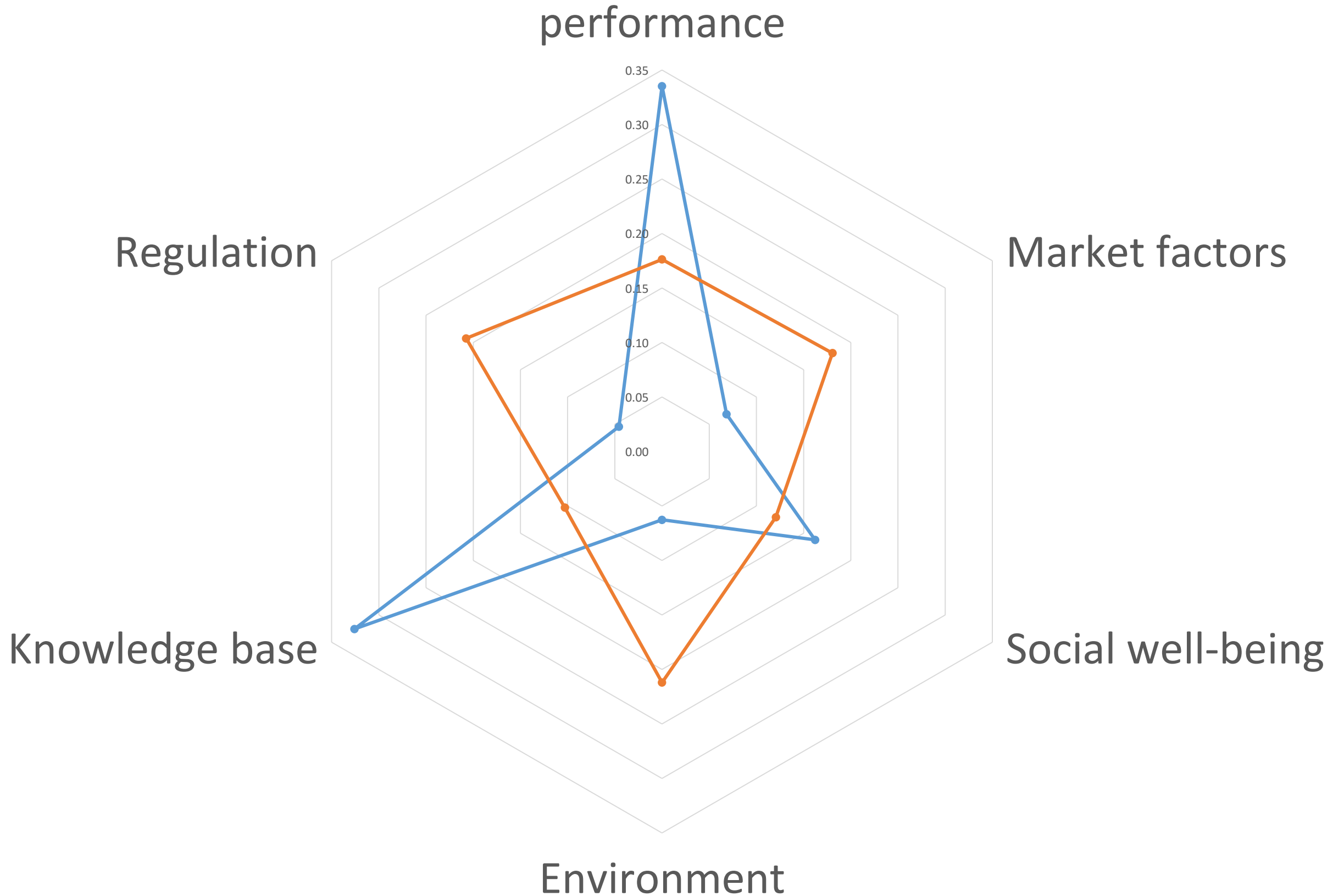
Sheep Dairy – Expert opinion – what data are needed



Same NGS – different business priorities



Criteria for change



What are the benefits?

