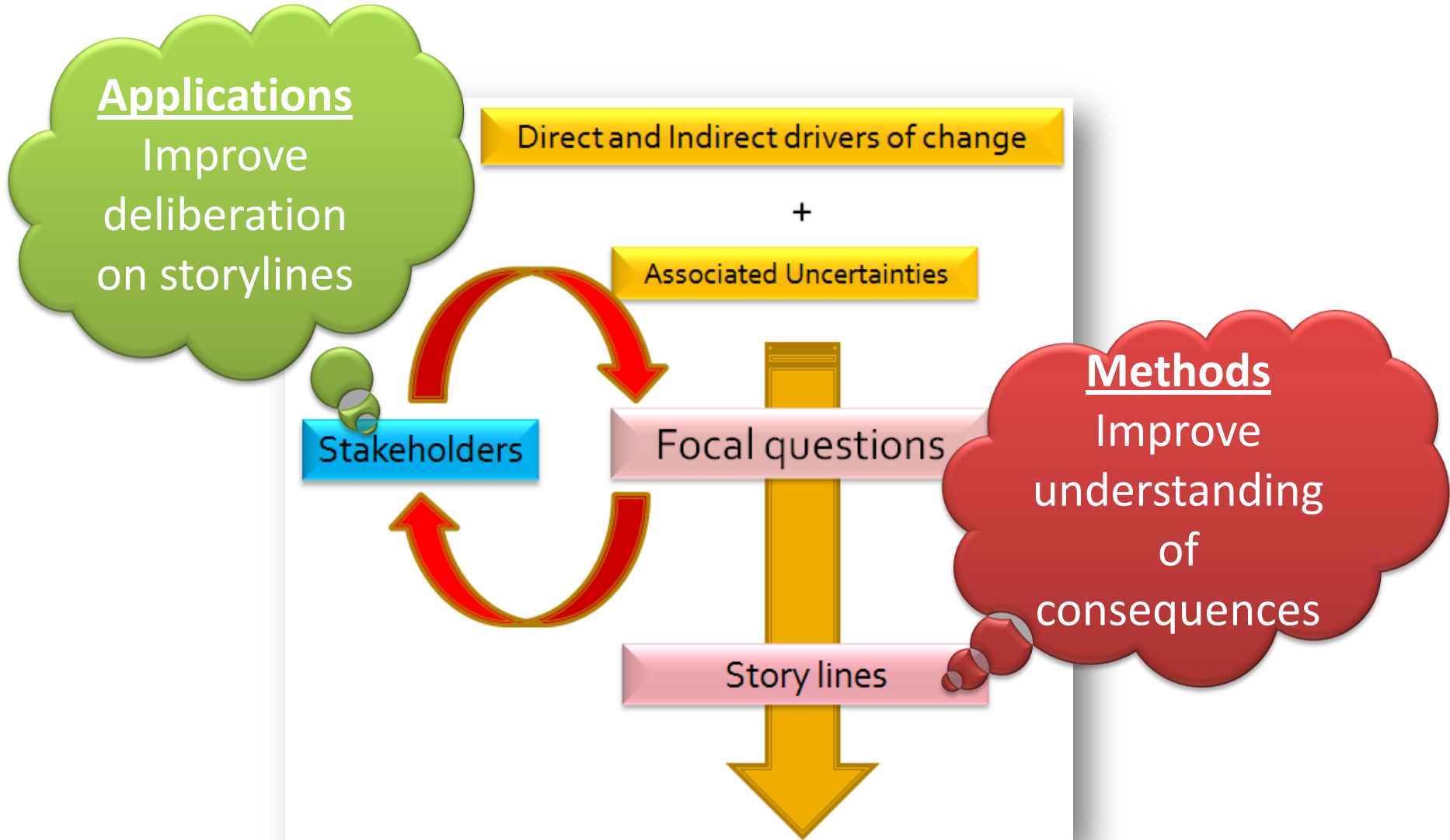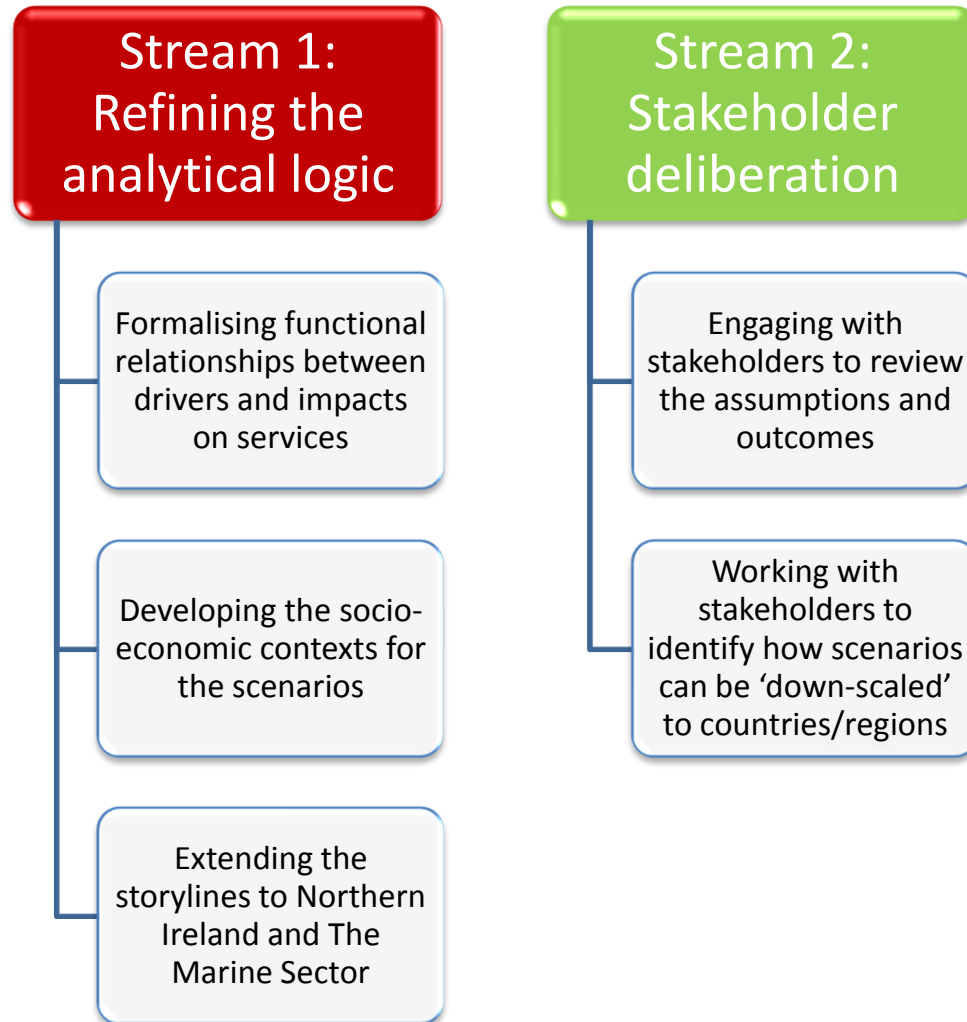# Work Package 6: Development of the UK NEA scenarios

Gary Kass & Roy Haines-Young

First meeting of the Expert Panel, Stakeholders, Funders Group and Principal Investigators for the UK NEA Follow on Project
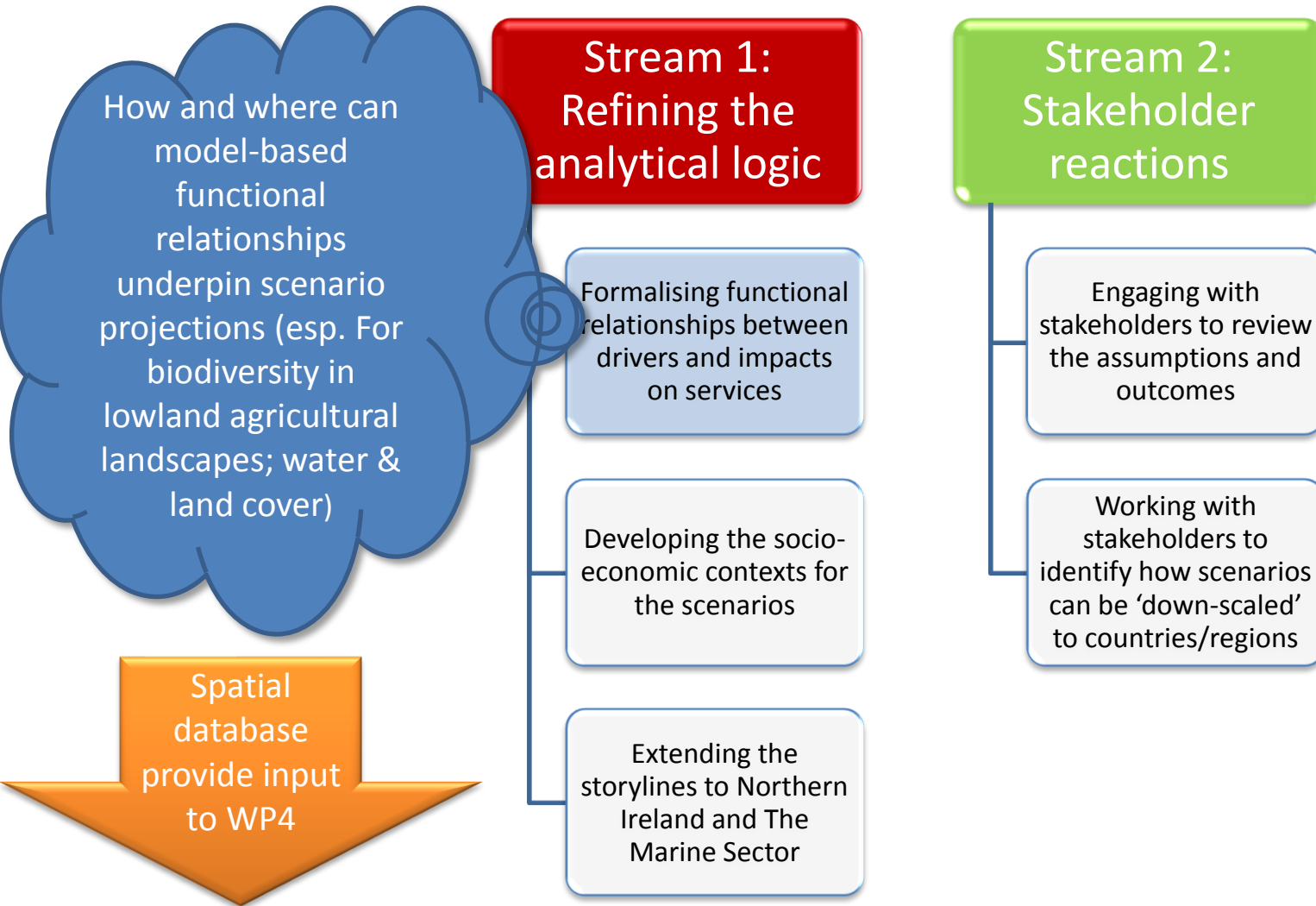
Phase 1 and the Next Steps

Overview of Proposed Work

Stream 1: Refining the analytical logic

- Formalising functional relationships between drivers and impacts on services

- Developing the socio-economic contexts for the scenarios

- Extending the storylines to Northern Ireland and The Marine Sector

Stream 2: Stakeholder deliberation

- Engaging with stakeholders to review the assumptions and outcomes

- Working with stakeholders to identify how scenarios can be 'down-scaled' to countries/regions

Overview of Proposed Work

How and where can model-based functional relationships underpin scenario projections (esp. For biodiversity in lowland agricultural landscapes; water & land cover)

Spatial database provide input to WP4

Stream 1: Refining the analytical logic

Formalising functional relationships between drivers and impacts on services

Developing the socio-economic contexts for the scenarios

Extending the storylines to Northern Ireland and The Marine Sector

Stream 2: Stakeholder reactions

Engaging with stakeholders to review the assumptions and outcomes

Working with stakeholders to identify how scenarios can be 'down-scaled' to countries/regions

Overview of Proposed Work

Apply the ethnographic futures framework to better characterise the internal dynamics of the societies that the storylines describe... Also time steps to understand scenario 'evolution'

Stream 1: Refining the analytical logic

Formalising functional relationships between drivers and impacts on services

Developing the socio-economic contexts for the scenarios

Extending the storylines to Northern Ireland and The Marine Sector

Stream 2: Stakeholder reactions

Engaging with stakeholders to review the assumptions and outcomes

Working with stakeholders to identify how scenarios can be 'down-scaled' to countries/regions

Ethnographic Futures Framework

created by Michele Bowman and Kaipo Lum of Global Foresight Associates

DEFINE: How do we see ourselves and the world? What do we care about?

Social Values & Attitudes; Scientific Models; Culture; Economic Systems; Religion; Politics & Public Policy

RELATE: What structures and relationships link people, organisations & nature?

Demographics; Social Groups; Work & Economy; Habitat & Ecosystems; Business Models & Practices; Government; Education

CONNECT: How do we connect people, places and things?

Information Technology; Space; Music, Media; Visual Arts; Language
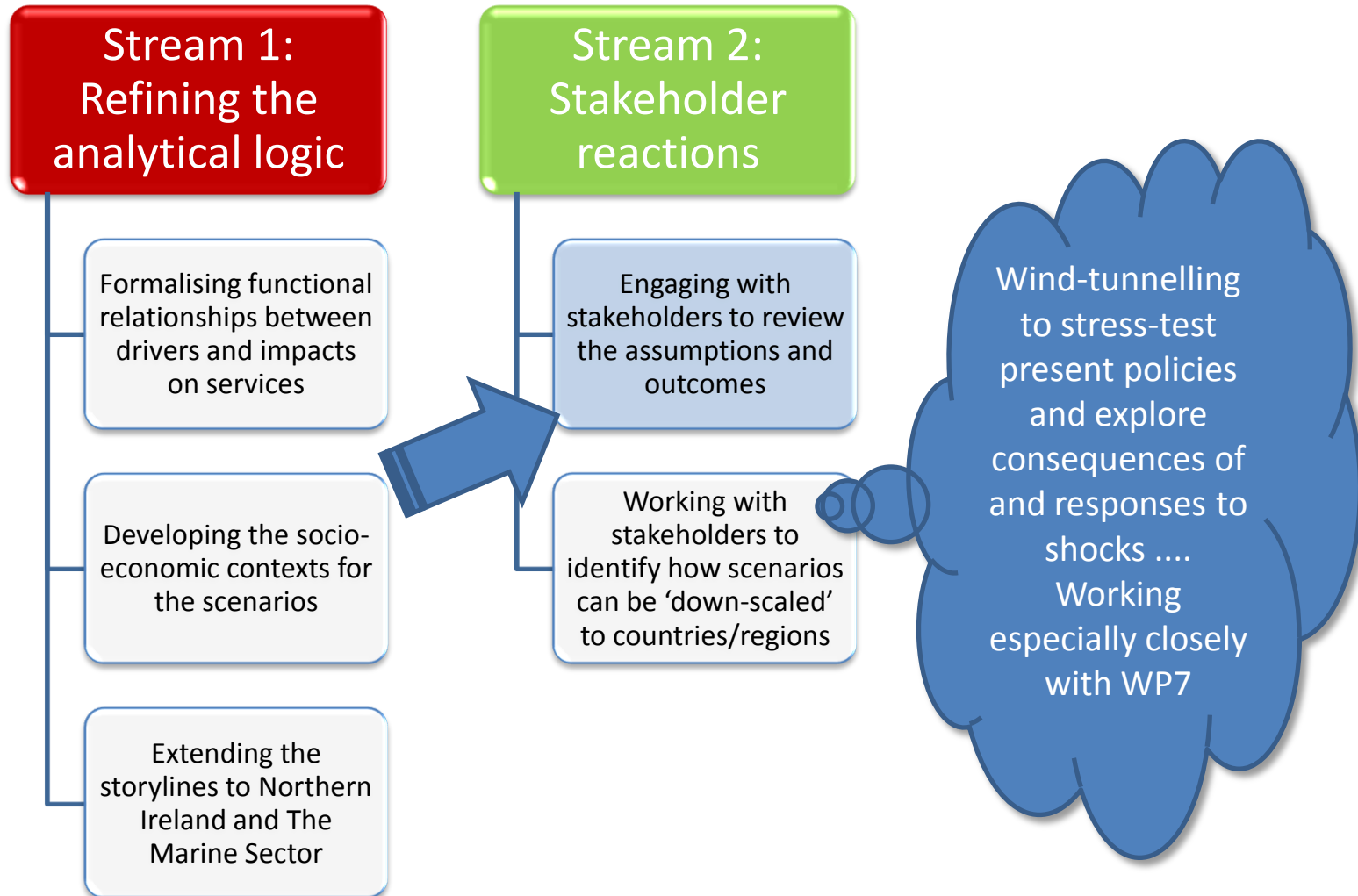
CREATE: How do we create wealth, goods & services?

Engineering; Manufacturing; Innovation Processes; Life Sciences; Materials Sciences; Nanotechnology

CONSUME: What do we create? how do we acquire and use goods & services?

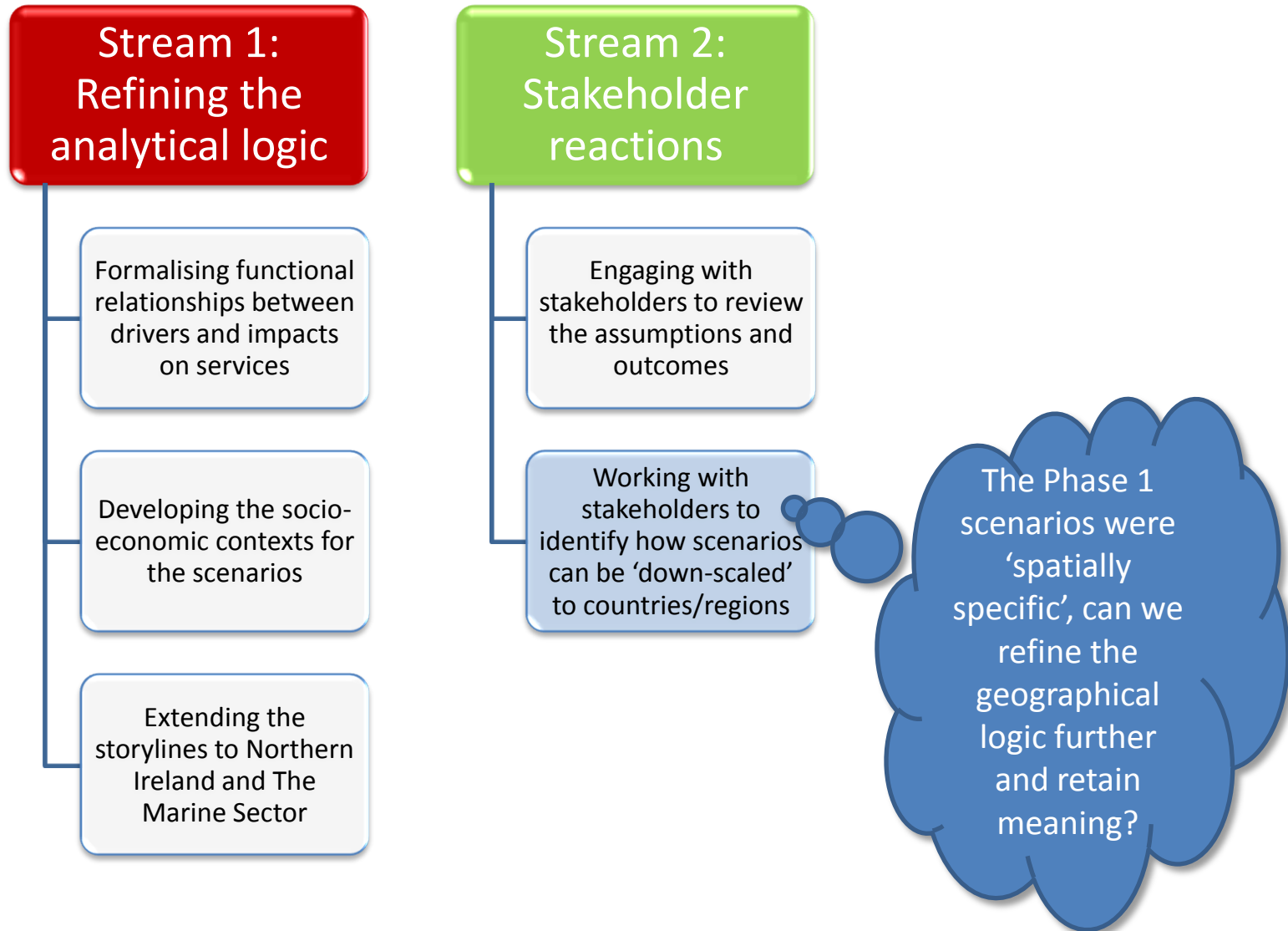Consumables; Energy; Food; House & Home; Entertainment & Leisure; Healthcare; Natural Resources

Overview of Proposed Work
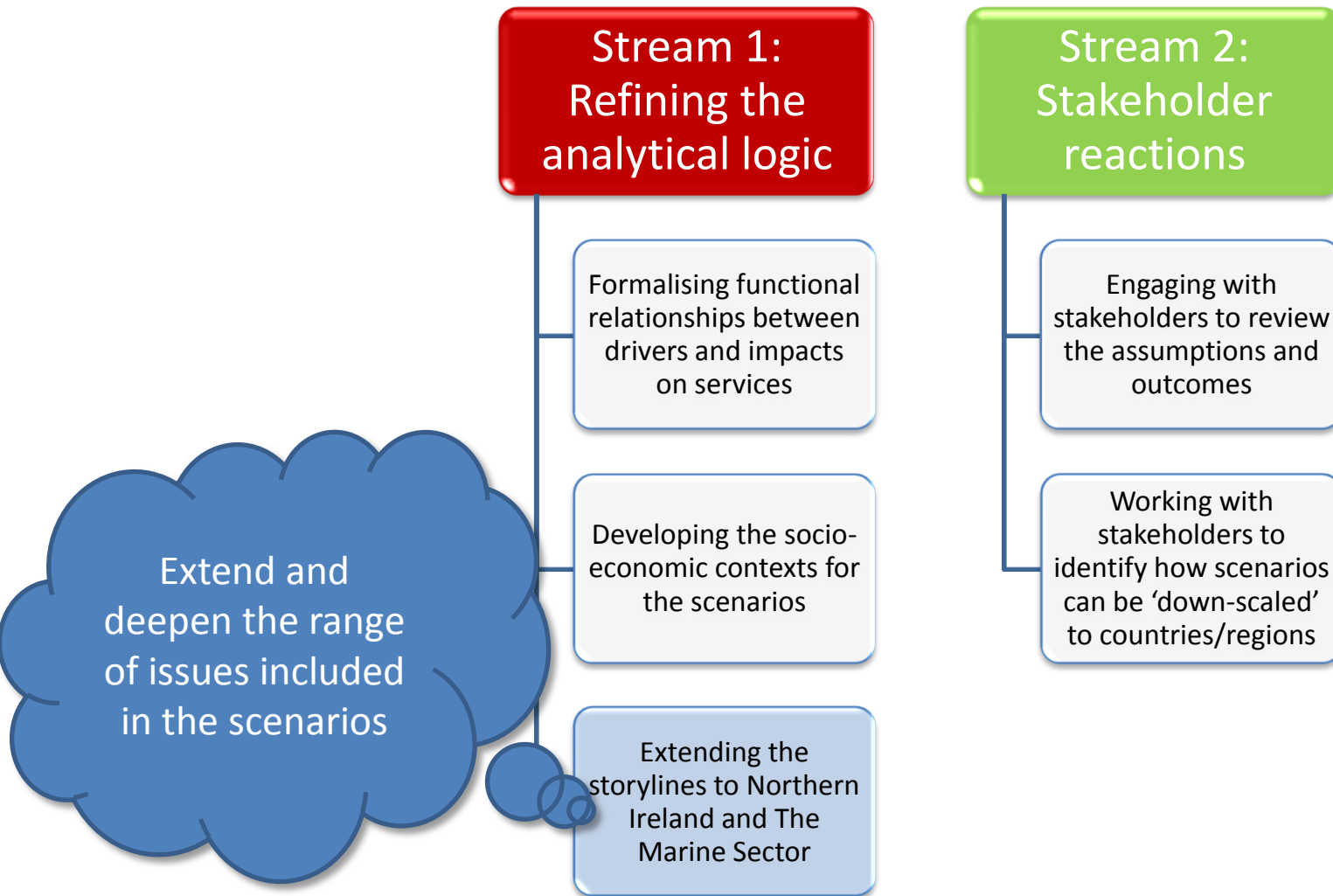
Stream 1: Refining the analytical logic

- Formalising functional relationships between drivers and impacts on services
- Developing the socio-economic contexts for the scenarios
- Extending the storylines to Northern Ireland and The Marine Sector

Stream 2: Stakeholder reactions

- Engaging with stakeholders to review the assumptions and outcomes
- Working with stakeholders to identify how scenarios can be 'down-scaled' to countries/regions

Extend and deepen the range of issues included in the scenarios

Overview of Proposed Work

Stream 1: Refining the analytical logic

Stream 2: Stakeholder reactions

Formalising functional relationships between drivers and impacts on services

Developing the socio-economic contexts for the scenarios

Extending the storylines to Northern Ireland and The Marine Sector

Engaging with stakeholders to review the assumptions and outcomes

Working with stakeholders to identify how scenarios can be 'down-scaled' to countries/regions

Wind-tunnelling to stress-test present policies and explore consequences of and responses to shocks .... Working especially closely with WP7

Overview of Proposed Work

Stream 1: Refining the analytical logic

Formalising functional relationships between drivers and impacts on services

Developing the socio-economic contexts for the scenarios

Extending the storylines to Northern Ireland and The Marine Sector

Stream 2: Stakeholder reactions

Engaging with stakeholders to review the assumptions and outcomes

Working with stakeholders to identify how scenarios can be 'down-scaled' to countries/regions

The Phase 1 scenarios were 'spatially specific', can we refine the geographical logic further and retain meaning?

Overview of Proposed Work

Project team

UNott	Roy Haines-Young	Iain Brown	JHI
PML	Mel Austen	Sue Christie	NIEL
EFO	Stephen Aguilar-Millan	Mark Everard	EA

Project team

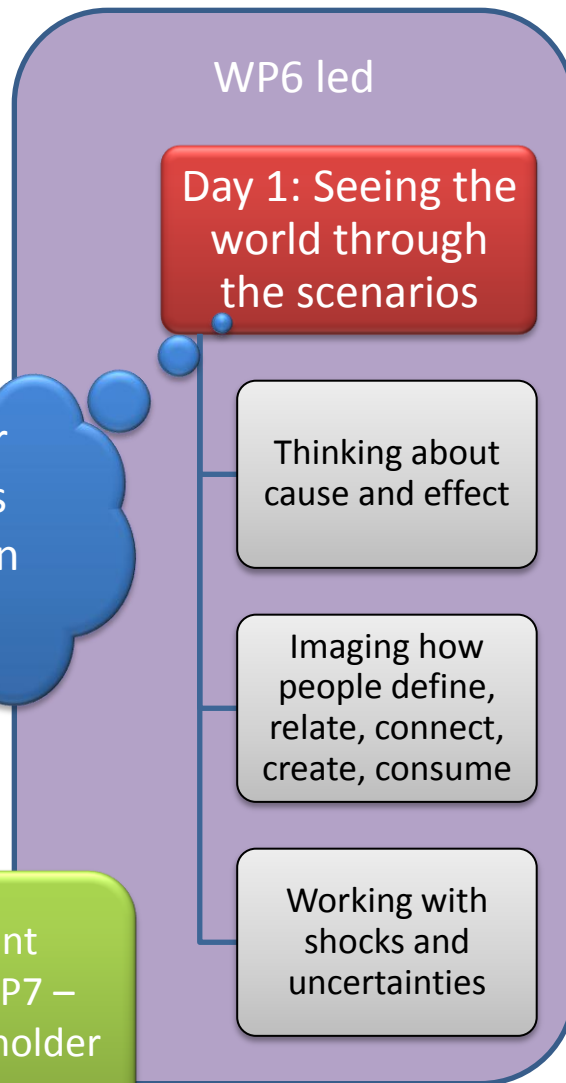|		
FEL	Les Firbank	Simon Gosling	UNott
UEx	Robert Fish	Stephen Hull	ABP mer
NE	Gary Kass	Anders Marsen	AU

Project team

16 people in 13 institutions

Outcomes

- **More robust and resonant descriptions of the scenarios**
  - Model based interactions (1st outputs Autumn 2012)
  - Time-lines and spatial frameworks (1st outputs Autumn 2012)
  - Further deepening and refinements through 2nd stream (Spring 2013)
- **Stakeholders get to grips with understanding and using the scenarios**
  - Framework for analysis of response options (materials and methods) ------->feed into WP7 (outputs Autumn 2012]
  - Analyse and report on extent of transformative thinking (based on qualitative analysis with stakeholders - outputs will inform methodological discussion about their value– by assessing their quality by *'usefulness'*) (Spring 2013).

Possible Workshop Structure

WP6 led

Day 1: Seeing the world through the scenarios

WP7 led

Day 2: Response options

Stakeholder perceptions and views on scenarios before

Stakeholder perceptions and views on scenarios after

Thinking about cause and effect

Characterising responses

Imaging how people define, relate, connect, create, consume

Wind tunnelling policy options and strategies

Working with shocks and uncertainties

Benefits of joint working with WP7 – minimising stakeholder fatigue etc.
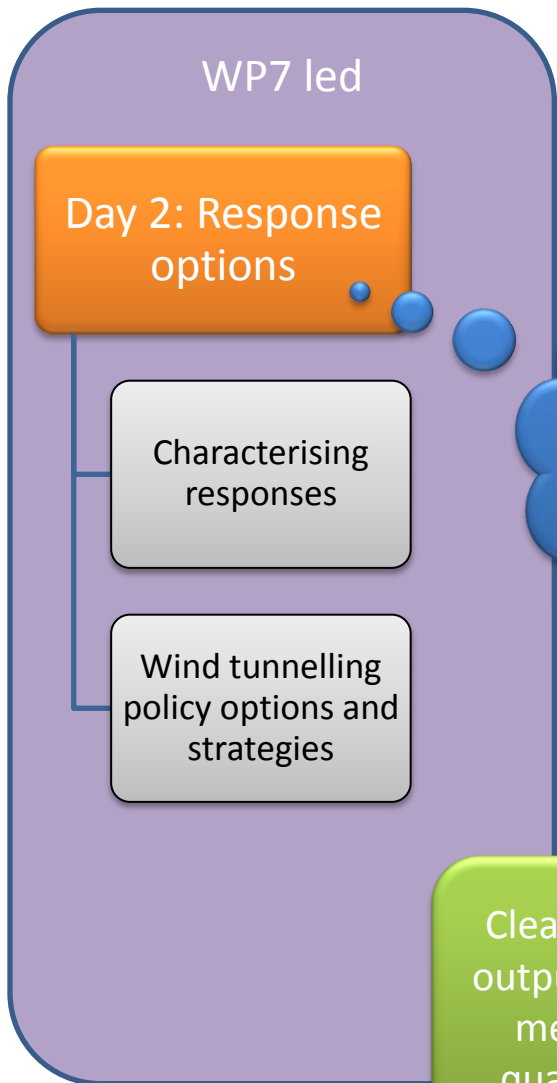
Clearly differentiated outputs – our focus on methodology and quality of scenarios

The UK NEA scenarios

A preservationist attitude arises because the UK can afford to look after its own backyard without diminishing the ever-increasing standards of living.....

This scenario is essentially a projection based on current trends and results in a future UK that is roughly based on today's ideals and targets....

The belief that the promotion of ecosystem services through the creation of multifunctional landscapes is essential for maintaining the quality of life in the UK is widely accepted. ...

This is a future where society is more concerned with the immediate surroundings and strives to maintain a sustainable focus on life within that area

High economic growth with a greater focus on removing barriers to trade is the fundamental characteristic of this scenario....

Under this scenario climate change results in increases in global energy prices forcing many countries to attempt greater self-sufficiency (and efficiency) in many of their core industries...

Green and Pleasant Land

Going with the flow

Nature @ work

UK NEA scenarios

Local stewardship

World markets

National security

Timetable

Stream	Task	Team input (Lead)		July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July	Aug	Sep	Oct
					2012									2013					
1 Scenario methods																			
1.1	Developing the functional relationships that link land cover and land use change to service output	Haines-Young																	
	1.1.1: Biodiversity and lowland farmed landscapes	Norris, Haines-Young																		
	1.1.2: Process-based water models and scenarios	Gosling, Haines-Young, PDRA																		
	1.1.3: Representing functional relationships & data sources	Haines-Young, Smith, Madsen, PDRA																		
1.2	Refining the socio-economic contexts in which the significance changes in land cover and service output can be understood.	Kass, Haines-Young, Everard, PDRA																		
	1.2.1: Ethnographic futures framework & timelines	Kass, Haines-Young, Everard, PDRA																		
	1.2.2: Wildcards and scenarios	Aguilar-Millan, PDRA																		
	1.2.3: Scenarios and governance responses	Brown, Everard, Kass																		
1.3	Extending the range of services considered to include those associated with coastal and marine environments.	Hull, Roberts, Austin, Haines-Young																		
2 Scenario applications																				
2.1	Engaging with stakeholders to review the assumptions and outcomes used in the first phase scenarios	Fish, Kass, Potschin, Madsen																		
	2.1.1: England, Wales (& Scotland)	Fish, Waylen																		
	2.1.2: Northern Ireland	Christie																		
2.2	Downscaling of Scenarios	Haines-Young, Fish, Kass, Smith, PDRA																		
3. Synthesis and reporting																				
3.1	Tools for scenario construction and testing	Haines-Young, all																		
3.2	Stakeholder perspectives and responses	Haines-Young, all																		
Milestones																				
M1	WP6 internal kick-off	UNOTT																		
M2	Overall NEA II meeting	WCMC																		
M3	Finalise workplan	UNOTT																		
M4	Draft report on methods	UNOTT																		
M5	Draft report on stakeholder responses	UNOTT																		
M6	Draft sysnthesis report	UNOTT																		
M7	First draft of chapter submitted	UNOTT																		
M8	Review Meeting	WCMC																		
M9	Final draft submitted	UNOTT																		

WP7

WP7