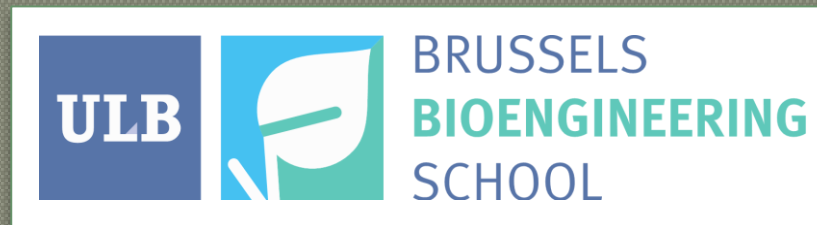


Q Methodology, a useful tool to foster multi-actor innovation networks performance

Line Louah and Marjolein Visser



The challenge



'A wheelbarrow full of frogs'

The challenge



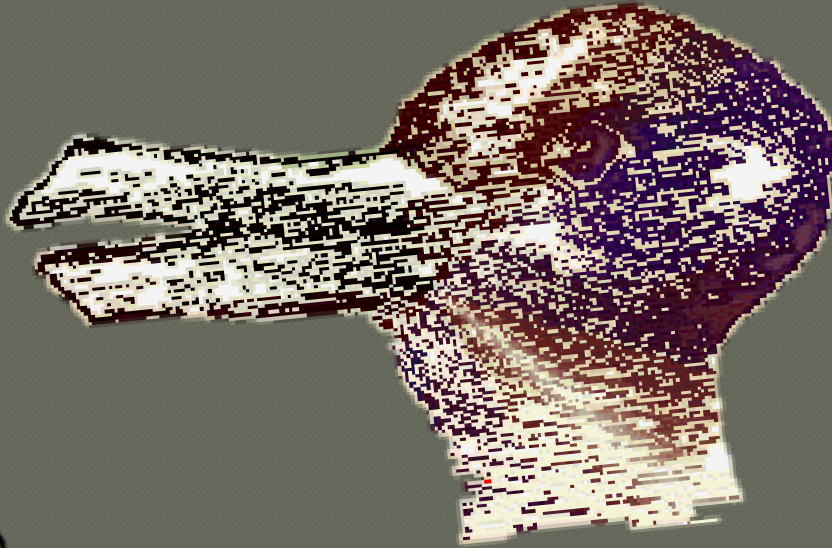
'A wheelbarrow full of frogs'

The question

How does a network facilitator manage the interests of the different stakeholders ?

The key: negociation

The key: negotiation



let's get that
bunny



no, I want
the duck !

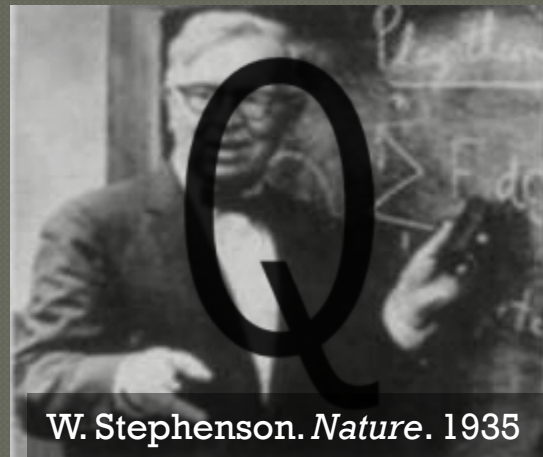
Our story with Q methodology



Our story with Q methodology



Our story with Q methodology



W. Stephenson. *Nature*. 1935

our Q-studies



Visser *et al.* 2007

our Q-studies



Visser *et al.* 2007



Louah *et al.* 2010

our Q-studies



Visser *et al.* 2007



Louah *et al.* 2010

our Q-studies



Visser *et al.* 2011



farmers vs non farmers

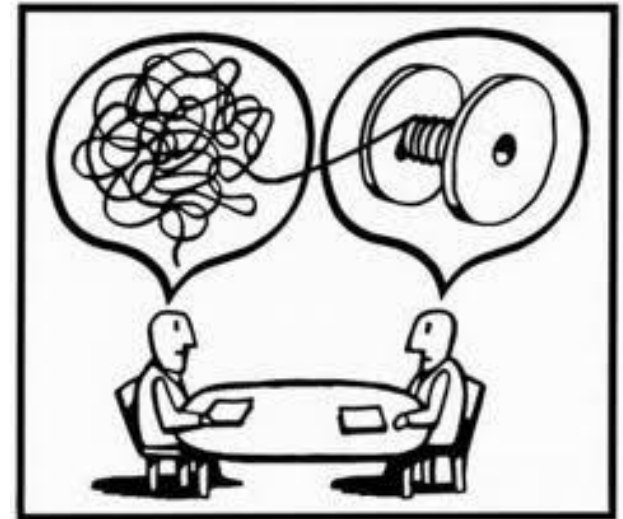


harvesters vs non harvesters

our Q-studies



scientists vs fallow users





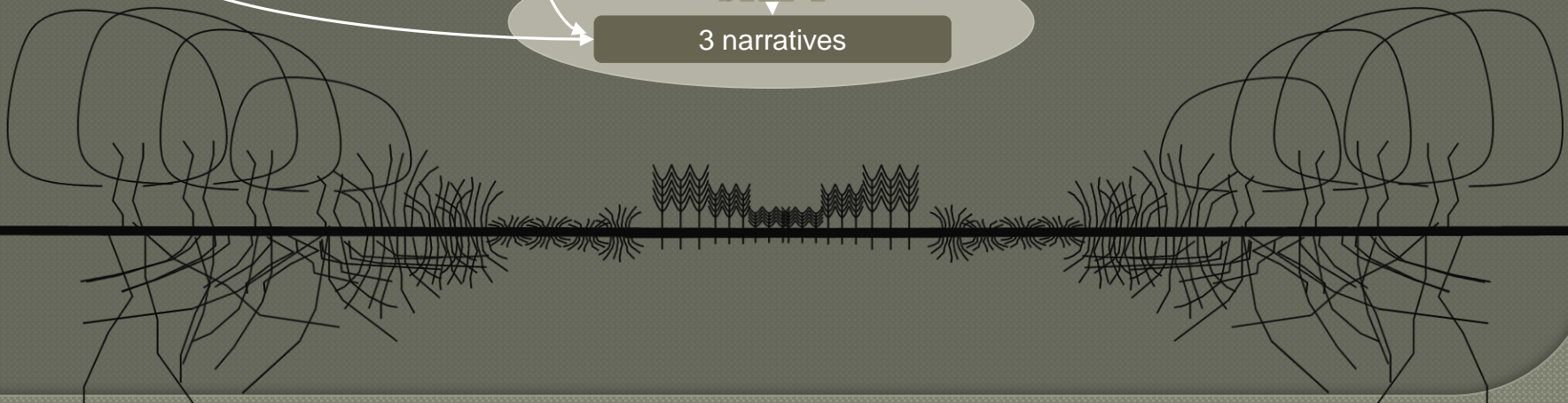
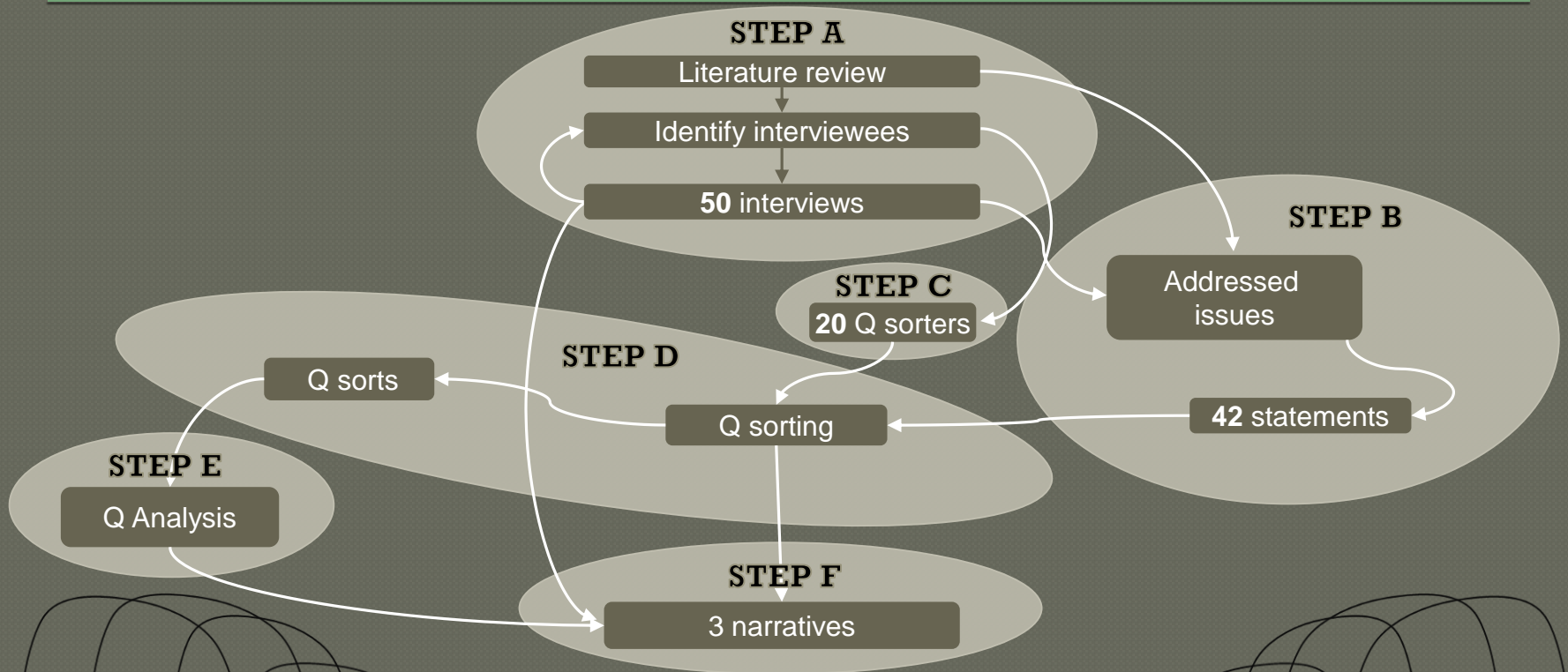
our Q-studies



Louah *et al.* 2016

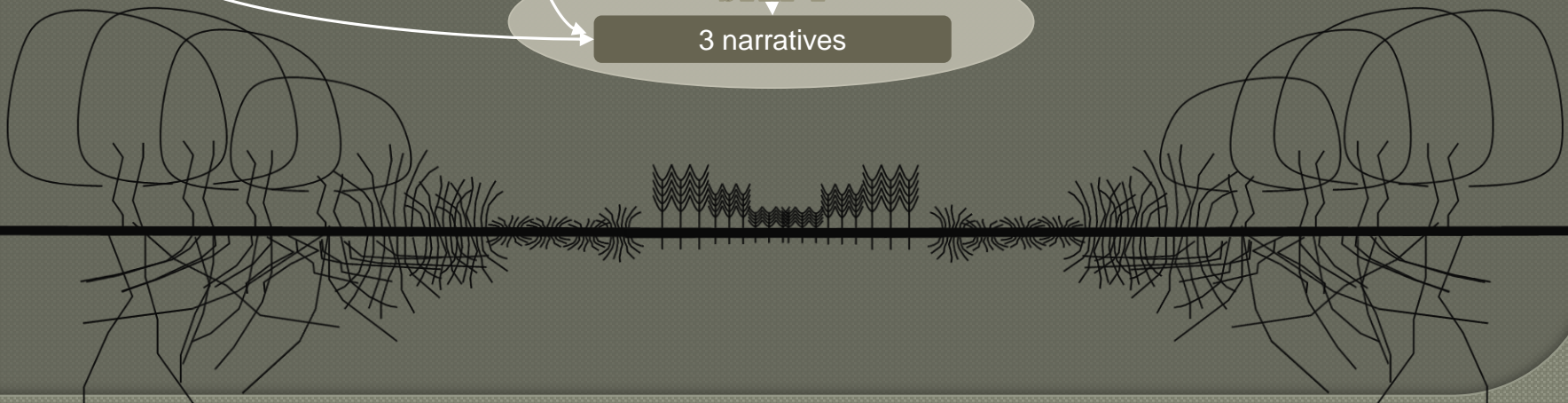
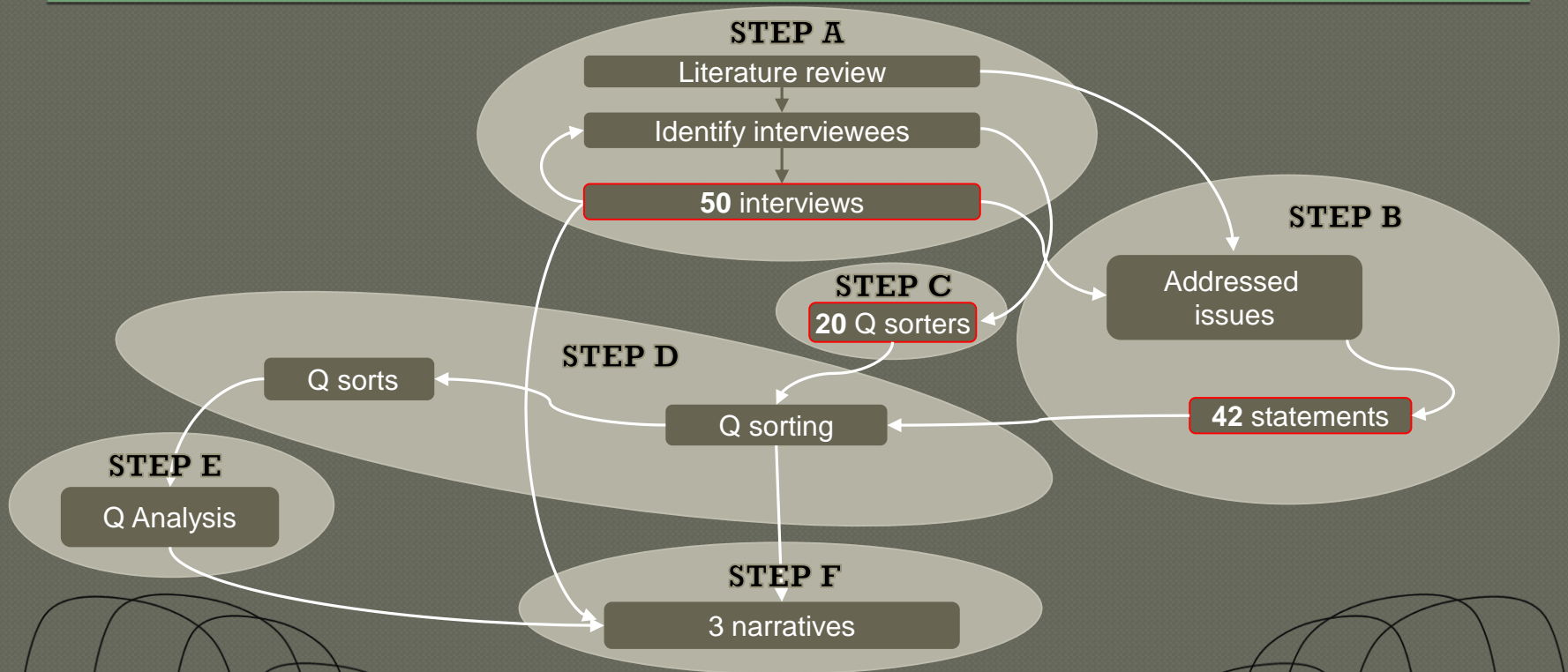
How to do Q

Barriers to the development of agroforestry



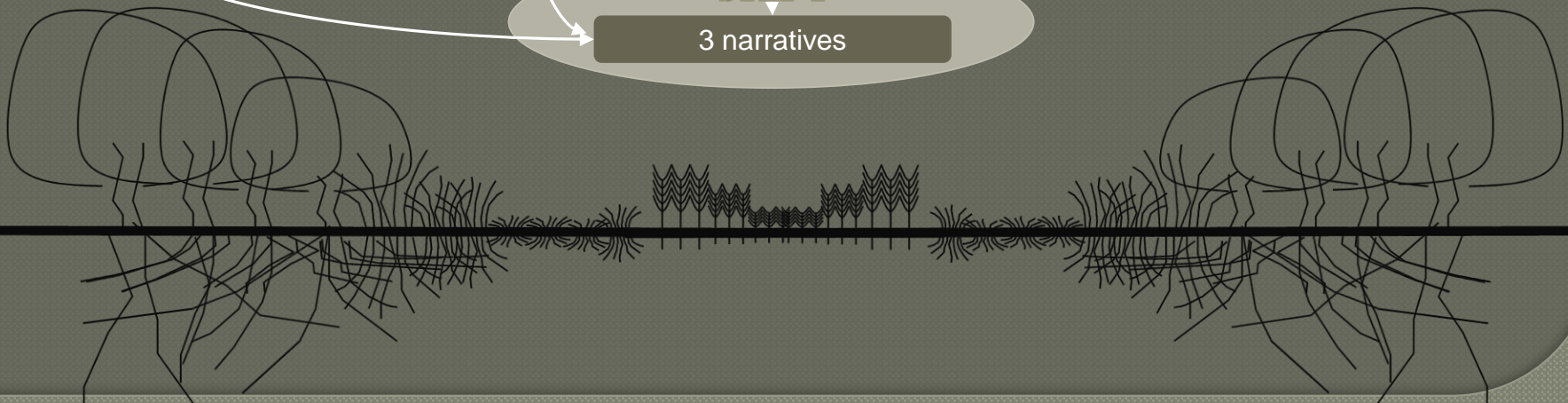
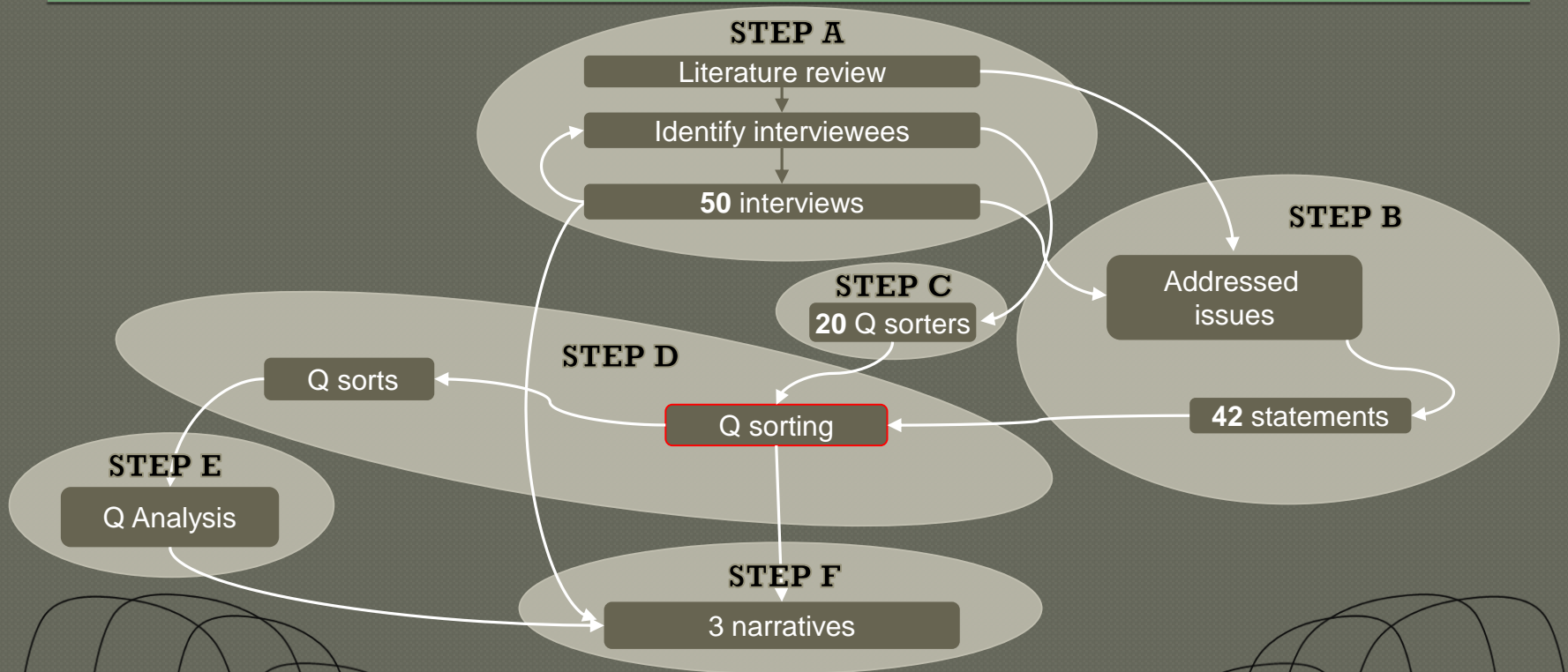
How to do Q

Barriers to the development of agroforestry



How to do Q

Barriers to the development of agroforestry

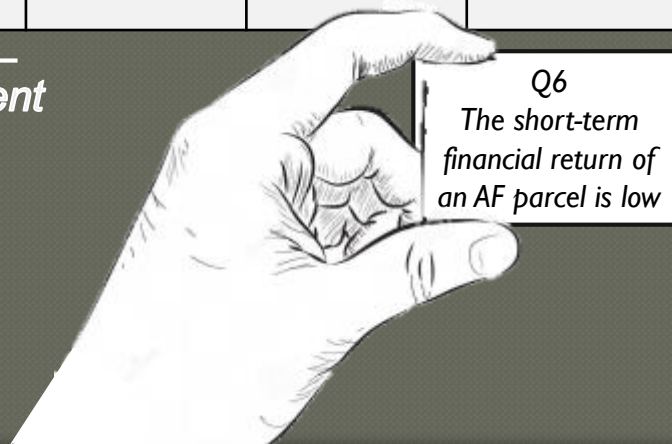
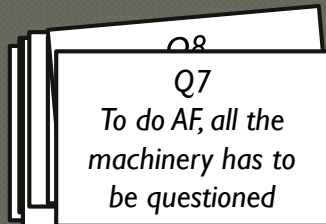


The Q sorting

- 3	- 2	- 1	0	+ 1	+ 2	+ 3
	<p>Q4 There is not much information support for farmers</p> <p>Q5 Agriculture is at a turning point</p>		<p>Q3 Trees draw nutrients very deep and bring them up to the surface</p>		<p>Q1 Our soils are not being depleted at all</p>	<p>Q2 We would not be able to farm without pesticides</p>

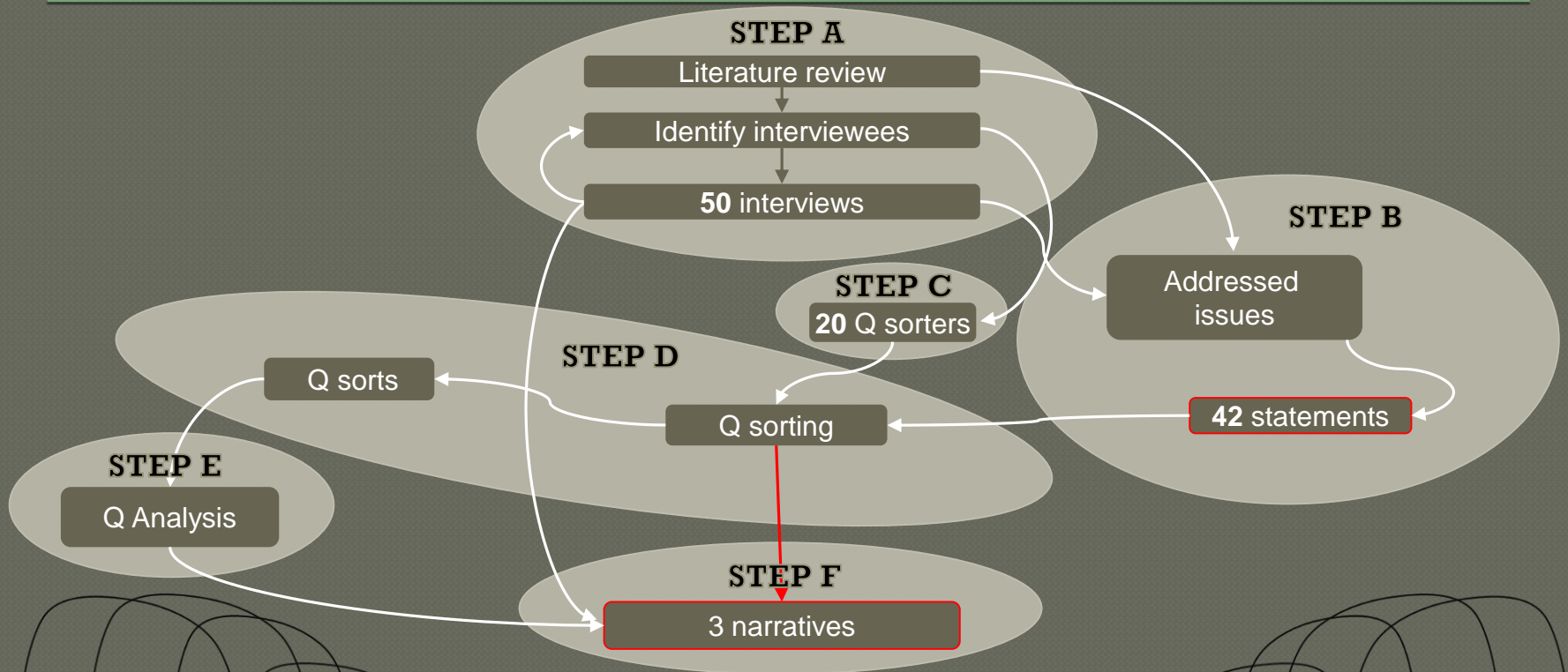
←
most disagreement

→
most agreement



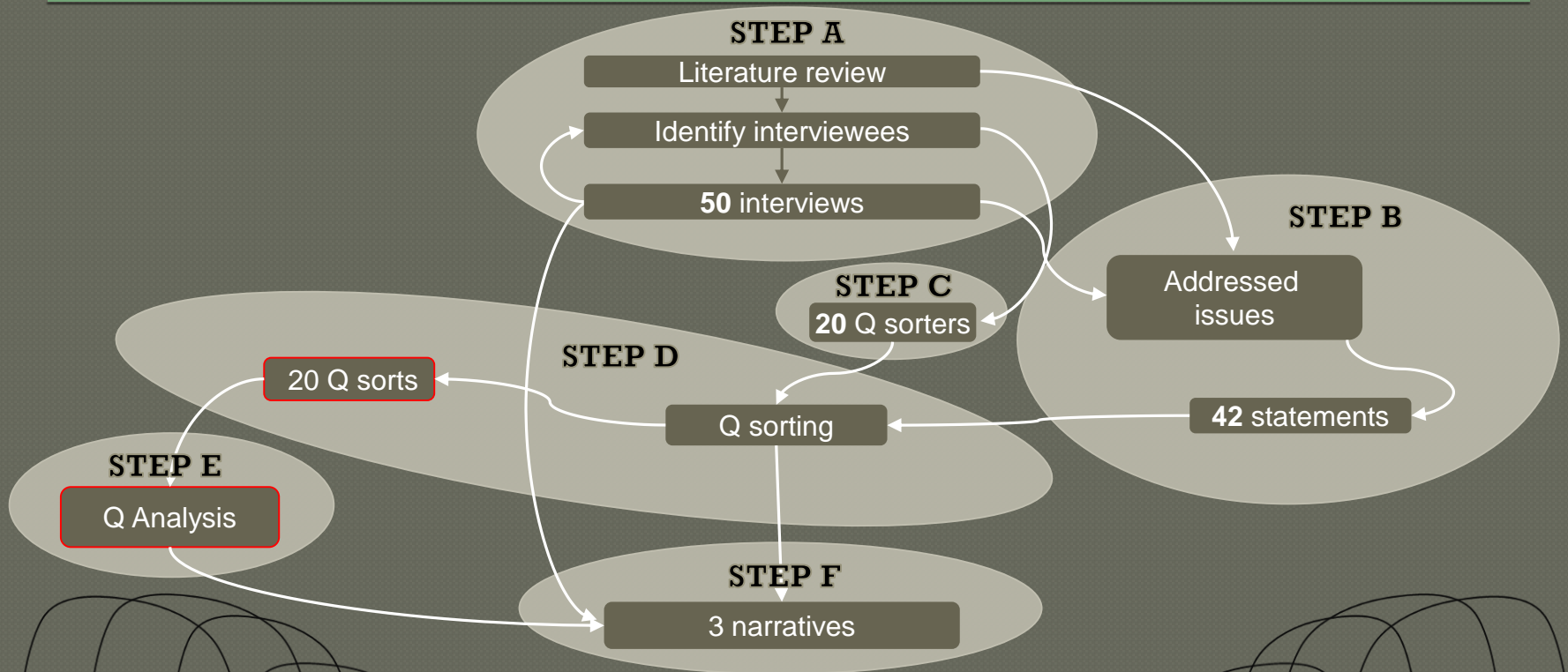
How to do Q

Barriers to the development of agroforestry



How to do Q

Barriers to the development of agroforestry



Q analysis outputs

Cat.	Q statements	Scores		
		A	B	C
Agric. status & trends	Q15 <i>Our soils are not being depleted at all</i>	-3	0	1
	Q27 <i>Nature provides valuable assets to agriculture but these have been woefully neglected</i>	3	1	0
	Q31 <i>We are not fools, experiences such as AF ought to be carried out by others</i>	-2	-1	2
	Q28 <i>We would not be able to farm without chemical fertilizers</i>	-2	0	2
AF ecology & practices	Q34 <i>AF allows to regenerate soils by enriching them in carbon and in nitrogen</i>	3	1	0
	Q41 <i>AF would be more appropriate for land that is less productive than ours</i>	-2	-2	2
	Q37 <i>Intercropping several plant species results in a higher overall productivity compared to pure stands.</i>	3	1	0
	Q35 <i>Tree shade during haying causes delays in drying</i>	0	1	2
Barriers to AF development	Q6 <i>The short-term financial return of an AF parcel is low</i>	2	1	1
	Q12 <i>Making an income from hardwood in AF is not possible</i>	-2	-2	0
	Q14 <i>Increases in agricultural productivity thanks to AF must be quite obvious before throwing yourself into it.</i>	0	0	2
	Q2 <i>Farmers are afraid at working with trees while foresters are afraid at working in a farming environment</i>	2	0	1

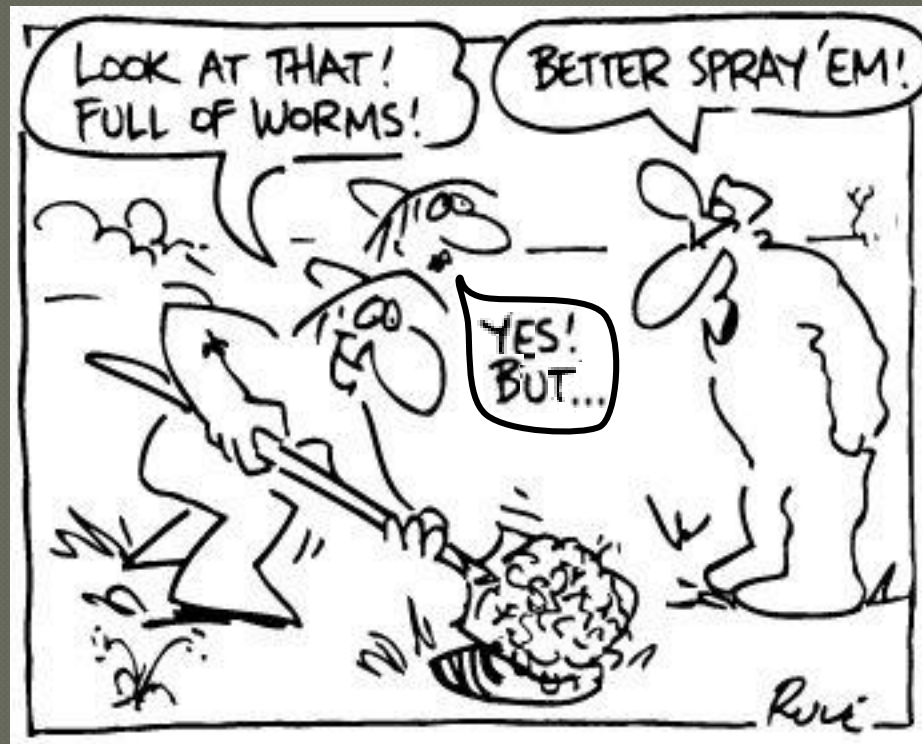
Cat.	Q statements	Scores		
		A	B	C
Agric. status & trends	Q30 <i>It would be better to take away all the subsidies and to ensure fair pricing</i>	2	1	2
	Q25 <i>Farmers are bound by the subsidies</i>	2	0	2
	Q19 <i>In Wallonia there is not much in terms of information support for farmers</i>	-1	-1	-1
	Q21 <i>The major change can't be implemented only by the elected officials, all the different actors in civil society need to contribute</i>	2	2	2
Barriers	Q11 <i>You must be the owner of the field to do AF</i>	2	1	2

Q analysis outputs

Cat.	Q statements	Scores		
		A	B	C
Agric. status & trends	Q15 Our soils are not being depleted at all	-3	0	1
	Q27 Nature provides valuable assets to agriculture but these have been woefully neglected	3	1	0
	Q31 We are not fools, experiences such as AF ought to be carried out by others	-2	-1	2
	Q28 We would not be able to farm without chemical fertilizers	-2	0	2
AF ecology & practices	Q34 AF allows to regenerate soils by enriching them with nitrogen	3	1	0
	Q41 AF would be more productive than ours	-2	-2	2
	Q37 Intercropping results in a higher overall productivity compared to monoculture stands.	3	1	0
	Q35 Tree shade during haying causes delays in drying	0	1	2
Barriers to AF development	Q6 The short-term financial return of an AF parcel is low	2	1	1
	Q12 Making an income from hardwood in AF is not possible	-2	-2	0
	Q14 Increases in agricultural productivity thanks to AF must be quite obvious before throwing yourself into it.	0	0	2
	Q2 Farmers are afraid at working with trees while foresters are afraid at working in a farming environment	2	0	1

Cat.	Q statements	Scores		
		A	B	C
Agric. status & trends	Q30 It would be better to take away all the subsidies and to ensure financing	2	1	2
	Q25 Farmers are bound by the subsidies	2	0	2
	Q19 In Well... terms of information support for farmers	-1	-1	-1
	Q21 The new change can't be implemented only by the elected officials, all the different actors in civil society need to contribute	2	2	2
Barriers	Q11 You must be the owner of the field to do AF	2	1	2

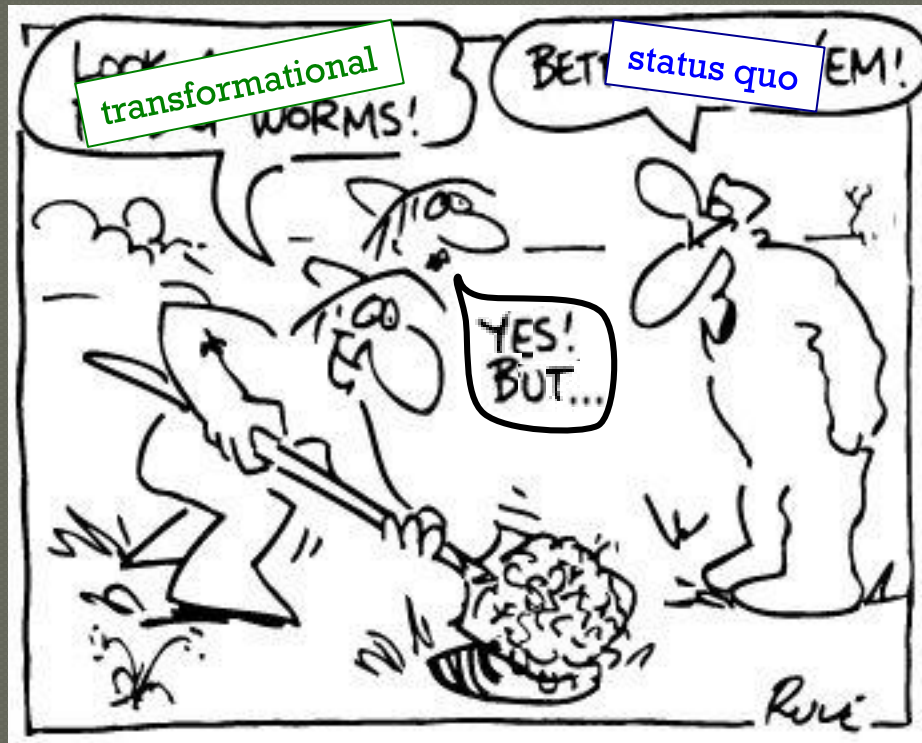
Emerging narratives



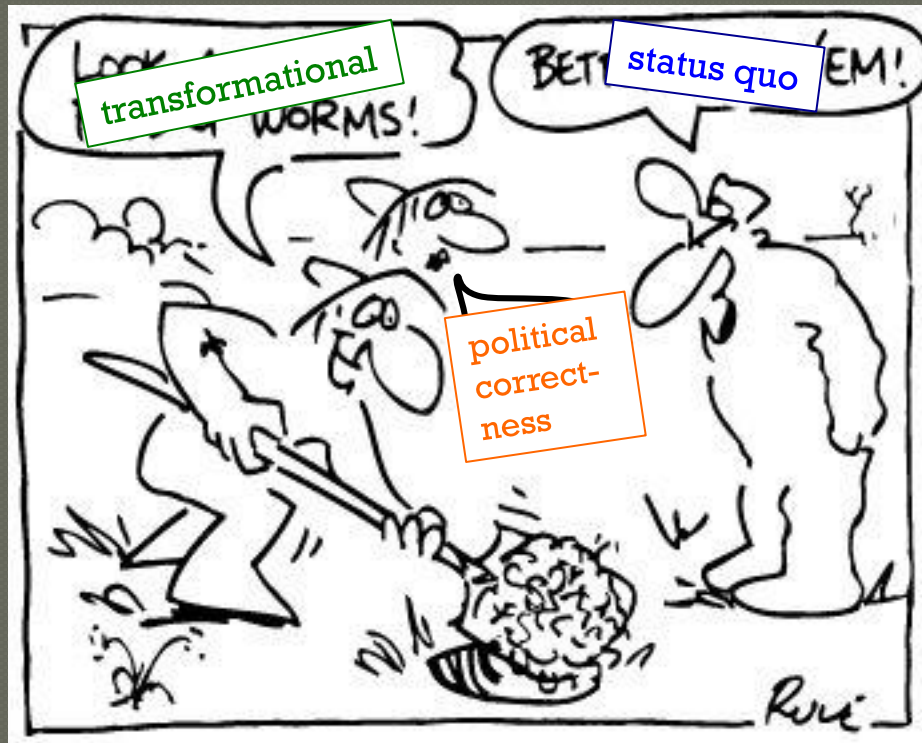
Emerging narratives



Emerging narratives



Emerging narratives



Q opportunities for facilitators



- 'self-interpretations' nature
- expressible & 'hardly' expressible' aspects
- equal consideration of all voices & viewpoints

How to do Q

Barriers to the development of agroforestry

STEP A

50 interviews

40 farmers

3 researchers

7 decision makers

STEP C

20 Q sorters

12 farmers

2 researchers

6 decision makers

STEP B

42 statements

- Agriculture status & trends
- AF ecology & practices
- Barriers to AF

