



Netherlands Environmental Assessment Agency

Scenario exercise Part I

Presentation for the Modelling Planning Workshop

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What is a scenario?

Scenarios are **credible**, challenging, and **relevant** stories about how the future might unfold that can be told in both words and numbers.

Scenarios are **plausible** descriptions of how the future may develop, based on a **coherent** and internally **consistent** set of assumptions about key relationships and driving forces.

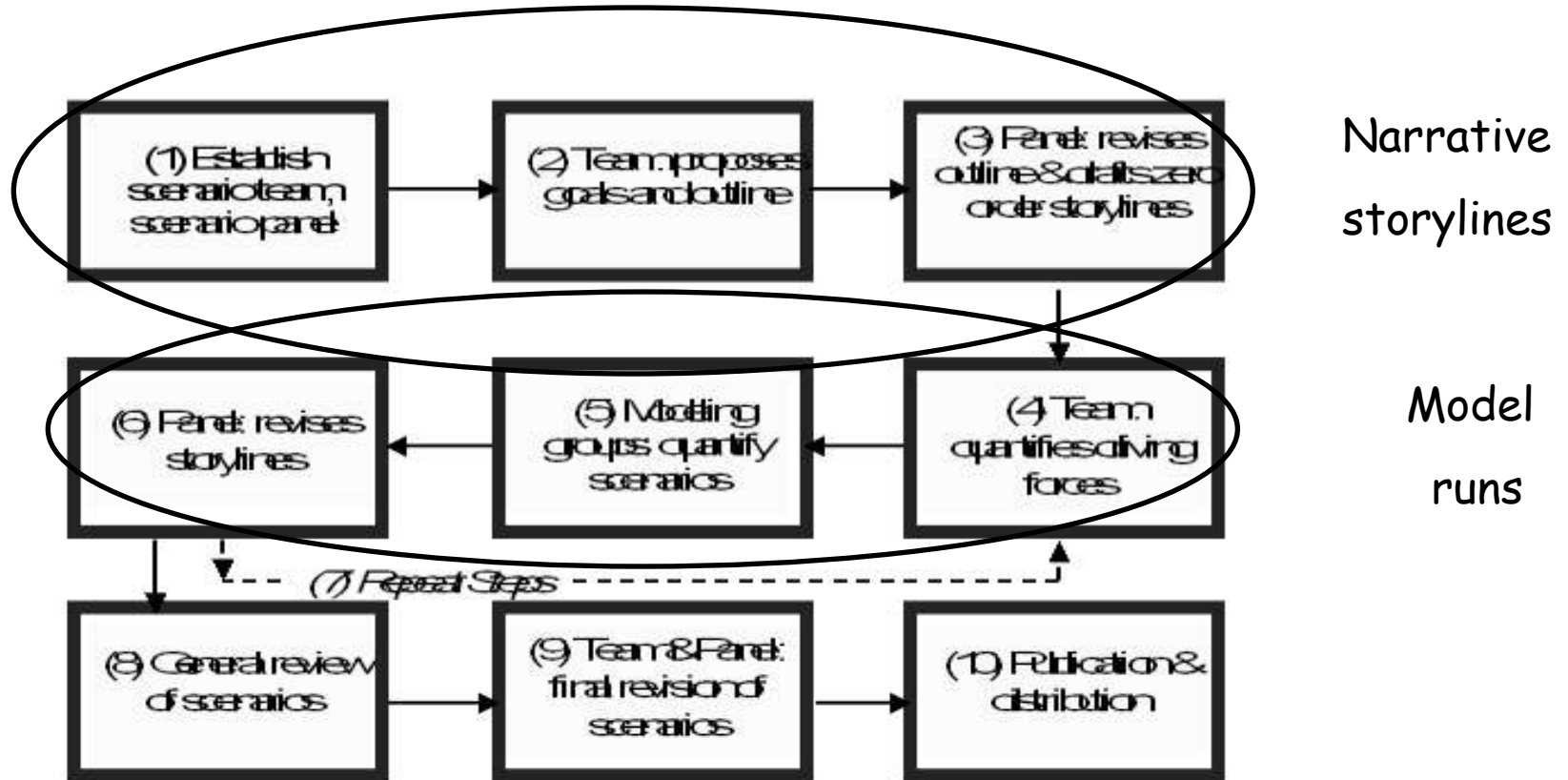
Scenarios are not **forecasts**, **projections**, or **predictions**.

Scenarios - overview

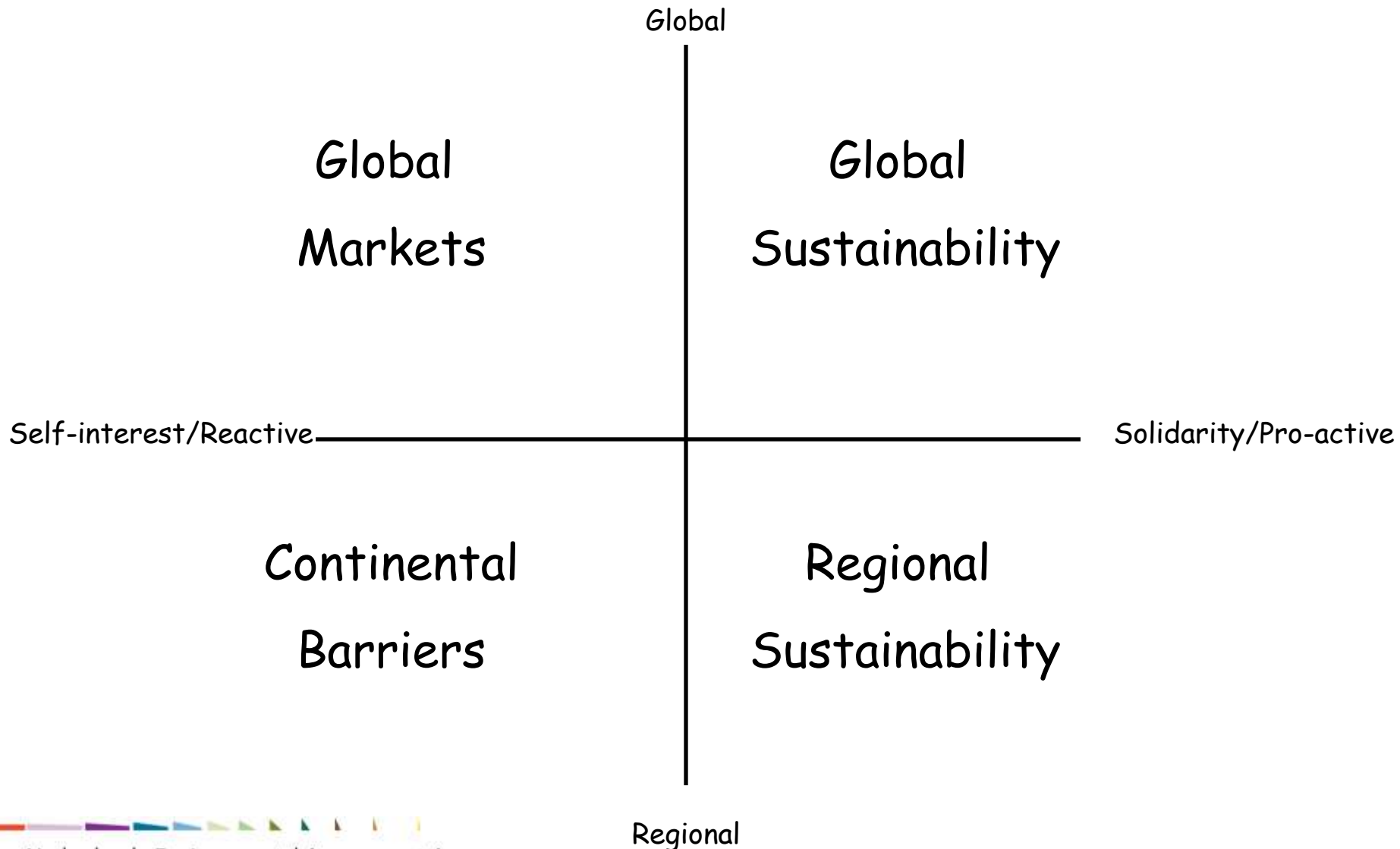
Scenarios:

- Have the ability to address **complex** issues in an **integrated** manner.
- Have the ability to deal with **surprises, system changes**, bifurcations.
- Are an excellent tool for **communication**
- Possibilities for **participation** are large.

Storyline And Simulation approach



Scenarios - Practise



Characteristics of *Global Markets* scenario

Main drivers

Population growth:	low	increase quality of life
Economic development:	very rapid	
Technology development:	rapid	new inventions, but no magic
Environmental attitude:	reactive	no environmental laws and policies
Trade	increase (globalisation)	
Institutional strength	policies help economy	
State of environment	very poor	
Main objective	economic growth	

National scenarios - product

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We expect from you:

A short flip over presentation with that illustrates the state of your nation in a world linked with a given scenario with a selected policy option.

Examples policy options:

- Biodiversity conservation
- Integration with the international market
- Institutional development
- Social sustainable and traditional production

Your scenario should be as specific as possible on one of the selected policy options

Example → biodiversity policy option:

- Extension of protected area system
- Conversion to organic type of farming
- Investing in intensification of agriculture (new technologies)
- Reforestation programmes
- Avoiding land abandonment
- Sustainable use of natural ecosystems

Link with CLUE-s model

Demand:

How much will be the change (in ha) of all major land uses? Clue uses the land use change as demand file

Spatial policies:

New national parks, restricted areas, agricultural development zones

Location characteristics:

Infrastructure (new roads?) = change in accessibility

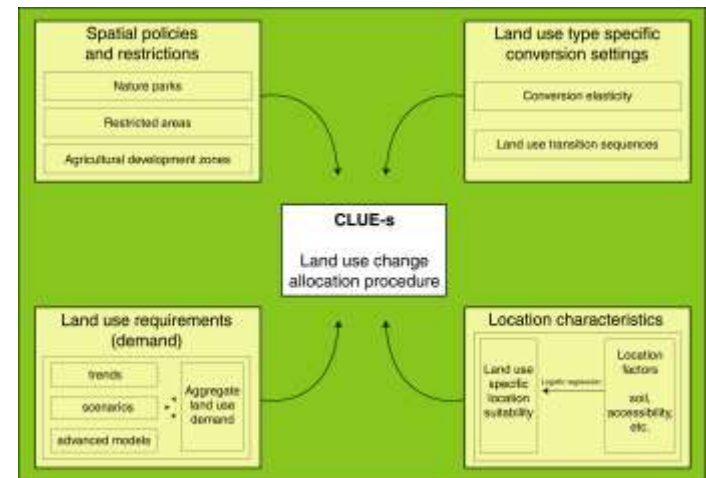
Soil (soil degradation?)

Population (migration because of globalisation?)

Etc.

Conversion settings

Transition possibilities from one land use type to another



National scenarios - essential characteristics

Your scenario should be:

1. Consistent with current national trends
2. Creative!
(do not use global scenario as straitjacket)
3. As specific as possible on your selected policy options
4. Linked with Land use whenever possible
(so it can be used in land allocation model CLUE)

National scenarios - essential elements

Your scenario could have information on:

Factors:

Economic development

Population growth

Consumption pattern

Technology

Environmental Policies

Scientists

Institutions

State of environment

(Biodiversity!)

Sectors:

Agriculture*

Tourism

Energy

Water

Forestry

Protected area

Urban area

etc.

Actors:

Government

Businesses

NGOs

* Share intensive / extensive agr. area

National scenarios - procedure

Total time for exercise about 60 minutes

→ 20 minutes group discussion + writing down.

→ Groups with similar policy option come together and compare/discuss results: 15 minutes

→ 2 groups will be selected to give a 10 minutes presentation + discussion:

- List the important factors, actors, and sectors at present especially the developments for the underlined factors/sectors for two periods: 2011-2020 and 2021-2030
- Discuss the future outlook for your country
- List important changes in terms of land use (= link with CLUE)
- List changes related to your selected policy option; (e.g. biodiversity conservation)

At the end: Presentations 2 groups on flip over with discussion all

Have Fun!