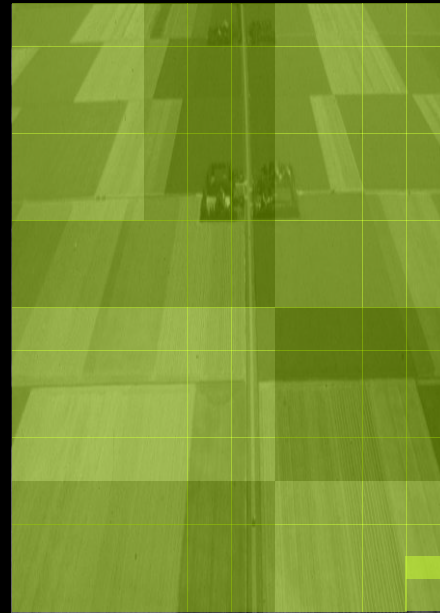


PRELUDE



PRospective Environmental analysis
of Land Use Development in Europe



The PRELUDE project

Project objectives:

To explore **plausible long-term developments in land use** and their effects on the environment.

The land use scenarios to be developed will provide a **context against which the potential of (environmental) policy initiatives** can be judged.

The project participants

Prelude EEA Team

- Overall coordination & implementation

EEA Advisory Committee

- Advises and supports the EEA team

External stakeholder panel

- Develop the scenario storyline

Stakeholder involvement group *(External support)*

- Advises and Facilitates the stakeholder process

Scenario analysis & modelling groups *(External support)*

- Develop the supporting quantitative analyses

Why land use scenarios?

First Expert Meeting (Jun 2002)

Second Expert Meeting (Nov 2002)

Project Plan (2003)

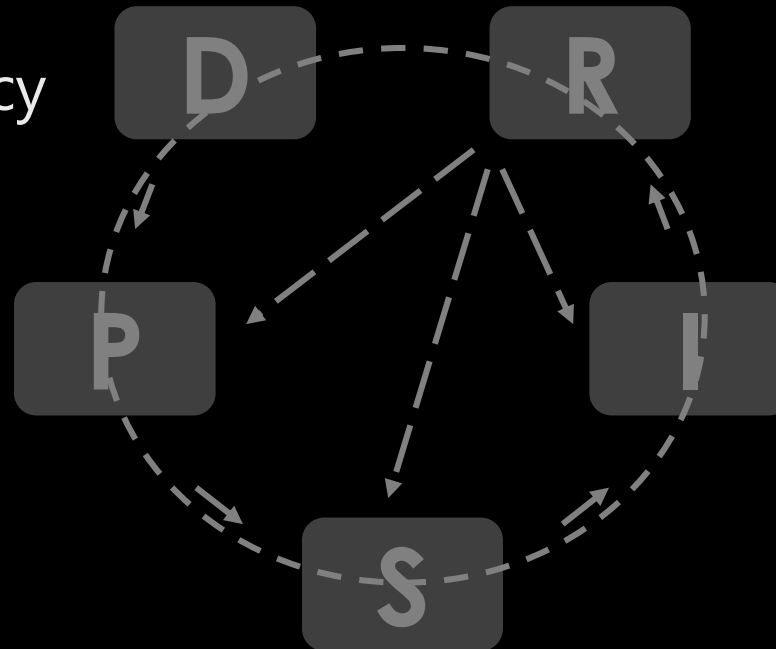
Scenario exercise (2004/05)



Scope

Drivers

Demography
Agricultural Policy
Spatial Planning
Climate Change



Impacts

Biodiversity
Landscape
Water
Air / Climate

Approach

Current Situation



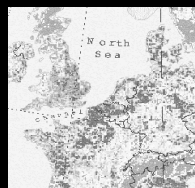
Land use type A
Land use type B
Land use type C

Future



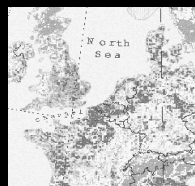
...

(1) What Changes?



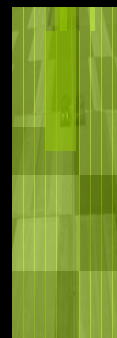
...

(2) Where?

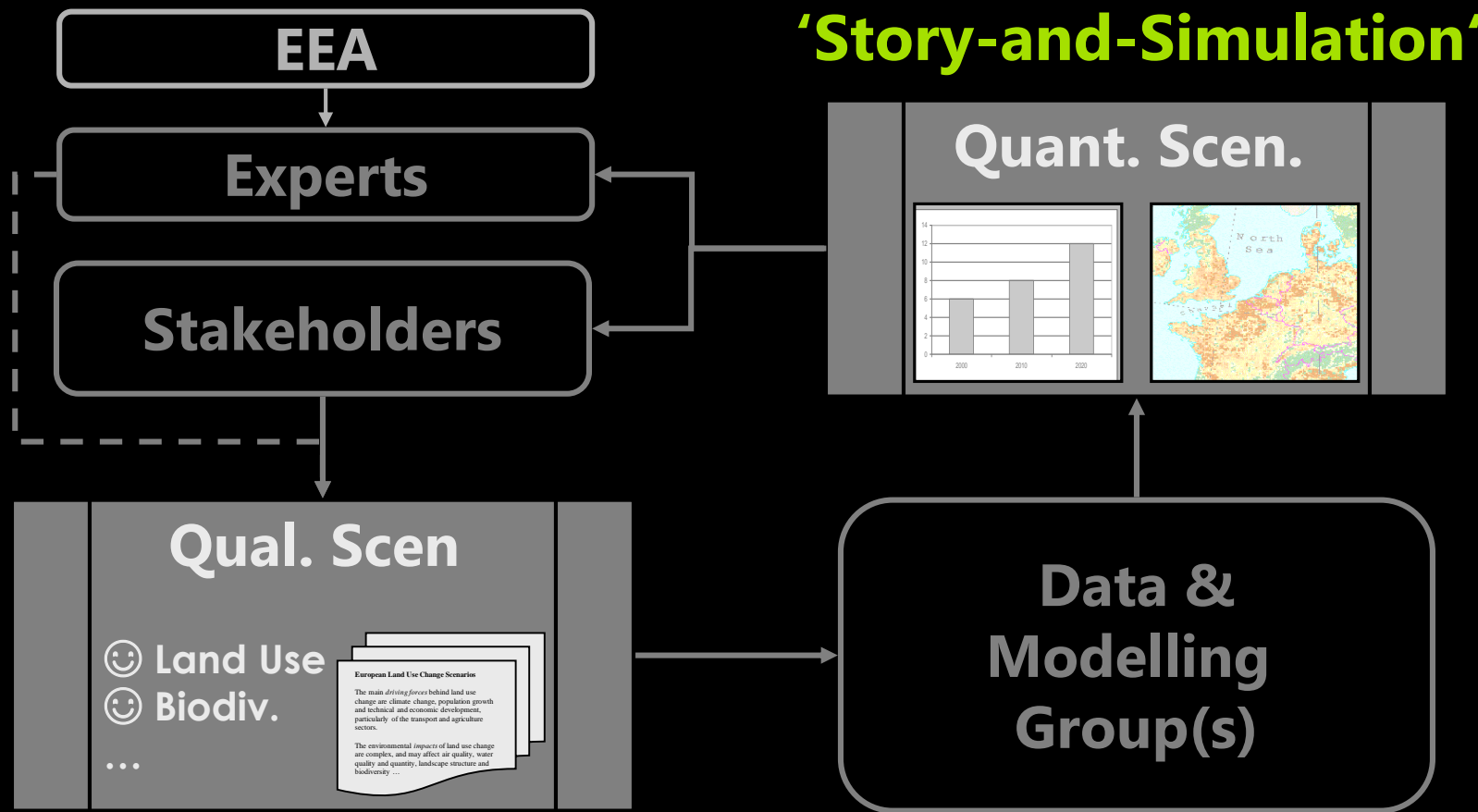


...

(3) Env. Impacts?



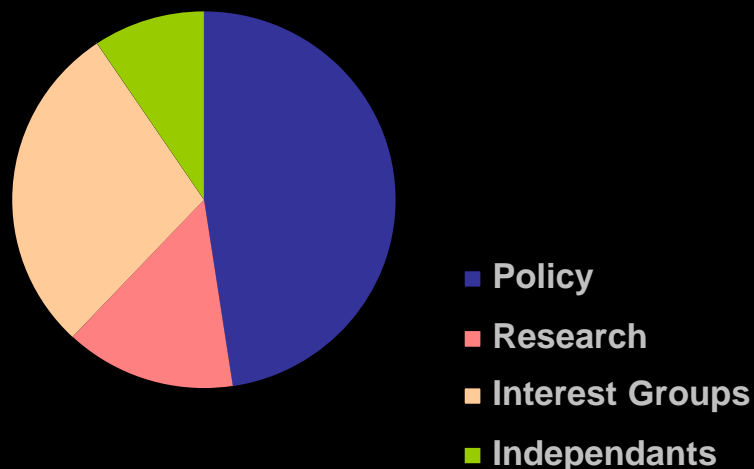
Scenario analysis process



Stakeholder panel

A selected group of more than 20 stakeholders invited to develop scenarios with us.

Group composition:



POLICY

EU-level authorities

National-level authorities

International Organisation

RESEARCH/SCIENCE

Natural Sciences

Social Sciences

Information Technology

INTEREST GROUPS

Business/Industry

Agriculture/Forestry

NGOs: Nature, Culture, ...

INDEPENDANTS

Key Drivers (discussed vs models)

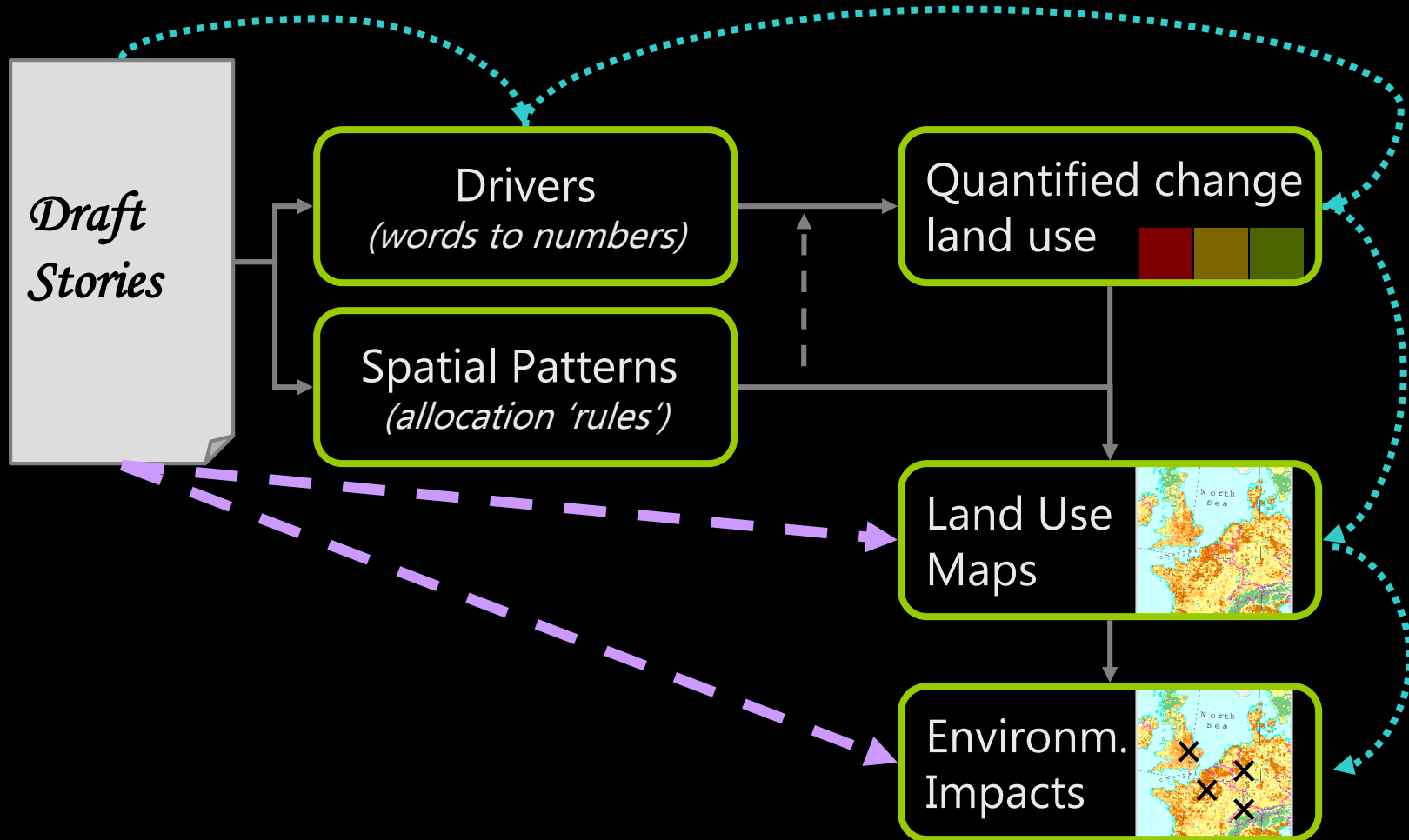
KEY DRIVERS DISCUSSED

- **Governance**
- Mobility & Connections
- **Health**
- **Food**
- Natural Resources
- **Climate Change**
- **Geopolitics**
- **Demographic Change**
- Jobs & Economic Well-being
- **Social Values**
- **Energy Supply**
- Demand for Quality of Life
- Technology (Growth / Change)
- European Policies
- **Extreme Events**

KEY DRIVERS IN MODELS AT HAND

- Change in Population
- Change in GDP
- Change in demand for agricultural goods
- Self Sufficiency ratio
- Atmospheric CO2 concentration
- Climate Change (Temp / Precipitation)
- Change in crop yields
- Biofuels (and area used for)
- Change in forest area
- Quantity, usage and types of protected area
- New use for surplus land or unmanaged areas

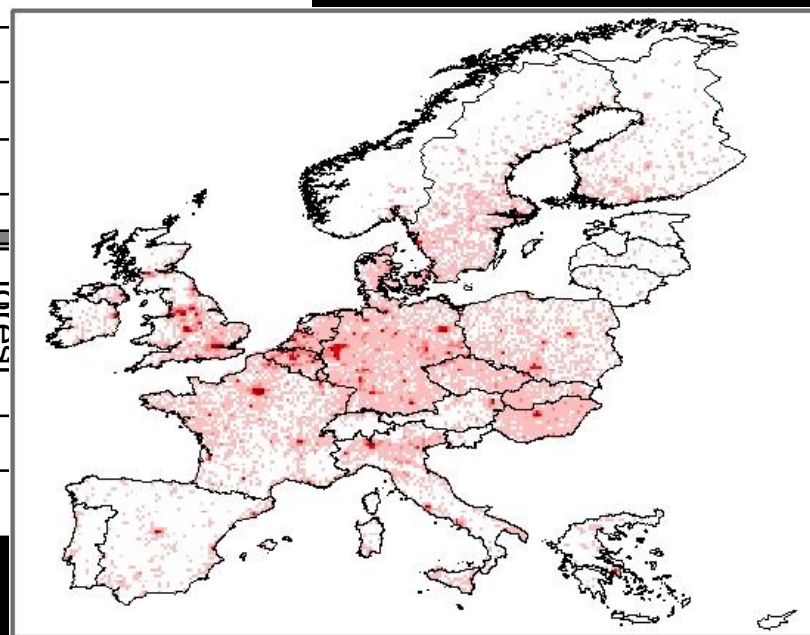
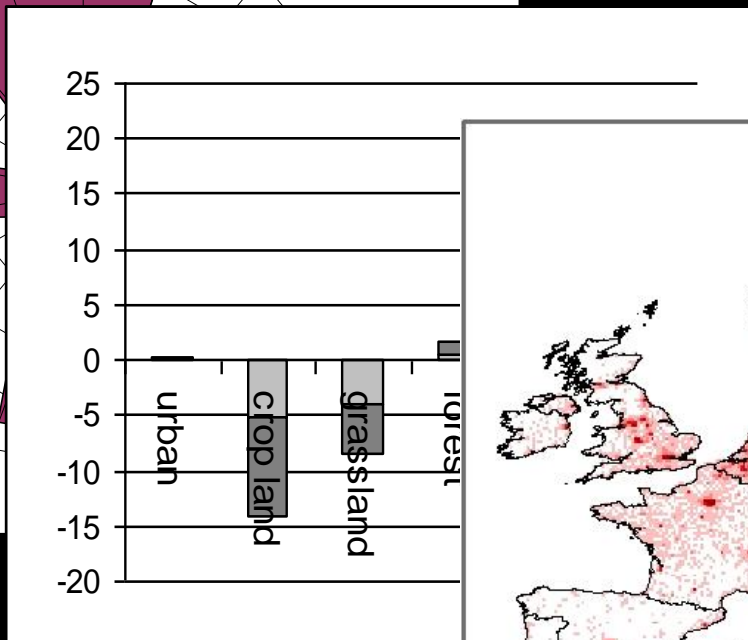
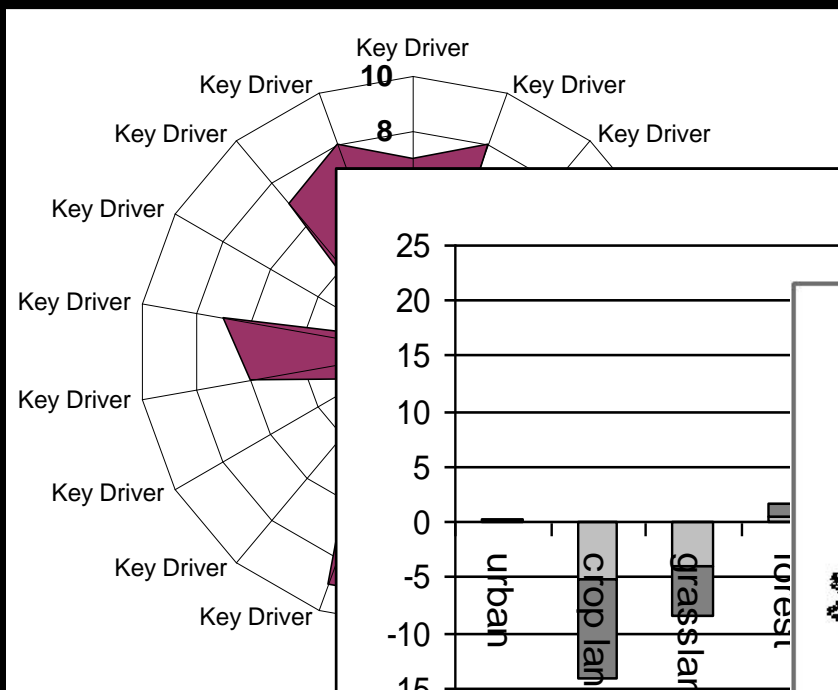
How to quantify the scenarios



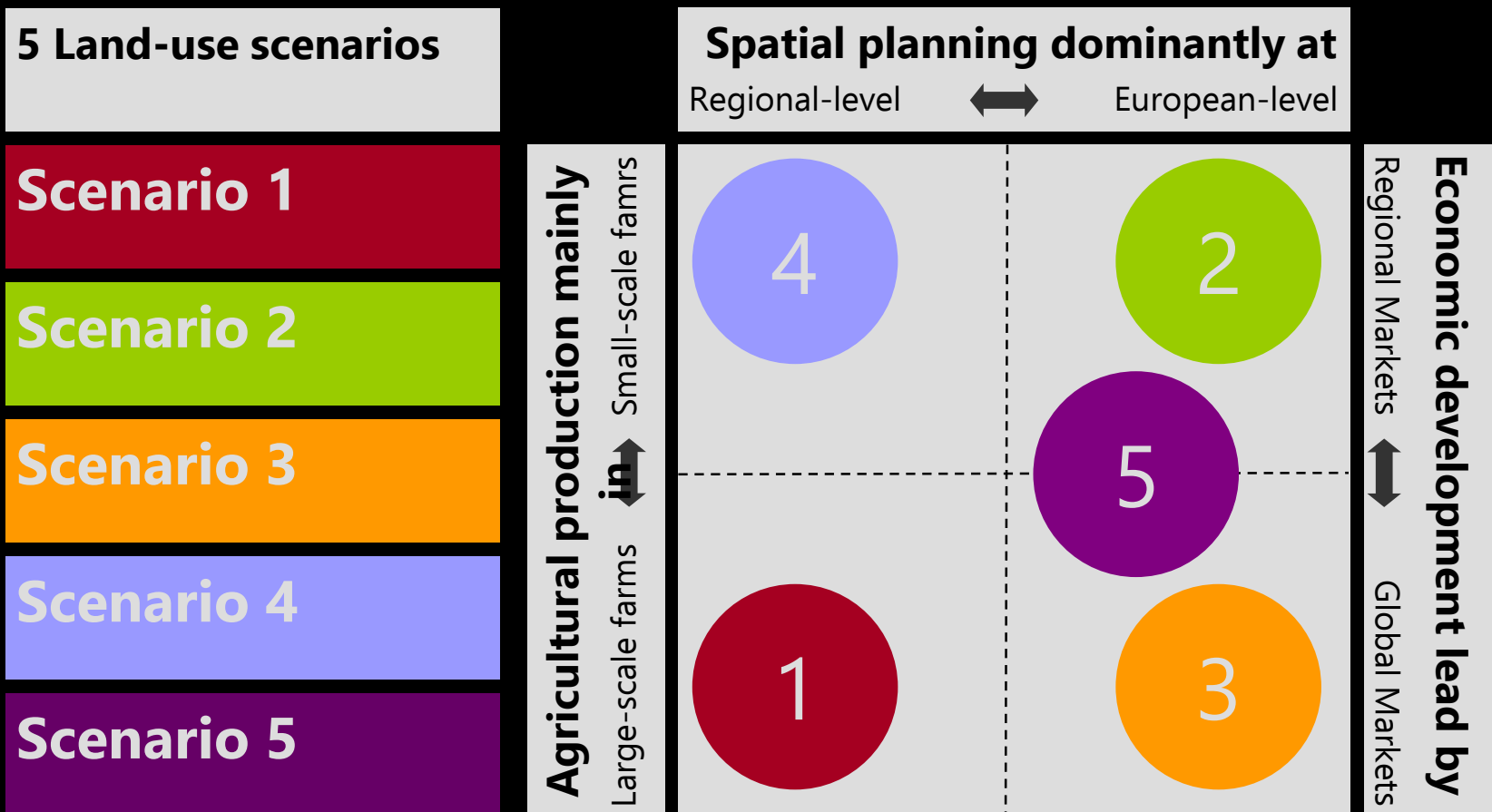
Stories to Simulation

Scenario 1

The year is 2030 and Maria is 45 years old. ... Thirty years earlier, in the year 2000, Maria is 15 years old and lives on a small farm in Poland' ... The promise of enlargement turned out to be empty for ... and an impending budgetary crisis meant Germany's refusal to continue ...



Five European Scenarios





Conclusions

- Advantages
 - high degree of ownership among stakeholders
 - encourages 'out-of-the-model' thinking
 - facilitates strategic follow-up of outcomes

- Drawbacks
 - quantification is not straight-forward
 - time- and resource-intensive process

