# A framework for participatory analysis of trade-offs in landscape planning

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Wageningen University

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# Structure of this presentation

- South Africa (Giyani) Project and EU Sensor Project
- Framework for participatory analysis
- Method to apply the framework
- Research questions



#### RURAL DEVELOPMENT PROJECT IN THE GREATER GIYANI AREA

(SOUTH AFRICA)







This project aims to alleviate poverty and restore the ecosystem through a sustainable rural development plan

#### **Objectives**

- Identification of options for sustainable development of the area while taking into account competing interests
- Assessment of the ecological, social, economic consequences of possible options
- Identification of preferred option for development of the area



#### **STUDY AREA:**

- North East of Greater Giyani Municipality
- 12 Villages adjacent to Kruger National Park
- Extension: 450 km2
- Degraded dry savanna
- Very low socio-economic and ecological conditions





# **Sustainability Impact Assessment Tools**

for Environmental, Social and Economic Effects of Multifunctional Land Use in European Regions

#### **Key Objective**

Develop science based forecasting instruments to support decision making on policies related to land use in European regions

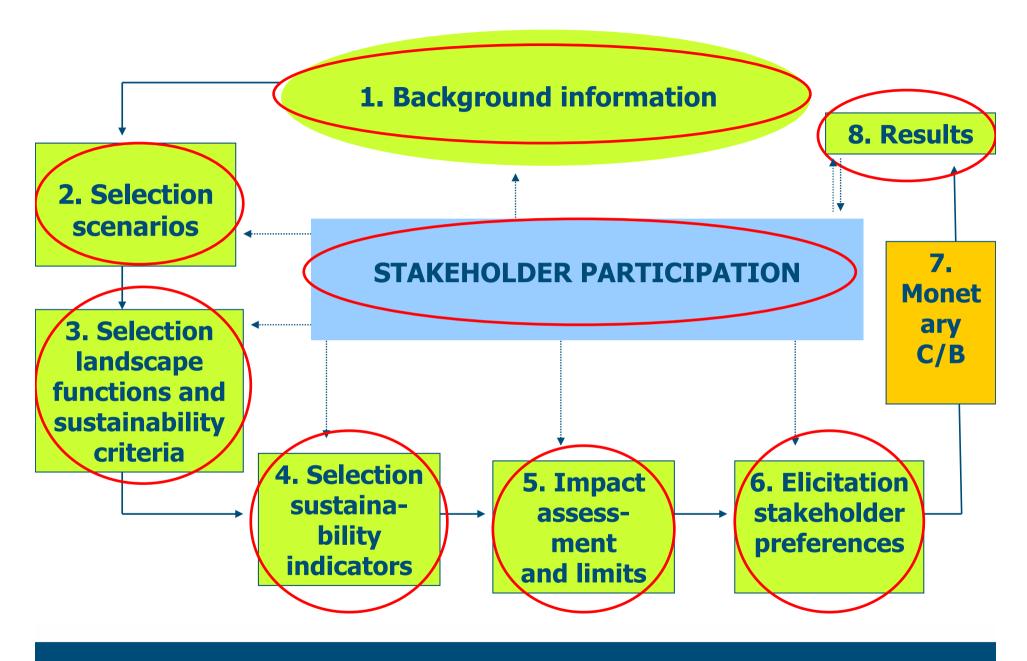
#### **Our role in SENSOR**

Develop a participatory method to assess stakeholder opinions, values and preferences for different policy scenarios

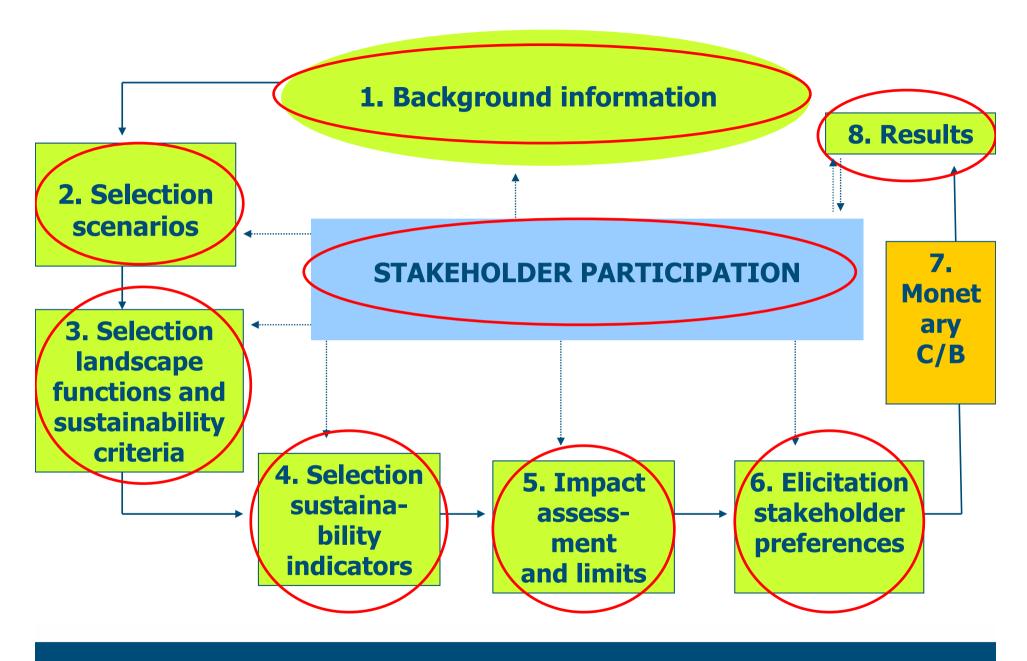
Participatory analysis - stakeholders workshops

Malta (May and Oct. 07); Estonia (Nov. 03-04); Silesia (Nov. 19-20)

http://www.sensor-ip.eu/



# **General framework**



# **General framework**

# 5. Impact assessment and Limits

	Functions	Criteria	Indicators	Unit	Scenario A I M	Scenario B P A C	С	Limits to impacts
soc	Human Health and Recreation	Well being	People accessing the country-side	-3/+3	-3	1	3	-1
ECON	Land based and Non- land based production	Contribution to the economy	capita	-3/+3	3	3	1	2
ENV	Support and Provision of Habitat	Bio- diversity	Quality of habitats	-3/+3	-3	-1	2	-1

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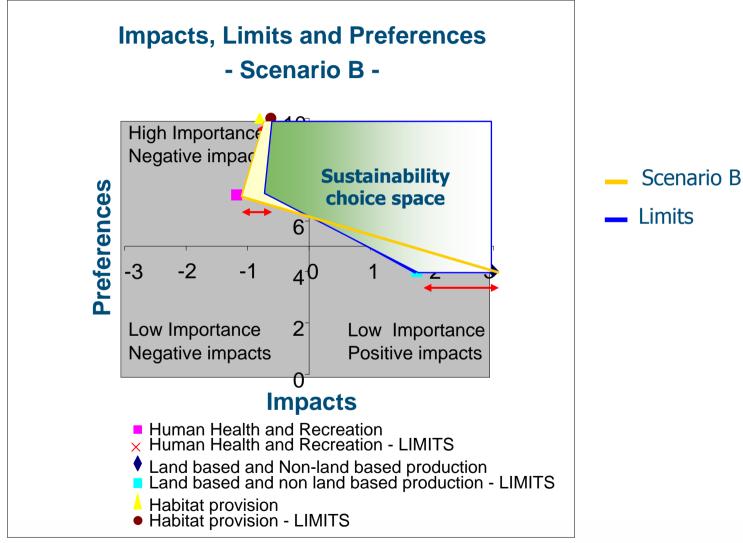
6.
Elicitation of
Stakeholder
preferences

		Functions	Criteria	Worst Perfor mance	Best Perfor mance	Potential Benefit	Preferences (0-10)	Weights	Euro per unit	Potential benefit in <b>Euro</b>
;	soc	Human Health and Recreation	Well being	ကု	3	6	7	0.33	787	4725
	ECO	Land based and Non- land based production	Contribution to the economy	3	1	2	4	0.19	1	2700
	ENV	Support and Provision of Habitat	HIO-	-3	2	5	10	0.48	540	2800

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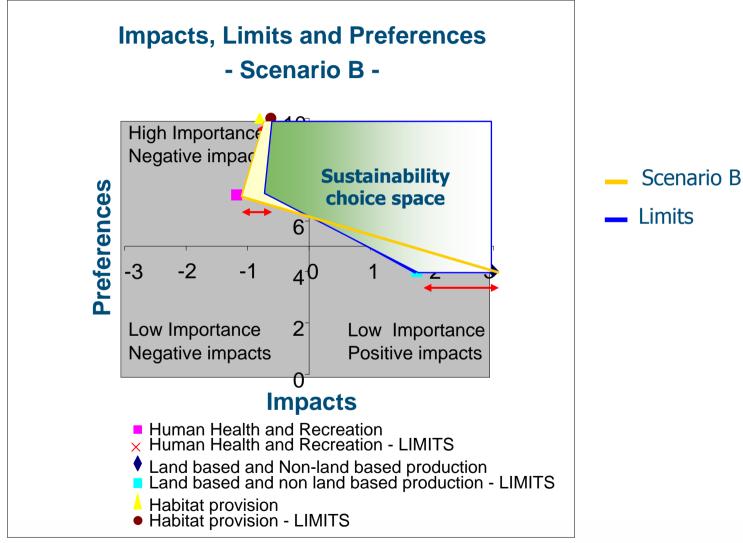
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#### - Results (example) -

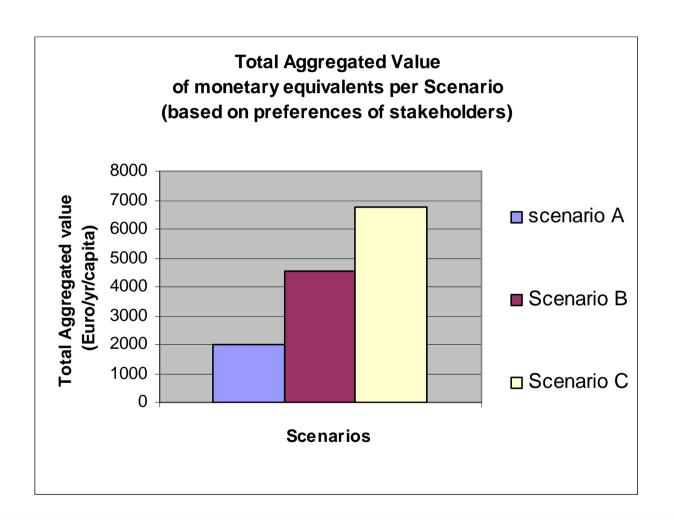




#### - Results (example) -









# Research questions to be further investigated

- How to assess preferences of stakeholders in a democratic manner?
- How to support construction of preferences?
- How to combine MCA with CBA?
- How to translate non-monetary costs and benefits into monetary terms?



# **THANK YOU for the attention!**

