

PROJECT SOUTOK

AN ECOSYSTEM SERVICES ASSESSMENT

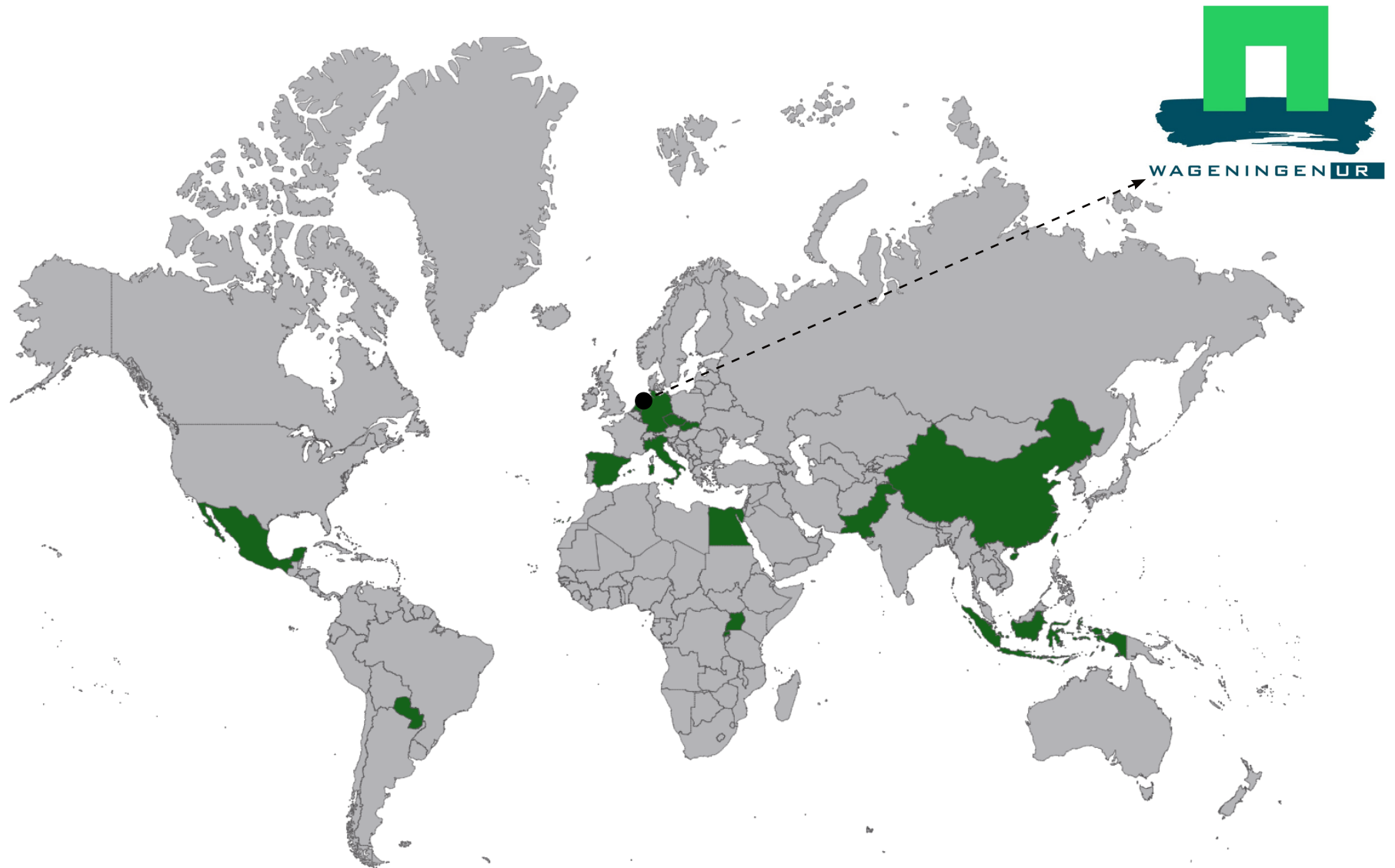


15.06.2017, PRAGUE

WHO ARE WE



WHERE ARE WE FROM



OUR EXPERTISES

LAND USE PLANNING **CLIMATE STUDIES**
POLICY **ENVIRONMENTAL TECHNOLOGY**
LEISURE, TOURISM & ENVIRONMENT

ENVIRONMENTAL SCIENCES
LANDSCAPE ARCHITECTURE **SOIL**
URBAN ENVIRONMENTAL MANAGEMENT

PROJECT GOAL

The identification, description and analysis of the ecosystem services in the area of Soutok and the analysis of their current and potential use by local communities and the city of Prague.

ECOSYSTEM SERVICES



PROVISIONING



REGULATING



CULTURAL



HABITAT



OBSERVATION

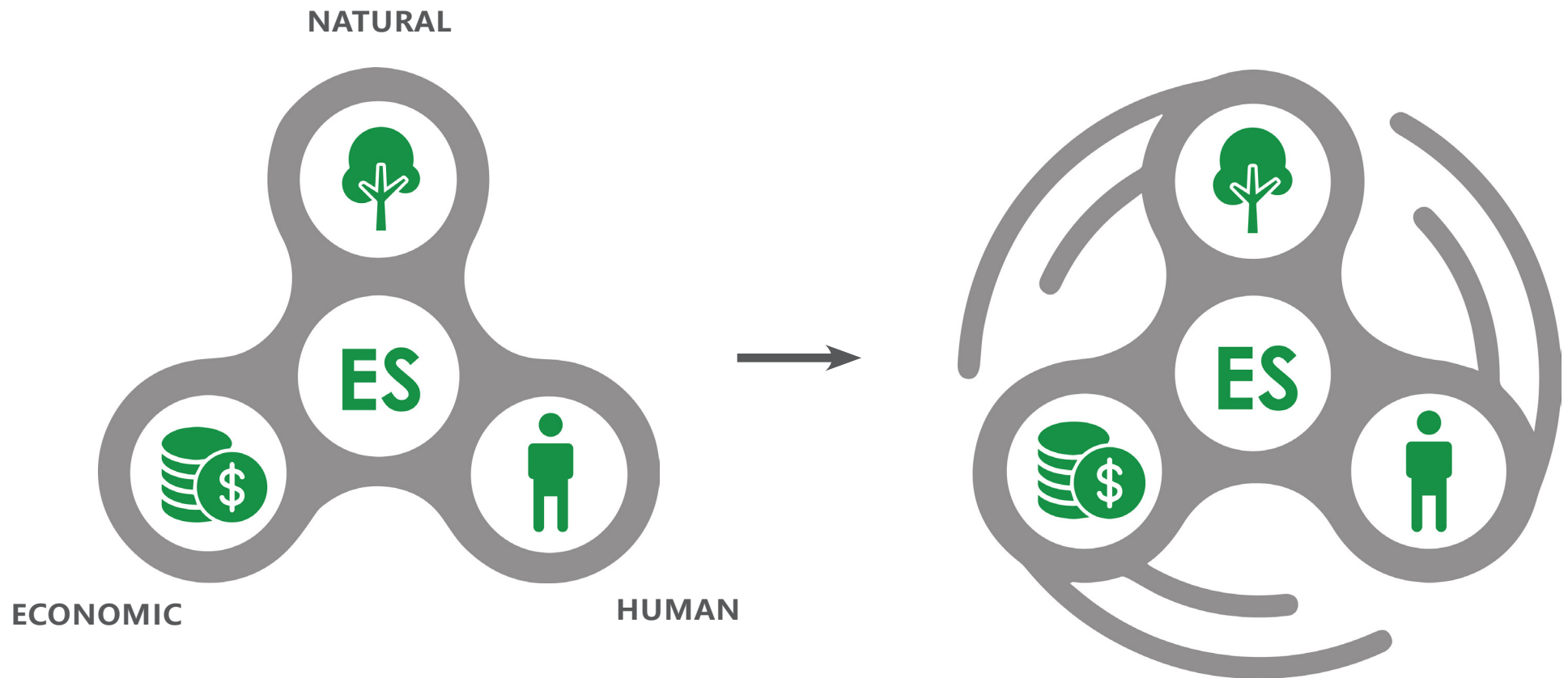


INTERVIEW



QUESTIONNAIRE

SPINNER MODEL



A person with short brown hair, wearing a dark shirt, is kneeling on the grassy bank of a river. They are holding a clipboard and writing with a green pen. The river is calm, reflecting the sky and the surrounding greenery. In the background, there are trees and some buildings on the opposite bank. The scene is bright and sunny.

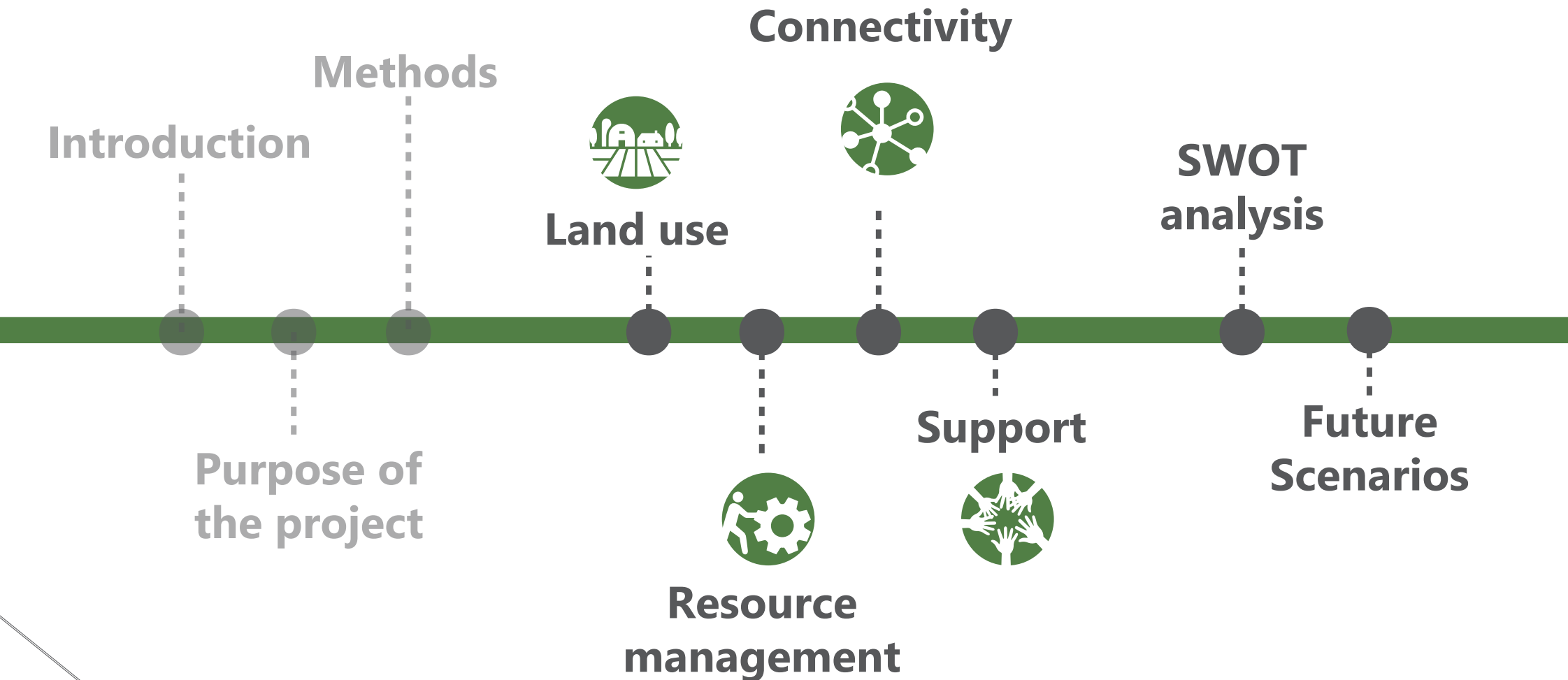
AT THE END OF THE PRESENTATION, YOU WILL KNOW...

... MORE ABOUT ECOSYSTEM SERVICES IN THE AREA

**... HOW ECOSYSTEM SERVICES CAN BE USED TO DEVELOP THE
SOUTOK AREA**

**... ABOUT FOUR POSSIBLE FUTURE SCENARIOS TO DEVELOP THE
SOUTOK AREA**

CONTENT





LAND USE

LAND USE

Definition: Function that humans apply to a certain piece of land

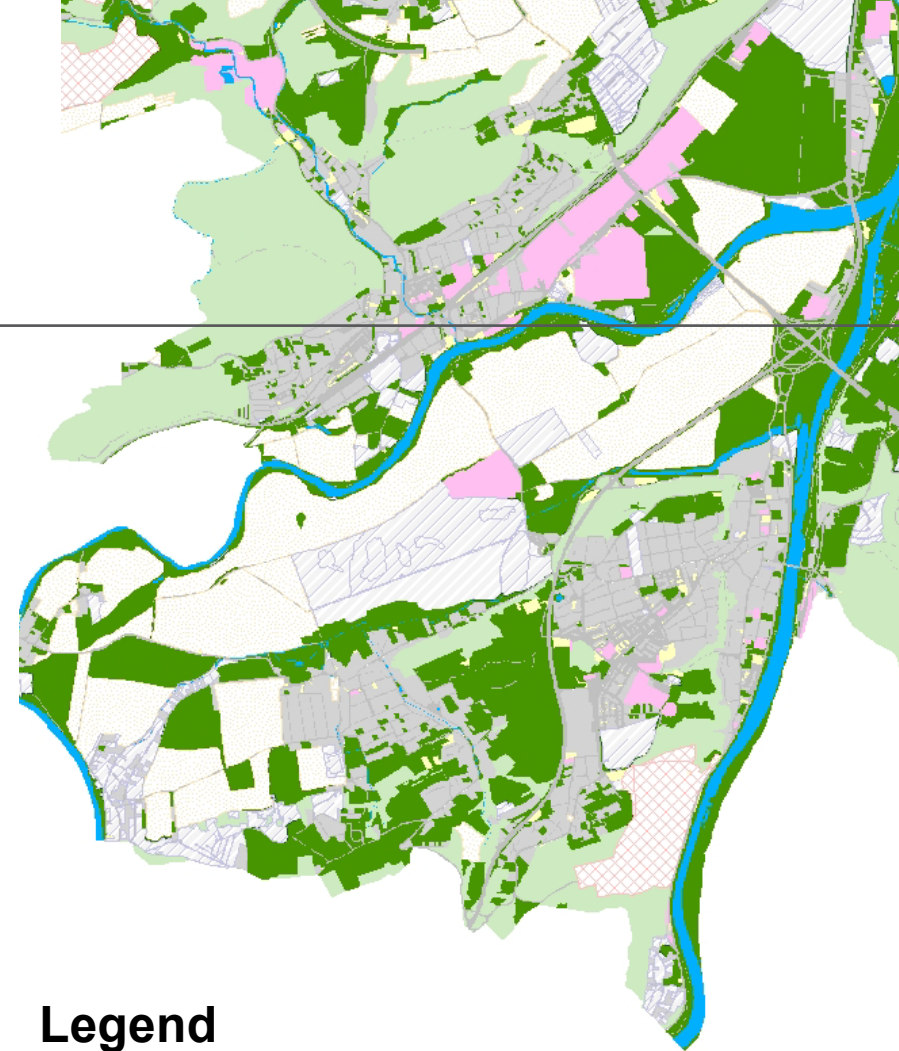
Analysis of land use in the Confluence Park

- Current Situation
- Relation with ecosystem services
- Possible development










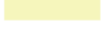


CURRENT STATUS

- Master plan outdated
- Difficulties for planning because of...
 - ...complex power structures
 - ...conflicting policies
 - ...different interests
 - ...different opinions
 - ...some landowners are not actively involved
- Fragmentation of land
- Land not efficiently used e.g. abandoned land



Legend

	Abandoned Area		Transport
	Water		Recreation
	Buildings		Business
	Forest		Mining
	Agricultural land		Other

CONNECTION TO ES

+ Crop production

- Monoculture

+ Sports

- Threatened by human activity

+ Job possibilities for locals

- Water, air and noise pollution

+ Access to the area

- Air and noise pollution



+ Climate regulation

+ Habitat

+ Habitat

+ Recreation possibility

- Physical barrier

+ Habitat

+ Flooding space

POSSIBLE DEVELOPMENTS

THE INFLUENCE OF POSSIBLE DEVELOPMENTS ON ECOSYSTEM SERVICES

Example 1: Change character of agriculture

Example 2: Allow gravel mining

Example 3: Make use of abandoned land

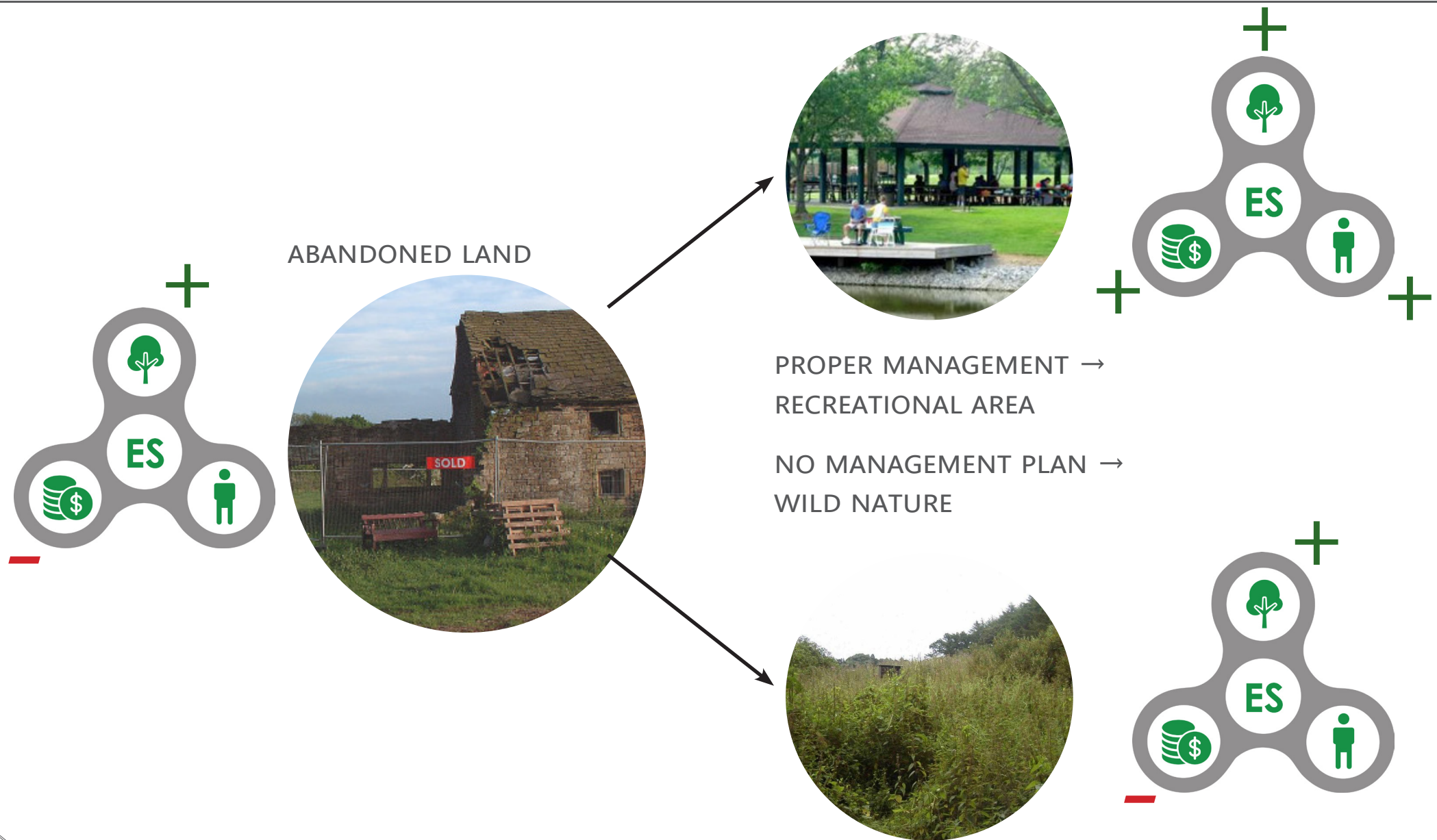
EXAMPLE 1: CHANGE CHARACTER OF AGRICULTURE



EXAMPLE 2: ALLOW GRAVEL MINING



EXAMPLE 3: MAKE USE OF ABANDONED LAND





RESOURCE MANAGEMENT

RESOURCE MANAGEMENT

Management of resources present in the area to promote sustainable use of ecosystem services

1. Main Resources and Relations of Ecosystem Services with:
 - River and Flood Area
 - Soil and Groundwater
 - Flora and Fauna
 - Financial Resources
2. Integrated Resource Management



RESOURCES

1. River and Flood area

- Flood protection
- Channelization
- Recreation
- Transport



2. Soil and Groundwater

- Mining
- Agriculture



RESOURCES

3. Flora and Fauna

- Recreation
- Agriculture
- Conservation



4. Finance

- Local businesses/Private investment
- Funding
- Municipalities/City budget
- Individuals



INTEGRATED RESOURCE MANAGEMENT

To manage the valuable resources in the area in a more efficient way and optimise the use of available resources



1. Awareness of Resources

2. Proposed Objective

Different governmental levels represented in a Confluence Project Team

3. Proposed Strategies

Resource managers provide input to Confluence Project Team



CONNECTIVITY

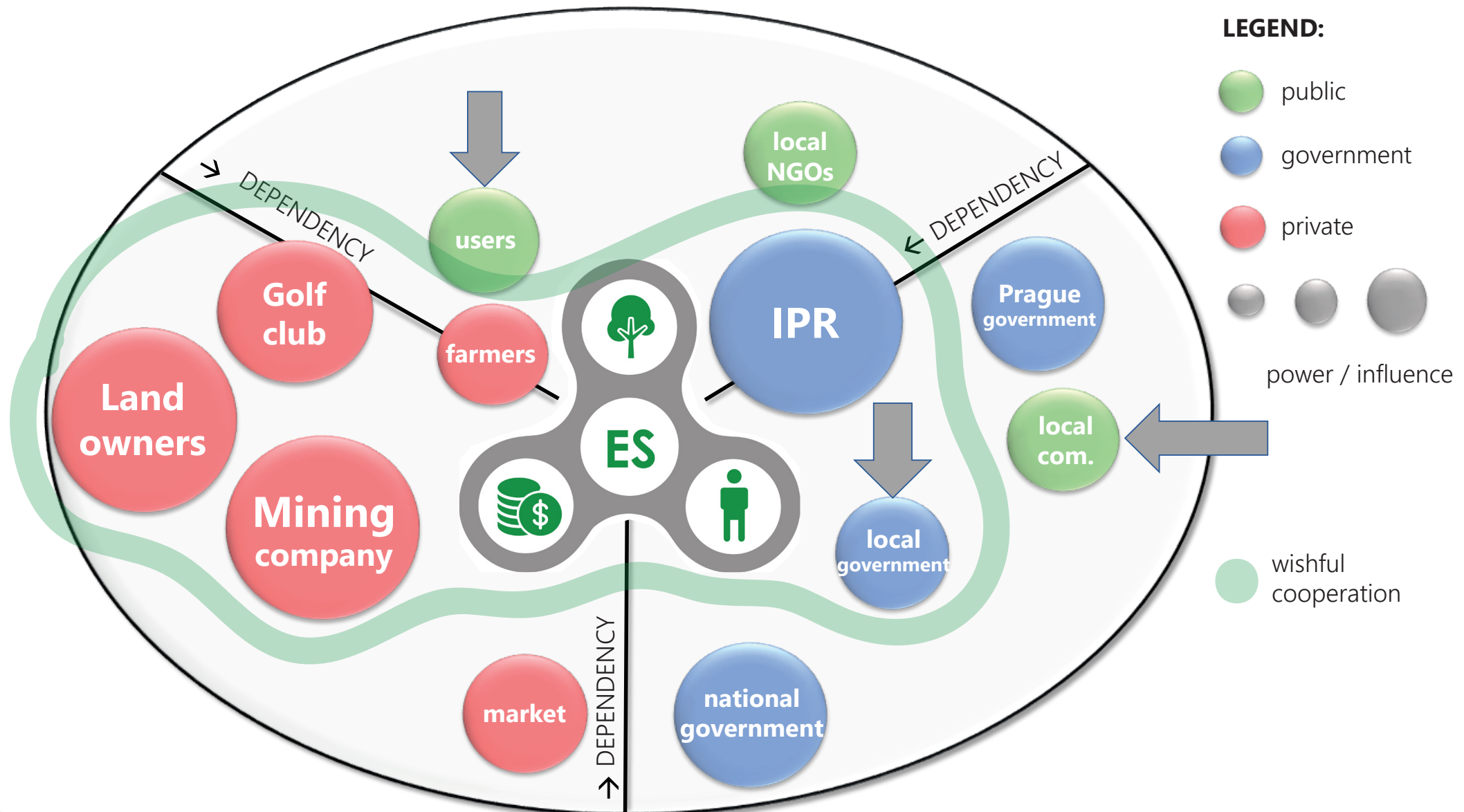
CONNECTIVITY

The state and quality of links between different aspects in the area, being:

- Stakeholders
- Physical connectivity
- Ecological connectivity
- Social cohesion



STAKEHOLDER CONNECTIVITY



PHYSICAL CONNECTIVITY



ECOLOGICAL CONNECTIVITY

DISCONNECTED FOREST
PATCHES



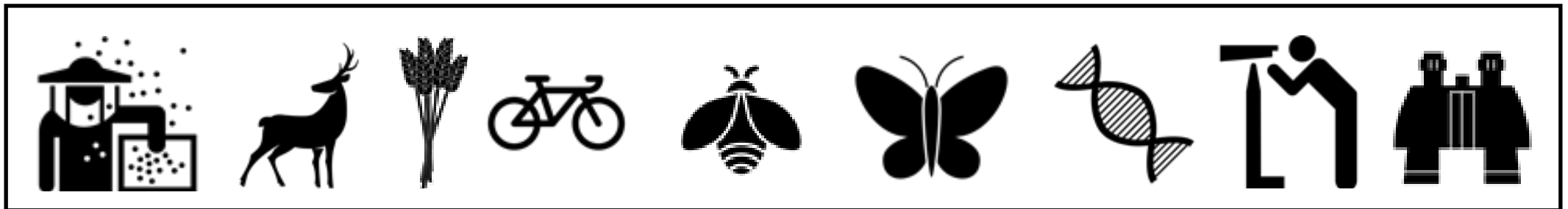
EXTENSIVE
MONOCULTURAL
CROPLAND



DISCONTINUOUS RIVER
CORRIDOR



INFRASTRUCTURE
DEVELOPMENT

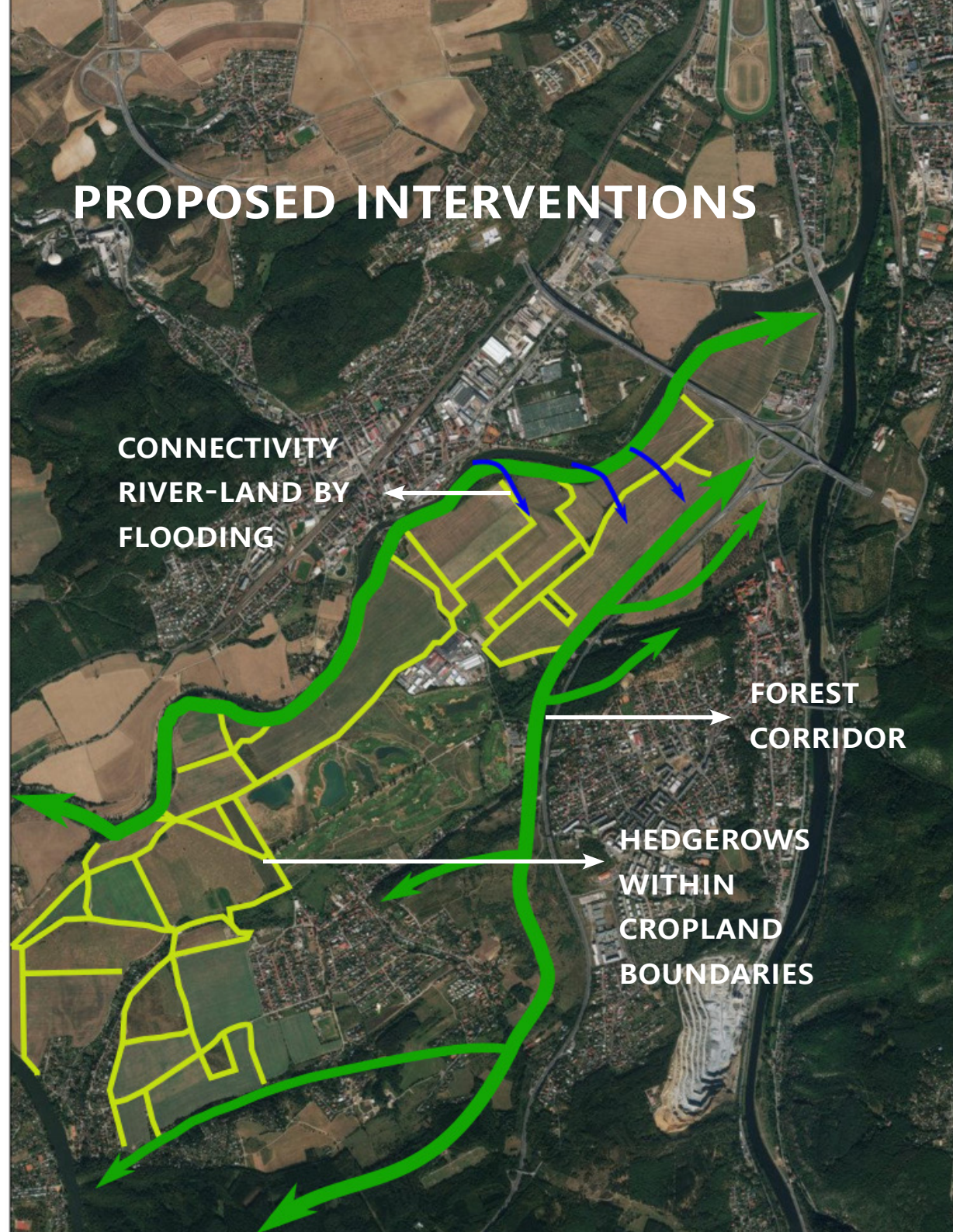


PROPOSED INTERVENTIONS

CONNECTIVITY
RIVER-LAND BY
FLOODING

FOREST
CORRIDOR

HEDGEROWS
WITHIN
CROPLAND
BOUNDARIES



ES



SOCIAL COHESION



Current situation

- Association for local people
- Local activities
- Lack of events for social bonding
- Recreational infrastructure

ES



SOCIAL COHESION



Future situation

- More recreational infrastructure
- Better accessibility
- More local business activities
- Organisation of social bonding events
- More educational activities



SUPPORT

SUPPORT

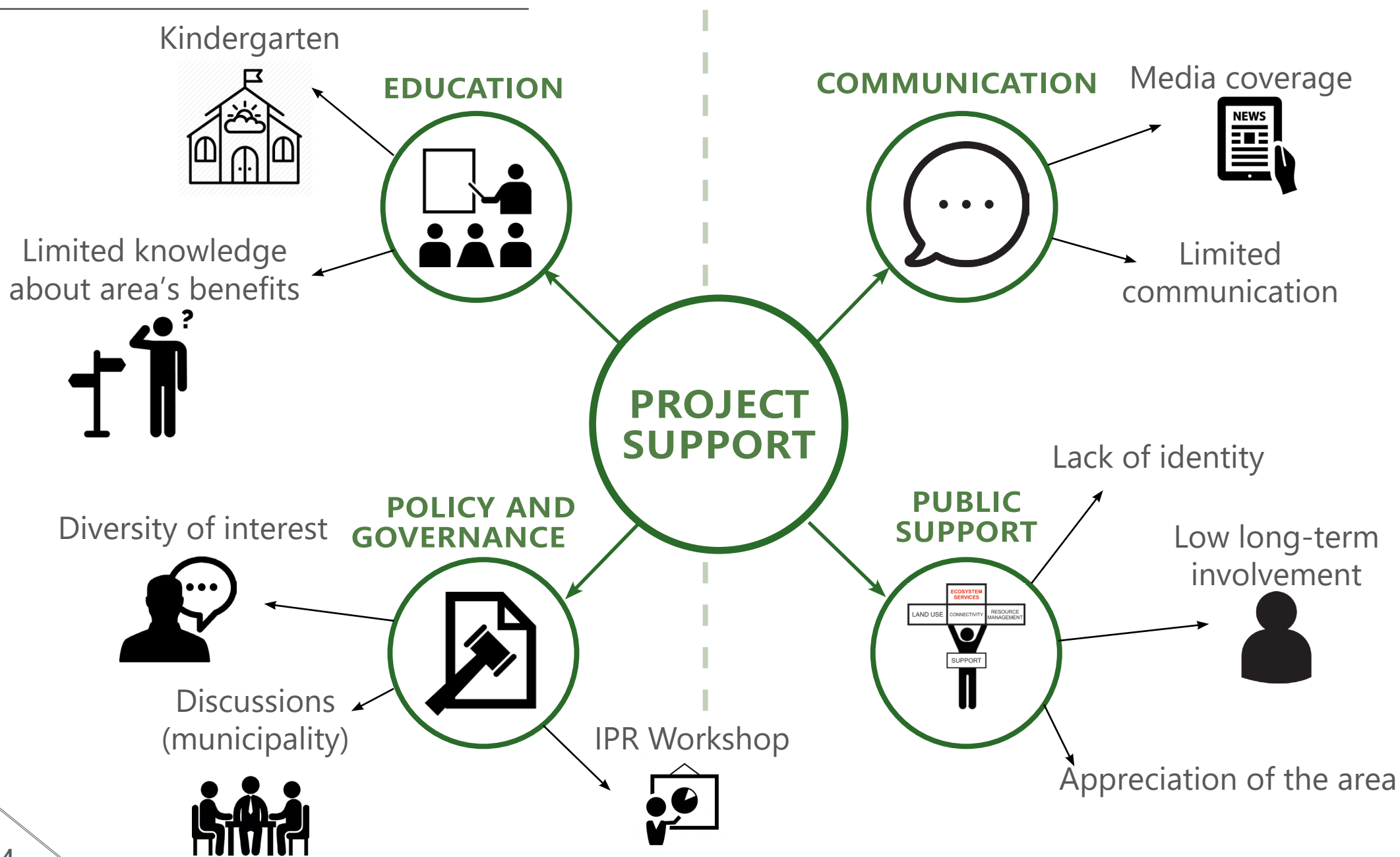
*How to let people appreciate and affirm
the value of the area*

SUBTHEMES

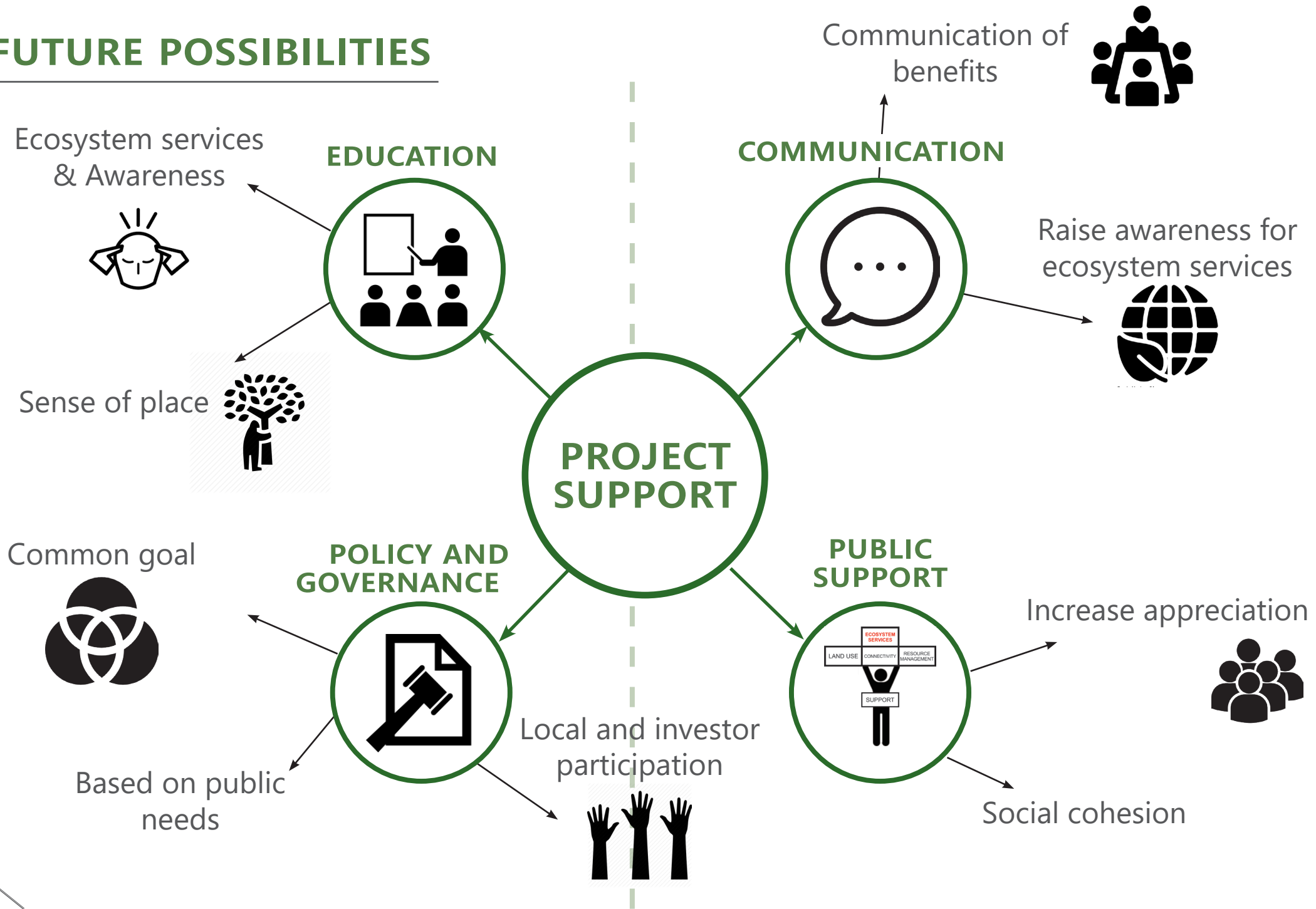
- Communication
- Education
- Policy and Governance
- Public support



CURRENT SITUATION

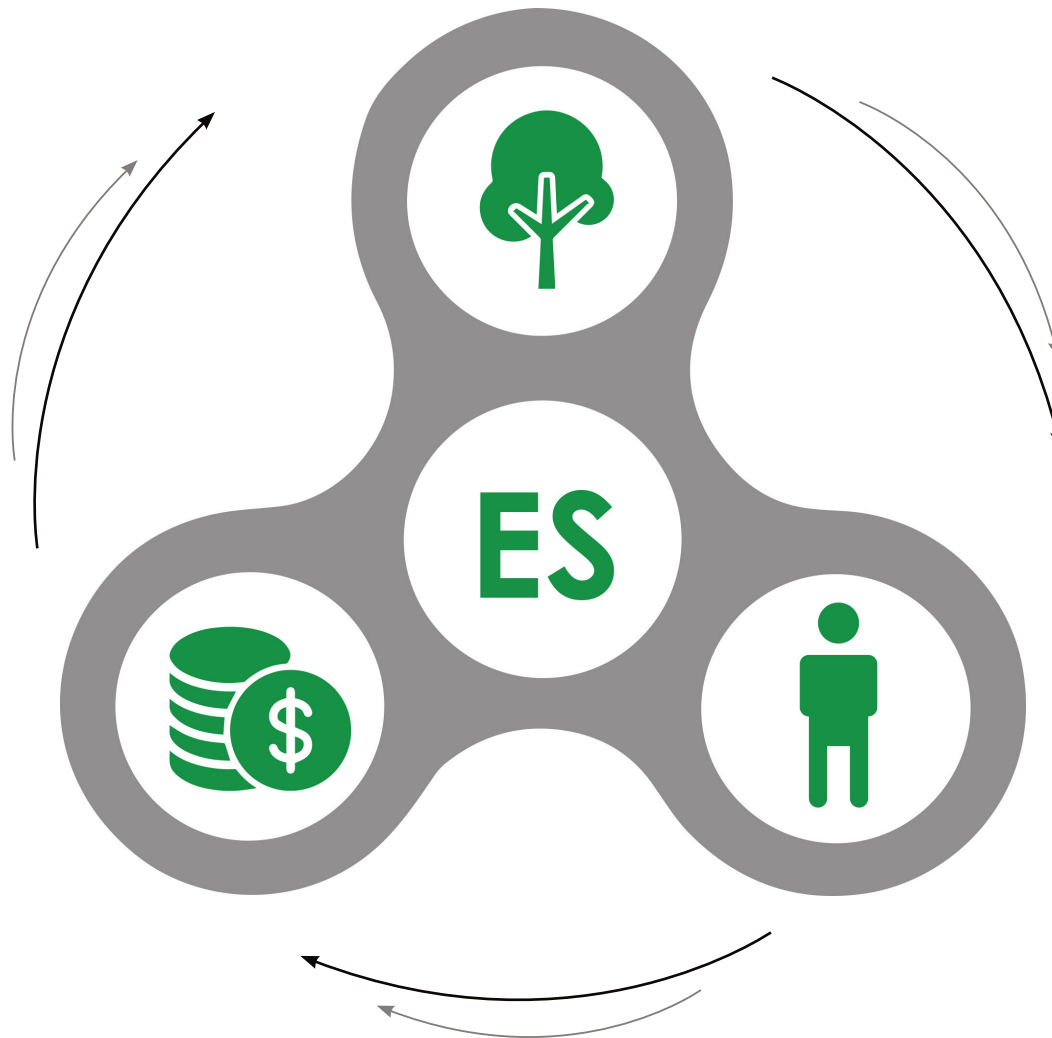


FUTURE POSSIBILITIES



RELATION TO ECOSYSTEM SERVICES

Support is essential to move the fidget spinner!



A topographic map of a region in the Czech Republic, featuring various towns and geographical features. The map is rendered in a light gray tone with black outlines for administrative boundaries and roads. The text "SWOT-ANALYSIS" is prominently displayed in the center in a bold, dark green font. Several place names are visible on the map, including Řeporyje, Holýň, Slivenec, Zadní Kopanina, Lochkov, Radotín, Hlubočepy, Malá Chuchle, Vědká Chuchle, Braník, Hodkovičky, Modřany, and Lahovice. The map also shows a river flowing through the region and various shaded areas representing different land uses or terrain types.

SWOT-ANALYSIS

SWOT (STRENGTH, WEAKNESS, OPPORTUNITY, THREAT) ANALYSIS

Provision agricultural production

Regulation flood protection, climate regulation, pollination, erosion control

Cultural recreation & aesthetic

Habitat biodiversity hot spot & fertile soil

under used area

housing in flood area

dump sites & difficult accessibility to recreation

monofunctional land use decreases biodiversity

Provision

Regulation

Cultural

Habitat

S W

O T

Provision food harvesting

Regulation

Cultural environmental education

Habitat revitalization of mining and abandoned area, small scale agriculture, habitat connectivity

overuse leads to agricultural production decrease

poor management decreases flooding protection

overcrowding of recreational area

pollution leads to loss of biodiversity

Provision

Regulation

Cultural

Habitat



FUTURE

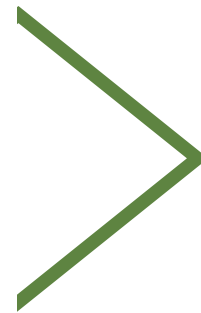
FUTURE

A tool to see the possible future scenarios that can help stakeholders in creating future plans



FACTORS

Land use planning
River management
Land ownership
Public/private investment



Drivers
Resource regulation

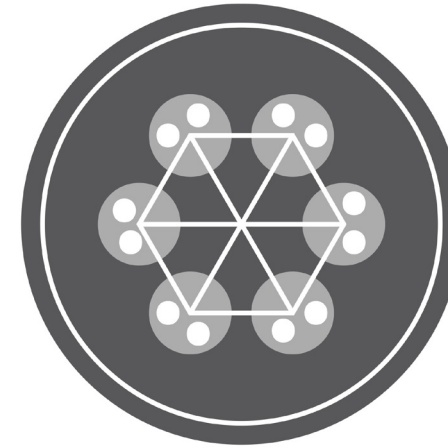
Social cohesion
Accessibility
Abundance of green spaces
Availability of recreational infrastructures



Effects
Social and physical
connectivity

CONNECTIVITY

connected



CHARLES BRIDGE
Uniting



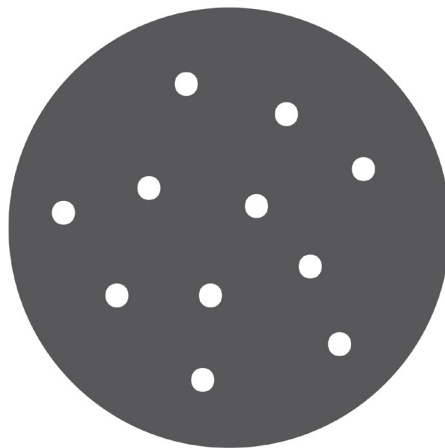
ASTRONOMICAL CLOCK
Network

RESOURCE REGULATION

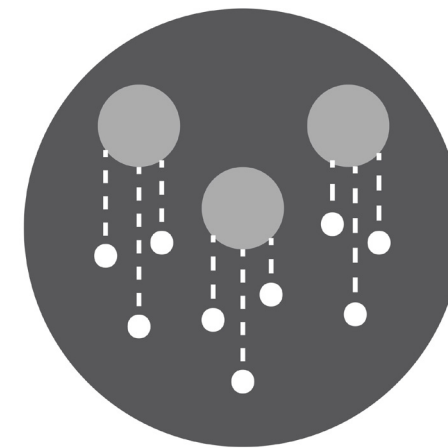
laissez faire

intervening

FLEA MARKET
Freedom



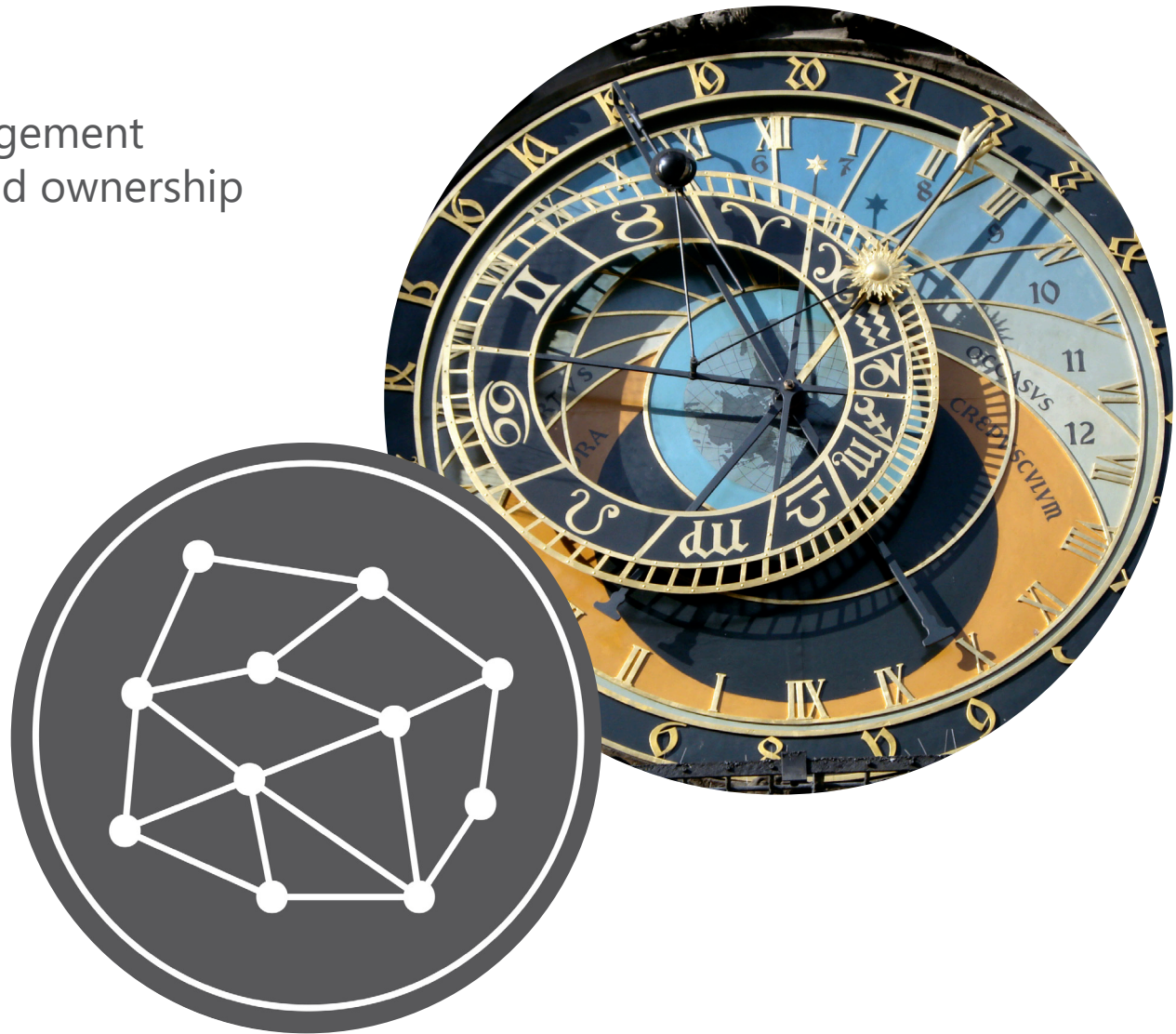
PRAGUE CASTLE
Steering



disconnected

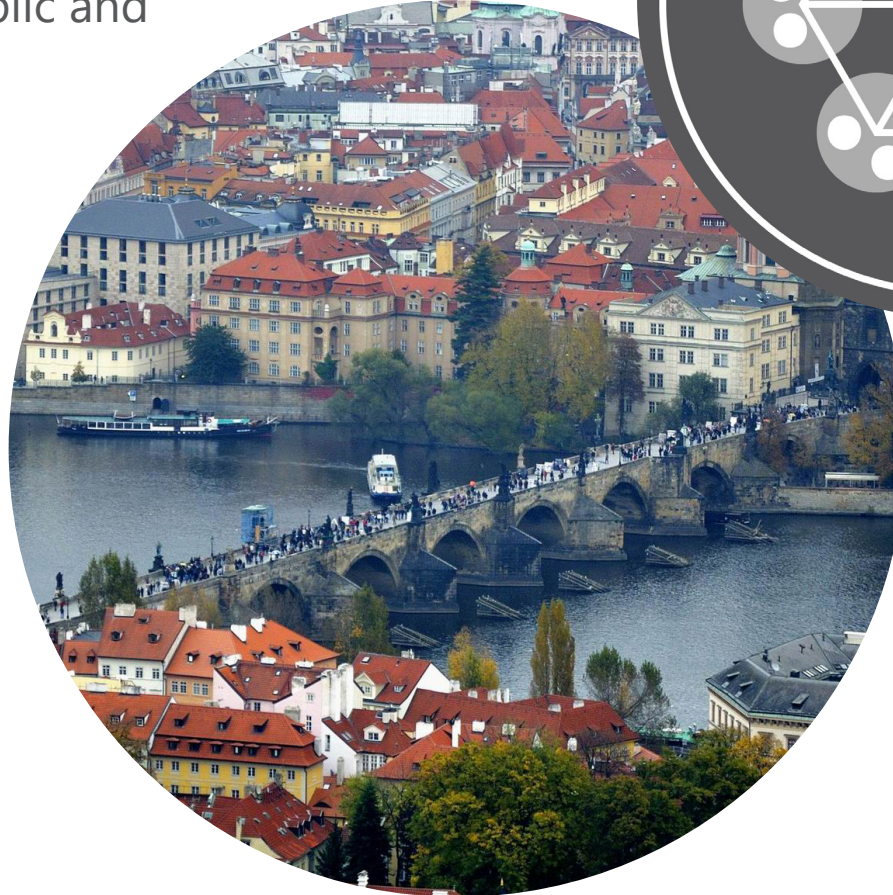
ASTRONOMICAL CLOCK

- Bottom-up planning
- Self-organized river management
- Community orientated land ownership
- High private investment



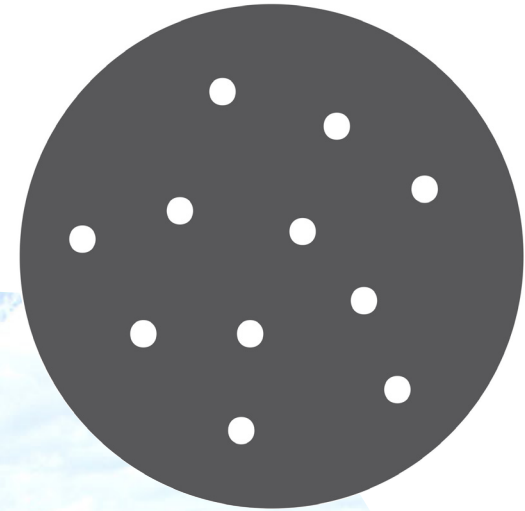
CHARLES BRIDGE

- Collaborative planning
- Inclusive river management
- United land ownership
- Equal investment of public and private parties



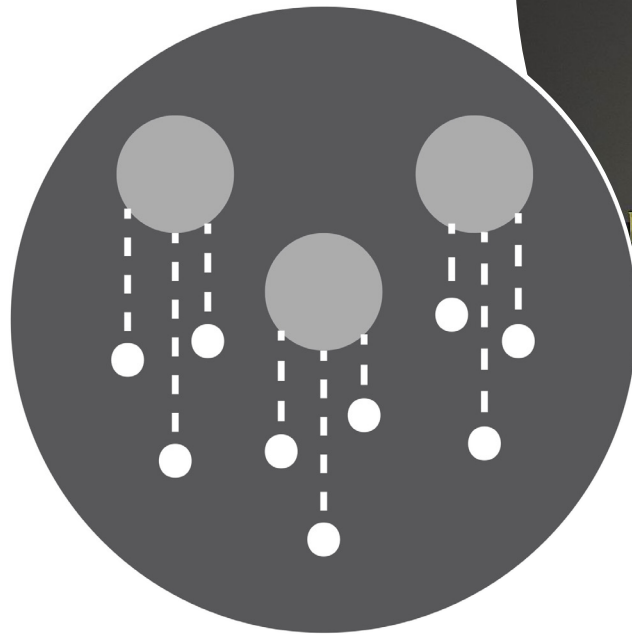
FLEA MARKET

- Step-by-step planning
- Fair river management
- Dispersed land ownership
- Less need for investments and subsidies of public and private parties
- Opportunity to pursue their own goals



PRAGUE CASTLE

- Top-down planning
- Exclusive river management
- Individual oriented land ownership
- High public investment





CONCLUSION

CONVERSATION

CONTEXT

CONSENSUS

CONVENTION

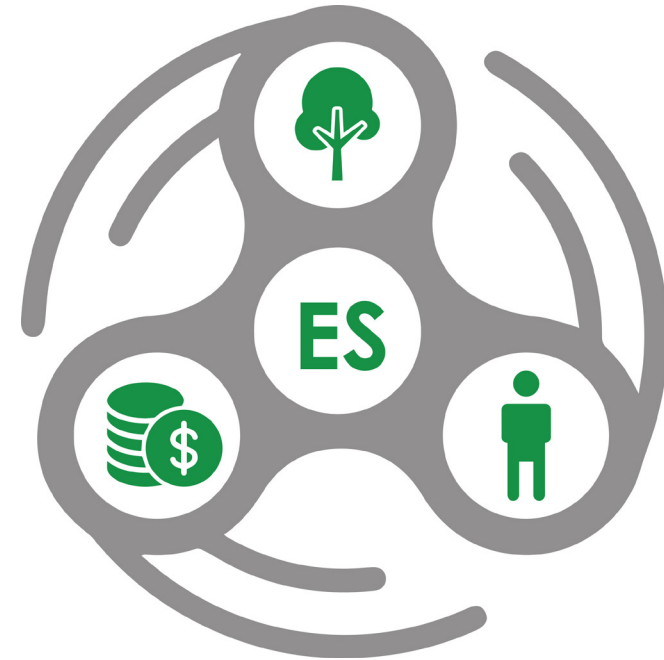
CONCEPT

CONGRATULATION

+ COMMUNICATION

+ CONNECTIVITY

= CONFLUENCE IN BALANCE



An aerial photograph of a landscape. A river flows from the top right towards the bottom right. The left side of the river is dominated by a patchwork of green and brown agricultural fields. A small town or village is visible in the center, with a cluster of buildings and a few larger structures. To the right of the town, there's a large, irregularly shaped body of water or a flooded area. The overall scene is a mix of natural and human-made elements.

THANK YOU!
DĚKUJEME ZA POZORNOST!