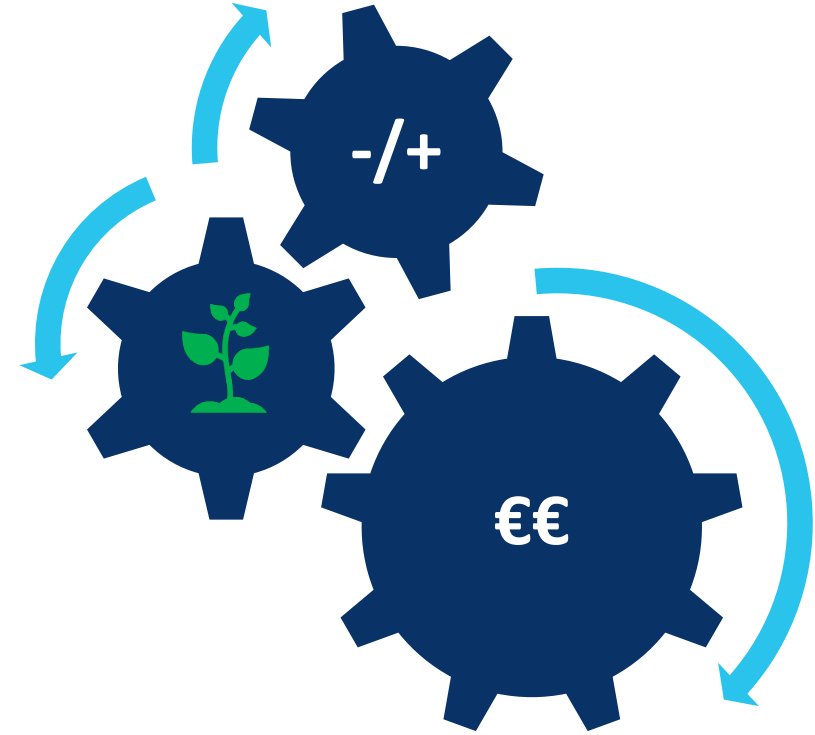
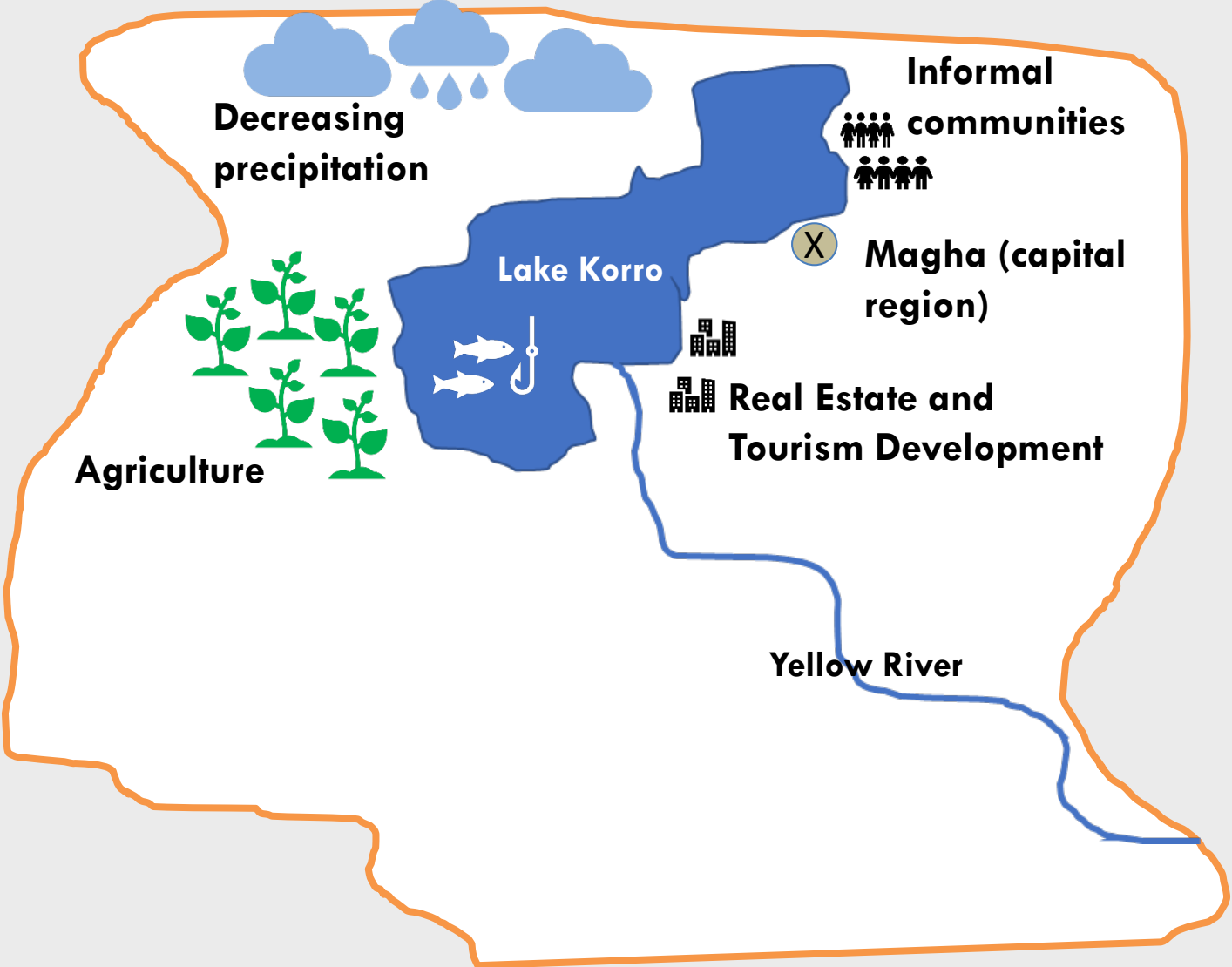




SAVi Exercise



Exercise: Map of Themyscira



Themyscira



- Themyscira is landlocked country in south-central Africa.
- 42% of the population live below the income poverty line.
- 6.3 million people live in capital, Thema.
- Average annual growth rate of 3.6%. World bank predicts 4.2% in 2019.
- Civil unrest related to elections.
- Drought, reduced rainfall, and increase in temperature.

The project: Pump Water from Lake Thema for urban irrigation



- **Draw water from the lake Thema for urban agriculture**
- **Subsidies for edible urban gardens. Seek to increase nutrition.**

Is the project a good idea?



Ministry of Finance

- Seeking to implement project as a public private partnership or PPP
- Off balance sheet hence not affect debt
- Better nutrition leads to better health, better productivity and higher GDP ??
- Irrigated water can also be used for high value export crops such as cut flowers ??

Is the project not such a good idea?



1. No Data On Use, Trends, Costs. How can a PPP be envisaged?

- Citizens cannot afford to pay for water.
- No historical data on water use. No projections on future water use.
- No data on how much it costs to maintain water infrastructure today.
- No budget or skills to maintain water infrastructure today.

2. Sewage inflow into the lake (from informal communities).

3. Water withdrawal is already un-sustainable. Lake will be dry in 15 years.

4. Destruction of the lake will trigger a drop in tourism and real estate valuations

Can the lake support the project longer term?



- **The yellow river, the source of the lake is being dammed and diverted by neighbouring countries**
- **Lower precipitation and drought.**

Water from Lake Thema for Urban Irrigation



We invite you to have a discussion:

- 1. What are the risks in developing this project for government of Themiscyra.**
- 2. What are the environmental, social and economic externalities that can arise if this project is built?**
- 3. Which of these risks and externalities can have an impact of the financial feasibility of the project?**

Financial Risks.



Public counterpart in the PPP is the Water Regulatory Body.



No data on historical water use. No data on costs. No data on demand



Difficult to plan a PPP , which is based on forecasts on demand, capital costs, operating costs and more



Loss of valuations and loss of reveues from real estate and tourism



Supply of water to the lake is unsable.

Environmental and Social Risks



Loss of the water shed. Widespread water shortages. Will affect incomes and economic growth



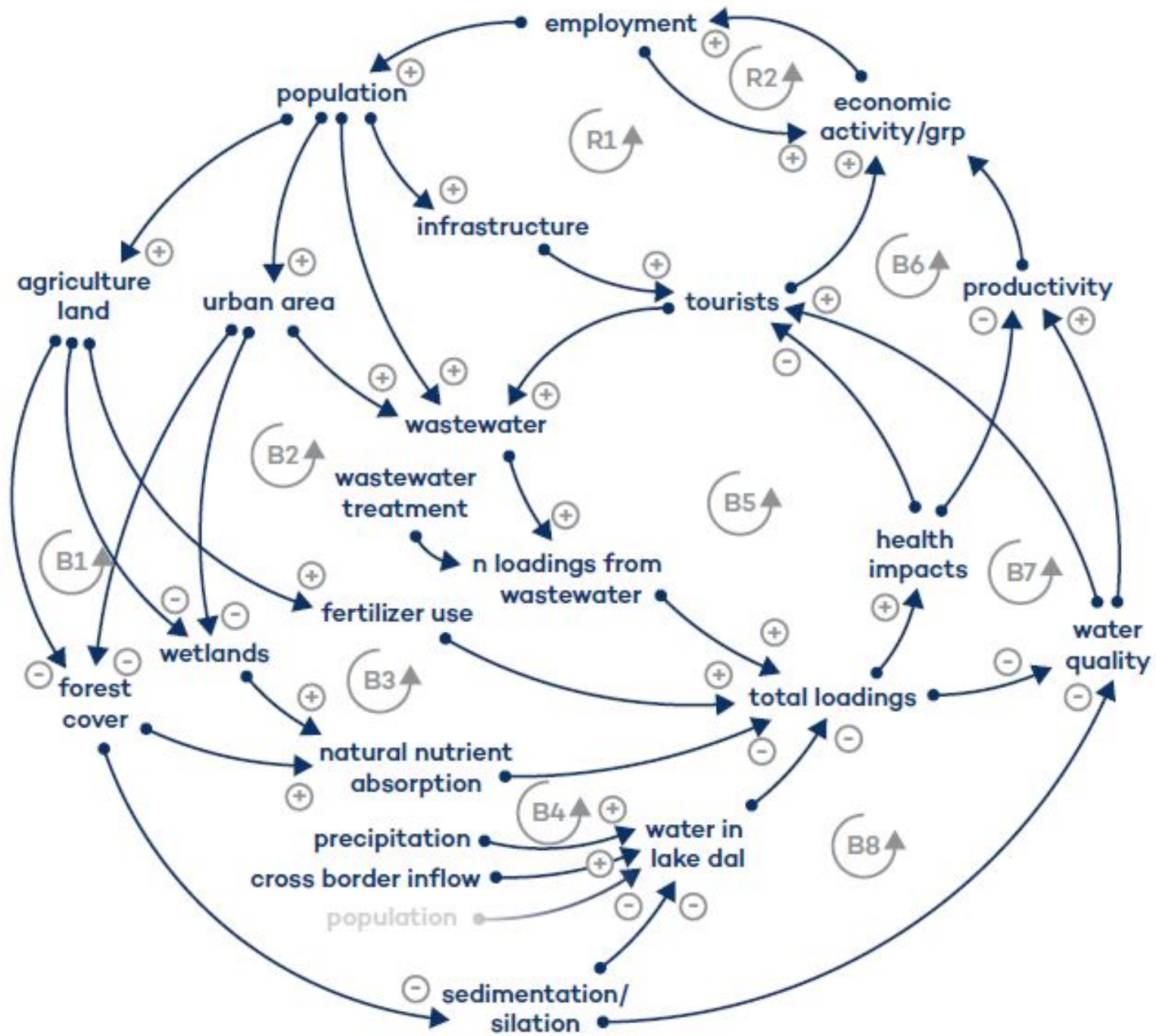
Decreases in productivity, economic output, household income.

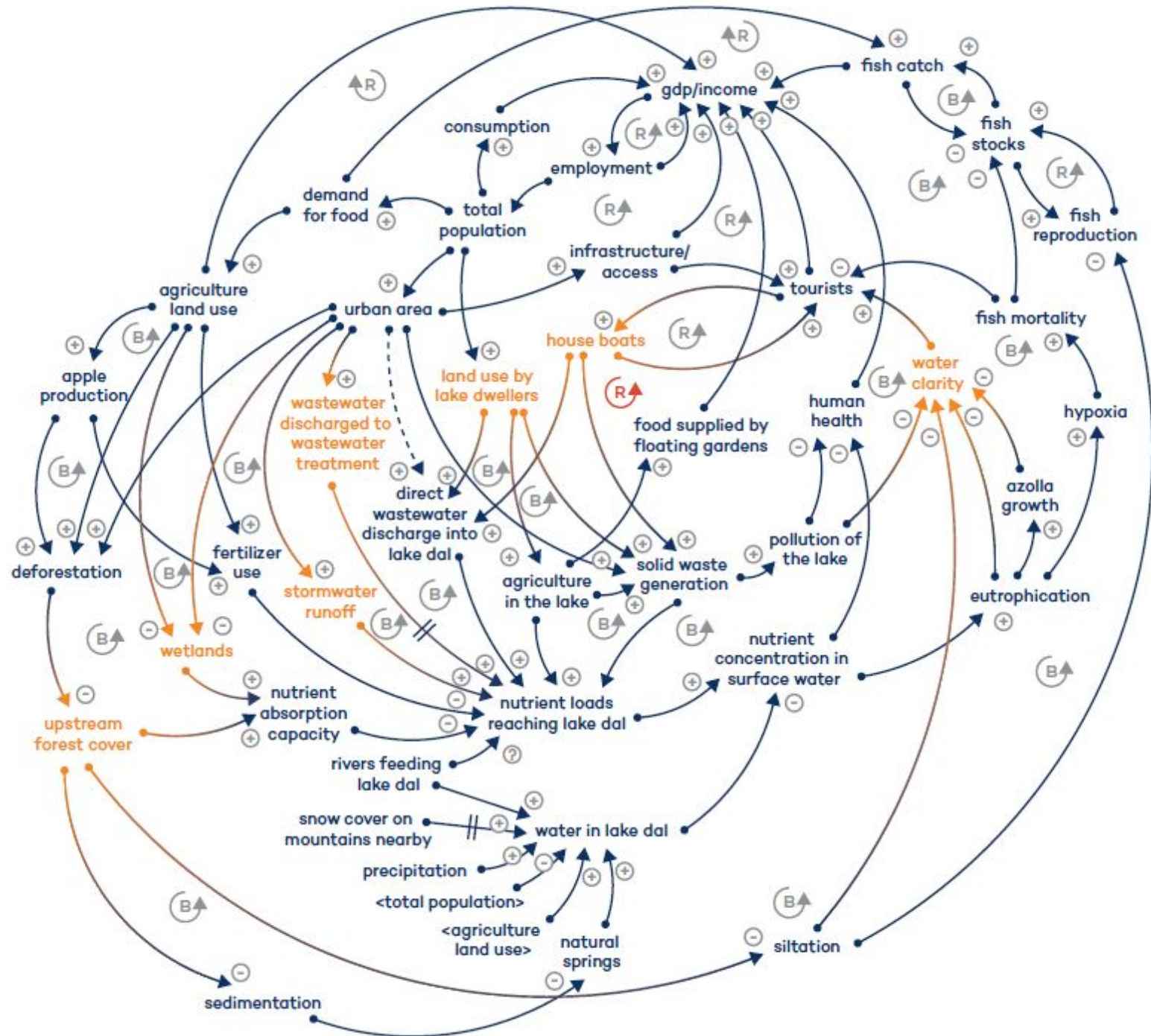


Real estate and tourism industry will collapse



Loss of livelihoods, civil unrest





<https://savi.iisd.org>



**Contact us
today to find
out more about
how SAVi**

Laurin Wuennenberg, lwuennenberg@iisd.org

David Uzsoki, duzsoki@iisd.org

Andrea Bassi, andrea.bassi@iisd.net

Liesbeth Casier, lcasier@iisd.org

Marina Ruete, marina.ruete@iisd.org

Georg Pallaske, georg.pallaske@iisd.net

Oshani Perera, operera@iisd.org

Sofia Baliño, balino@iisd.org