

An aerial photograph of a vast landscape. In the foreground, a lush green golf course with several sand traps and fairways is visible. Beyond the golf course, a dense forest of tall evergreen trees stretches across the middle ground. In the background, a large body of water, likely a lake or a series of connected lakes, is filled with numerous small, forested islands. The sky is a clear, pale blue.

# Sustainable Global Technologies: Social Impact Assessment

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An aerial photograph of a golf course, showing various green fairways, sand traps, and a large body of water in the upper left. The landscape is heavily forested with trees, and the overall scene is captured in a grayscale or sepia tone.

**1. Definitions**

**2. Cases**

**3. Material**

# 1. Definitions

## SIA

*”Social impact assessment includes the processes of analysing, monitoring and managing the intended and unintended social consequences, both positive and negative, of planned interventions (policies, programs, plans, projects) and any social change processes invoked by those interventions. Its primary purpose is to bring about a more sustainable and equitable biophysical and human environment.” (IAIA 2003)*

## 1. Definitions

# Finnish Legislation

- Act on Environmental Impact Assessment Procedure
- Land Use and Building Act
- Act on the Assessment of the Impacts of the Authorities' Plans
  - activities having significant impacts in the social context: national planning, land use planning, large projects having environmental impacts

## 1. Definitions

# Basing on human context

- interest groups  $\Rightarrow$  😊 😐 😞

➤ participation: inquiries, interviews, workshops, public meetings...

# 1. Definitions

## Values => Aims

- negative – positive attitudes
- priorities
- measuring

|              | objective          | subjective   |
|--------------|--------------------|--------------|
| material     | standard of living | satisfaction |
| non-material | quality of life    | happiness    |

Value dimensions (Allardt 1983)

# 1. Definitions

## **SIA process**

1. Need for assessment and its planning
2. Collecting basic information
3. Identifying potential impacts, prioritising
4. Creating and describing optional measures
5. Assessing optional measures and their impacts
6. Writing assessment report
7. Evaluating the impacts of the chosen option

## 2. Cases

# Some big projects

### Vuosaari Harbour:

<http://www.vuosaarensatama.fi/en/index.html>



### Olkiluoto 3:

<http://www.tvo.fi/374.htm>



### Vuotos:

<http://www.kho.fi/paatokset/29036.htm>



Valokuva: Pertti Puranen

## 2. Cases

# Lake Luodon-Öjanjärvi

- Kokkola, Pietarsaari, Kruunupyy, Luoto ja Pedersöre
- Kruunupyynjoki, Ähtävänjoki, Purmonjoki ja Kovjoki
- Luodonjärvi 1961, Öjanjärvi 1969
- Luodonjärvi 73 km<sup>2</sup>, Öjanjärvi 12 km<sup>2</sup>
- total drainage basin 410 km<sup>2</sup>
- shallow, mean depth about 2 m
- 1850 summer cottages (2004), 20 % of shores in use

Valokuva: Pertti Puranen

## 2. Cases

# Problems

- sedimentation, rise of land
  - variation of water height
  - nutrient content and eutrophication
- new regulation in 1998: aimed water level +15 cm

## 2. Cases

# Evaluation

- How the new regulation had affected recreational use of Luodonjärvi?

# Conclusions?

<http://www.water.tkk.fi/wr/tutkimus/thesis/Palonen2006.pdf>

(includes English abstract)

# 3. Material

- Stakes: <http://info.stakes.fi/iva/EN/index.htm>
- IAIA: <http://www.iaia.org/>
- World Bank: <http://web.worldbank.org/WBSITE/EXTERNAL/TOPICS/EXTPOVERTY/EXTPSIA/0,,contentMDK:20454016~menuPK:1107978~pagePK:148956~piPK:216618~theSitePK:490130,00.html>