

Cultural ecosystem services of alpine lakes – conflicts and limits in use

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Cultural ecosystem services (CES) of alpine lakes

- Outdoor recreation (e.g. swimming, fishing, nature observation)
- Aesthetic experience
- Inspiration, spiritual values
- Education, science etc.

Assessment methods of CES

- Spatially explicit modelling approaches,
- Crowd-sourced information,
- Specific surveys (e.g. photo-based questionnaires, PPGIS).

Hypotheses

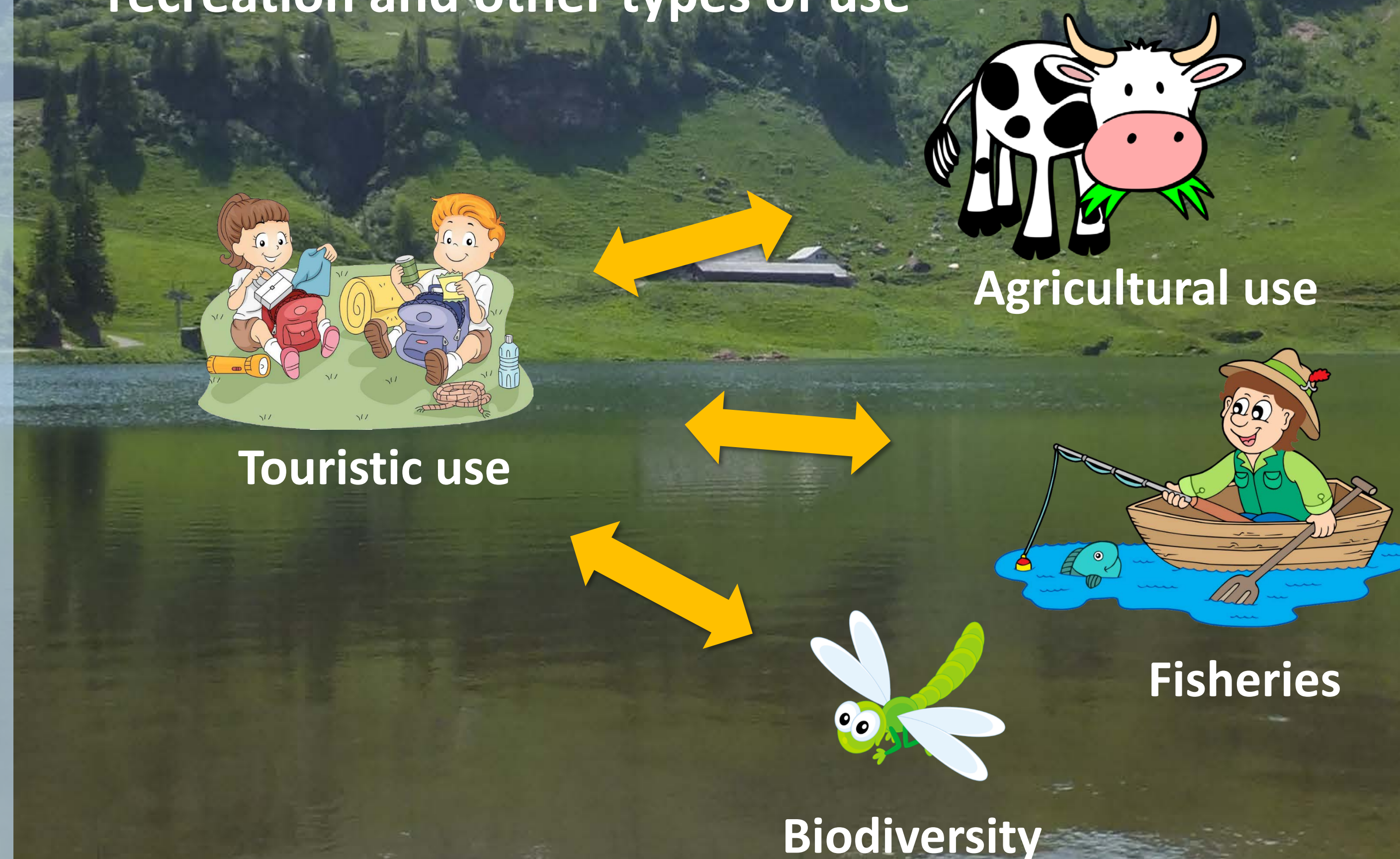
The **growing demand** for outdoor recreation is expected to lead to

- **higher visitation rates** of alpine lakes
- **higher pressure on ecosystems**
- **increasing conflicts** with other types of use.

Important questions

- How are CES influenced **by climate change**?
- How are CES **related** to other ecosystem services?

Conflicts between outdoor recreation and other types of use



Key message

Collaboration among local stakeholders is needed to achieve a **balanced level of use** without negative impacts on **important ecosystem services**.



Project CLAIMES

Climate response of alpine lakes: Resistance variability and management consequences for ecosystem services

Central goal:

Anticipatory management of stakeholder conflicts over potentially altered availabilities of alpine lakes' ecosystem services induced by climate-change impacts and therefrom derived policy advice.

Study sites:

- Northern Alps (Niedere Tauern, Austria)
- Southern Alps (Italy)

Workpackages:

WP1 Characterization of lakes' variability

Short term changes of alpine lakes and their linkage to climate change and man-made effects

WP2 Assessment of ecosystem service provision

Quantitative assessment of ecosystem services and analysis of potential future impacts under climate change

WP3 Evaluation of ecosystem service' importance and development of future management strategies

Evaluation and comparison of actual and future ecosystem service provision depending on lakes' climate change response variability and elaboration of policy advices

Project duration:

01.07.2019 – 30.06.2022

More information

<https://www.uibk.ac.at/projects/claimes/>

Partner



Funding

