



LIFE+ URBANCOWS - Restoration of urban coastal meadow complex in Pärnu town, Estonia

Bert Holm, PhD.

bert.holm@saaremaavald.ee







Pärnu town, West-Estonia

- A coastal town, the population of ca 40 000 inhabitants;
- the most famous summer vacation destination;
- annual number of visitors more than 300 000.



Rannaniidu NATURA 2000 site, Pärnu town

- 220 hectares of coastal meadows; 90 hectares of coastal lagoons;
- in the summer resort, between the city and the sea;
- habitat for several endangered plant and bird species;
- historically the pasture for several hundred livestock;
- traditional management (grazing) ceased in late 1980ies;
- habitat degradation and biodiversity loss during last 30 years.



Rannaniidu NATURA 2000 site, Pärnu town

- By 2012 the whole area of the reserve was covered with the reed bed of 2,5...5 m high;
- the use of the area was physically blocked by reedbed;
- secure place for dumping the garbage.



- To improve the conservation status of the coastal meadow and coastal lagoon habitat complex of the nature reserve:
- to remove old reed and bushes from 220 ha of coastal meadow;
- to restore 75 ha of coastal lagoons by removing floating reed rhizome and sediments;
- grazing infrastructure establishment;
- immediate reintroduction of cattle grazing at restored areas;



- To introduce the values of the area to the locals and visitors and foster the recreation:
- visitor infrastructure establishment;
- disseminate, educate, change the public opinion on the values of the area.





- Planning and preparing the relevant documentation:
- detail planning process and different kind of technical documentation preparation ca 1,5 years.



- An old reed and bushes removed mechanically in 220 ha of coastal meadow;
- Used for bioenergy production, thatched roofs or mulched/burned;



 75 ha of coastal lagoons restored mechanically by removing floating reed rhizome from edges;



- Natural water regime of the area improved by clearing streams and placing culverts under the road dams;
- one pedestrian trail improved.



- Grazing infrastructure established (fences, shelters);
- immediate reintroduction of cattle grazing after the restoration;



- Visitor infrastructure established;
- dissemination events and materials, outdoor conservation events, active work with residents and visitors.



Educational impact:

- 55 000 leaflets in 4 languages distributed;
- specific outdoor learning programs launched for the area;
- number of visitors increased ~ 10%, the time spent in the area increased ~5%;
- 80% respondents positively minded towards the restoration and cattle reintroduction (20% increase during project).



Sustainability:

- The grazing of restored coastal meadow complex will proceed with the support of RDP agri-environmental subsidy;
- tourism infrastructure belongs to the town government, no large investments needed in 10-15 years;
- several other towns have adopted the idea and reintroduced historical grazing at urban grasslands.

More than 105 ha of coastal meadows restored in Kuressaare town, inspired by URBANCOWS. Photos by Katrin Koppel.



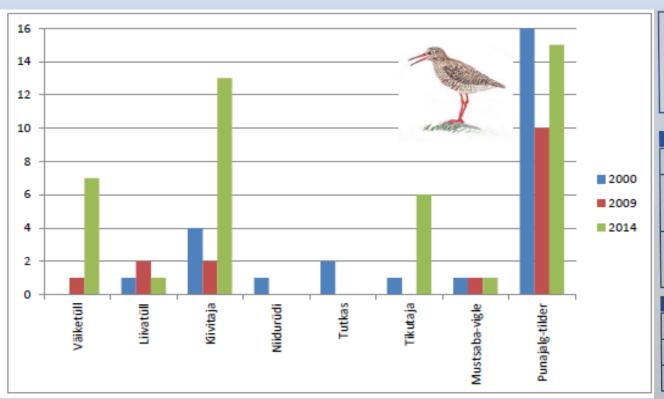
Transferability:

- Mechanical restoration methodology widely used in meadow restoration all over the country by now;
- mechanical meadow restoration in protected areas subsidised from EC Cohesion Funds;
- LIFE+ "LIFE to alvars" running in 2500 ha of alvar grasslands;
- more than 2000 ha meadows restored in last few years.



Environmental impact:

- Coastal meadow and coastal lagoon habitat conservation status improved due to restoration and management reintroduction;
- protected plant species populations increasing;
- breeding meadow bird and migratory bird numbers increasing;
- no pollution of surface water or seawater occurred.





The benefits for the Pärnu town:

- 220 hectares of low vegetation traditional coastal area instead of impenetrable reed bed;
- improved sea view and access;
- improved recreational possibilities;
- new image as a nature preserving town;
- new tourism targets inside the town;
- direct financial investments into the town environment.







Thank you!

More information:

http://life.envir.ee/urbancows

In Facebook: URBANCOWS