







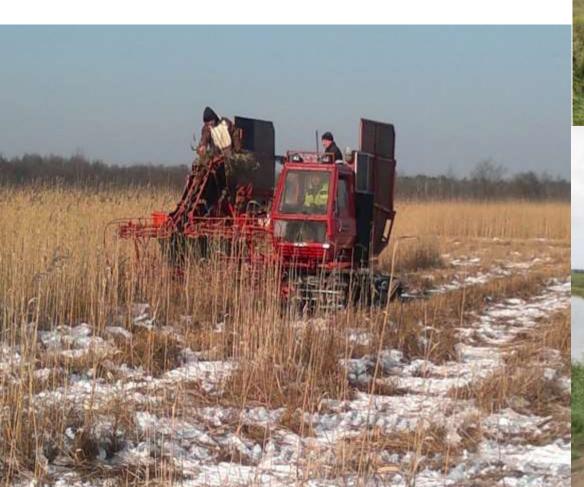


Equipment used:



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Wide caterpillar "Ratrack" for reed collection



Seiga







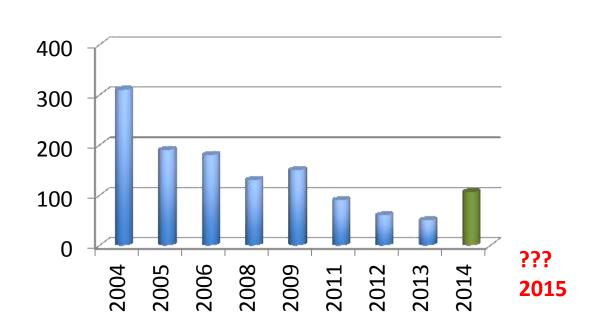
Habitat burning

- Efficient restoration method in proper weather conditions;
- No visible side-effects observed at vegetation season;
- Is reasonable to apply if biomass cannot be turned into the market product;
- Legislation gaps remain to be solved.





Dynamics for Aquatic warbler population in Lithuania





Constant decline since 2004 due to:

- Abandonment of the habitat;
- Too intensive (early) mowing causing low breeding success;
- Possible other external factors (e.g. wintering conditions)



Other species benefiting from habitat restoration





Great snipe Gallinago media (GM)
Black-tailed godwit Limosa limosa (LL)
Northen lapwing Vanellus vanellus (VV)
Montagu's harrier Circus pygargus (CP)
Common redshank Tringa totanus (TT)
Crane Grus grus (GG)

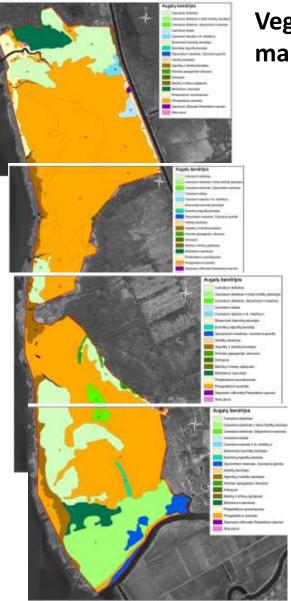
Scarce large blue Maculinea teleius

Other species:

- Marsh harrier;
- Wood sandpiper;
- Little gull;
- Ruff;
- Lesser spotted eagle;
- Bittern;

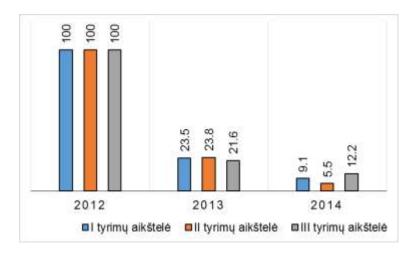
Singing males counts **Tyrai** 2011 green

Monitoring of habitat restoration effects

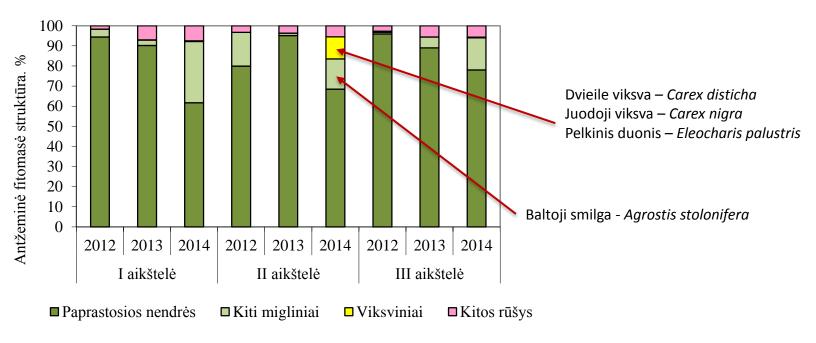


Vegetation community mapping

Monitoring of habitat restoration effects (Tyrai)



Proportion of dead biomass in sampling plots (%)



Vegetation structure dynamics in sampling plots

Core challenges

Removal of reed vegetation

- How to address survival of other reed habitat species?
- Extreme mowing conditions due to absence of firm vegetation layer;
- High risk of machinery "sinking" at coastal habitats and swampy habitat at Liepaja

Biomass use as a product

Agri-environmental measures as precondition for habitat maintenance:

- Different viewpoint of Agriculture and Environment sectors;
- How to setup a proper payment level?
- Fine-tuning a management regime;
- Making important areas eligible for participation

Conclusions

- Currently most important Aquatic warbler habitats are successfully restored, having appropriate maintenance preconditions;
- Overall habitat area is still too small, further habitat restoration shall continue in other areas;
- Restoration clearly benefits for other biodiversity and local development (e.g. high nature tourism potential);
- Biomass use area, which needs improvements on setting up proper business model (products with higher added value, proper institutional setup);
- Burning seems to be a good tool for restoration if harvest is could not be used; legal gaps needs to be filled;
- Our conclusion on the currently available best machinery solution a double-wheel high power tractor with attachable caterpillars;
- A lot of new and in-depth knowledge, which needs to be integrated as an update of the national species conservation action plan.

