Regional seed mixtures

as an effective tool for protecting the diversity of grassland habitats

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What are regional seed mixtures





- most grasslands ploughed → regrassed with species-poor mixtures
- species-rich mixtures often unsuitable exotic species
- solution: locally collected seeds





- public interested in the topic
- methods are known
- sites for seed collection unknown small area • minimal experience with smaller harvesters • data-based comparison of methods needed • economic aspects

Situation before the project

• various experience with grassland restoration

Project partners









Přírodovědecká fakulta Faculty of Science

Jihočeská univerzita v Českých Budějovicích University of South Bohemia in České Budějovice











ZO ČSOP Vlašim

MUNI PŘÍRODOVĚDECKÁ FAKULTA



STÁTNÍ FOND ŽIVOTNÍHO PROSTŘEDÍ ČESKÉ REPUBLIKY

Main goals

- finding suitable donor sites for seed collection
- comparing different methods of seed collection - brush harvesters, green hay, threshing
- highten public interest in regional seed mixtures

GRASSLAND RESTORATION MORE AVAILABLE AND ECONOMICALLY FEASIBLE



Databases

Seed data

Public awareness



- botanical monitoring
- seed collection
- samples analysis
- sowing







- White Carpathians vs. rest of the Czech Republic
- suitable sites for seed collection

 - various vegetation types
- easy access when planning grassland restoration

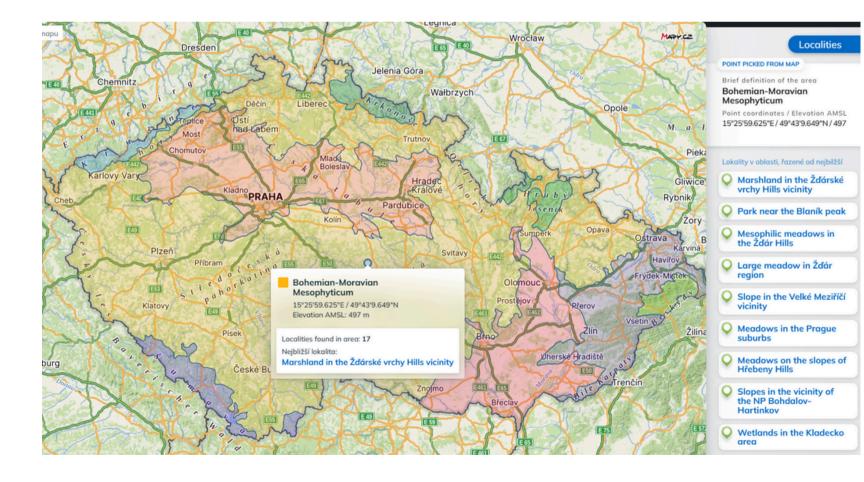
Database of speciesrich grasslands

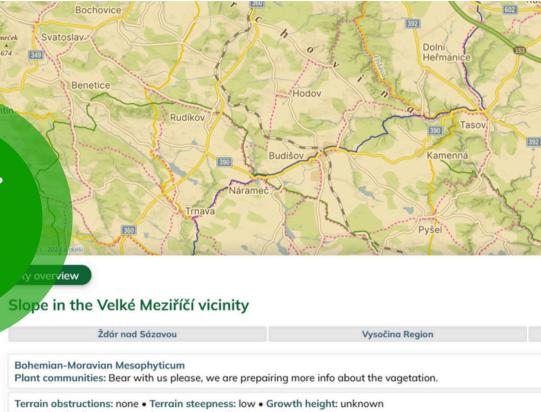
• various environmental conditions

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- shows sites from the nearest one to receptor site
- does not show exact position of sites to protect the owners





Methods of collecting: green hay • manual collection • using a brushcutter Protection status: None

Site overview

- plant species and community
- terrain
- methods of seed colletion
- protection status
- contact





Tractor harvester ZO ČSOP Bílé Karpaty Pushed harvester

Wiesefix - Neisser Geoprodukte GmbH, Germany Grass Grabber, Australia

Hand Held harvester

GP Restoration Solutions, Canada



Green hay

- Biomass directly transfered from source sites to the field being restored
- (Alternative: dried biomass)

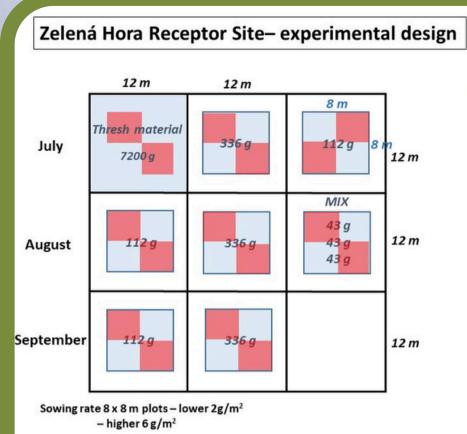


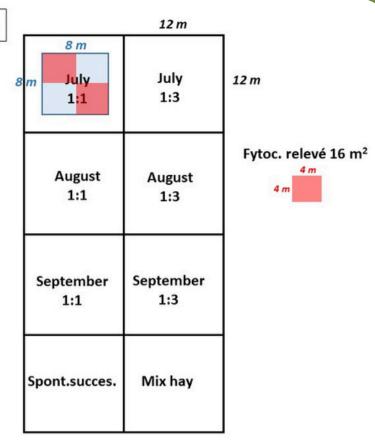


Thresh material

• Hay threshed on stationary threshing machine, sown later



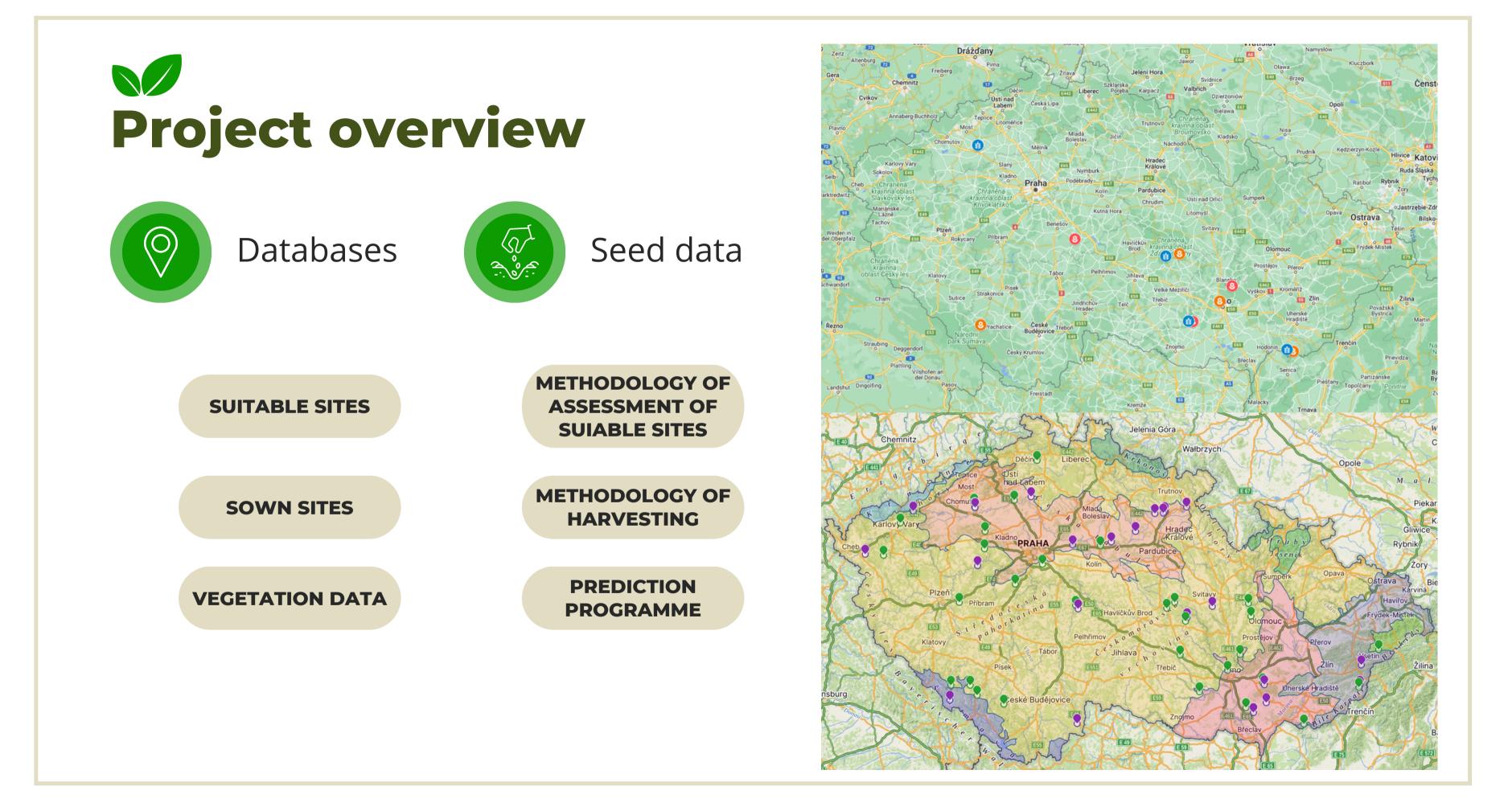






Sowing rate "MIX" – 2 g/m² and Thresh material – 50 g/m²









Public awareness



Český svaz ochránců přírody

Videa a příspěvky Základních organizací ČSOP či činnosti spojené s programy ČSOP a ochranou přírody. Více na stránkách www.csop.cz

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YouTube



Next steps

Harvesters

- enhance efficiency
- build new machine

New projects

- unsolved questions
- genetics
- effects on insects

Cooperation

- various subjects
- supply-demand ratio



Database of suitable sites



New sites

Certification process

expansion of the database

working group

National programme

cooperation with state agencies



Next steps

Long-term strategy

- economically viable
- self-sufficient programme
- smaller cooperations in the meantime

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