

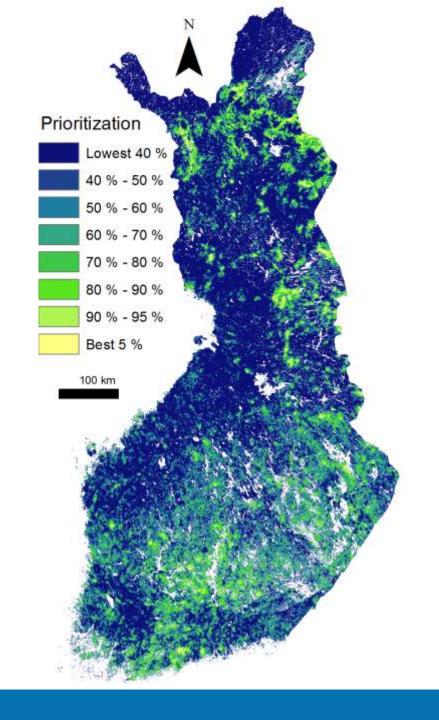
Case Zonation and forest biodiversity

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Prioritization Lowest 40 % 40 % - 50 % 50 % - 60 % 60 % - 70 % 70 % - 80 % 80 % - 90 % 90 % - 95 % Best 5 % 100 km

Outline

- 1. ZONATION
 Conservation planning software
- 2. Forest biodiversity prioritizations
- 3. Earth observation data





Uses mainly spatial raster data of biodiversity

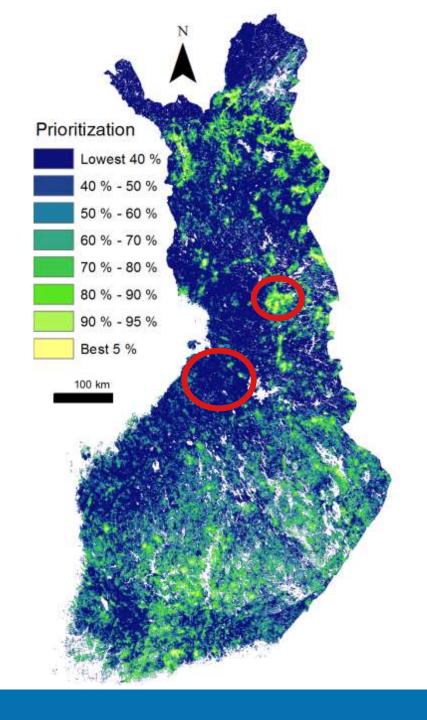
Species, ecosystems, ESS

+ costs, threats, connectivity...

Based on complementarity

Creates balanced result

.. Which usual look like this



With Z we can recognize

- Most valuable forests for biodiversity
- 1. If not protected Hurry up!
- 2. Least valuable forests for biodiversity
- 3. Conservation network expansion
- 4. Conservation network assesment







Centre of Economic Development, Transport and the Environment



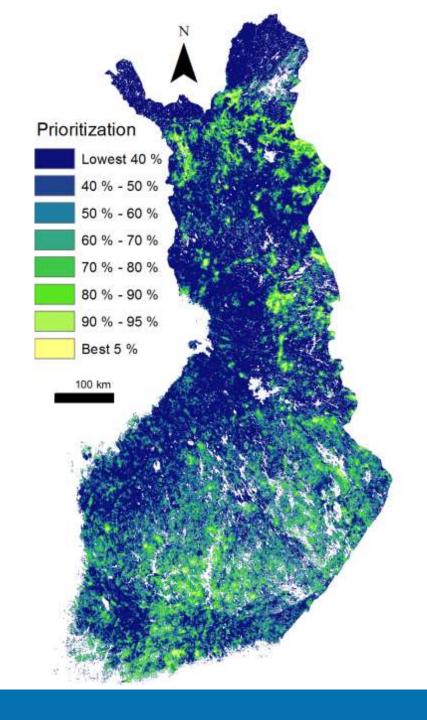


Finnish Forest Centre



METSÄHALLITUS

Parks and Wildlife

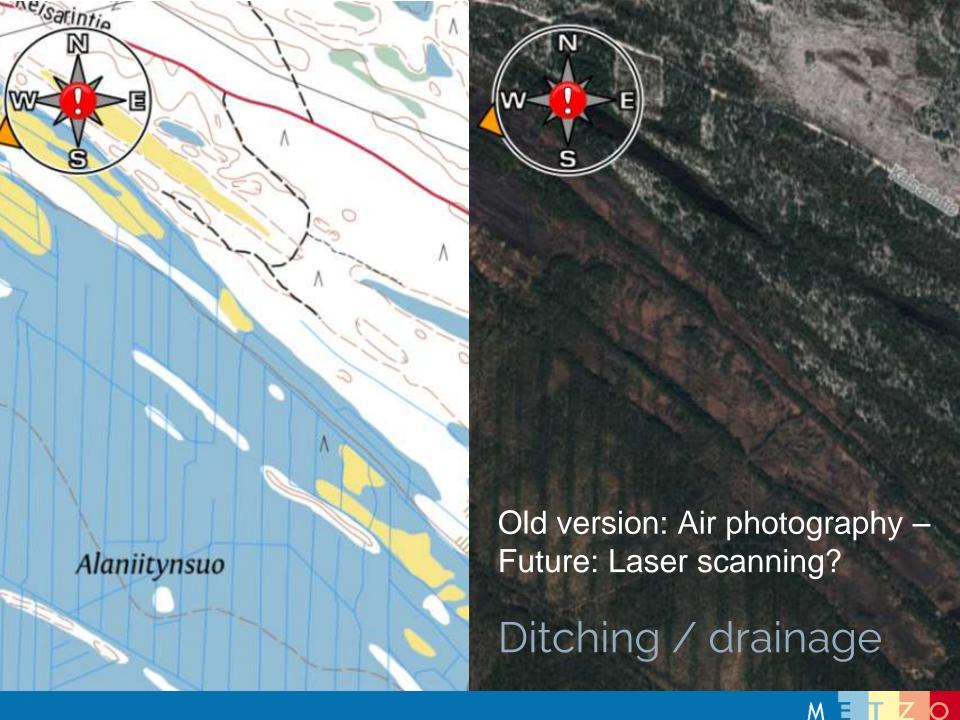


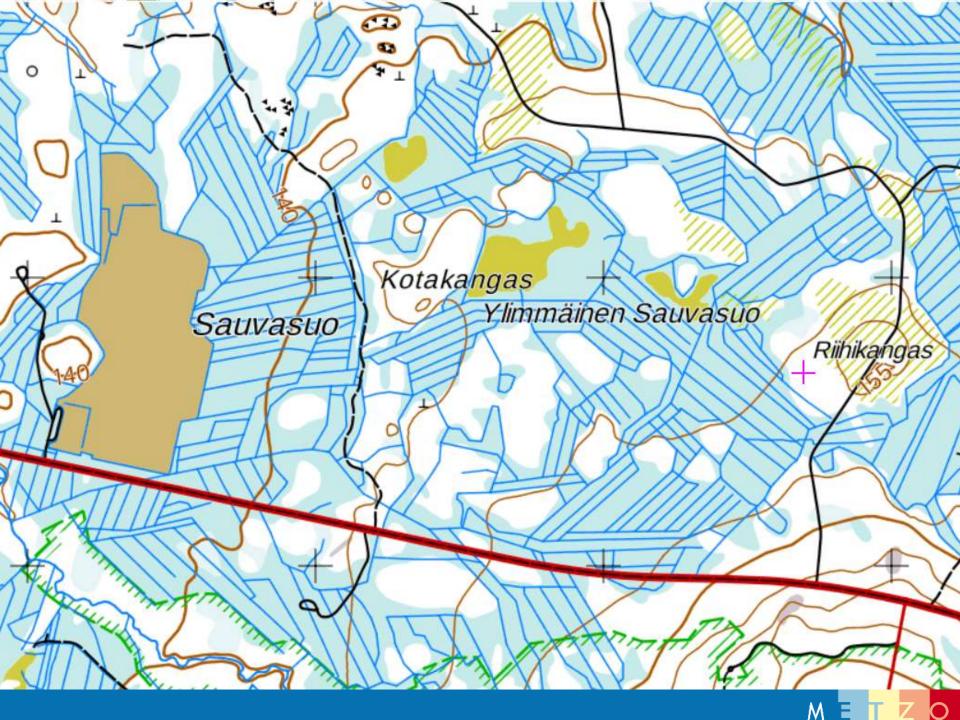
Forest biodiversity analysis setup

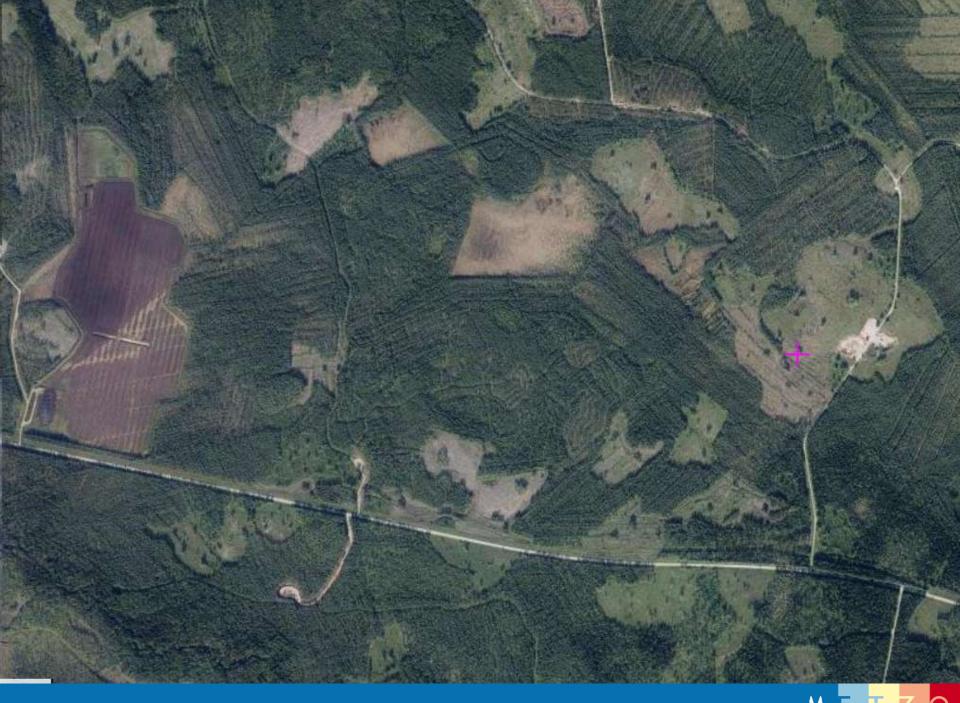
- Local value (modelled decaying wood potential)*
- 2. Penalties*
- 3. Unfragmentation (connectivity)
- 4. IUCN Red List forest species
- Connecitivity to forests protected by Finnish Forest Act
- 6. Connectivity to permanent forest conservation areas*includes EO data

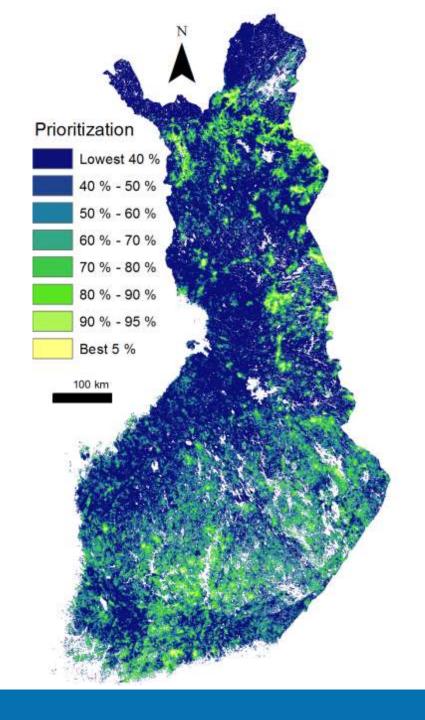












Conclusion

- 1. EO data had very big role in these anlysis
- 2. EO data usually collected for othe purposes than BD conservation modelling etc. needed.
- 3. New EO data is needed!
- 4. Information of forest structure crucial for forest biodiversity reseach



| species = 0.956023 | species = 0.9547389 | species = 0.9534999 | species = 0.9522704 | species = 0.9509286 | species = 0.9495556 | species = 0.9481757 | species = 0.9467716 | species = 0.9453262 | species = 0.943877

Thank you for listening!

Thank you for co-operation and funding!











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