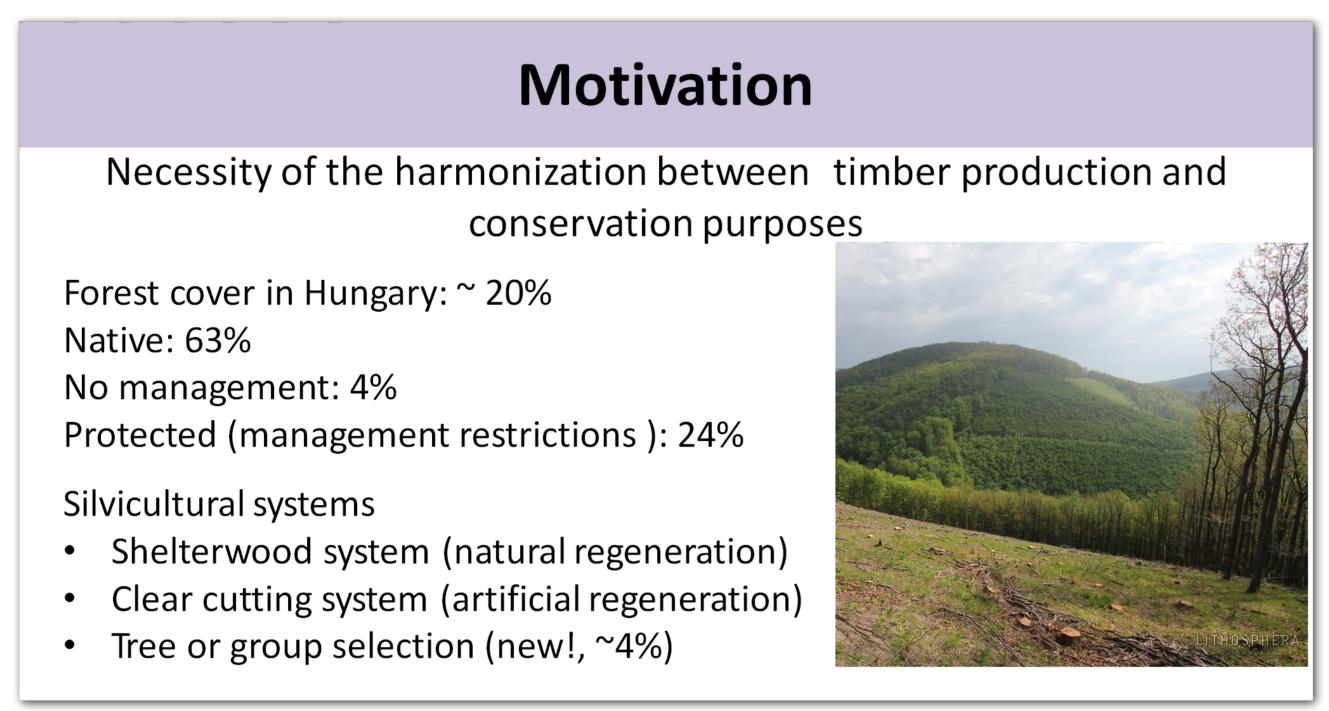
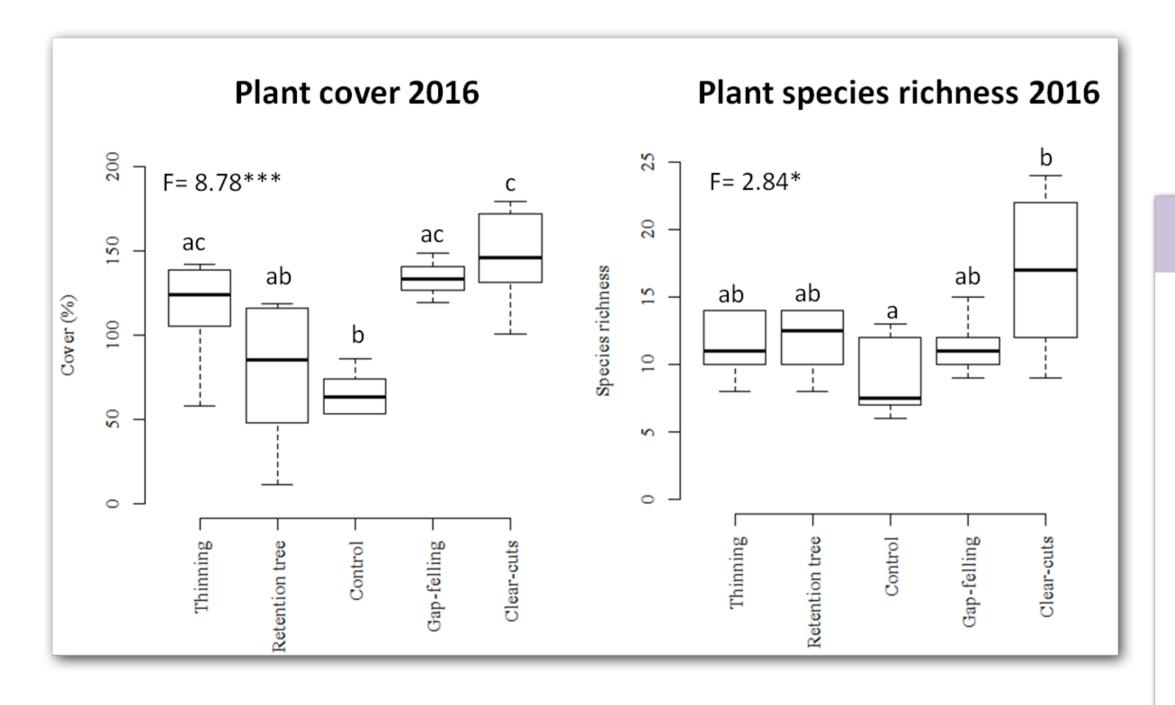
The effects of four forestry treatments on the community structure of spiders

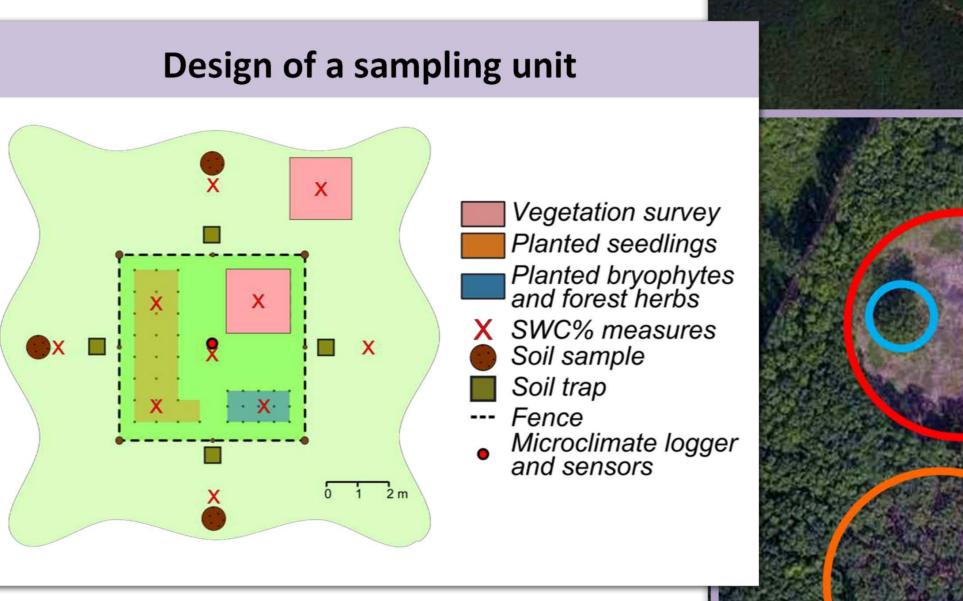
Ferenc Samu¹, Péter Ódor² and Zoltán Elek³

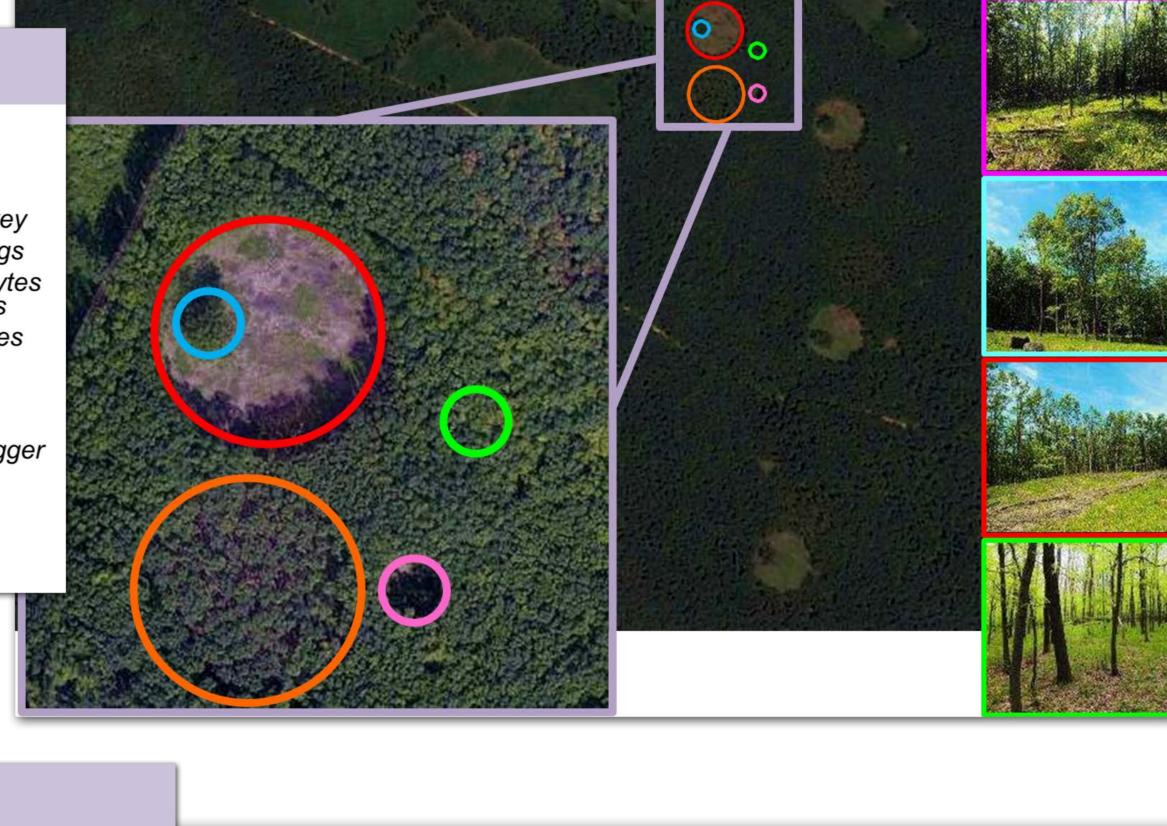
¹MTA Centre for Agricultural Research, Agricultural Institute, Budapest, Hungary ²MTA Centre for Ecological Research, Institute of Ecology and Botany, Tihany, Hungary ³MTA-ELTE-MTM Ecology Research Group, Budapest, Hungary



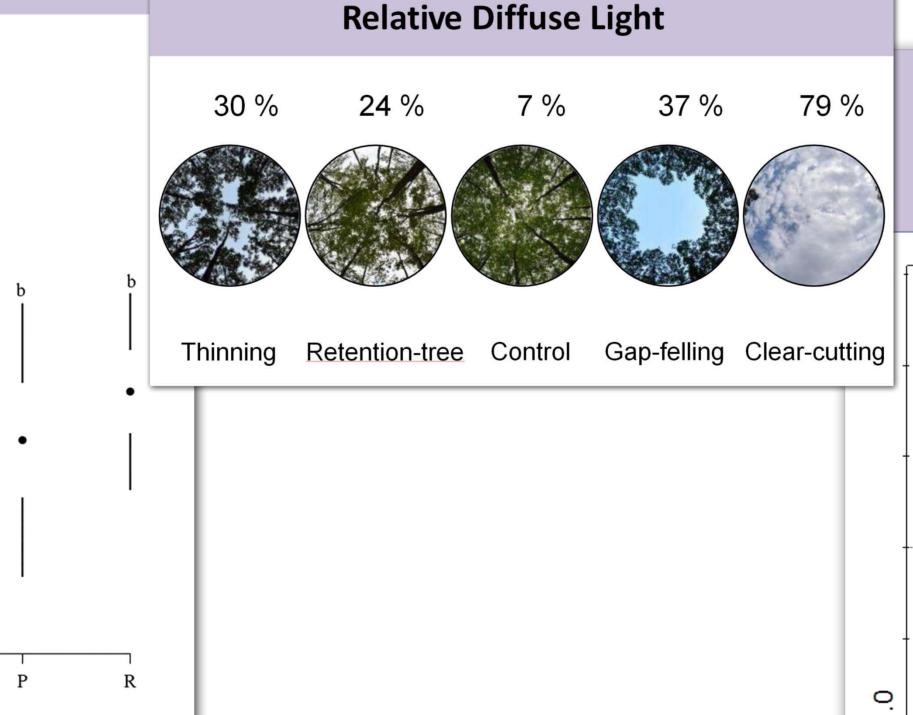
Experimental design 70 yr old Quercus petraea, Pilis Mountains, N Hungary Carpinus betulus stand 5 treatments thinning (d=80 m) gap-felling (d=20 m) clear-cutting (d=80 m) retention-tree group (d=20 m) control 6 replicates complete block design **BACI** (Before-After-Control-Impact) all measurements started in 2014





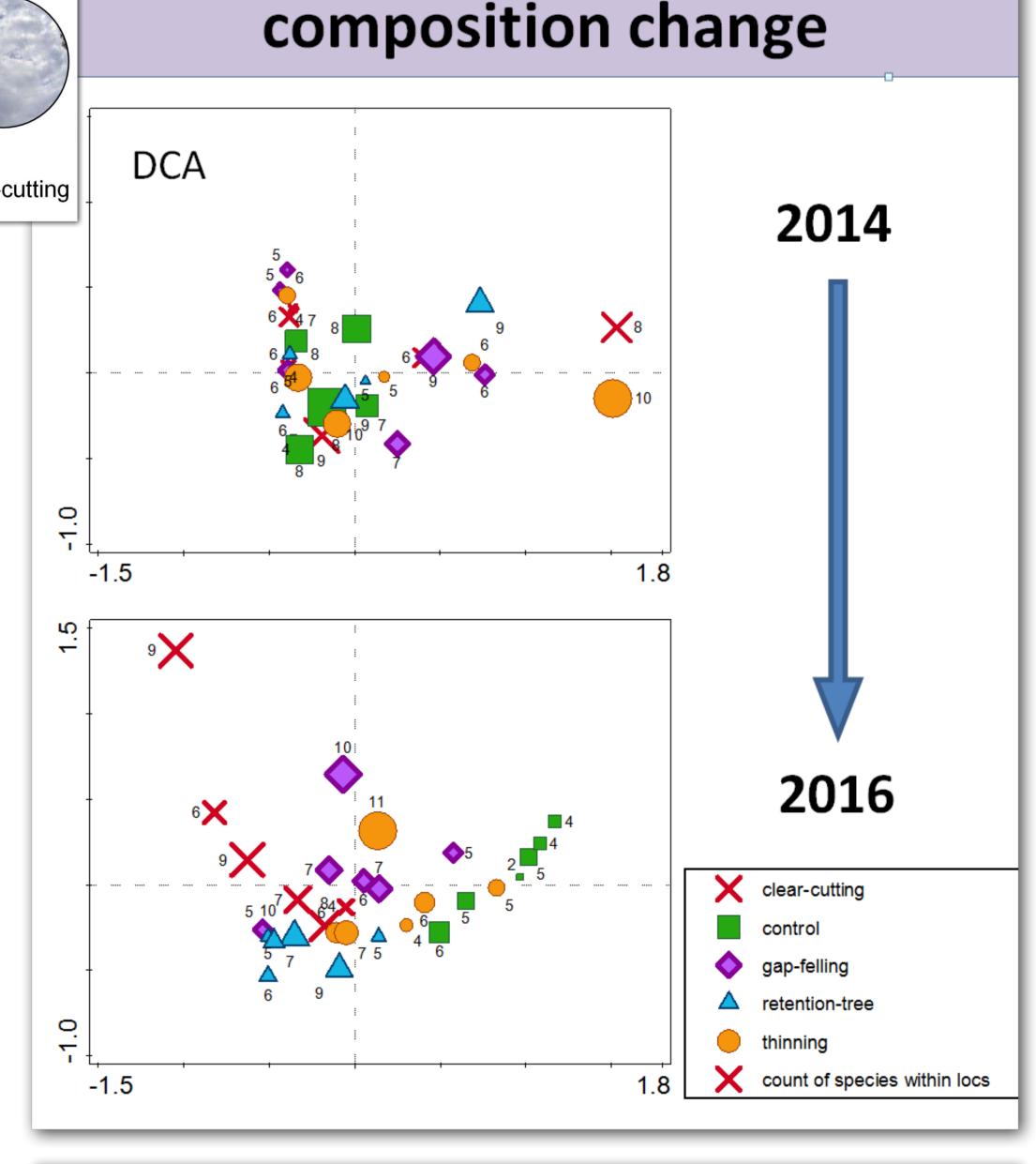


Spider density and species richness Treatments



Discussion

- Before treatment and two years after treatment states compared (2014-2016)
- Treatments created a gradient in light and humidity environment and in undergrowth cover
- All treatments resulted in a denser vegetation by 2016 compared to control
- Spiders responded to treatments by increased density and richness
- Community composition started to separate by treatments with greatest difference between control and clear-cut



Community

	2014	2015	2016
Adult abundance	1778	687	1654
Species number	21	21	22

Acknowledgements

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