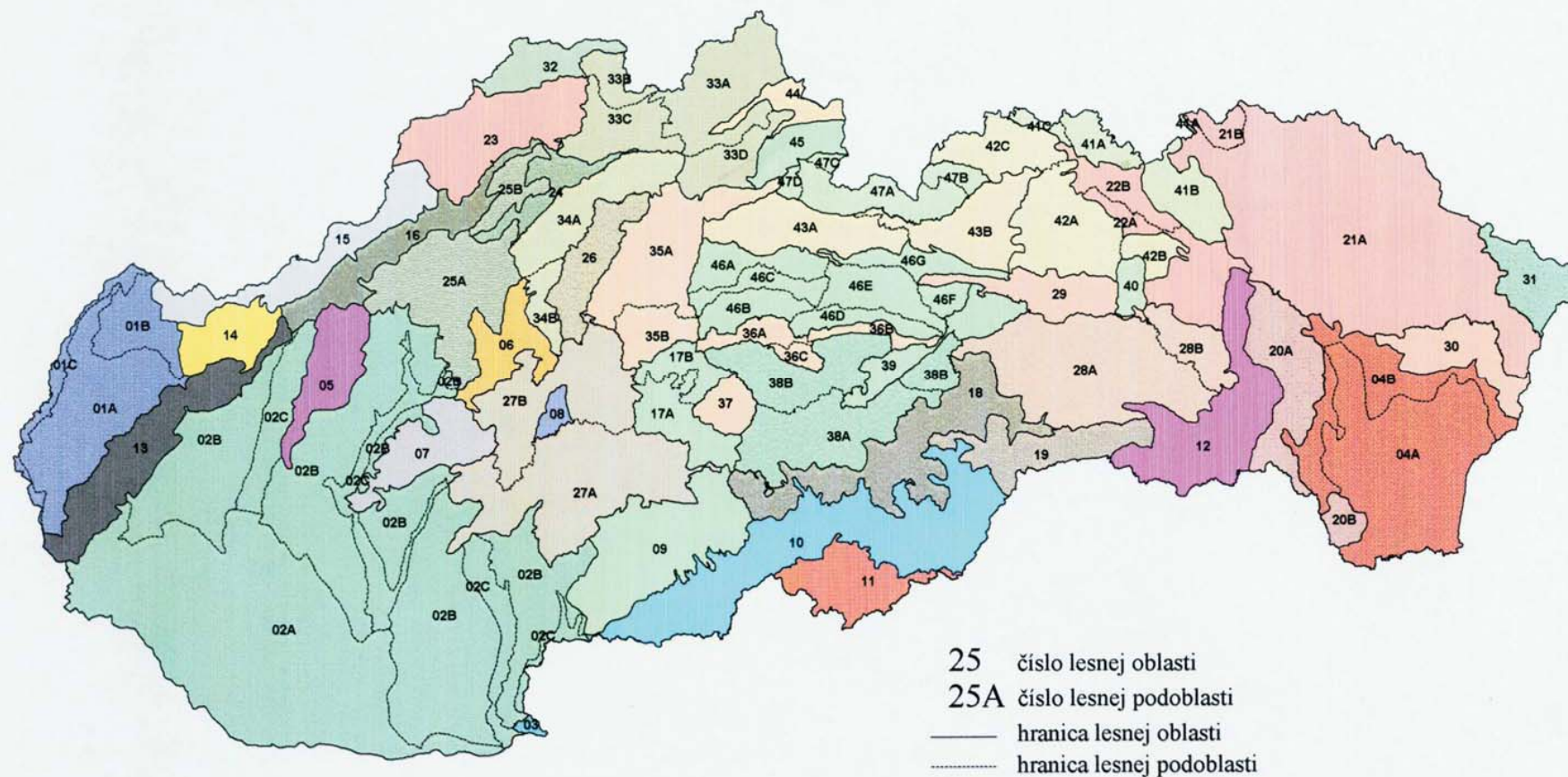


Coppice management in Slovakia

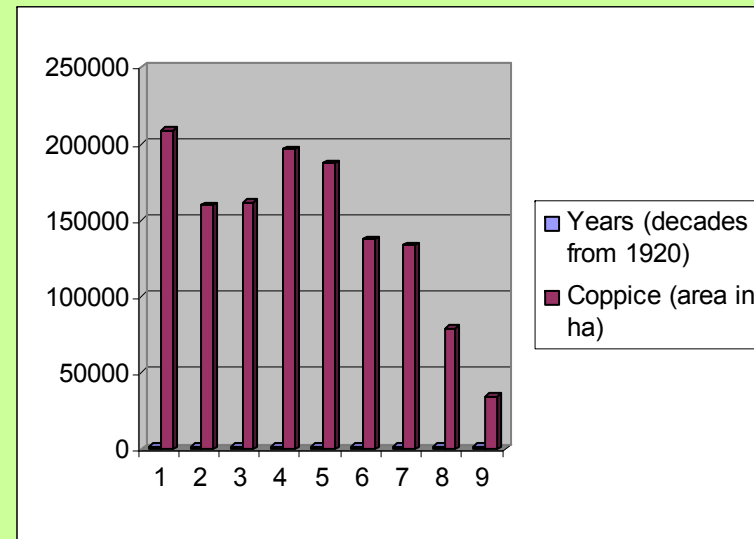
Alexander Fehér
SPU Nitra

Lesné oblasti a podoblasti Slovenska



COPPICE

- **Low:** typical coppice (but in process of decrease)
- in 1920: 208 438 ha,
- in 1930: 159 433 ha,
- in 1940: 161 396 ha,
- in 1950: 196 481 ha,
- in 1960: 187 347 ha,
- in 1970: 137 388 ha,
- in 1980: 133 461 ha,
- in 1990: 79 324 ha,
- in 2011: 34 463 ha (1,8 %) plus 76 216 ha (3,9 %) of high forest from coppice of first generation (the last category is according to the Country Act nr. 453/2006, § 19), source: Gulka 1999 completed by Fehér



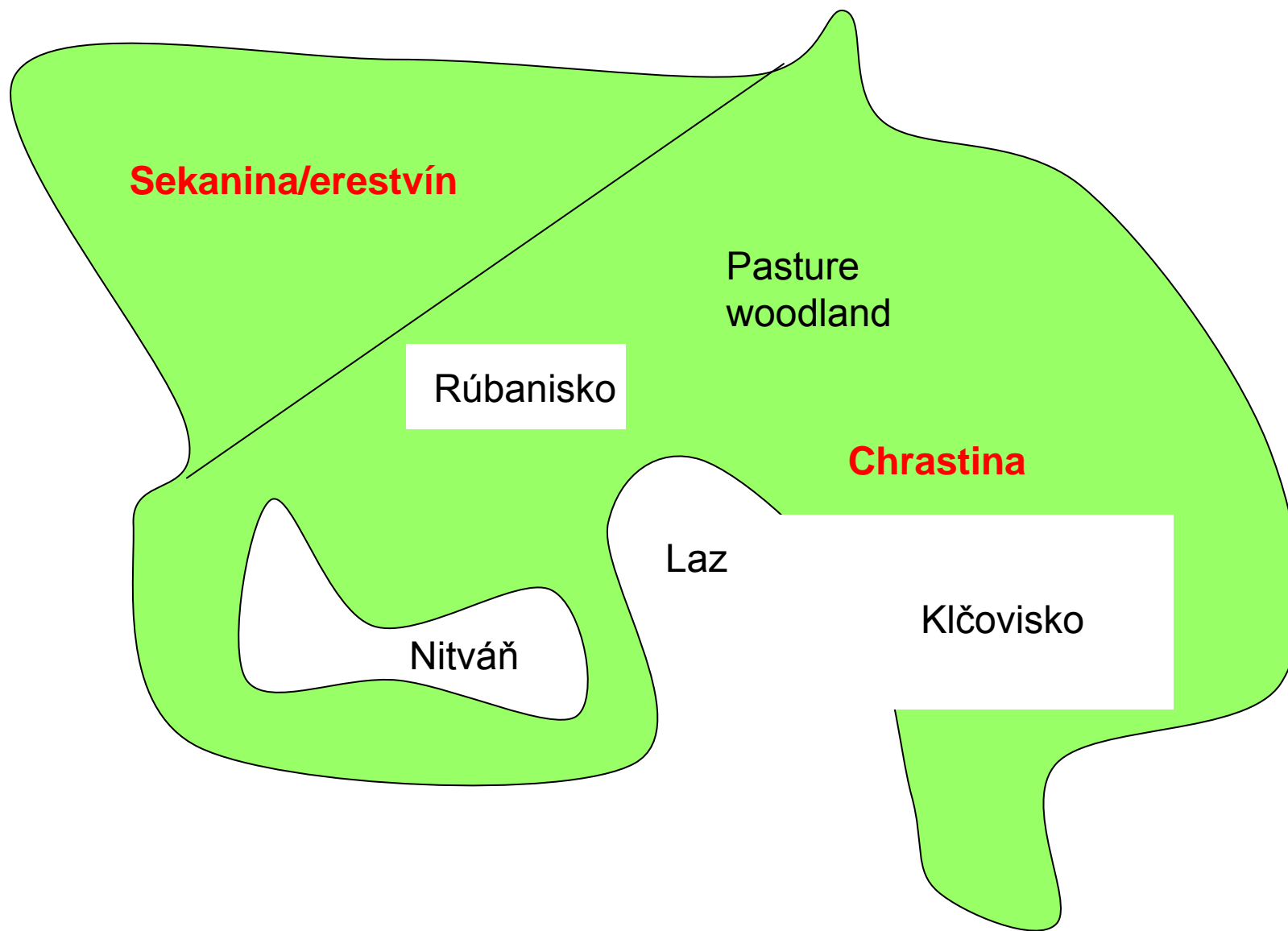
- **high (pollarding)**: historically common, nowadays casual by private persons, usually illegal (now: mostly *Salix*, less *Morus* and *Robinia*, in the 19. century: also applied at oaks e.g. „Kopfwirtschaft“ in the Upper Nitra region, Pantocsek 1898),
- **coppice-with-standards**: the recommended coppice management

- **short rotation coppice:**

A total area of SRC on forest land of Slovakia is **520 ha**. Expected annual production 10 t dry matter. Potential area for SRC on forest land is 15 000 ha. According estimations of the National Forest Centre theoretical potential for SRC on agricultural land in Slovakia is 45 000 ha (however currently there are only about **150 ha** of SRC).

The main tree species used are *Salix* and *Populus*. Rotation time reaches from three to ten years, expected annual yield is in the range of 12-18 t biomass per hectar (6-10 t dry matter under good conditions and management) (Oravec, Slamka 2013).

- **Species used in different types of coppice:** *Quercus cerris*, *Quercus petraea* agg., *Carpinus betulus*, *Fagus sylvatica*, *Robinia pseudacacia*, but in short rotation coppice: *Salix*, *Populus* (no *Robinia* in future short rotation coppice – it is prohibited to establish new black locust stands, it is registered in the official list of invasive plant species from 2011, according to the Slovak legislation).
- **Rotation of coppice stands:** low *Quercus* forest (20)30-40 years, short rotation coppice: 3-(7, 20) years
- **Number of coppice cycles** per species, per coppice types: – in the history: uncountable, nowadays: no exact data, locally different, in short rotation coppice expected approx. 7-9 cycles.
- **Cutting season:** winter



Traditional habitat names in the Nitra region

Thank you