

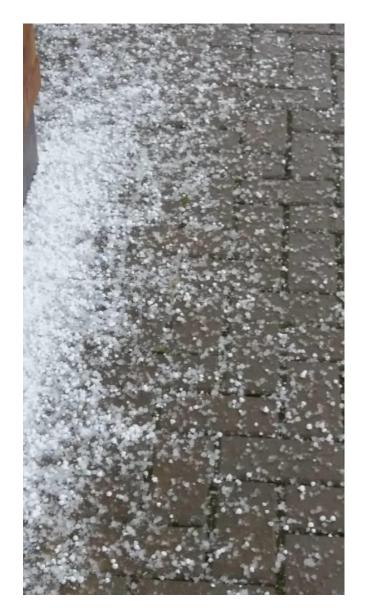
Sustainable practices of Lithuanian agriculture and bioeconomy

Prof. PhD Kęstutis Romaneckas

Local system of bioeconomy and renewable energy in rural areas – good practices in value chains and policies



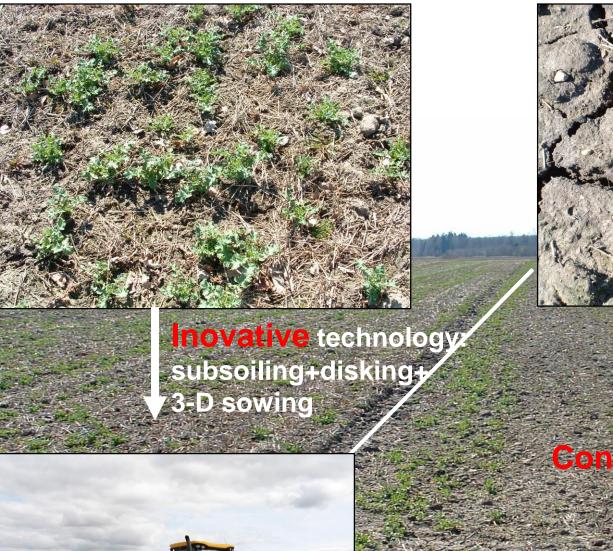
HAIL

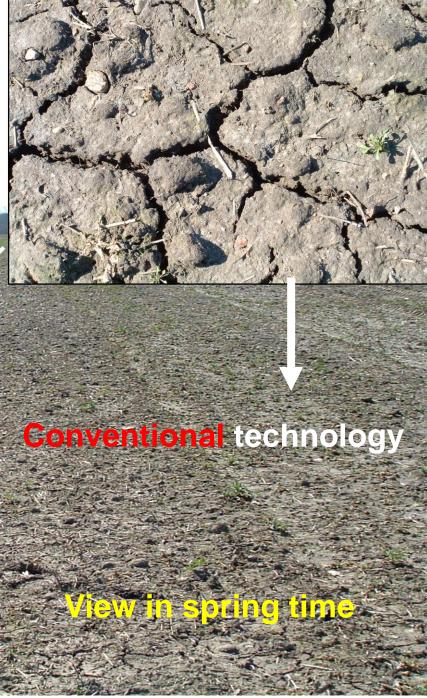




FROSTBITE and EMBOSSING







Decrease of soil hydrological properties / infiltration





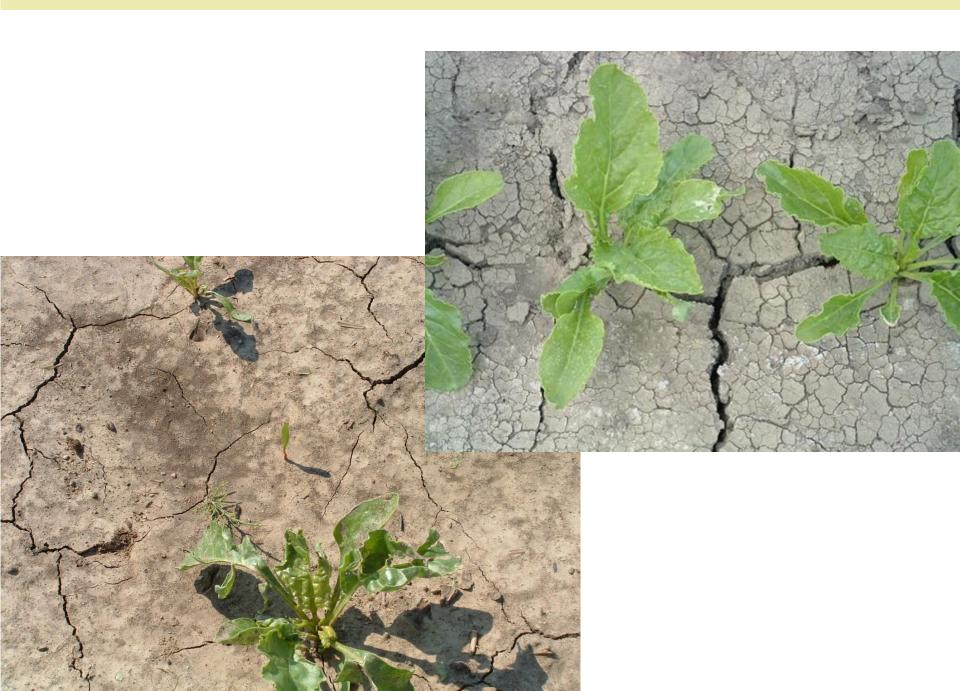
Damaging of soil structure

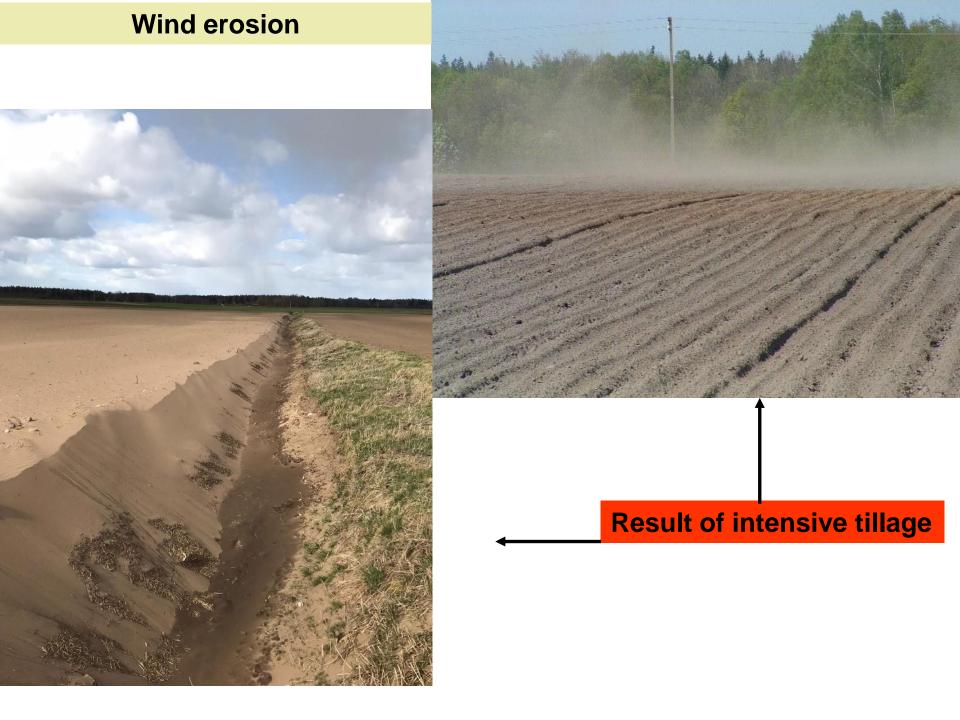




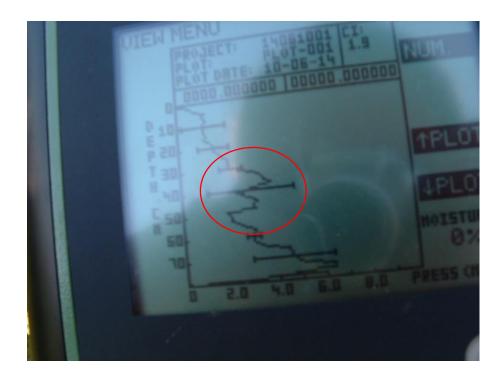


Formation of soil crust





Soil compression and hardpans















Sub-soiling – good choice



Deeply ploughed



Subsoiled up to 40 cm



Weed and crop interaction









Alternatives are direct or stubble sowing and the cultivation of intercropping ("living mulch"). 2003-2005 m.(Romaneckas, Šarauskis et al.), 2009-2011, (Adamavičienė, Romaneckas et al.), 2015-2017 (Eimutytė, Romaneckas et al.)









Inter-row steaming









Multi-cropping



Mono-crop (maize)



Binary-crop (maize+hemp)



The same later



Binary-crop (hemp+faba bean)



Later



Ternary-crop (maize+hemp+faba bean)



Later

Permaculture



Tomatoes in wild grassland - relation of the wild and domestic nature



Tomatoes-pumkins-weeds: all together



Potatoes, replaced on the grassland surface and mulched

Thank You

