



Wetland types

The EU Habitat Directive lists some 40 wetland habitat types -33 types are found in Estonia

- marine and coastal
- estuarine
- lacustrine
- riverinepalustrine
- parusti me

• anthropogenic wetlands including constructed wetlands (sewage treatment plants) and reservoirs

Wetland area

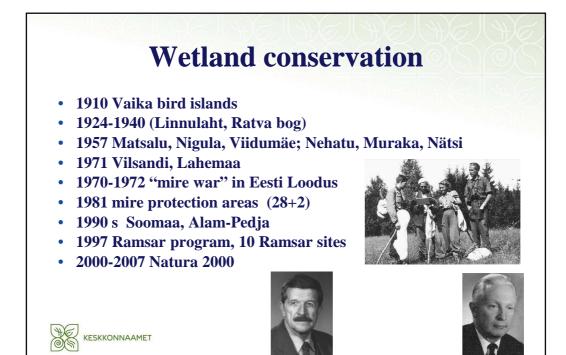
900 160 ha – area of wetland habitats reflected in the Natura 2000 database

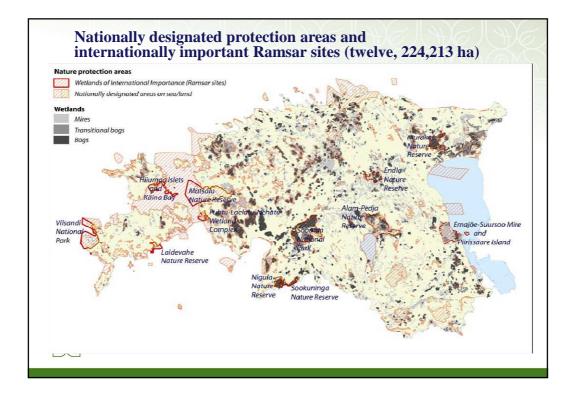
As detailed mapping has not conducted for several habitats there are only preliminary and rough area estimations

Although the data base includes not all wetland types, also there are differences on interpretation of habitat types.

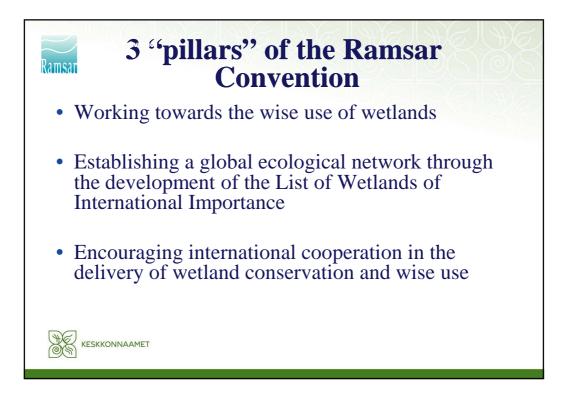
Consequently, the actual area of preserved wetlands in Estonia is most likely over a million hectares





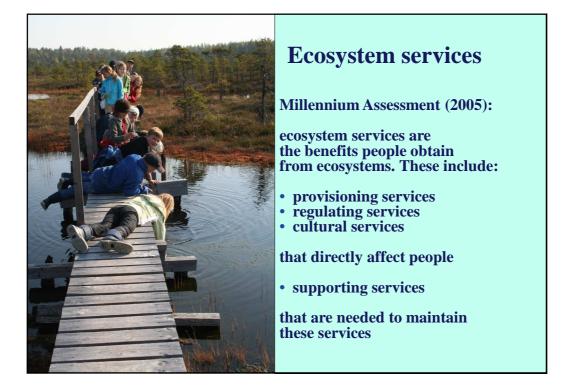




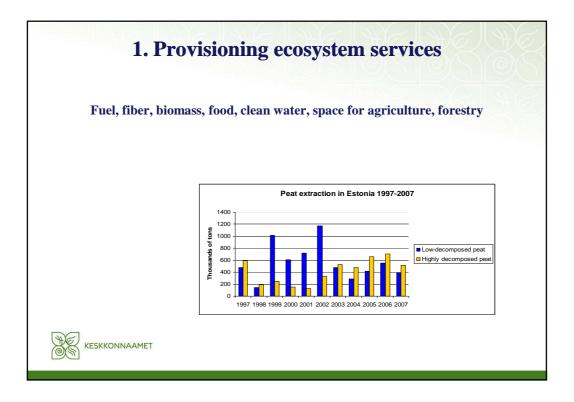


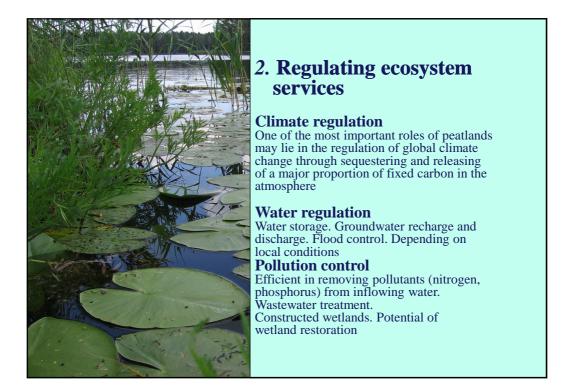


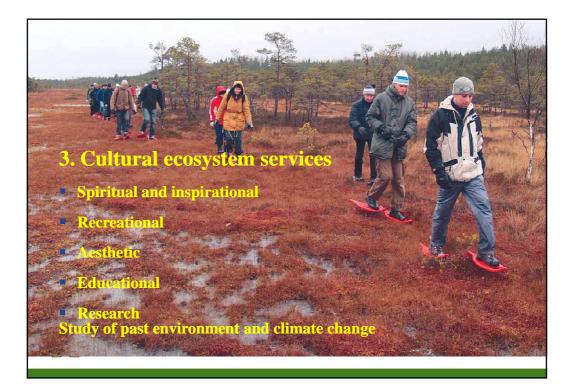


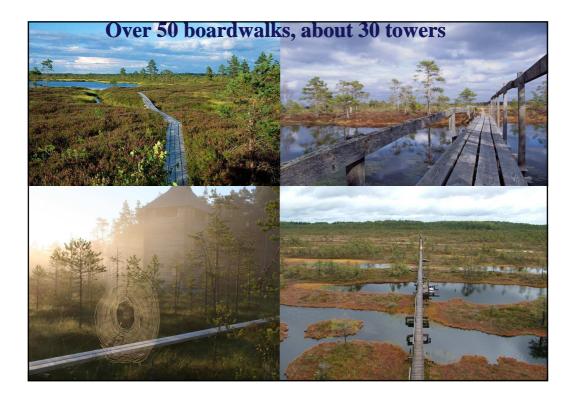


Services	Explanation (sub-services)	Most relevant
Provisioning		メメメメメ
Fuel	Peat (heat and electricity production);	Peatlands, constructed
	fuel wood	energy wetlands
Fiber (materials)	Gardening peat, reed and cattail (construction), wood, hay	Peatlands, reedbeds,
		floodplain and coastal meadows
Food	Fish (coastal and inland lake fisheries), berries	Low sea, lakes, rivers, peatlands, wet forests
Biochemical products	Peat in chemical industry; curative mud; herbs as natural medicines	Peatlands
Land	For grazing	Coastal meadows
Fresh water	Drinking water	Some rivers
Regulating		
Climate regulation	Regulation of greenhouse gases (source and sink)	Peatlands
Hydrological regimes	Groundwater recharge and discharge; storage of water	Rivers, lakes, peatlands
Pollution control	Retention, recovery and removal of excess nutrients and pollutants	Rivers, constructed wetlands
Natural hazards	Flood control, storm protection	Floodplains, coastal wetlands
Cultural		
Spiritual and inspirational	Personal feelings and well-being ("home landscape", island of silence)	All, in particular bogs, coastal meadows
Recreational	Opportunities for tourism and recreational activities; bird watching	All, in paricular peatlands, coastal and floodplain meadows
Aesthetic	Appreciation of natural features	All wetlands
Educational	Opportunities for formal and informal education and training	All wetlands
Research	Sediments as an archive for study, survey field	Peatlands, lakes
Supporting		
Biodiversity	Habitats for species	All wetlands
Soil formation KESKKON	Sediment retention and accumulation of organic matter (peat accumulation) NAAMET	All wetlands
Nutrient cycling	Storage, recycling, processing and acquisition of nutrients	All wetlands











4. Supporting ecosystem services

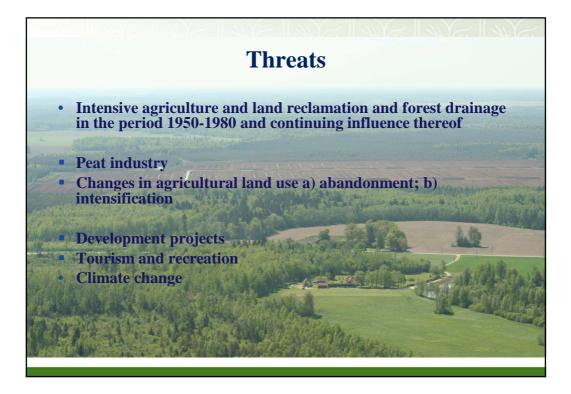
Soil formation

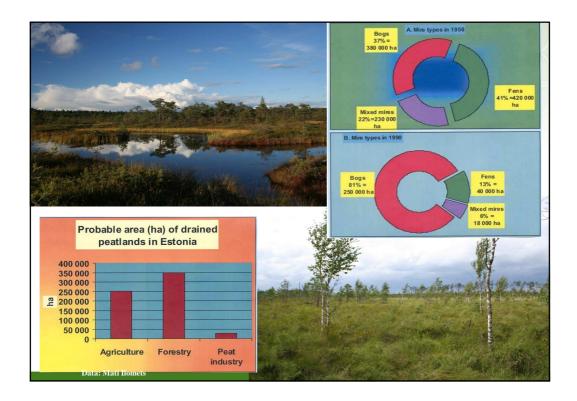
Nutrient cycling

Biodiversity

33 wetland habitat types (6 priority habitats for EU)

117 species of European importance depend on wetlands





The first results of studies have shown that one of the main ecosystem services of peatlands, the accumulation of carbon and the binding of CO_2 , has fallen in quantity in Estonia

due to drainage, Estonian peatlands have turned into sources of carbon gases instead of sinks

the need to restore degraded peatlands to natural ecosystems is evident



