

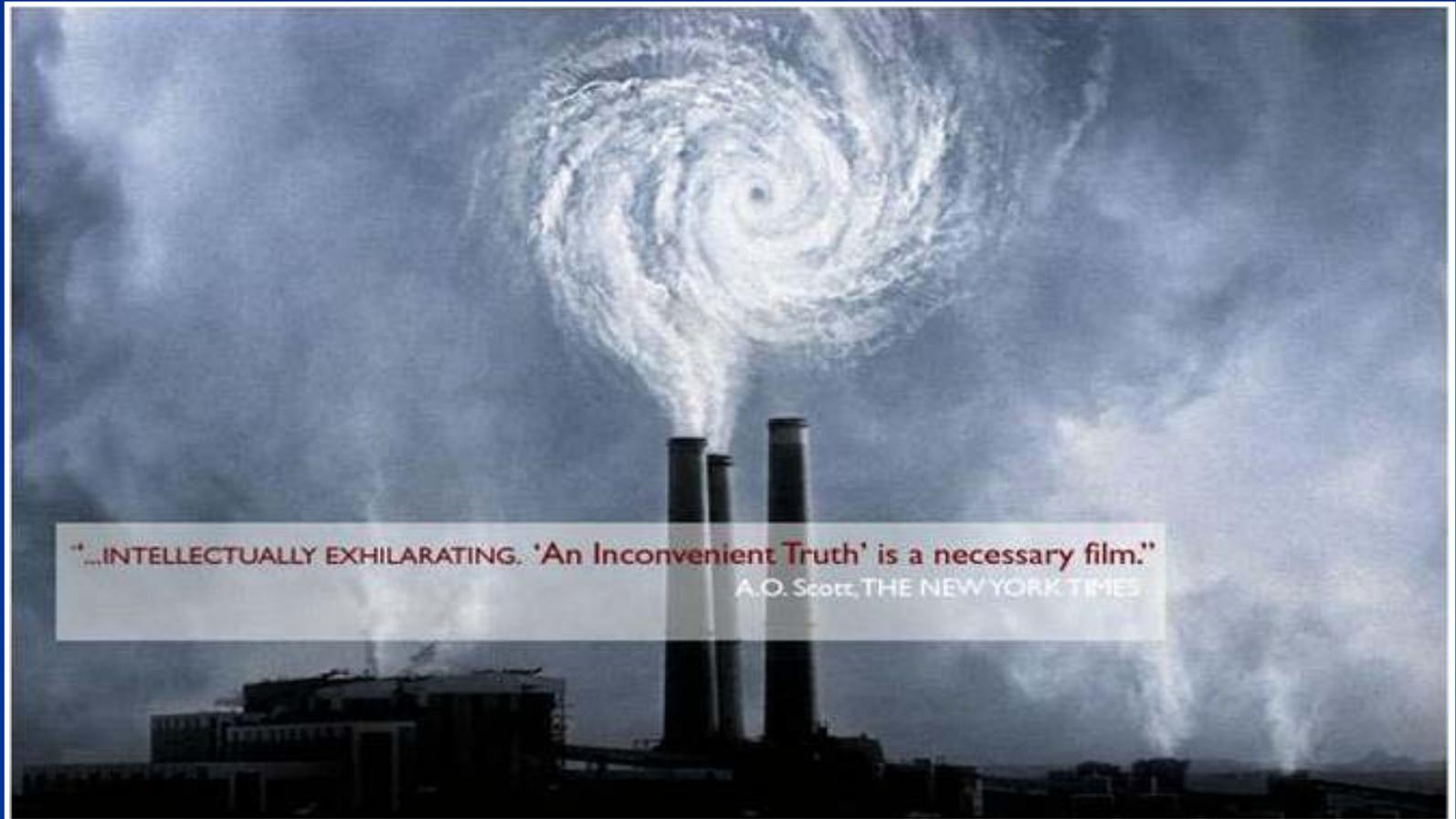
Are the remedies more harmful than the disease itself?



Tomaž Jančar, DOPPS-BirdLife Slovenia
Bovec, 16. september 2011
Letna strokovna konferenca CIPRA

Desease: Climate crisis

Global warming



"...INTELLECTUALLY EXHILARATING. 'An Inconvenient Truth' is a necessary film."
A.O. Scott, THE NEW YORK TIMES

Threat to biodiversity

- Shift of ranges several 100 km towards NE
- Some species will go extinct
- In quarter of species regional extinction is expected



Remedy?

- To stop emissions of green-house gasses
- In midterm *AL* energy should be produced from low carbon and renewable sources

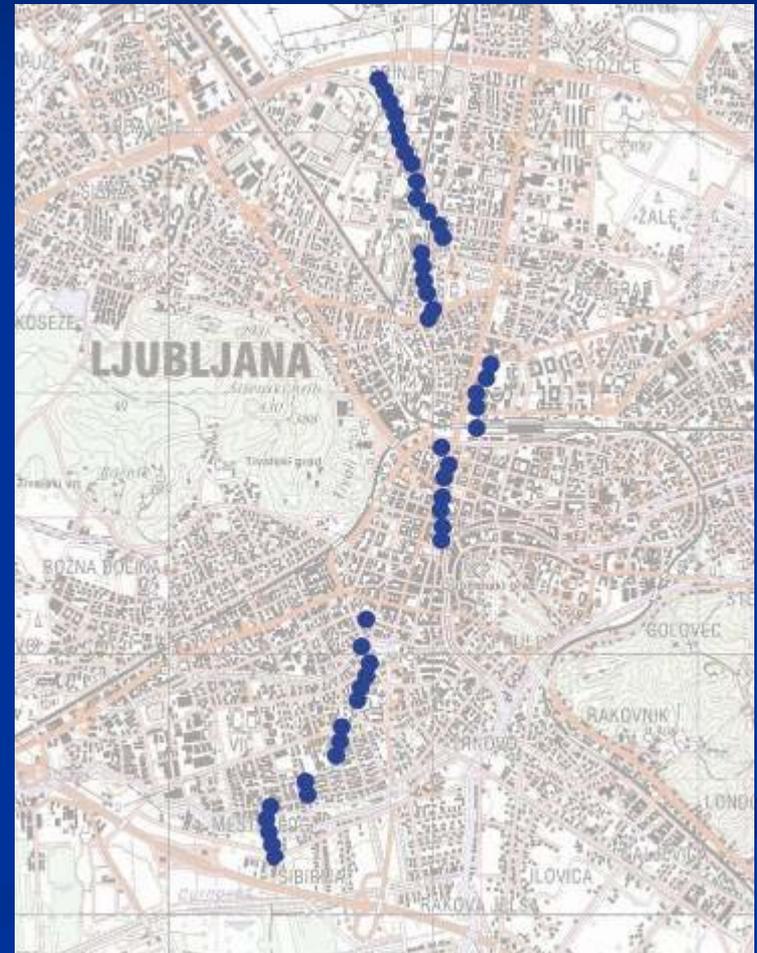


100% energy from renewables



Key problems of RE

- Require large area
 - Thermal power stations in Slovenia 5.3 TWh, to replace:
 - 72 Wind farms size of Volovja reber WF
 - 3.361 wind turbines V52
 - 500 km of mountain ridges



Key problems of RE

- Often claim last preserved areas of most valuable nature



Hydro



Stone curlew



Ptujsko jezero reservoir on river Drava



Soča gravel bars



River Mura at Slovenian-Croatian border



Breeding habitat of Sand Martin

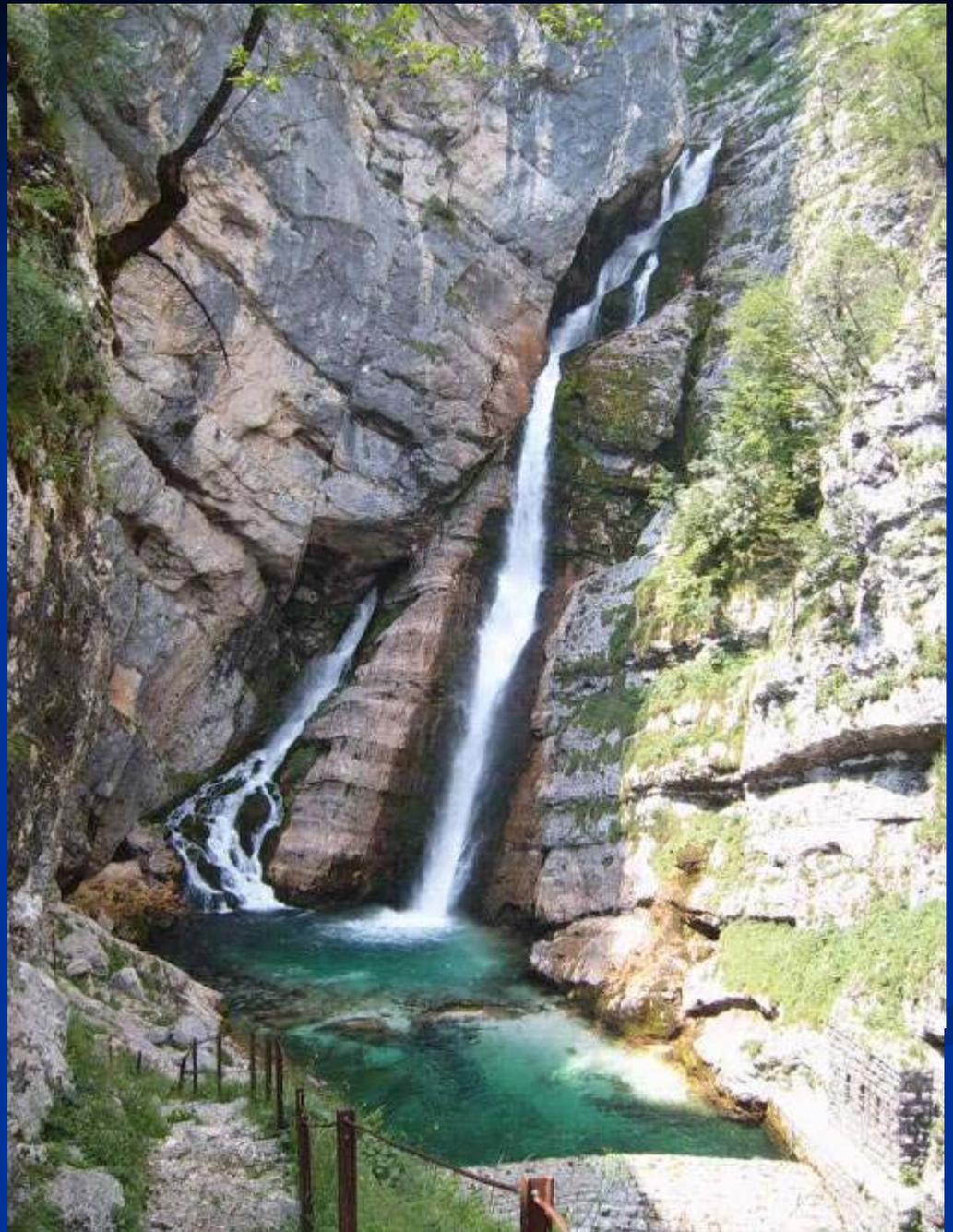




- 1912
- Carniolan land-parliament
- Nature Beauties Act
- Industrial use not allowed
 - Bled Vintgar gorge
 - Peričnik waterfall
 - and ...

- ...Savica waterfall

- 1916 HE Savica



Wind



Birds

- Wind turbines kill birds
 - most wind turbines are not problematic



Avtocesta Dunaj - Bratislava

Large raptors

- Problem are wind turbines in habitat of large raptors:
 - Golden eagle: 94 eagles killed annually at Altamont pass Wind Resource Area

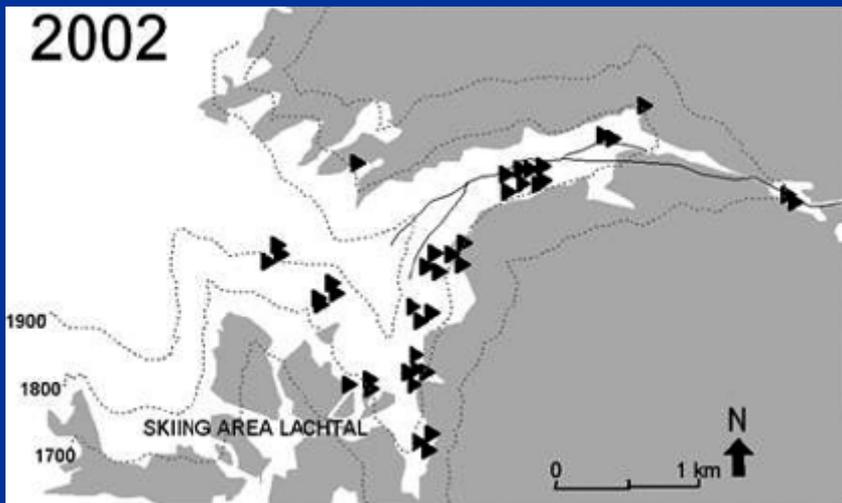


Griffon Vulture, Tahivilla, Andaluzija, Španija

Griffon Vulture

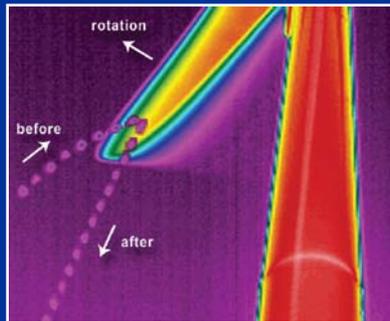
- 1000 G. Vultures are killed annually in Spain
- Salajones Wind farm: 8 Vultures per turbine killed annually





Bats

- Wind turbines attract bats
- 6 weeks survey 2004 in USA:
 - WF in Pensilvanija: 1.764 bats
 - WF in W Virginija: 2.900 bats



Landscape

- Wind farms change landscape
 - degradation of scenic landscape



Plans in Slovenia: Nanos, Golič & Volovja reber



Solar



Solar panels in urban areas



- 200 MW potential at Slovenian landfill sites that are filled up

Solar power plants in nature



Gelemanovo, Bulgaria

Petrinjski kras

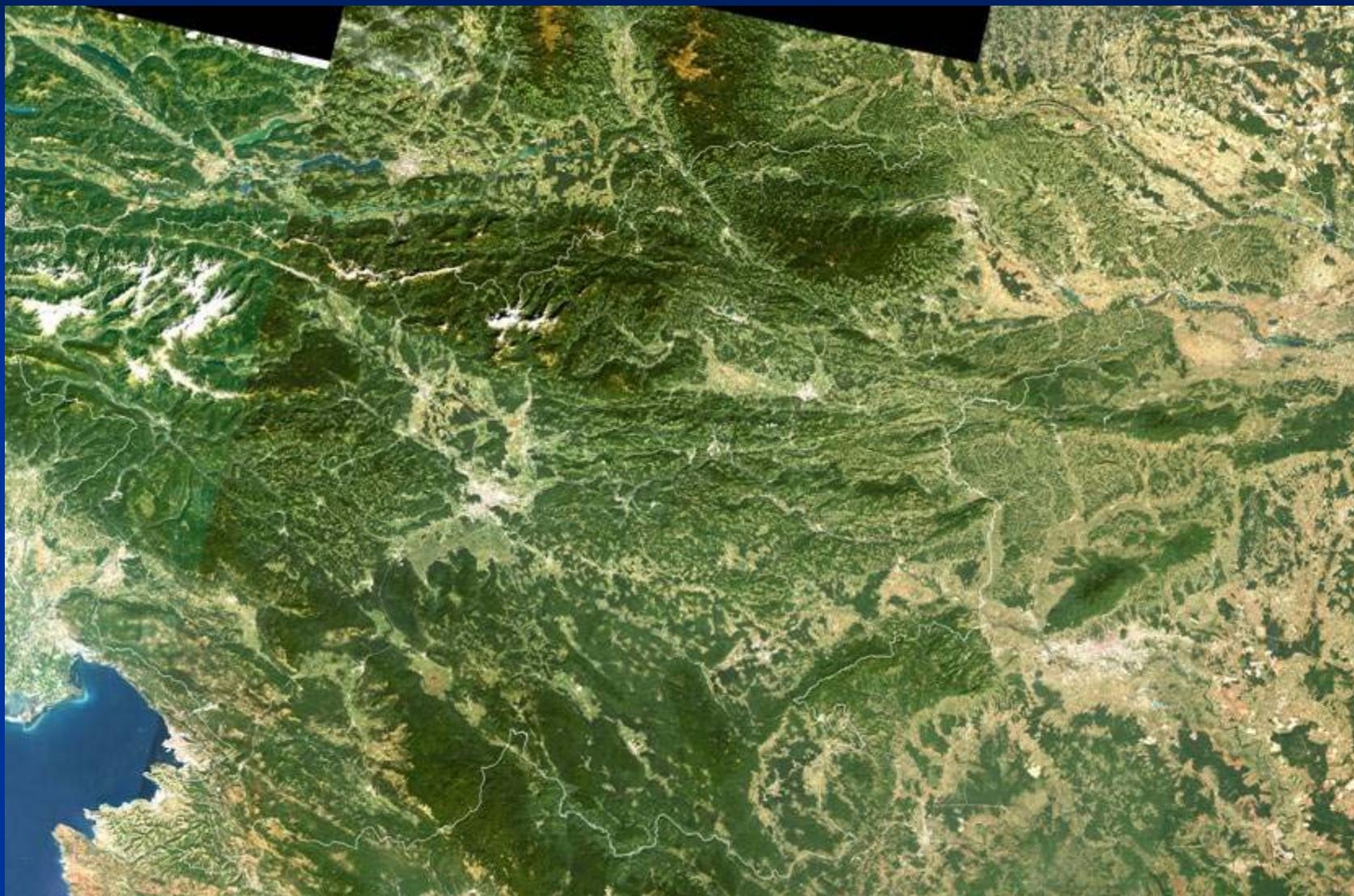


- 70 ha
- 35 MW
- 175 mio €

Biomass



Forests in Slovenia



Old grown forest specialists

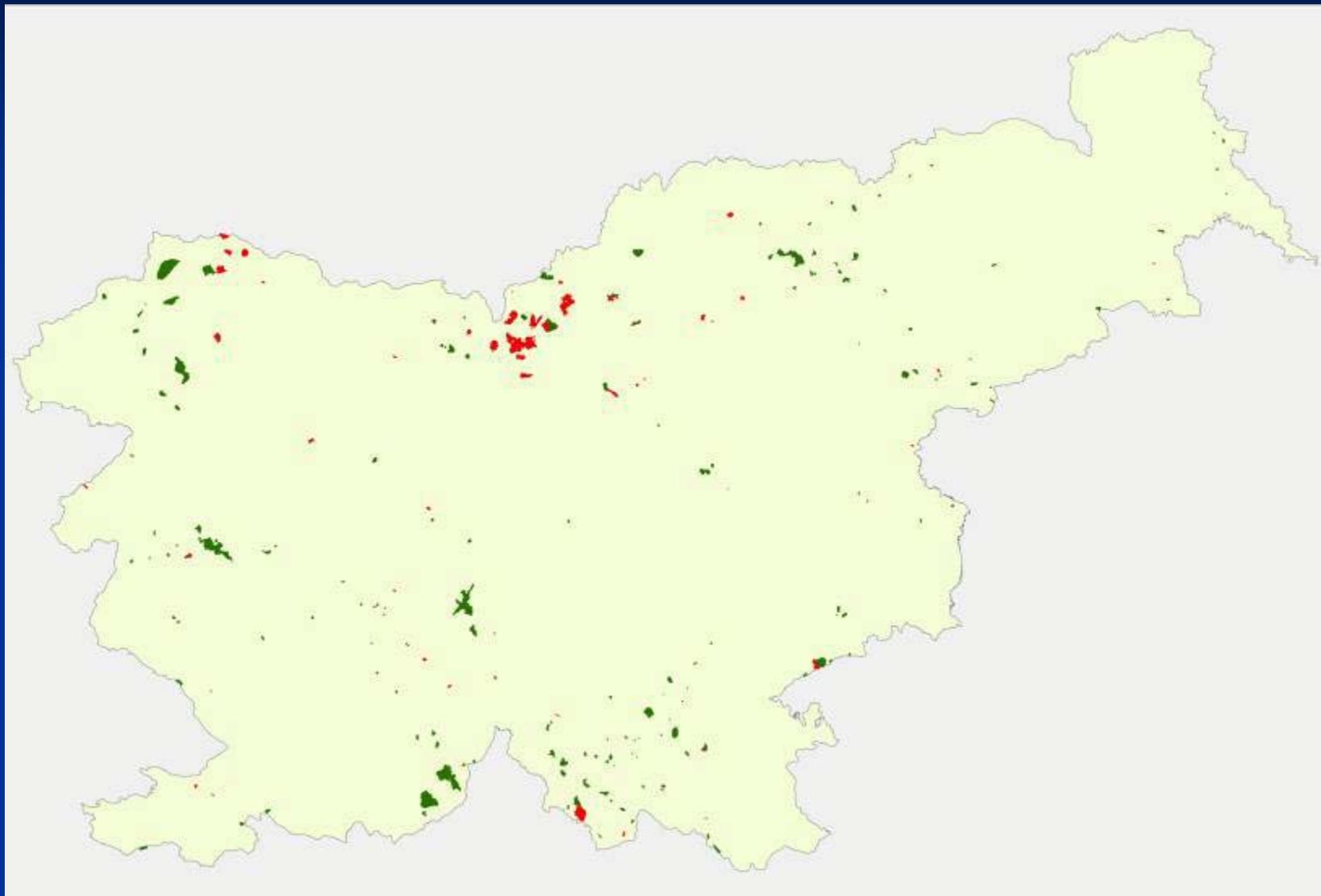


Red breasted flycatcher



White-backed Woodpecker

Forest reserves



Subventions for forest roads



State owned forests at Pokljuka, Triglav national park



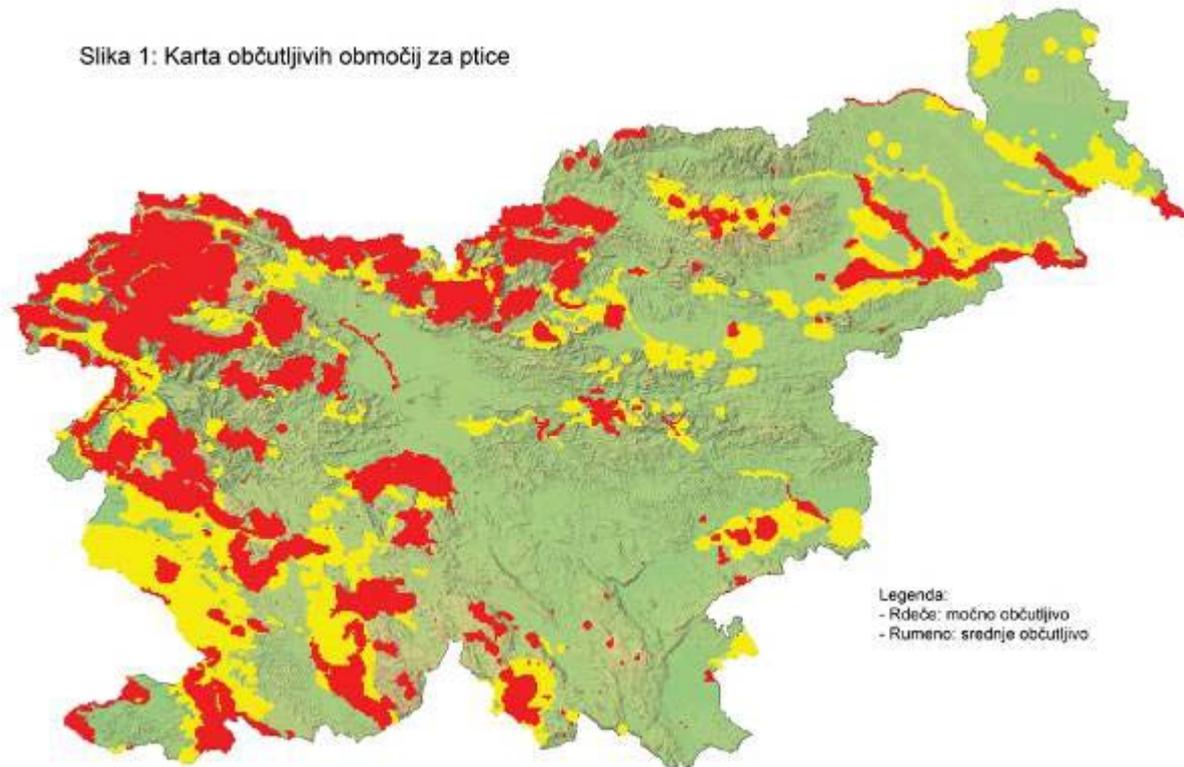
Renewable energy, another millstone around the neck?



Extremely hard task, but unavoidable

Sensitivity mapping

Slika 1: Karta občutljivih območij za ptice



Understanding interests of key stake-holders

Interest of energy producers

- Growth of energy production
- Maximizing profit
- As much public subsidies for RE as possible
- RE – opportunity for new business, profit and subsidies
- External costs left to wider society

Interest of environmentalists

- Large reduction in energy consumption
- Minimizing harm to environment
- Subsidies targeting harm that energetics cause to environment
- RE – opportunity for reducing harm to environment
- External costs to be included in price of energy

Hvala za pozornost!

