



Creative conservation; planning tools for (S)EIA

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Impact assessment as a design tool



- Landscape architecture is ... Creative conservation.

(Sylvia Crowe)

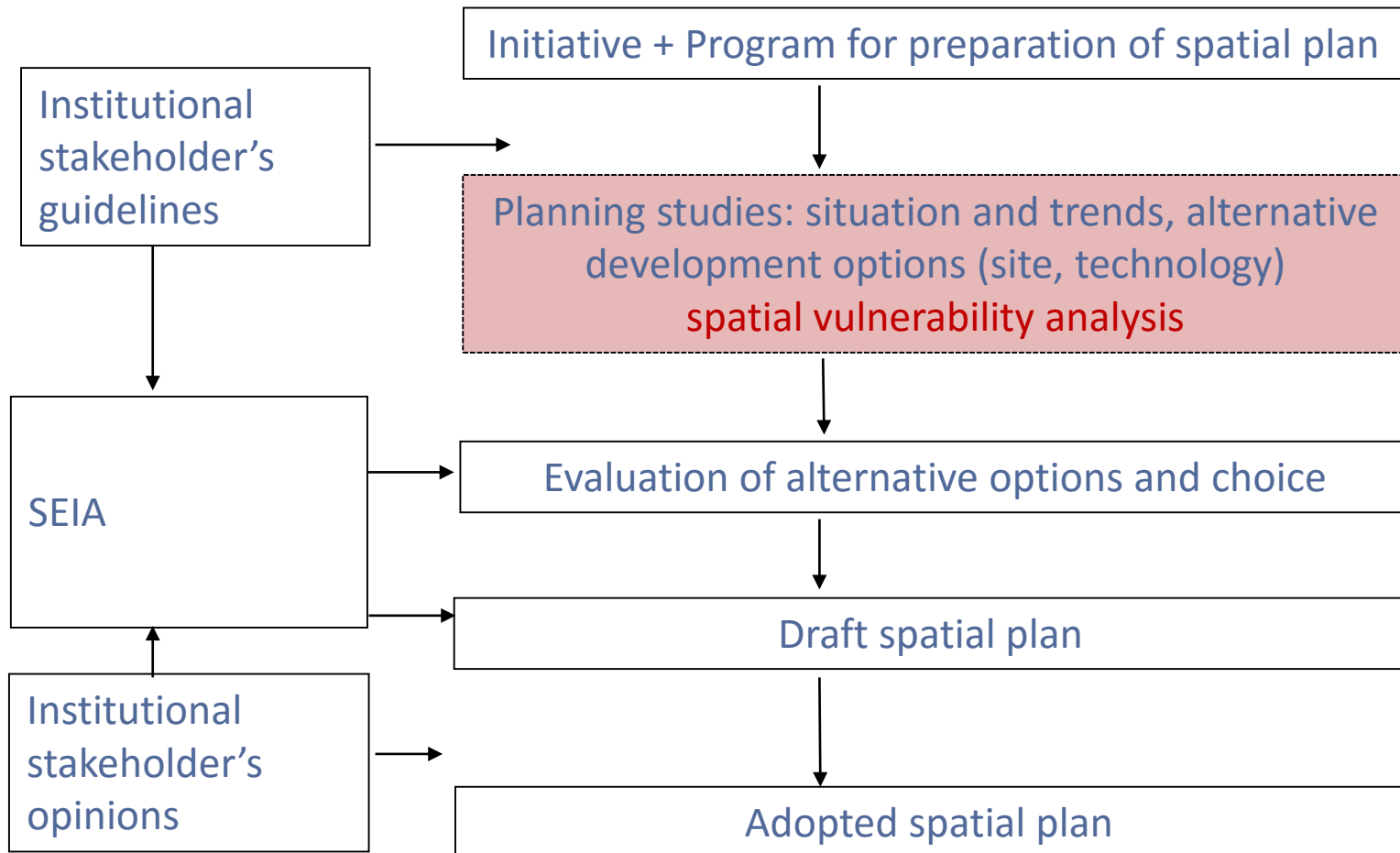




Planning vs. SEIA process

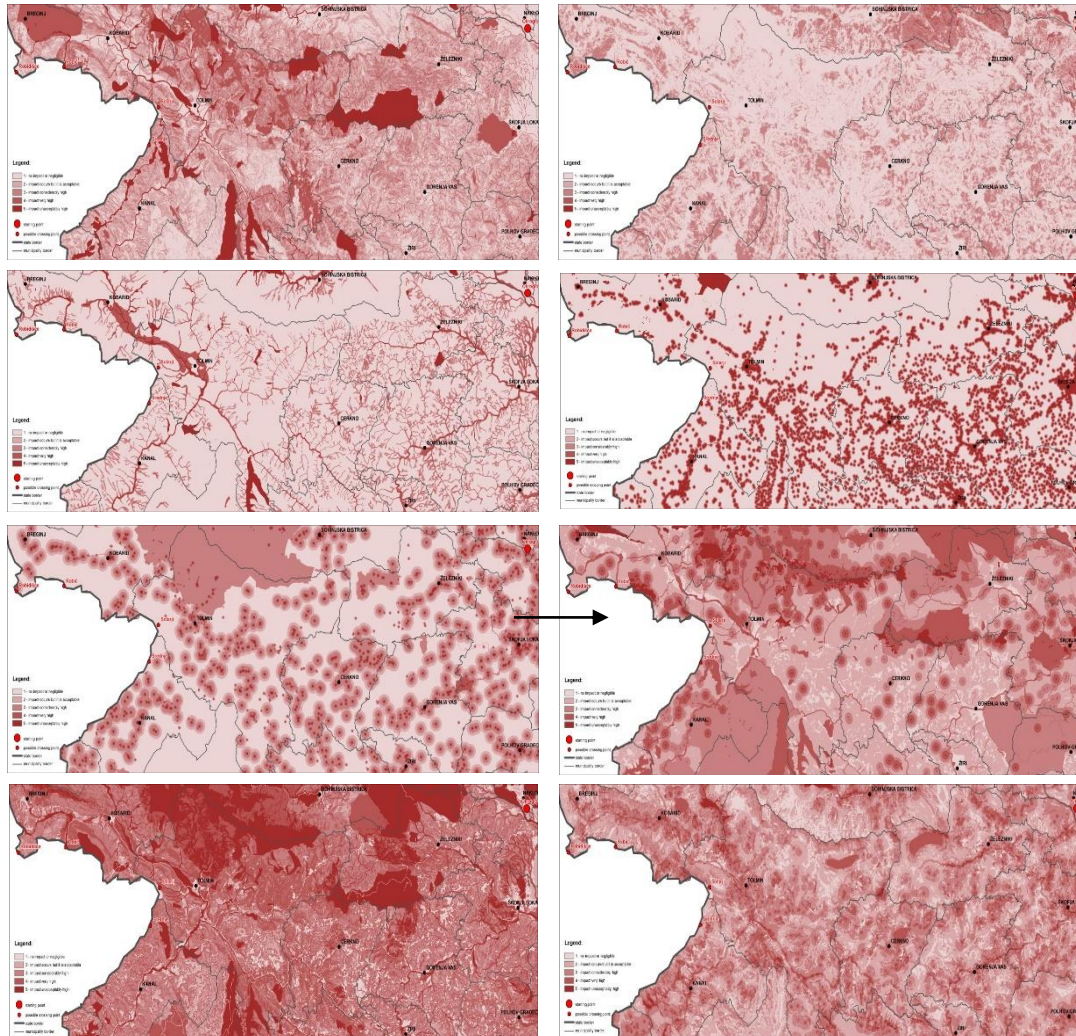
(S) EIA process

Spatial planning process

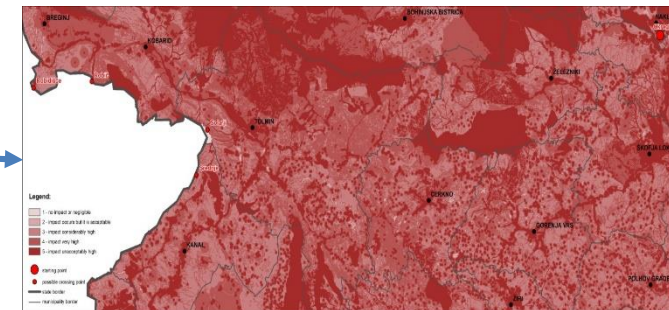




Vulnerability analysis



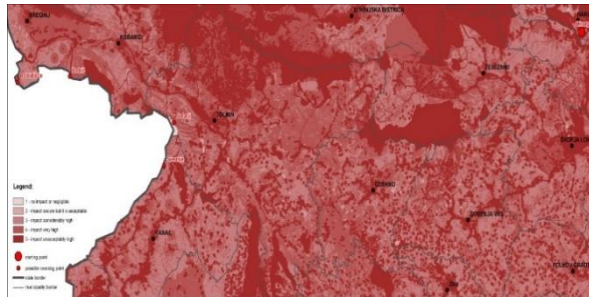
Mapping vulnerable
environmental features



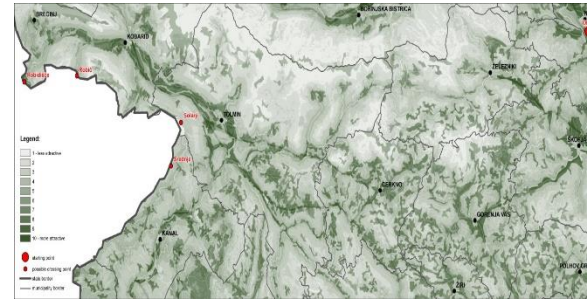
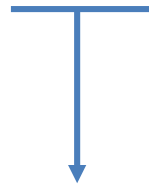
Environmental vulnerability map



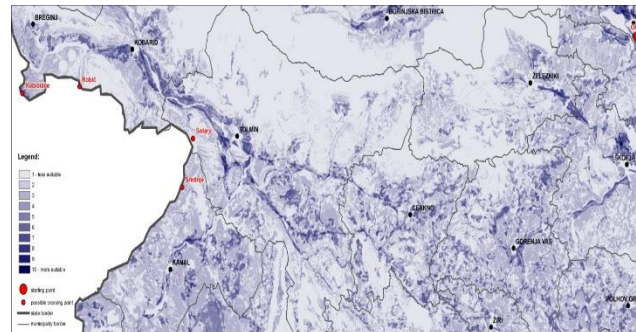
Most suitable corridors/areas



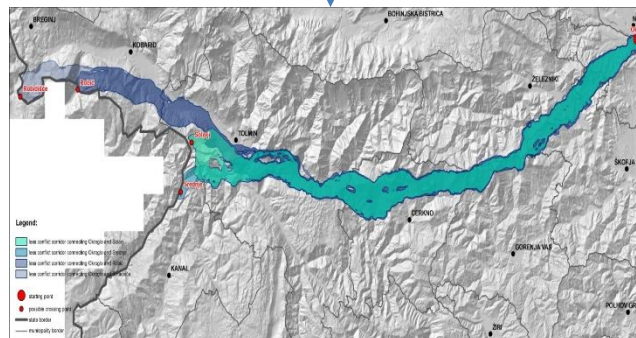
vulnerability



attractiveness



suitability

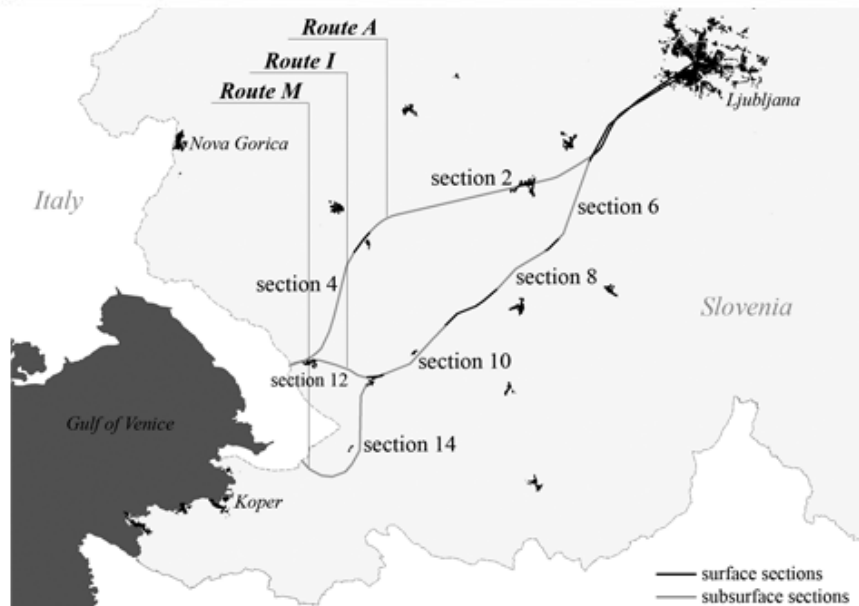


most suitable corridors

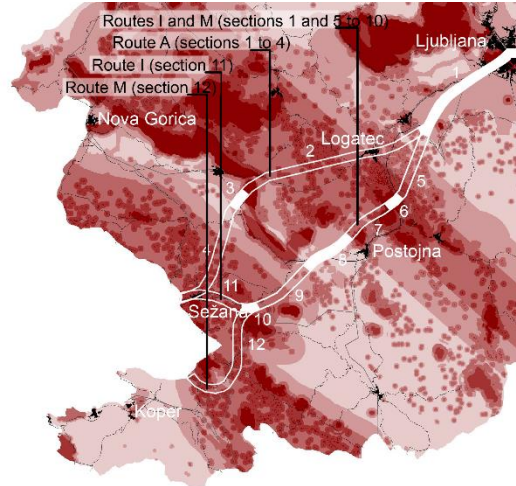
Marusic, Cof, 2007



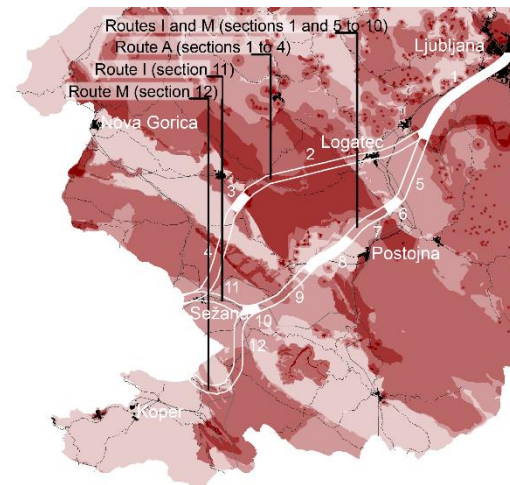
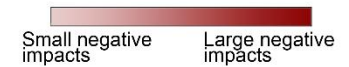
Applicability in SEA



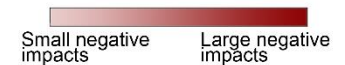
SEIA for high speed railway Ljubljana – Italian border (Kontić et al, 2005)



A map of geosphere vulnerability for HSR subsurface sections

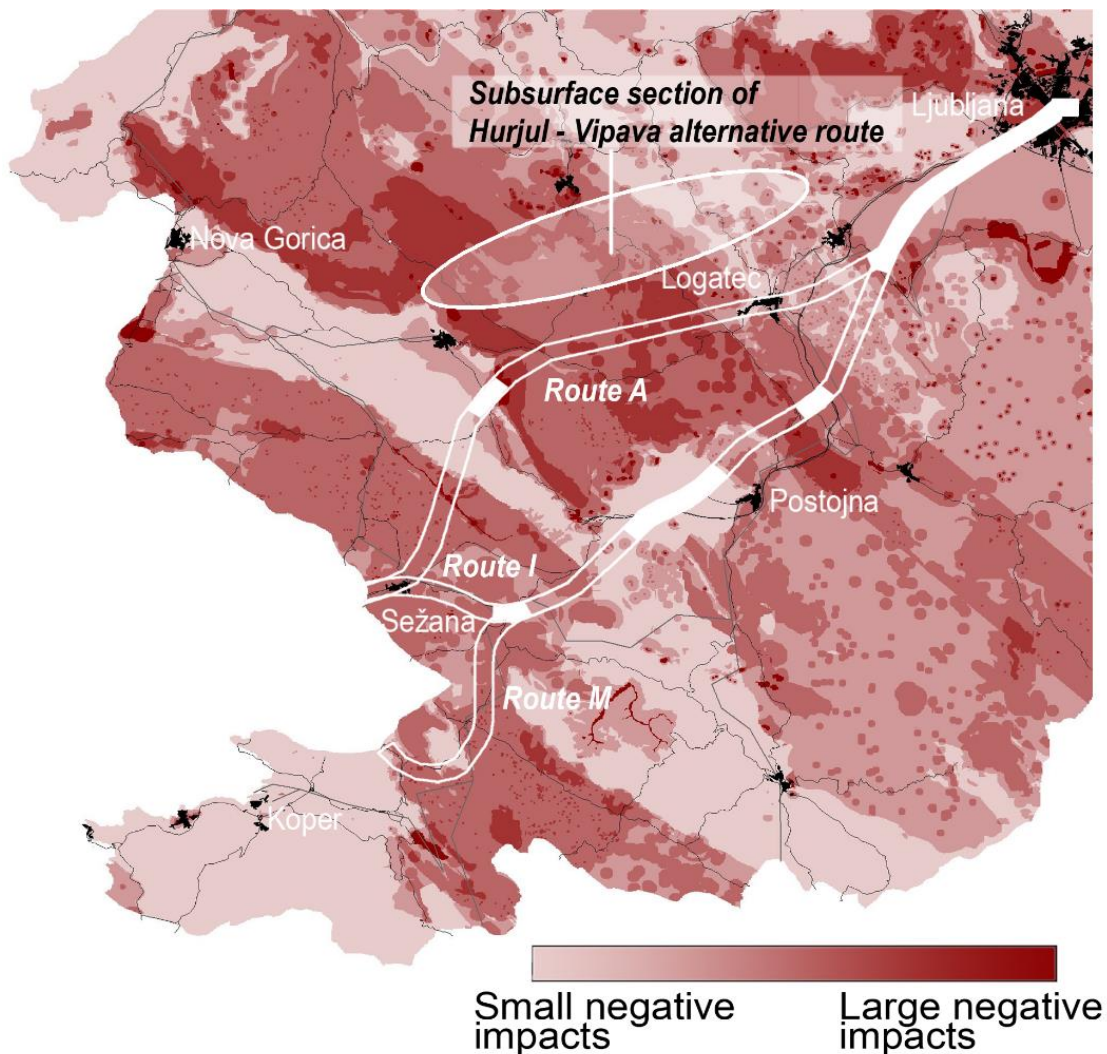


A map of vulnerability of water resources for HSR subsurface sections



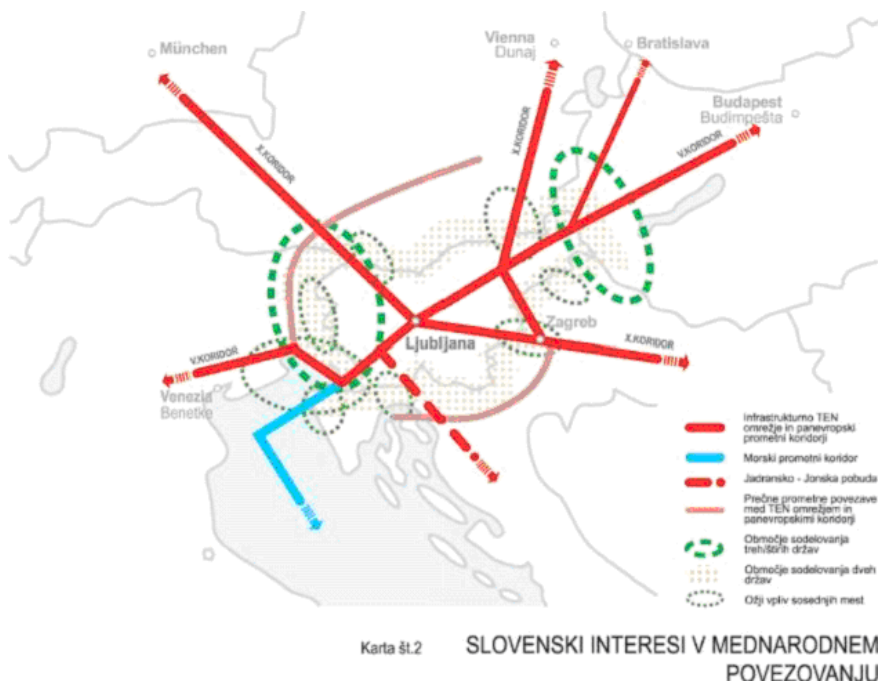


Alternative routes

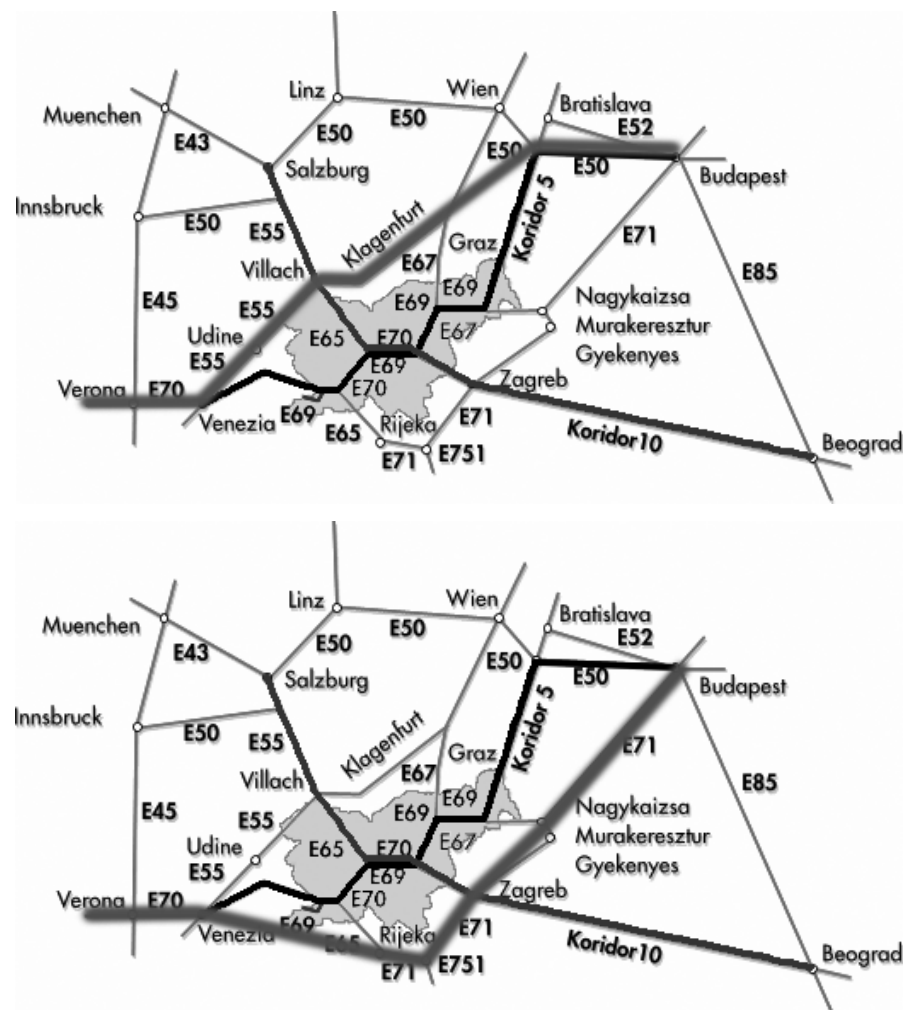




Alternative policies & concepts

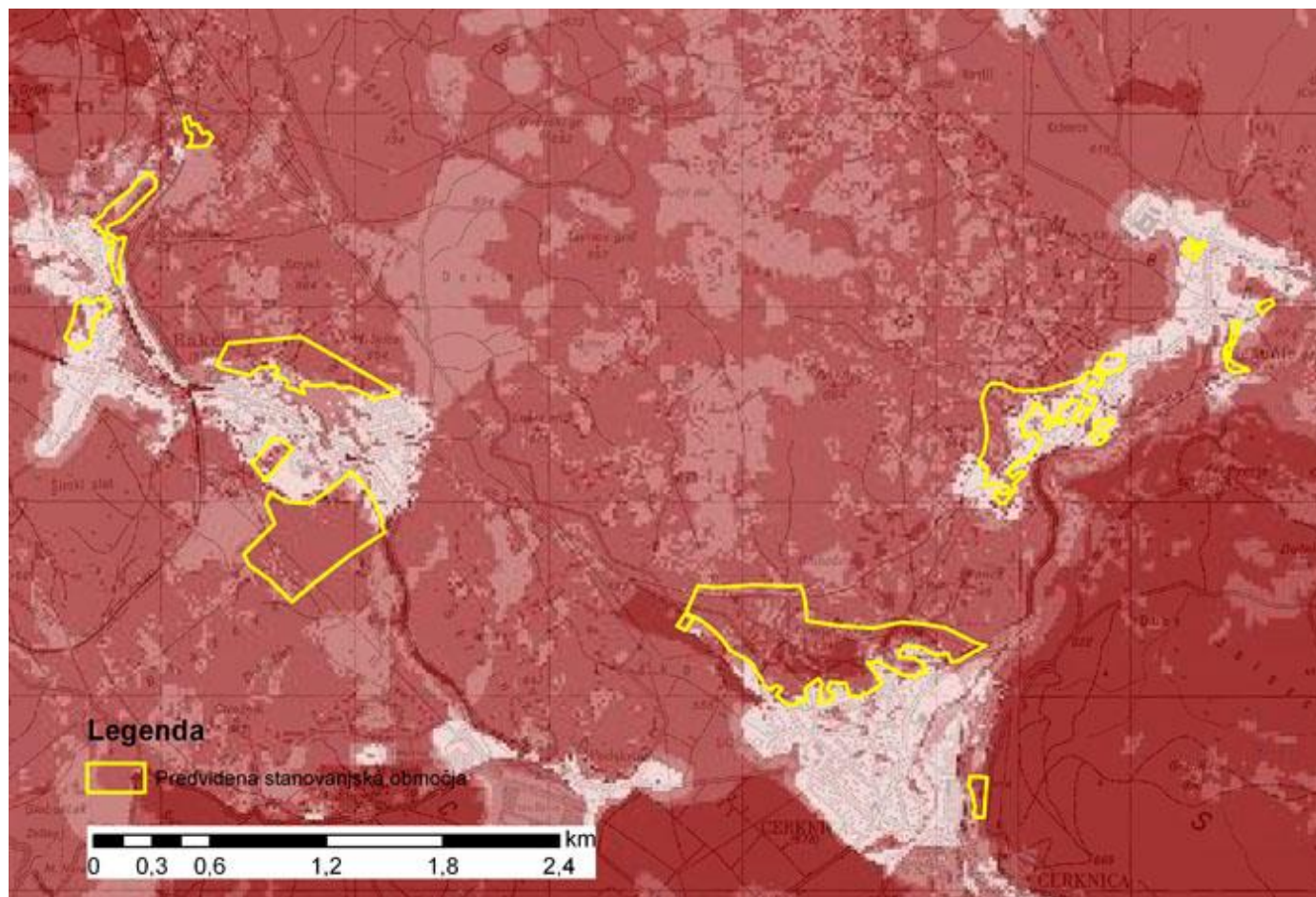


National spatial development strategy, 2004





SEA for land use plan



Vulnerability of landscape for proposed settlement areas in Cerknica Municipality land use plan, (Matko 2011)



Reference: zero alternative





Reference: alternative implementations



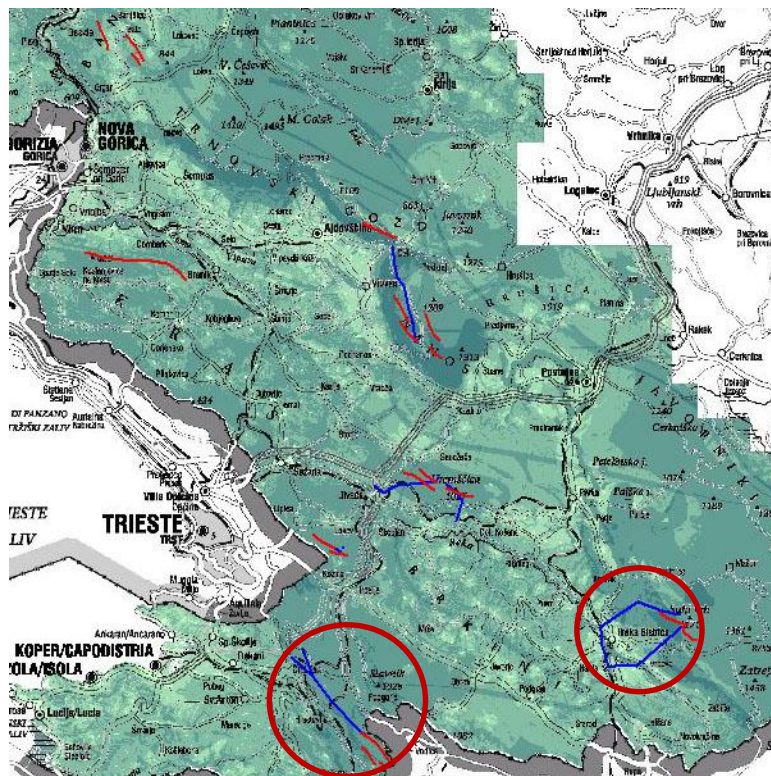
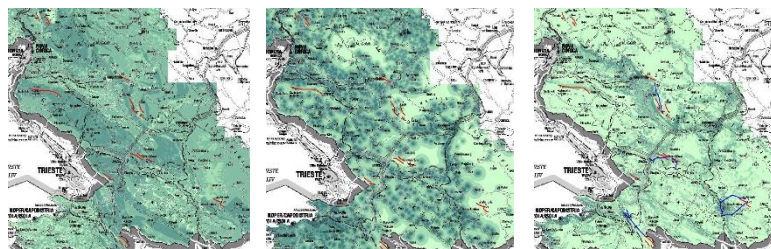


Proposing mitigation measures



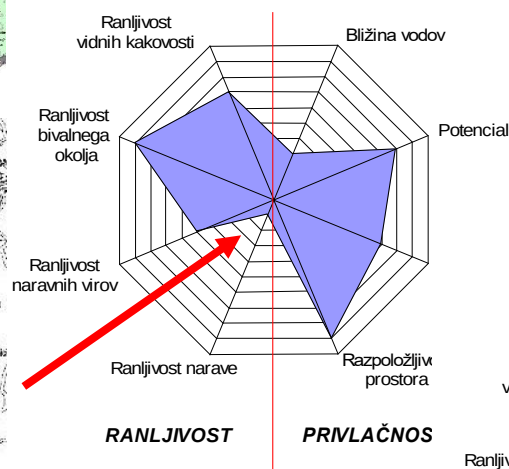


Prevailing practice...

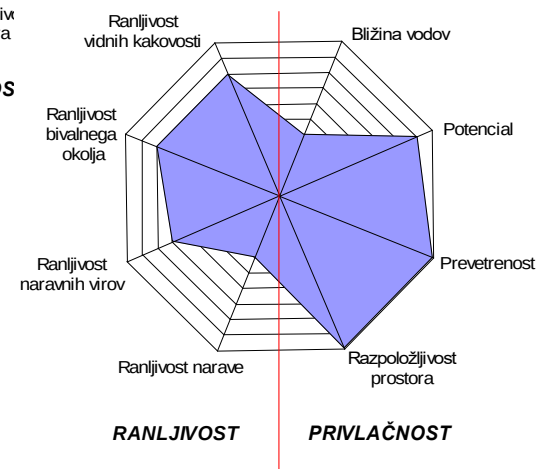


1st Wind power plant initiative: 2001

Volovja Reber



Golič

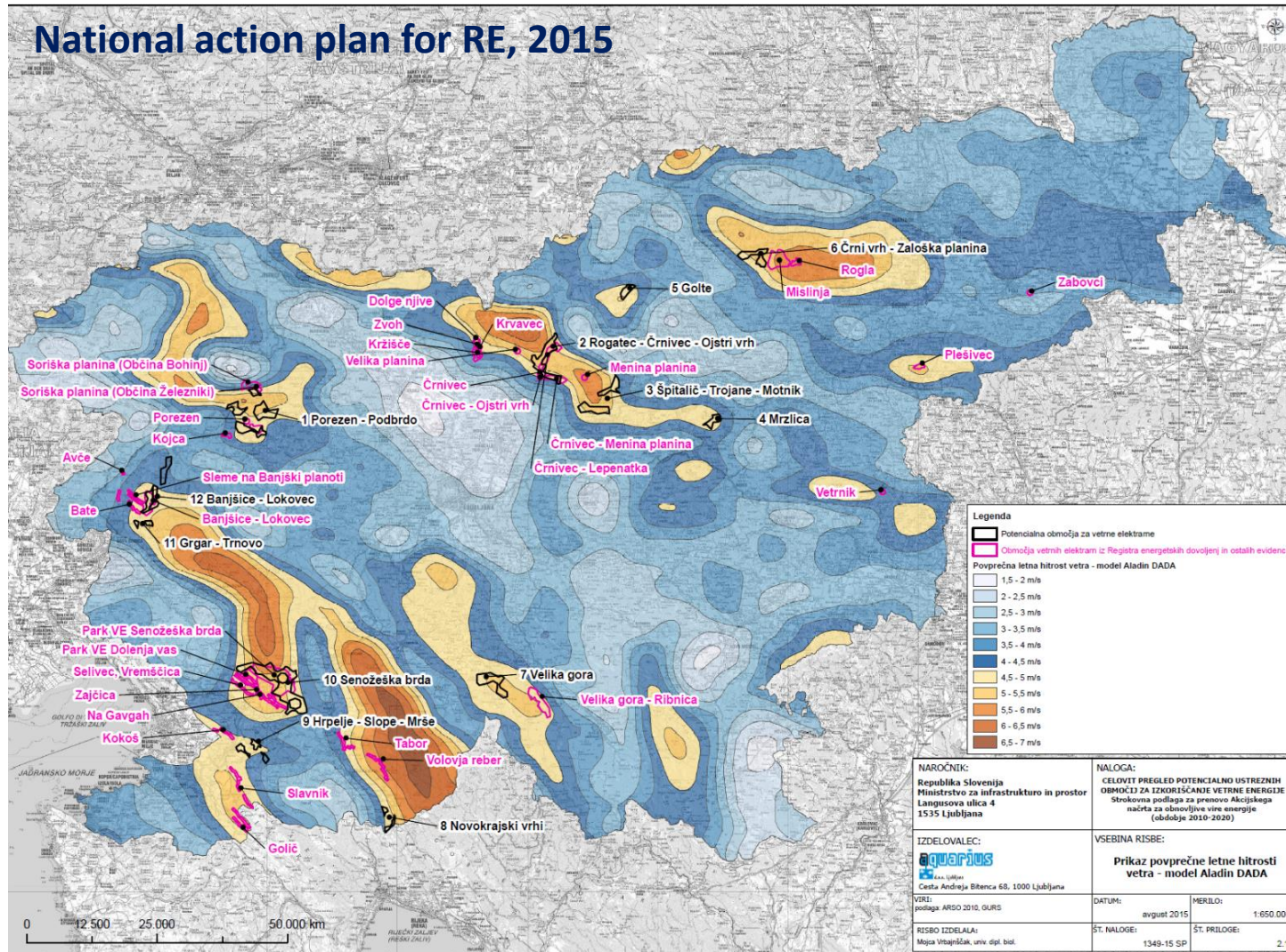


Nature conservation

Vulnerability analysis for wind farms in Primorska, Golobic et al, 2001



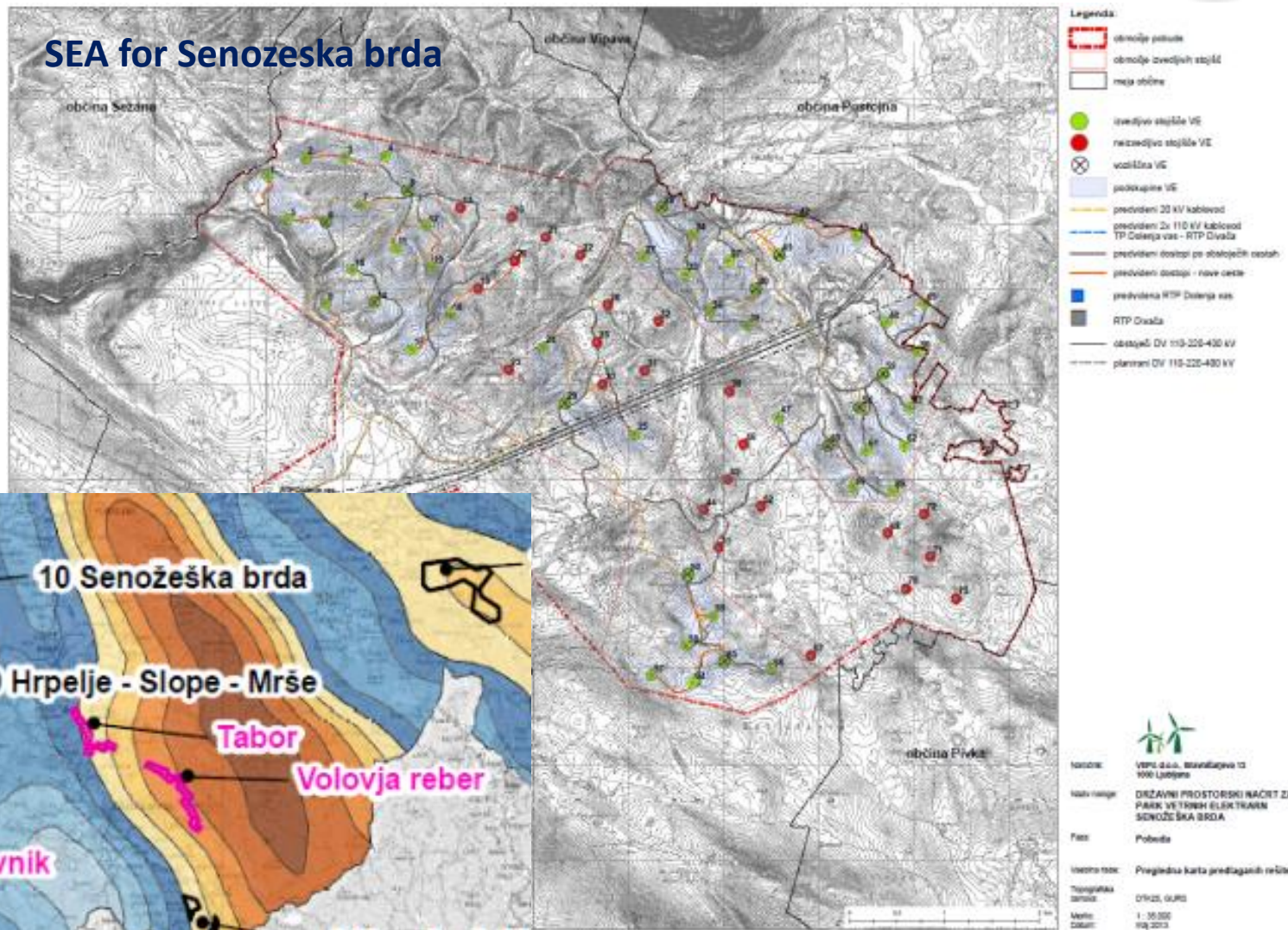
Prevailing practice...





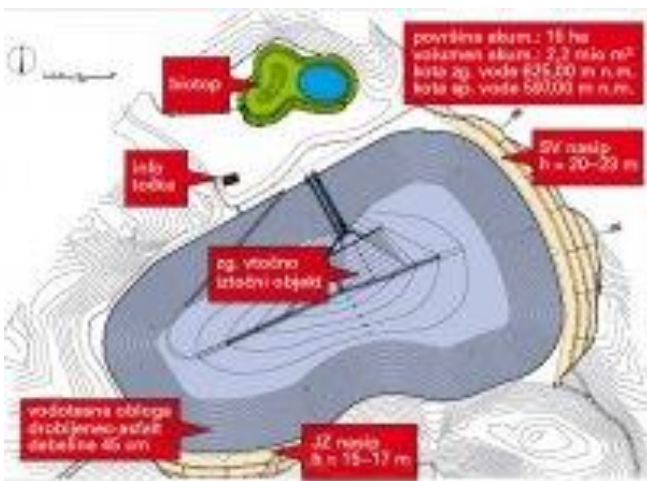
Prevailing practice...

SEA for Senozeska brda





Good examples...



IZGRADNJA ZGORNJEGA AKUMULACIJSKEGA BAZENA ČE AVČE

Hydropower pumping plant Avče, SENG



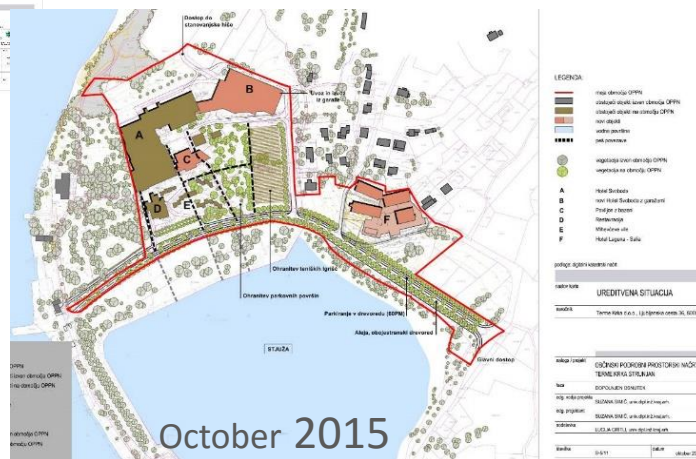
2011



2012



April
2015



October 2015



2016

Strunjan site plan (Acer), SEIA report (Aquarius), 2016



Integration?



Could (S)EIA be fully integrated in spatial planning/design process?

- Report vs. process: to what extent the (S)EIA process influenced the final proposal?
- (S)EIA process stimulates stakeholders to communicate, optimise the design and learn
- (S)EIA process and report increase the transparency (objectives, thresholds, trade offs....)



Acknowledgements:



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