

Possible activities and scientific projects with joined contribution from the **SCERIN**

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List of possible future SCERIN activities

- 1) **“Global Land Use / Land Cover Changes Atlas (LUCCNET)”** - digital atlas - web portal launching
- 2) Hard printed issue of complex **Atlas of European Landscape changes in the last 200 years** (including driving forces, impacts, consequences – synthetic approach).
- 3) Topics for proposals of **projects** in different fields and different groups of SCERIN countries
- 4) Ideas about **possible financial support of SCERIN activities**
- 5) Networking activities

.... possible ideas to think of

1 Web portal

“SCERIN Land Use / Land Cover Changes Maps Collection (LUCCNET)”

Proposal by Lucie Kupkova

- Joint platform of SCERIN, IGU LUCC Commission and selected universities (Charles University in Prague, HU Berlin)

Main goal

To collect and present freely available land use/land cover maps concerned with LULC state and changes produced and delivered by LULC community. **Main focus on Europe.**

Main attributes of the atlas

- structured by states/regions and by data sources
- main focus on Europe, contributors from other continents are also welcome
- map contributions can be accompanied by text
- driving forces, impacts and consequences explanations are welcome
- will be launched and administrated at Charles University in Prague
- section with links to the partners/contributors (possibility to introduce their activities)

1 Web portal

“SCERIN Land Use / Land Cover Changes Maps Collection ” Proposal by Lucie Kupkova

The role of the partners

- to contribute for conceptual discussion about the structure of the web portal
- joint portal proposal
- contribution of maps from partners institutions
- promotion of the portal (to increase number of contributions)

Question: interest of LULC community to contribute

..... trial mode x operational mode

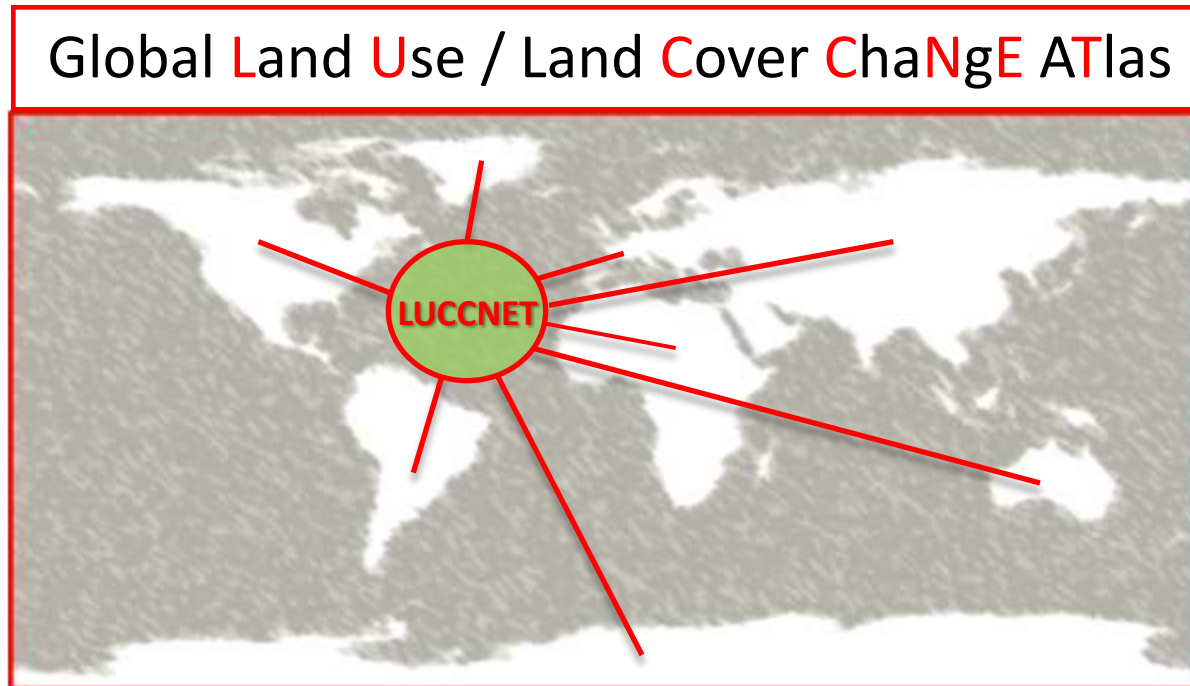
Financial support: Charles University in Prague, later sponsors

- ? Possible link with GLOBE (Global Collaboration Engine: <http://globe.umbc.edu/>)
- ? Possible link with The Encyclopedia of Earth: <http://www.eoearth.org/view/article/154143/>

1 Web portal

“SCERIN Land Use / Land Cover Changes Maps Collection (LUCCNET)”

Proposal by Lucie Kupkova



2 Atlas of European Landscape change maps in the last 200 years

Proposal by Lucie Kupkova

- **BOOK** (hard cover)
- Idea for future .. about 10 years
- based partly on outputs of LUCUNET

Goal

To publish complex cartographic work documenting 2 centuries of landscape changes in Europe – documentation of the development of natural and cultural landscape as European heritage.

Map inputs

- 1) selection of the best inputs from the digital portal LUCUNET (regions, states, case studies)
- 2) complex maps for the whole Europe after 1990 (CORINE or other outputs)
- 3) further available map outputs of LULC teams on the regional and local levels
- 4) specially prepared maps for the Atlas

2 Atlas of European Landscape changes in the last 200 years

Proposal by Lucie Kupkova

- maps covering the whole Europe, regions, states, case studies (different scales)
- not complex map selection (not the same maps for each region, state) – selection of maps based on the data availability
- state in different years (ideally for particular state corresponding with important milestones of European history) and changes (main trends in different periods)
- different data sources (not only EO data)
- different periods (based on the available data sources)
- short texts (methods, explanations of DF etc.)
- accompanied by pictures (historical and current photos, aerial images) and graphs

Possible financial support

- Supported ideally by some project (EU project, some bilateral project)
- Sponsors
- Partial support from participated institutions and organizations
- Support from publishing house
- ESA?, EEA?

3 Topics for proposal of common European project or regional/bilateral projects

Possible topics:

- 1) Landscape changes in post-communist Europe
- 2) Land abandonment in Europe
- 3) Proposal of EO method for monitoring of permanent grasslands management
(Greg Taff: Horizon 2020 - consortium)
- 4) Spectroscopy for forest health change evaluation (as a response on climate change and other factors)
- 5) Inventory of land use and land cover change and driving forces in SCERIN countries
- 6) Spatial valuable ecosystems monitoring using EO (for example relict tundra in Europe)
- 7) Land cover changes associated with changes in population density (e.g. migration)

- 8).... others

4 Possible financial support of SCERIN activities

- **Horizon 2020??** (lobbying needed ☹)
 - Other European calls?? Can anyone recommend?
 - **Visegrad Fund** (Czech Republic, Slovakia, Poland, Hungary)
<http://visegradfund.org/home/>
 - **Bilateral projects**
 - **Joint ESA/NASA priorities and sponsored project(s)**
 - **Czech + USA (PIRE, NSF)**
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505038
<https://www.natur.cuni.cz/fakulta/oddeleni-pro-vedu/grantova-agenda/granty/vyzva-nfs-na-projekty-mezinarodni-spoluprace-pire>
 - **Czech + Germany (Czech Science Foundation)**
<https://gacr.cz/en/dfg>
- INTERREG EUROPE; DANUBE REGION

... others??

5 Networking activities

Continuation or improvement of collaboration with:

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- **EARSeL Land use and Land Cover SIG**
<http://www.earsel.org/SIG/LULC/>
- **IGU LUCC Commission**
<https://www.natur.cuni.cz/geography/department-of-applied-geoinformatics-and-cartography/igu-lucc-commission/>
- **ISPRS**
<http://www.isprs.org/>
- SENTINELs frameworks – e.g. FLEX
- **Universities and institutions in Europe outside SCERIN** (Humboldt University in Berlin, University of Copenhagen)
- **!! ESA, NASA** – financial support
- **!! European parliament** – project support
- others....

Discussion and further ideas are welcome!!