



# EARTH OBSERVATION CAPACITY BUILDING ACTIVITIES

## SCERIN, TAT and GEONETCAB

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## **Introduction:**

- *SCERIN - South/Central European Regional Information Network*
- *Trans-Atlantic Training (TAT)*
- *GeoNetWork for Capacity Building - GeoNetCaB*
- *Plans and Outlook*

# SCERIN - South/Central European Regional Information Network

- The goals of SCERIN are to **promote** and **coordinate** the production and provision of Earth System observations for the user communities in South Central Europe.
- **Informal network of scientists and other professionals** based in the region or with scientific interests in the region.
- SCERIN contributes to **GOFC-GOLD** and has strong linkages with the **NEESPI** and **IGU LUC** workgroup
- Thematic focus of SCERIN:
  - LCLUC,
  - Carbon storage and flux dynamics,
  - Forest disturbances (bark beetle, wind storms, droughts, flooding, wild fires...)



Land-Cover / Land-Use Change  
Program



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**GOFC-GOLD**

Global Observation of Forest Cover and Land Dynamics



Land Cover

# Trans-Atlantic Training (TAT)

- *Trans-Atlantic Training (TAT) initiative is a planned international activity to **develop stronger awareness of NASA and ESA products** and to promote capacity building among recent university graduates and postgraduate in EO research area.*
- *Training courses should be **organized alternatively in Europe and USA** and main training topics will be focused on land-cover classification, carbon balance accounting, land-use modeling, social science processes.....**LANDSAT and SENTINEL missions***
- *Trainers will be invited from **US and EU countries***
- ***ESA supports this idea** – contract between Charles University and ESA is in the last step of approving*



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## ESA radar remote sensing course in Prague

*27-31 October 2008*

*Charles University in Prague*

*25 Czech + 10 foreign students*

*Tutors from ESA, TU Delft and Politecnico di Milano*



## ESA advanced training course in land remote sensing in Prague

*28 June – 3 July 2009*

*Charles University and Czech Technical University*

*66 students from 22 countries*

*12 leading scientists in land RS techniques*

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## NASA Valmiera Training Workshop

April 18, 2010

*„Quantitative research methods in human dimensions of environmental change within Eastern Europe“*

# SCERIN – TAT – IGU LUCC

## •SCERIN meeting with Trans-Atlantic training and IGU LUCC

*“LCLUC Science in the SCERIN Region: Current Focus and Future Directions” 17-19 June 2013 (meeting)*

*“Classification methods in Land-Use/Land-Cover Change” June 20-21, 2013 (training)*

*„International Geographical Union LUCC workgroup meeting“  
20-22 June, 2013 - collaboration between the existing networks in the region*

**Venue: - Prague, Czech Republic, Charles University in Prague**



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## **The objectives of the SCERIN meeting include:**

- 1) **Review the availability** of satellite data, products, and approaches for land-cover monitoring in the SCE region; outline region- specific research, applications and development needs
- 2) Discuss major ongoing scientific programs and projects and **define SCERIN** participants' potential **contributions** and follow-up activities,
- 3) **Form Focus Groups (FGs)** to work on specific issues (actions) determined by the SCERIN community

50 participants and 30 students

### **Contact persons:**

*Petya Campbell, Garik Gutman (NASA)*

*Jana Albrechtova, Lucie Kupkova, Premysl Stych (Charles University)*



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# GEONETCAB

## GeoNetwork for Capacity Building

[www.geonetcab.eu](http://www.geonetcab.eu)



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## **GOALS and OUTPUTS**

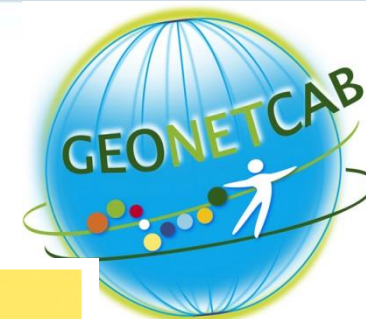
- to create **the conditions** for the improvement and increase of the **GEO/GEOSS** capacity building activities and framework, with special emphasis on developing countries, new EU member states.
- **Capacity building needs** in earth observation are identified
- **A base** of technical expertise for education and training in earth observation is established – **END USERS**
- Quick Win project (**Success Story**)  
Importance of the **Success Stories** to affect as „Snow Ball“
- Effort to **coordinate and associate EO activities**
- Project joins the private, educational and public institution **to share and disseminate EO technologies**



# GEONETCAB

## GeoNetwork for Capacity Building

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**GEO/GEOSS PROMOTION**

**ACCES PORTAL**

**SUCCESS STORIES**

**QUICK WIN PROJECT**

**MARKETING TOOLKIT**

**REGIONAL CASE STUDIES**



capacity build

Mardi, 15 Mai 2012 08:56

...ty building strategy is available! The report provides an overview of trends in capacity development, capacity building in earth observation and an action framework for the remainder of the project. Please have a look at [the report](#).

Also have a look at the [GEONetCab workshop chain](#) that is now in full swing. Workshops are organized in all GEONetCab regions, maybe there is an interesting one close to you. You'll find a complete list of the workshops organized by the Group on Earth Observations at [www.earthobservations.org](http://www.earthobservations.org).

...vation, promotion activities  
...pat to discuss progress and  
...stories and development of marketing toolkits.

Marketing toolkits are aimed at decision makers, earth observation professionals and local communities. They aim at aiding these groups with incorporating earth observation solutions in regular and help them in obtaining funding (or formulate a more convincing business case (or thereof) and deal with the following

- International trends and deve
- Steps to promote earth observation (again for application to a specific subject)

For whom ?  
Why ?  
What is Geo ?

Project Details

- Project
- Success stories
- Regional Case Studies
- Quick Win Project
- Marketing Toolkit
- News

Capacity Building Portal

- Presentation
- Access Portal



# GEONETCAB GeoNetwork for Capacity Building

[www.geonetcab.eu](http://www.geonetcab.eu)



SUBURBANIZATION AND U



SUCCESS STORIES

ORIES

A project called 'Suburban development Suburbanisation and Urban Sprawl' was carried out in the Czech Republic with the aim to assess and tackle the negative impacts on the environment.

The research was done by a working group consisting of social geographers affiliated with the Charles University in Prague, Faculty of Science, Department of Social Geography and Regional Development. This research was made possible by a grant from the Czech Ministry of Environment for the period 2007-2011.

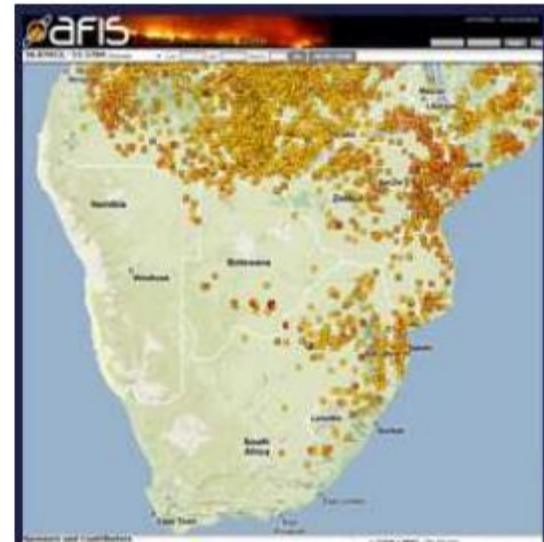
Earth observation data, aerial photographs, orthophotos and QuickBird images were the main data sources used to evaluate the spatial spread of suburbanization.

The project aims at assessing the current spatial extent and the intensity of the suburbanisation process in Czech municipalities. In addition, an attempt was made to quantify the predominantly negative consequences of suburbanisation from the point of view of sustainable development of society in general and landscape in particular. On the basis of empirical and analytical findings, a system of indicators is proposed in order to monitor size, intensity and impact of suburban development, also with respect to environmental sustainability. One of the main results...

## SOUTHERN AFRICAN DEVELOPMENT COMMUNITY (SADC) ADVANCED FIRE INFORMATION SYSTEM (AFIS)

Fire is prevalent throughout Southern Africa, with local to regional impacts on land use, productivity, carrying capacity and biodiversity. Bushfires occur every season, destroying vast environmental resources. Large parts of the territory are burned every year and fire activity will increase with the projected climate change due to increased climate variability.

In 2002, damages to infrastructure and loss of grazing due to wild land fires in South Africa were estimated to be in the region of \$50 million. An urgent need was identified to develop a satellite based information system that could not only provide information on the frequency and distribution of fires over time for the change detection research community but could also provide a near-real time tool for early detection of fires for affected users.



REPORT





**Thank you for your attention**

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