

# ***CzechGlobe – Global Change Research Centre Academy of Sciences of the Czech Republic***

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OP Výzkum a vývoj  
pro inovace



MINISTERSTVO ŠKOLSTVÍ,  
MLÁDEŽE A TĚLOVÝCHOVY



EVROPSKÁ UNIE  
EVROPSKÝ FOND PRO REGIONÁLNÍ ROZVOJ  
ŠANCE PRO VÁŠ ROZVOJ

## CzechGlobe activities

are focused on three basic thematic segments of the GC impacts

- *Atmosphere*
- *Ecosystems*
- *Socio-economic systems*

The primary objective of the CzechGlobe research activities is the focus on the obtaining of the **deep expert knowledge of the Global Change** (GC) issues and on the development of processes that would help eliminate the GC impacts or help adapt to its effects.

**The resolution of the CzechGlobe stems from three basic questions**

- To what extent is the biosphere of the Earth able to absorb evincible residue of carbon dioxide and others greenhouse gasses, which are induced into the atmosphere by humans and thus possibly leading to negative impacts on the greenhouse effect?
- Are terrestrial ecosystems really the most vulnerable part of carbon sinks of the planet Earth?
- Is the development of human society in the context of the Global Climate Change sustainable?

## CzechGlobe organization

At present time Czechglobe is organized into 5 research sector and is related to one spin-off company

- ***Sector of climatic analysis and modelling***
- ***Sector of ecosystem analysis.***
- ***Sector of ecophysiology and impact studies***
- ***Sector of human dimension of GC impact***
- ***Sector of innovation and mitigation technics***

The CzechGlobe research infrastructure is on the current world-class level (airborne observation, 250m GHG observation tower, network of eddy-sites, farm of 24 OTC, network of GEOMON small catchments, metabolomics lab.)

# Proposed objective of the project

## Project proposed goal areas

- GC and the ability of the European landscape to absorb atmospheric carbon - mitigation approaches,
- Contribution of the urban area to the carbon, pollution landscape balance – carbon print of the cities,
- Variability and sensitivity of the landscape carbon sink in relation to the annual variation of the climate and GHG atmospheric status,
- New technics of cell sorting of algae and cyanobacteria in relation to the ability to absorb hug the amount of carbon dioxide
- Special agroforestry system used in close circle carbon absorption and energy-biomass production.

## CzechGlobe offer

- Fully and modern equipped research infrastructure spatially distributed on the Czech Republic territory,
- Long-term experiencers with the EU research project
- Open-access to infrastructure and research intent
- High-level of services focused on open-air and lab research
- Young, gender balanced, publication productive and friendly staff with high-level team work feelings

# Thank You

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For more information

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