



# TECHNICAL UNIVERSITY OF LODZ

Poland



**ul. Skorupki 6/8**

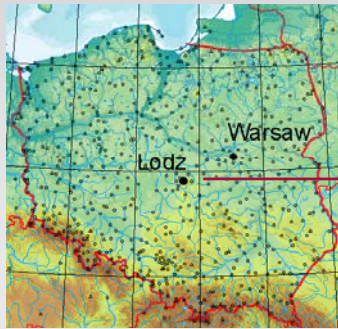
**90-924 Lodz, Poland**

**<http://www.p.lodz.pl>**



# FACTS & FUNDAMENTAL INFORMATION

## POLAND



## REGION of Lodz



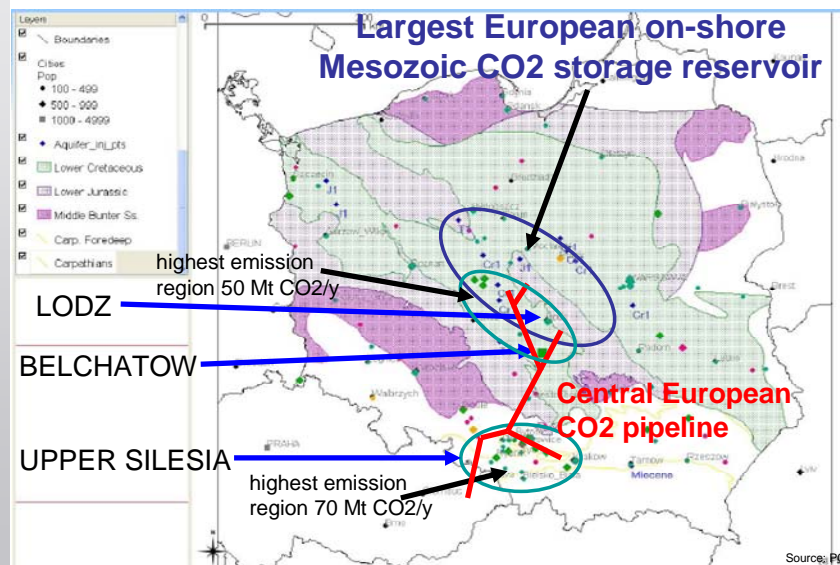
**Population:** 2,67 mln, 146 people/km<sup>2</sup>  
**Area:** 18 219 km<sup>2</sup>, 5,85% of Poland area

**Region of Lodz is probably the most critical region in European scale for solving low carbon energy problems:**

- one of the largest CO<sub>2</sub> emitting regions in EU (50 million tonnes of CO<sub>2</sub>/y) and the largest European power plant (4.3 GW in Belchatow)
- critical Polish region in terms of shortage of water, droughts and drying of land with direct impact of climate change and global warming,
- one of largest Polish geothermal resources (exploited in Uniejow, Poddebice, Mszczonow)
- rich lignite deposits and potentially rich shale gas and tight gas resources,
- largest European on-shore saline aquifers suitable for CCS (estimated 90 billion tones CO<sub>2</sub> storage capacity) in geological formations. The preparation of injection CO<sub>2</sub> is in progress.

All these areas require wide research activities

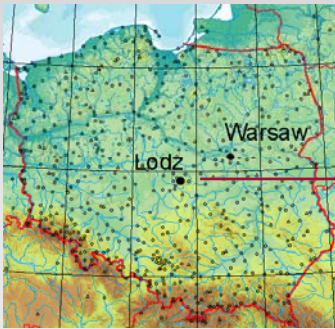
## CENTRAL EUROPEAN CO<sub>2</sub> CLUSTER





# FACTS & FUNDAMENTAL INFORMATION

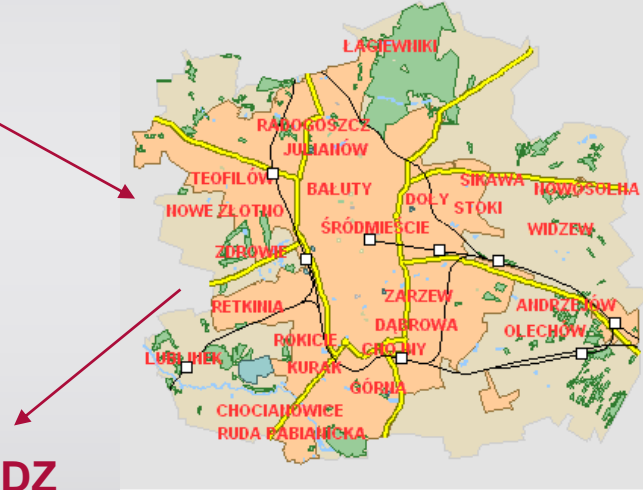
## POLAND



## REGION of Lodz



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## CITY OF LODZ

**Population:** 0,78 mln:

- Large industry centre (chemical, pharmaceutical, textile)
- Large academic centre: **8 Universities** (technical, humanistic and social sciences, medicine, arts, etc.)



# Technical University of Lodz

## Today

**21 000 students**

**1 580 academic staff**

**123 specializations**

**70 departments**

**33 fields of study**

**9 faculties**





# Technical University of Lodz

## 9 faculties:

- Mechanical Engineering
- Electrical, Electronic and Computer Science
- Chemistry
- Textile Engineering and Marketing
- Biotechnology and Food Sciences
- Civil Engineering, Architecture and Environmental Engineering
- Technical Physics and Applied Mathematics
- Process and Environmental Engineering
- Organization and Management





# Technical University of Lodz

## Chosen research areas and activities:

- Renewable energy resources – solar and geothermal energy production techniques,
- Waste treatment and *Waste to Energy* technologies, emission control technologies
- Food biochemistry and applied biocatalysis,
- Molecular and environmental biotechnology,
- Optimisation of building envelope
- Advanced solution for passive solar system
- Healthy and comfortable neighbourhood
- Protection of existing estates



# Technical University of Lodz

## Contact persons:

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Thank you for your attention !