



*Ústecký kraj*

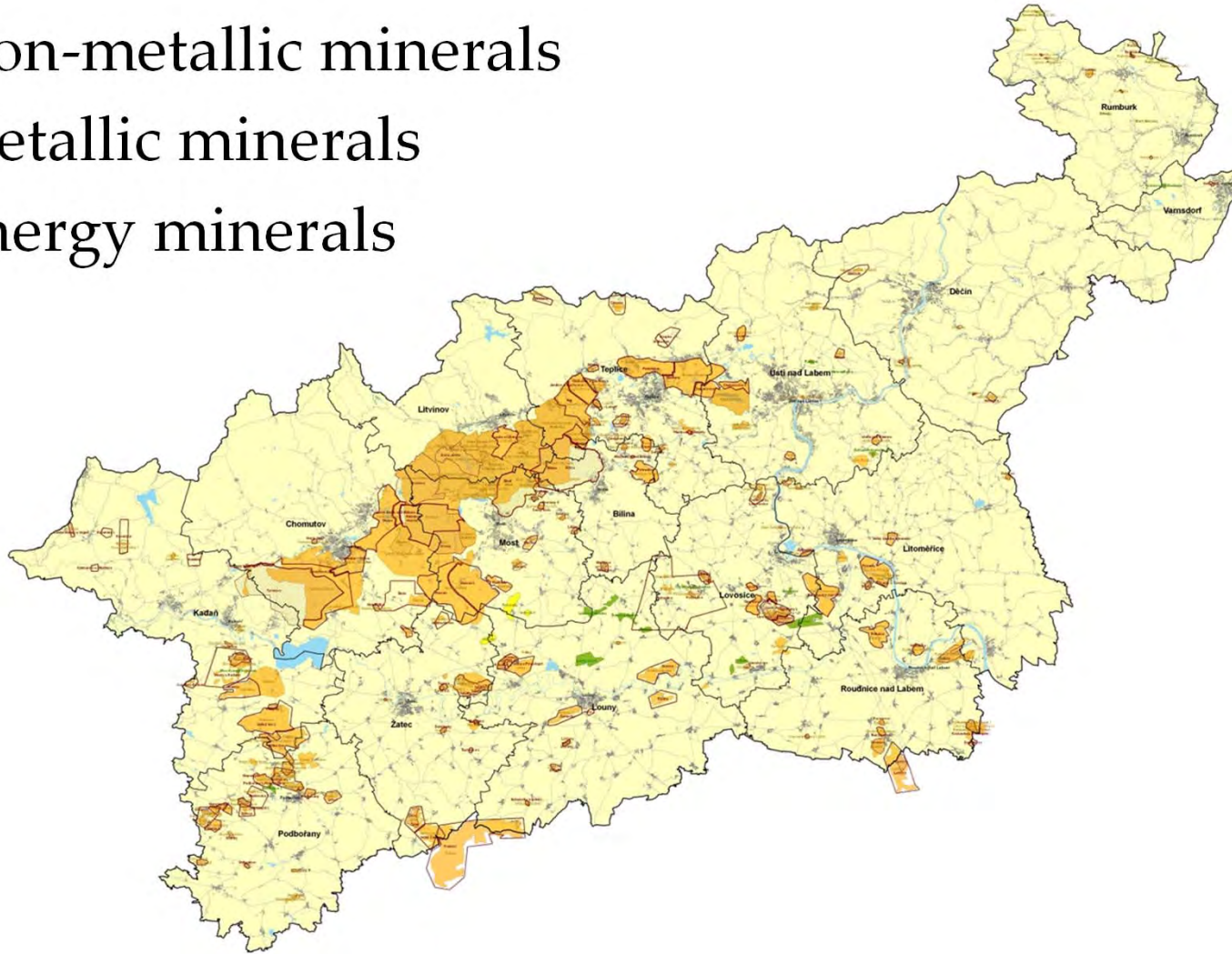
## Mineral Resources in the Usti region

Exploitation | Reclamation | Partnership

# Mineral Resources in the Ústí region

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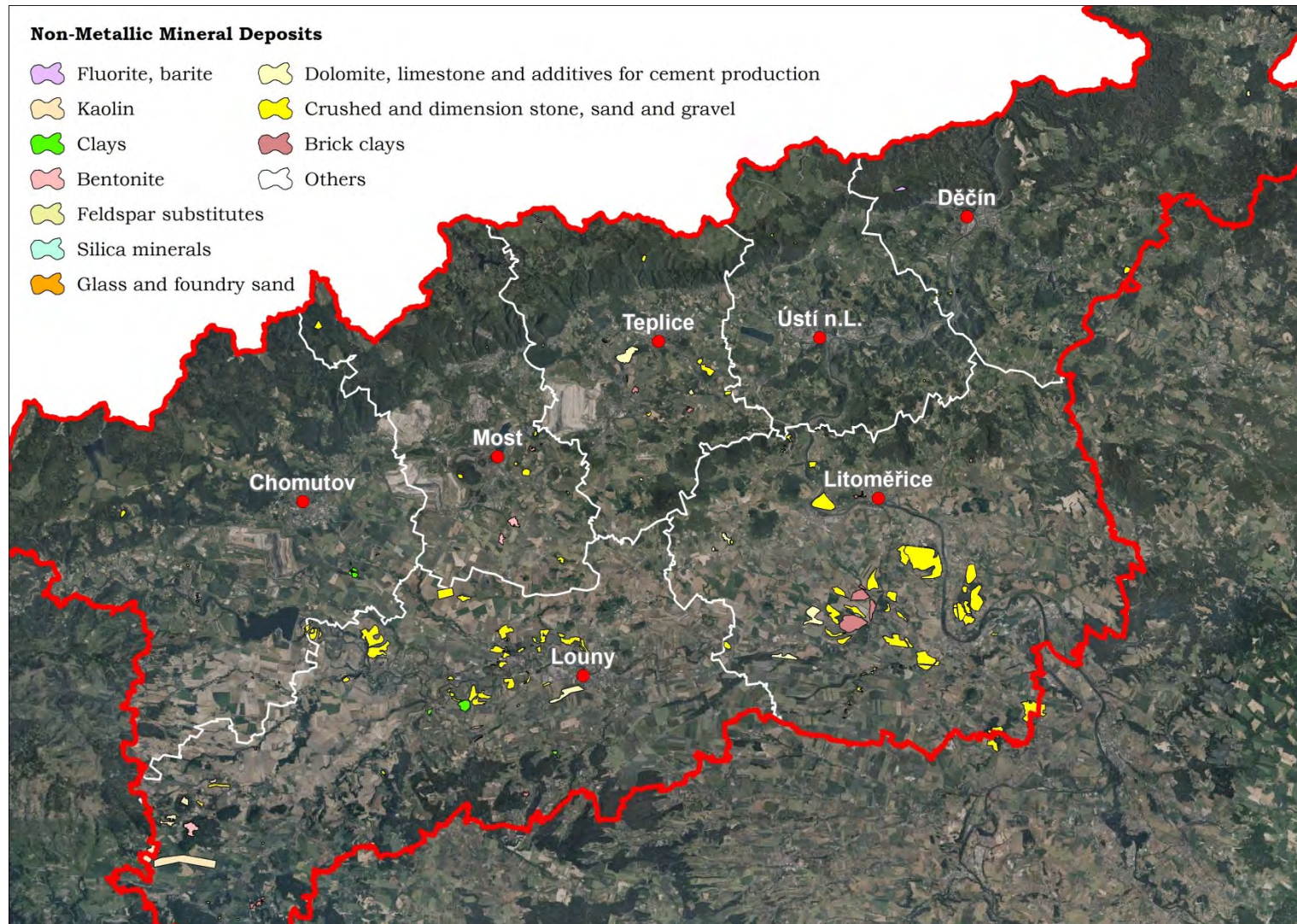
- ▶ Non-metallic minerals
- ▶ Metallic minerals
- ▶ Energy minerals





# Non-metallic mineral deposits

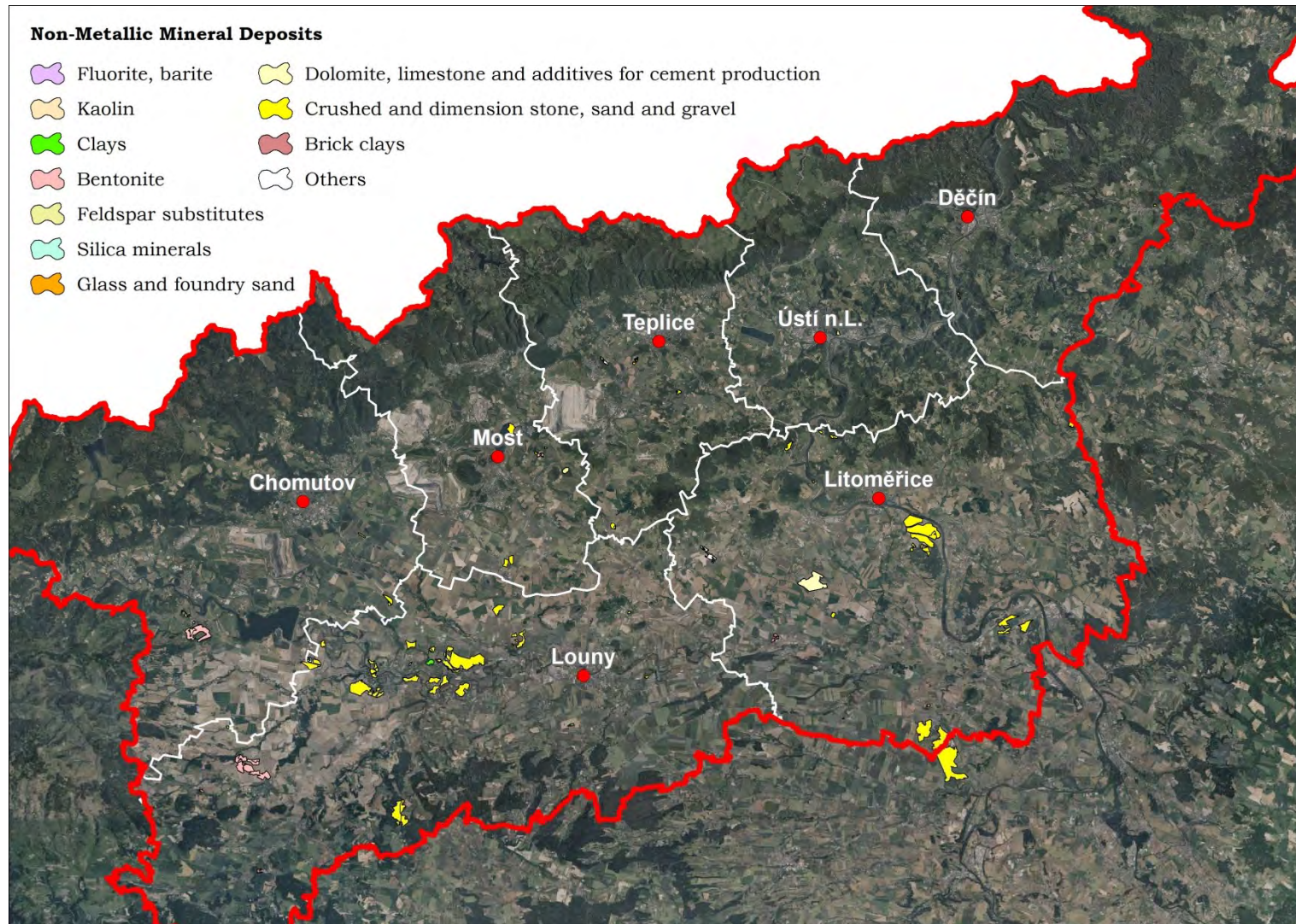
Mined in the past





# Non-metallic mineral deposits

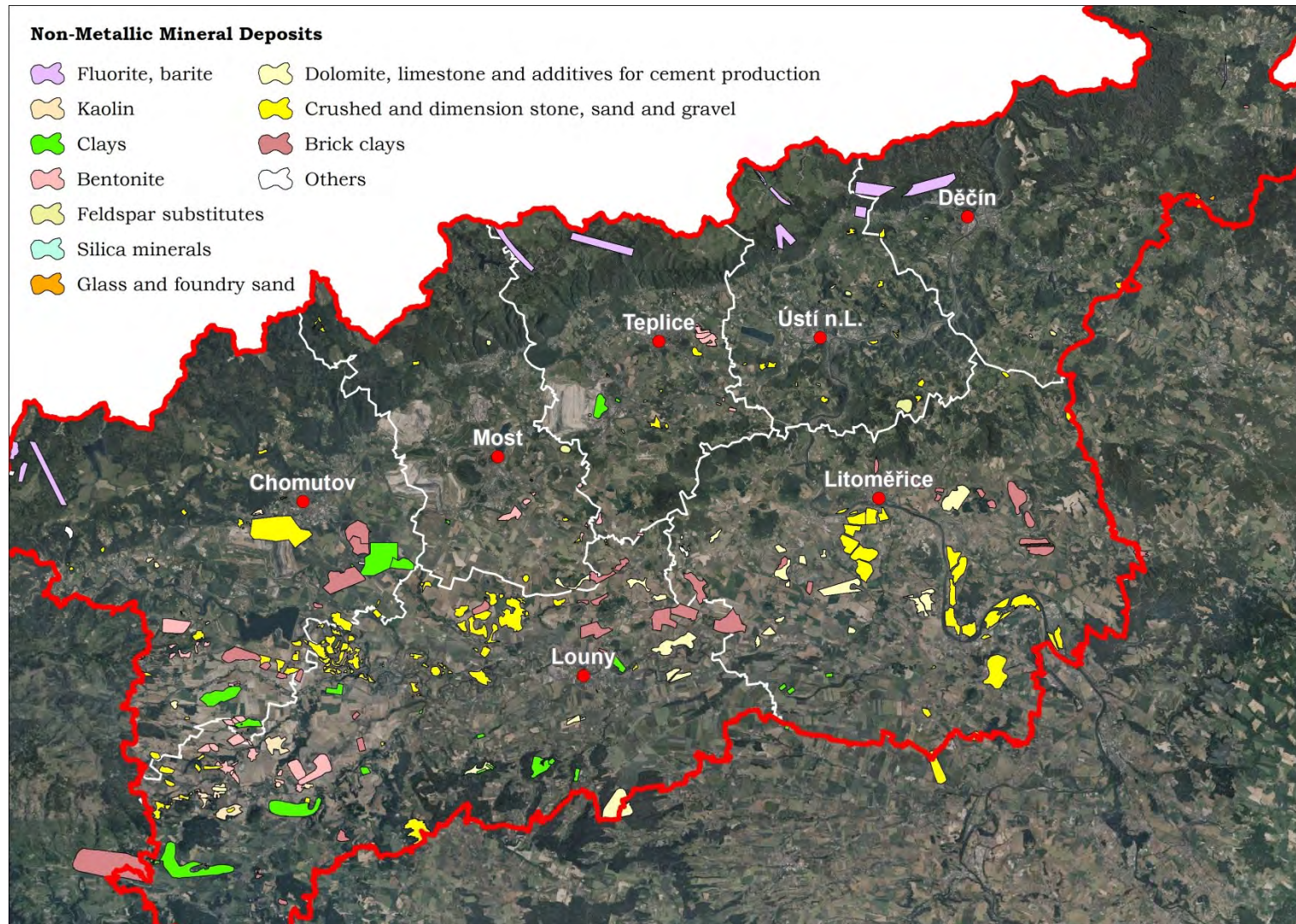
## Currently mined





# Non-metallic mineral deposits

## Unmined in the past



# Non-metallic minerals

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## Reserves

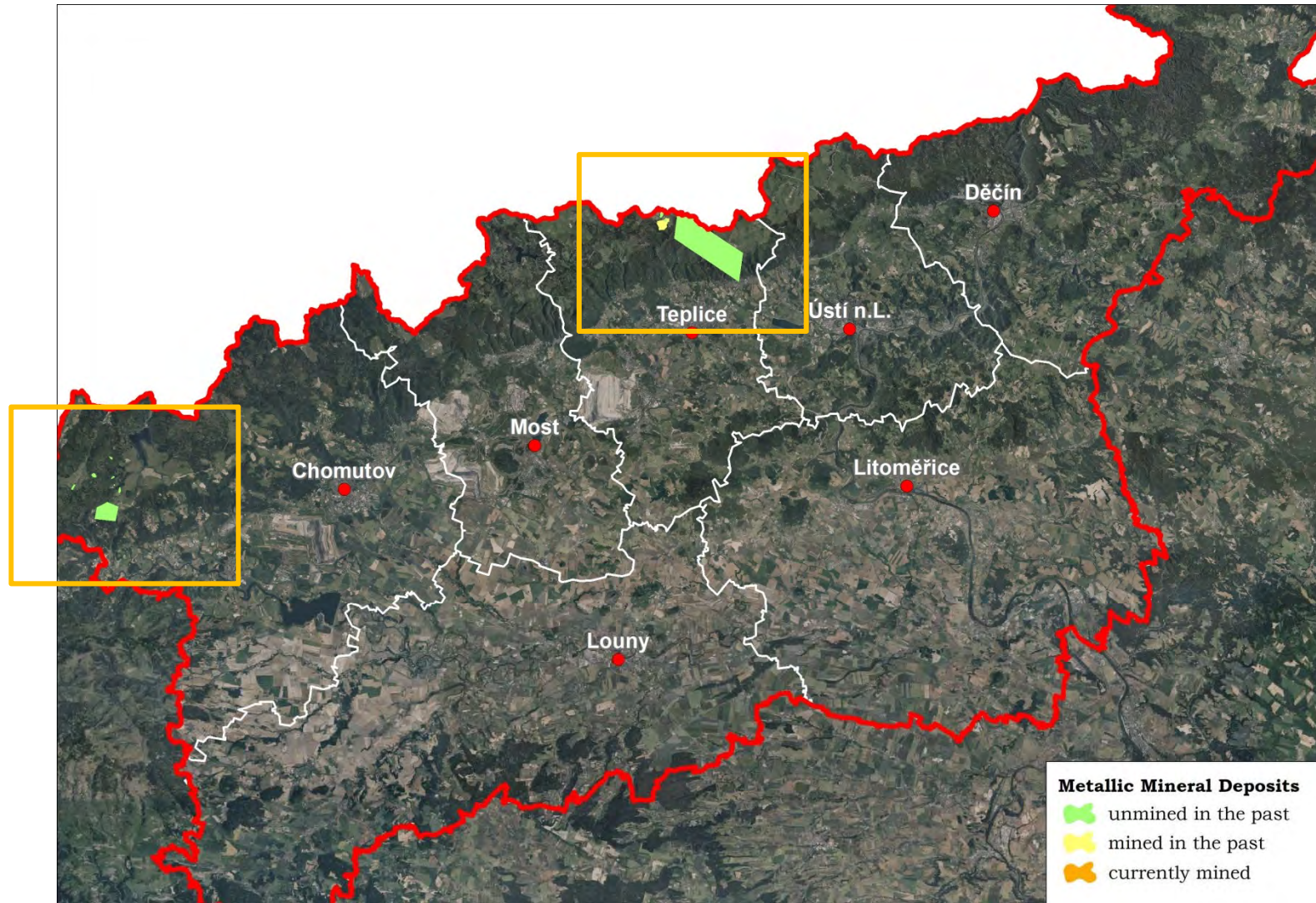
- ▶ Sufficient deposits of common industrial and construction minerals, such as crushed stone, sand and gravel, brick clays, and limestone
- ▶ Nationally important deposits of bentonite and kaolin
- ▶ Regionally specific minerals (the only exploited deposits in the Czech Republic): pyrope-bearing rock, oxyhumolite, and feldspar substitutes

## Mining prospects

- ▶ Long-term sustainability
- ▶ No serious environmental conflicts

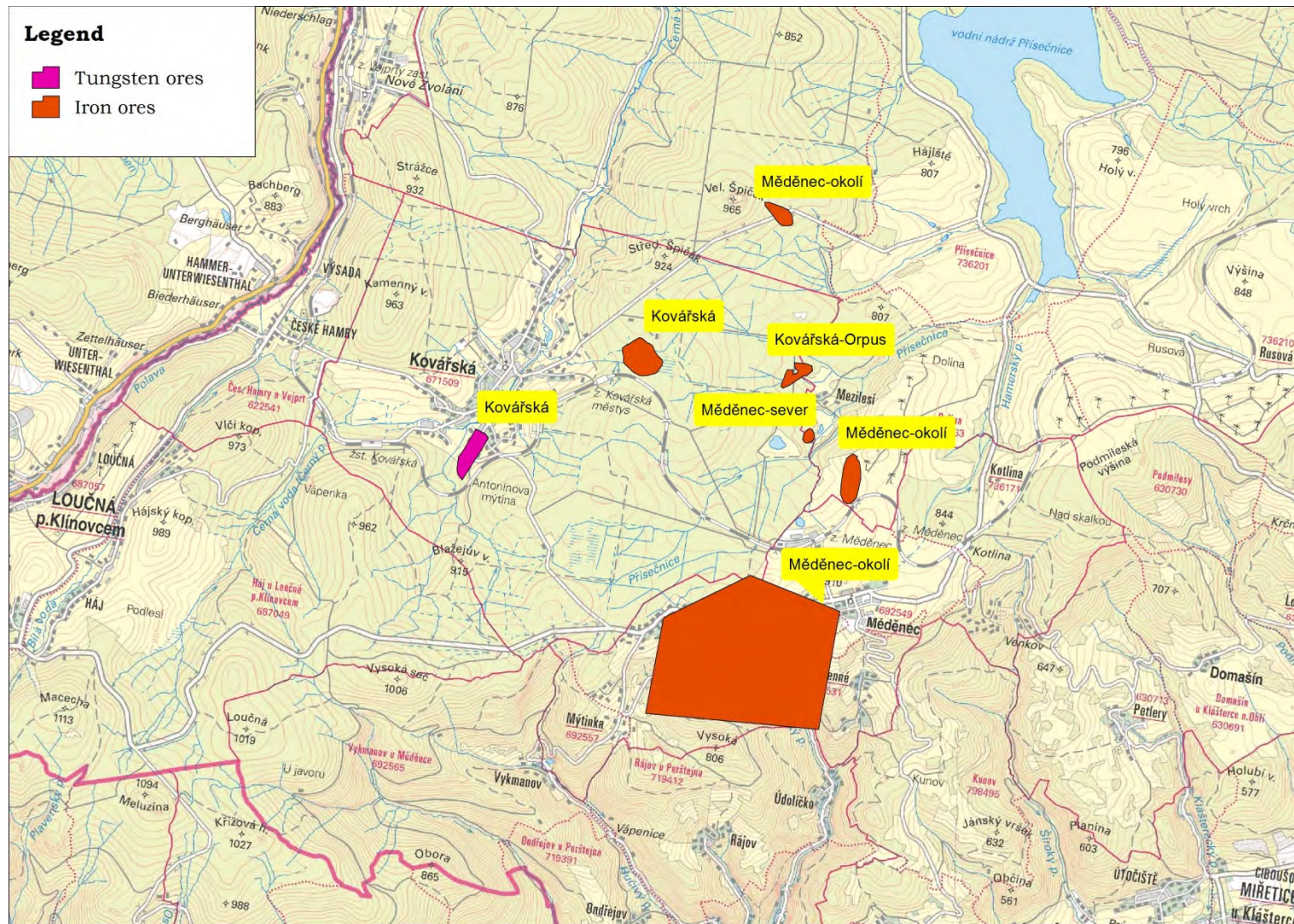


# Metallic mineral deposits





# Metallic mineral deposits







# Metallic minerals

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## Reserves

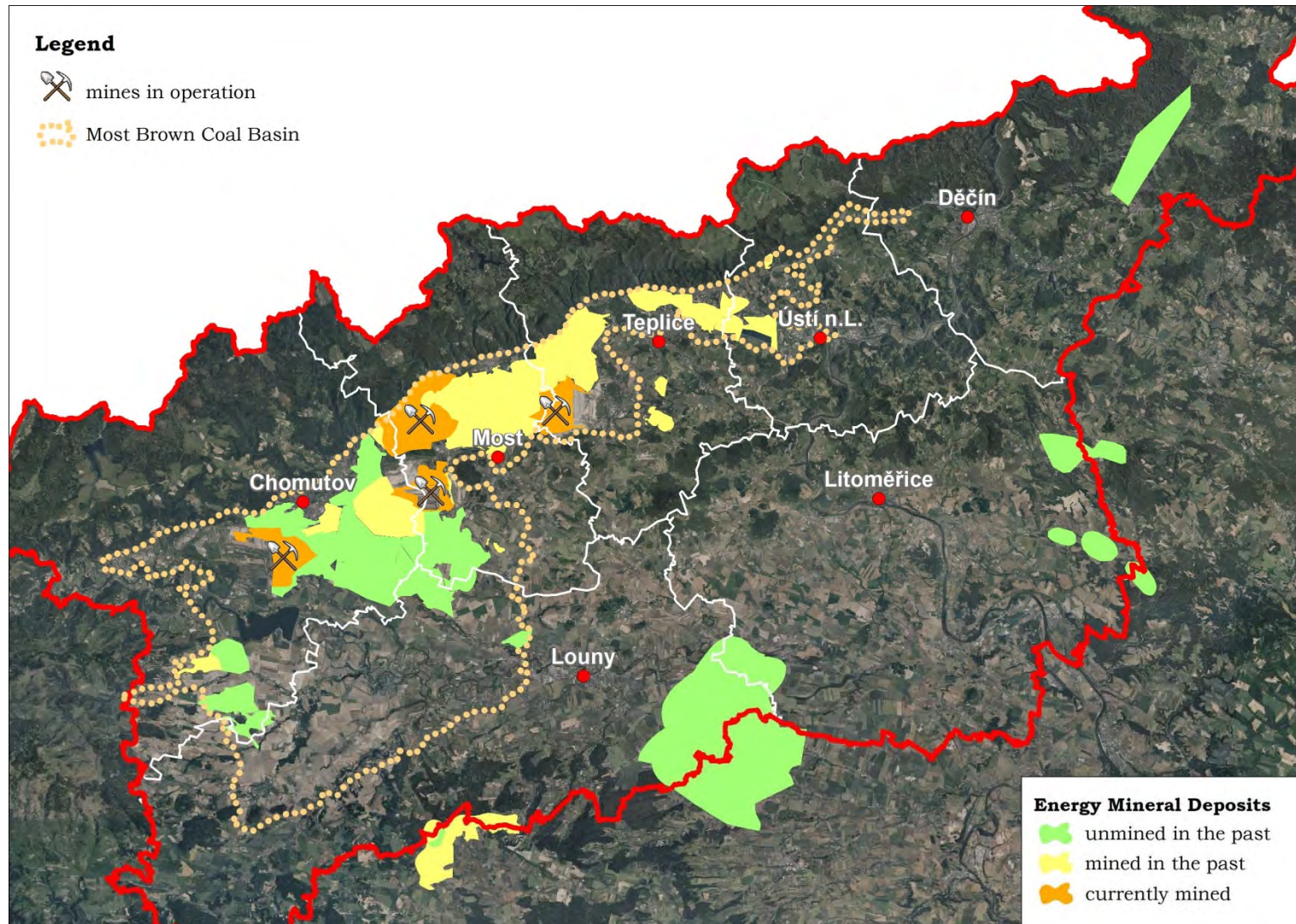
- ▶ Krušné Hory Mountains can be considered as a lithium province
- ▶ Around 300 million tonnes of ore with elevated lithium contents were identified in Cínovec and its surroundings alone
- ▶ In addition, occurrence of rubidium and cesium

## Mining prospects

- ▶ Currently no mining operations
- ▶ Cínovec odkaliště Deposit
  - ▶ Planned extraction at a former tailings pond (excavated materials)
  - ▶ 2014 to 2015 – EIA assessment
  - ▶ 2016 – licence from the mining authority in Most



# Energy mineral deposits

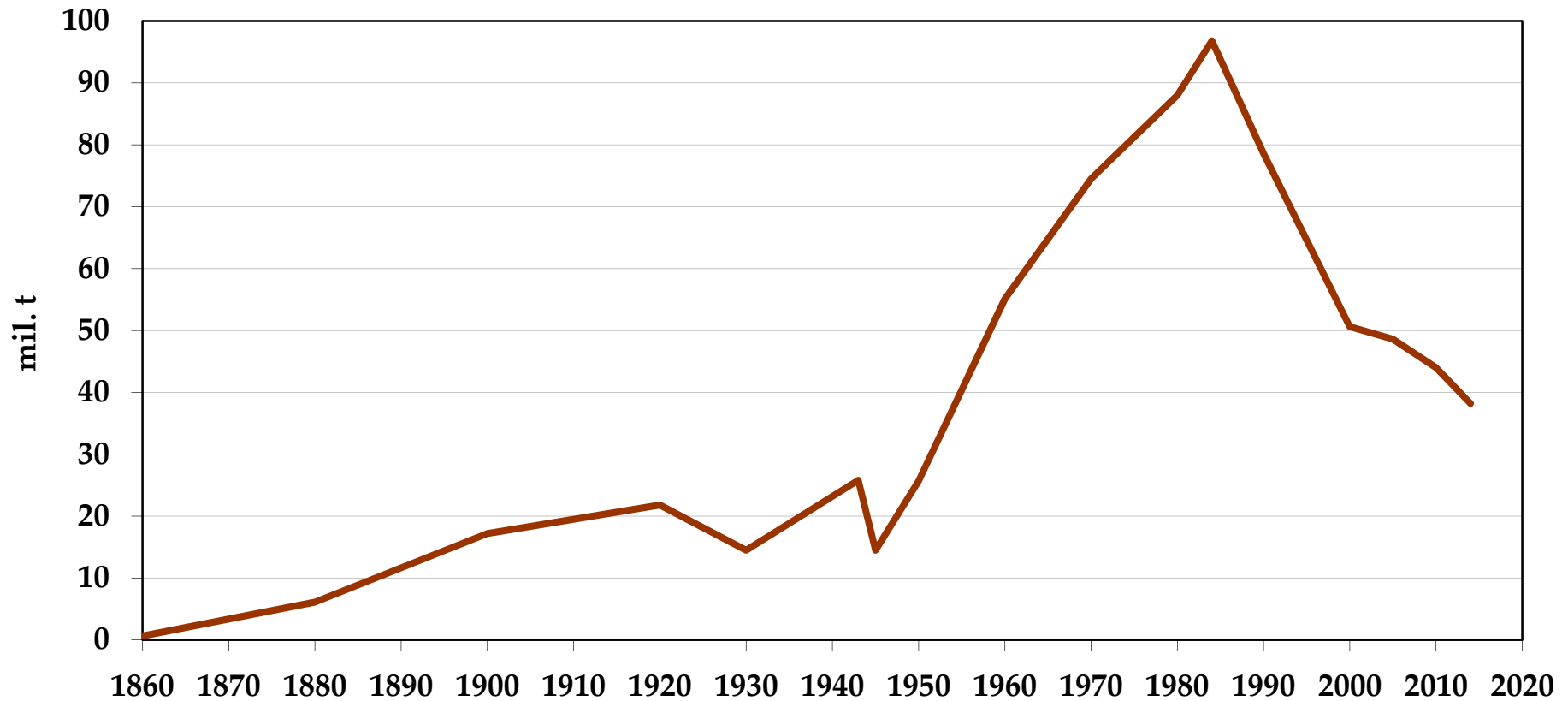


# Brown Coal Production

1950 – 29 underground mines, 22 open pit mines

1984 – 6 underground mines, 12 open pit mines

2016 – 0 underground mines, 4 open pit mines





# Brown Coal Mining

mine	mining company	average annual production	workable reserves within mining limits <sup>1)</sup>	licence for mining acquired in	estimated lifetime
ČSA	Severní energetická	3 mil. t	27,7 mil. t	2000	2024
Vršany	Vršanská uhelná	6 mil. t	277 mil. t	2010	>2050
Libouš	Severočeské doly	13,5 mil. t	252 mil. t	2013	2040
Bílina	Severočeské doly	10 mil. t	255 mil. t	2011	>2050

<sup>1)</sup> as of January 1, 2015



# Energy minerals

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## Reserves

- ▶ Relatively large reserves of brown coal in Northern Bohemia (Most Brown Coal Basin) are blocked by “Regional environmental limits“ set by the Czech government in 1991
- ▶ Limits shifted at Bílina Mine in 2015, not at ČSA Mine (750 mil. t)

## Mining prospects

- ▶ Lifetime up to 2050 within limits, but annual coal production can be expected to decrease gradually
- ▶ Further mining (up to 2120) is feasible only at ČSA Mine only if the limits are broken



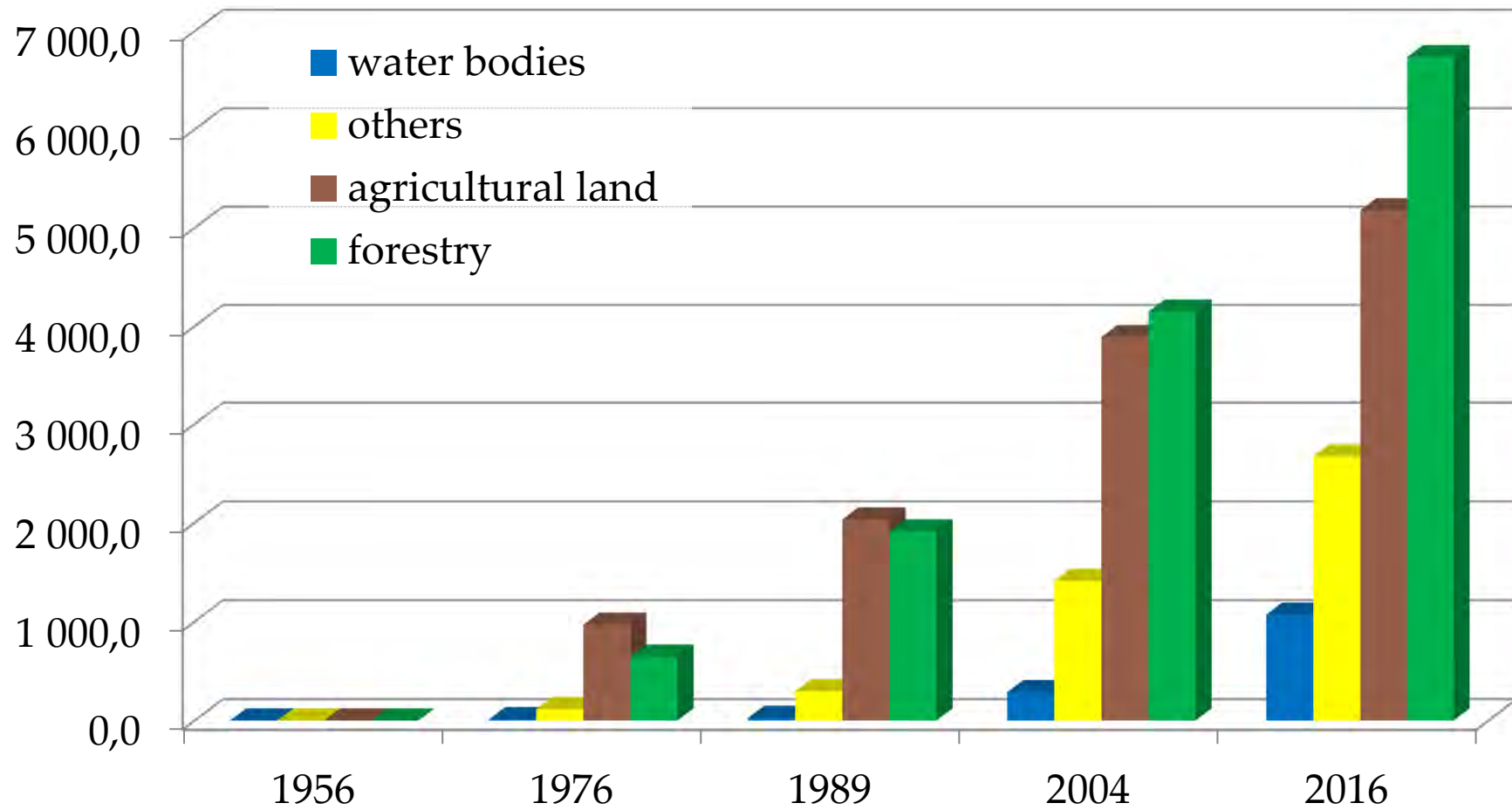
# Land reclamation

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- ▶ Land reclamation after brown coal mining started in 1950-ties
- ▶ Since 1993 mining companies are obliged to generate financial reserves for remediation and reclamation
- ▶ The determination of anticipated expenses for remediation and reclamation is part of the plan for opening, preparation and exploitation of reserved deposits
- ▶ Moreover, in 2002 the Czech government approved a programme dealing with ecological damage caused prior to privatisation of brown coal mining companies in the Ústí nad Labem Region and Karlovy Vary Region

# Land reclamation

**Finished reclamations in hectares**

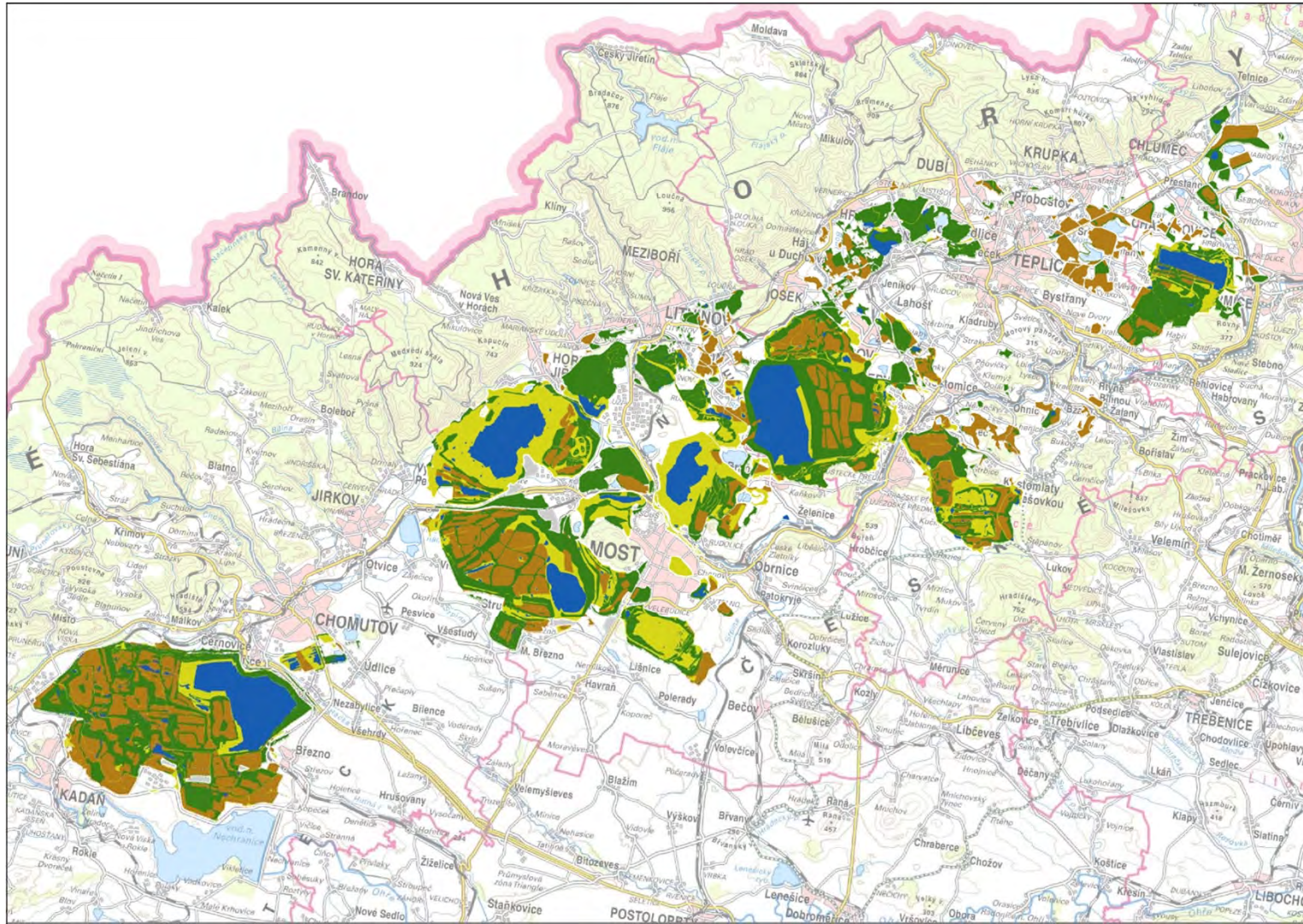




# Land reclamation

2016

2070



# Usti Region and mineral mining

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## *The regional authority of the Usti Region*

- ▶ Decisions and regulations are issued in compliance with environmental legislation (executing delegated competences by the state)
- ▶ However, licence for mining is issued by the District Mining Authority in Most

## *Usti Region*

- ▶ Self-governing unit
- ▶ Promoting cooperation and partnership among regional partners
- ▶ Participating in national/international projects



# Usti Region has changed!

zažij změnu!  
**Ústecký kraj** jinak

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**Usti Region has changed!**

**Usti Region - a place where you can spend a wonderful holiday. It is rich not only for raw materials, but also for its history. You can find there many interesting places and tourist attractions which can be seen due to a dense network of bicycle paths or by walking tours.**

Let yourself be surprised by a varied landscape and clean nature, which is adorn our region again, thanks to recultivations. We believe that the places which you will discover, you will remember it as a place that is needed to protect. Come and experience the change for yourself.

**Experience the change - beauty of Usti Region!**

» Destinations

» 3D models

» Multimedia

- ▾ About project?
- ▾ What Area?
- ▾ How to find?

*Thanks for your attention!*

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