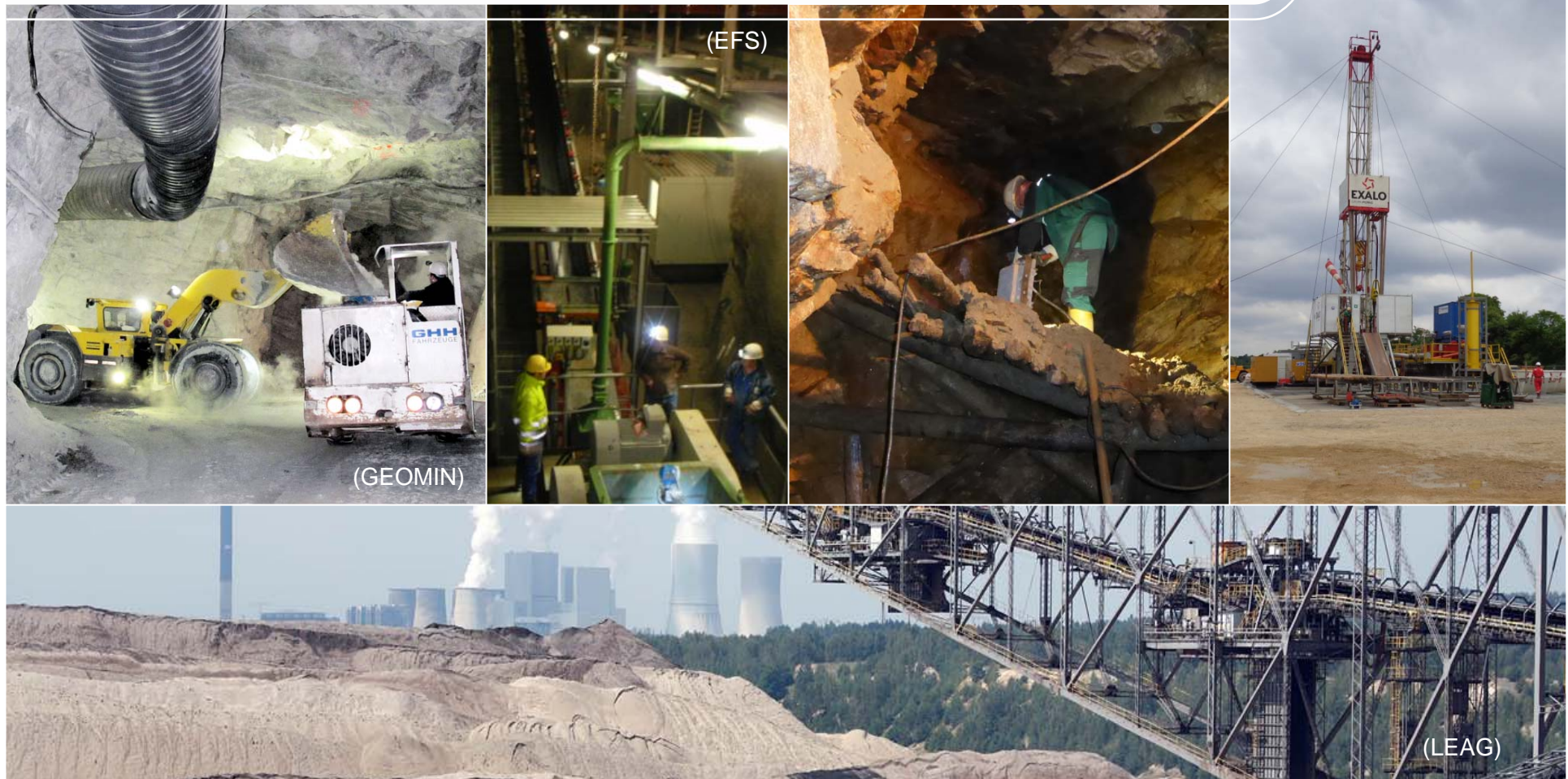


# Saxon Raw Materials Strategy

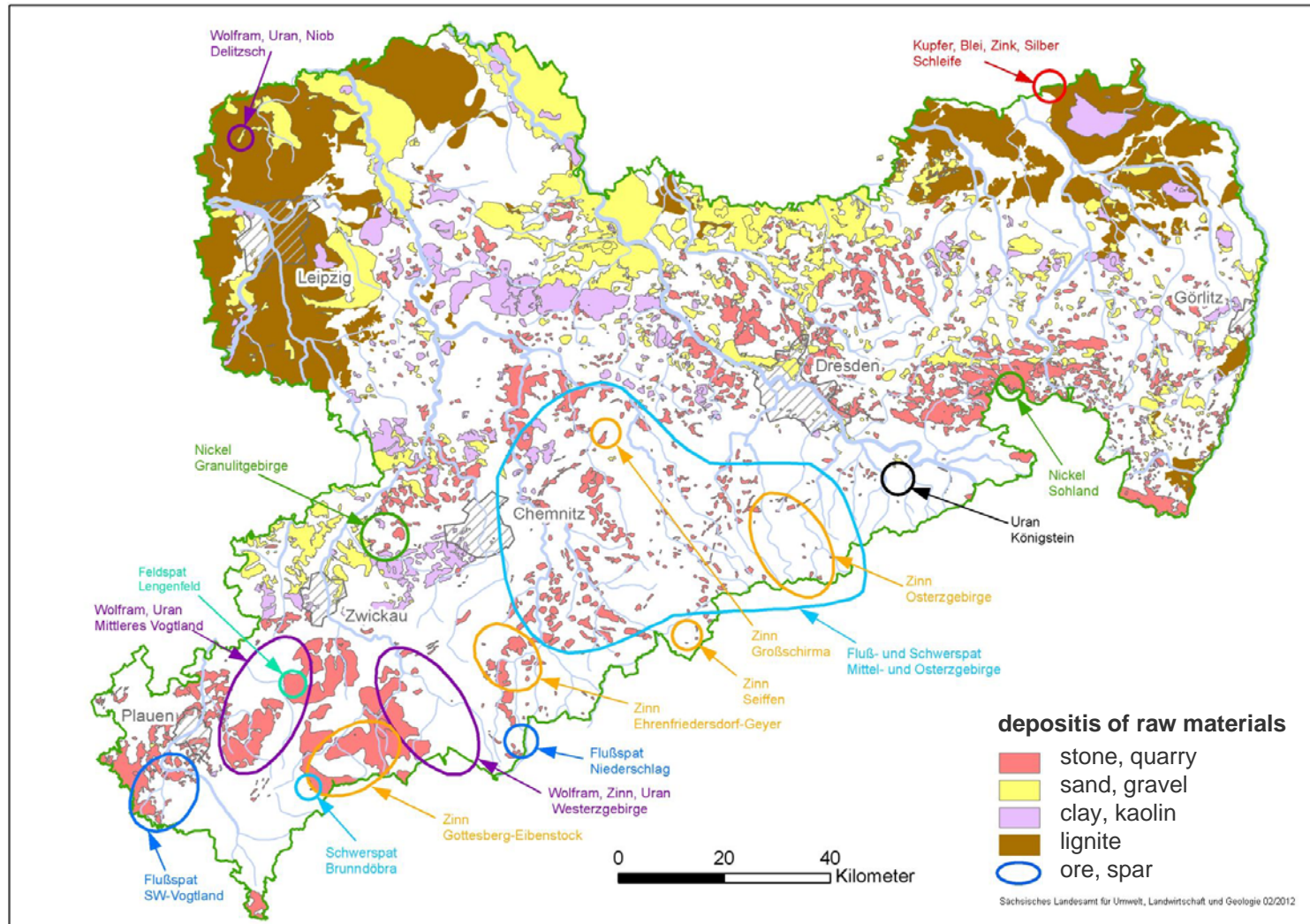
aim, objectives and its applicability in support of smart and green mining

*Prof. Dr. Bernhard Cramer, Oberberghauptmann*



# The Mining State Saxony

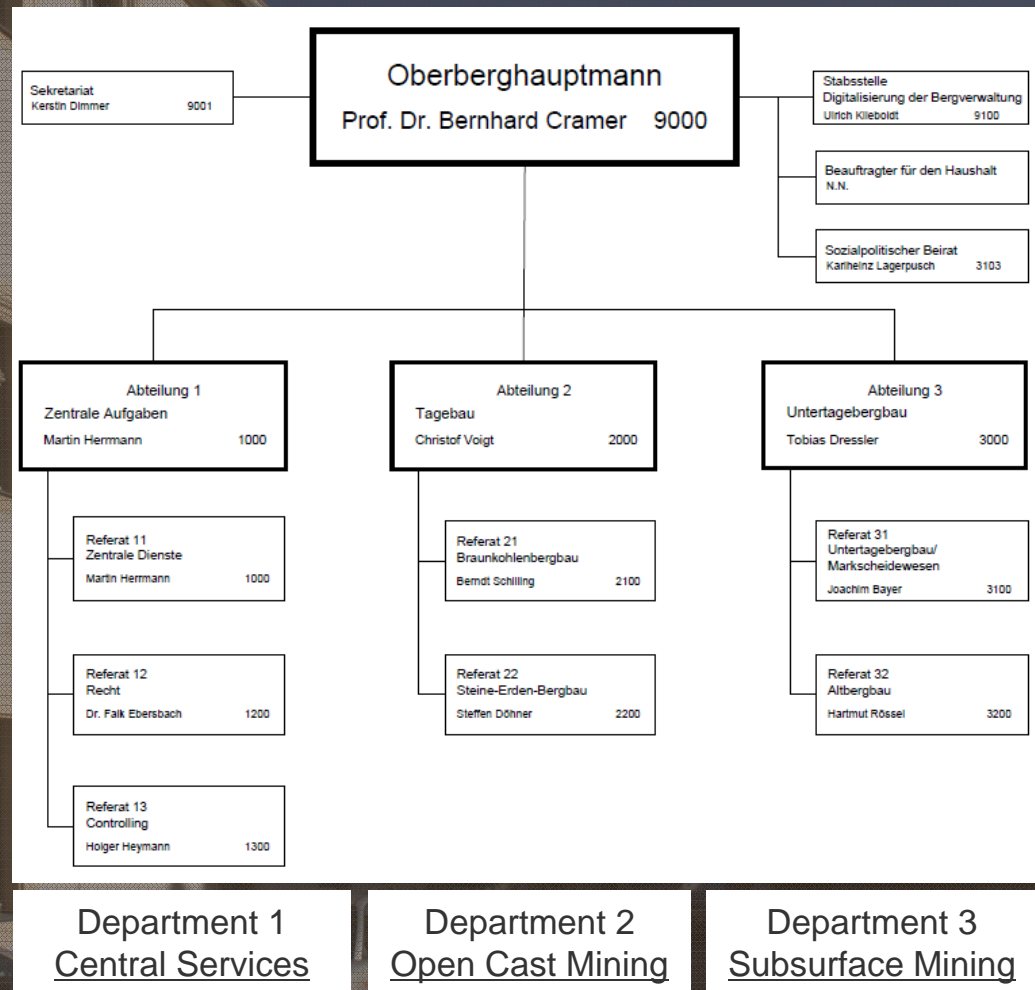
Rich in Mineral Resources



# State Mining Authority of Saxony

## Internal Organisation

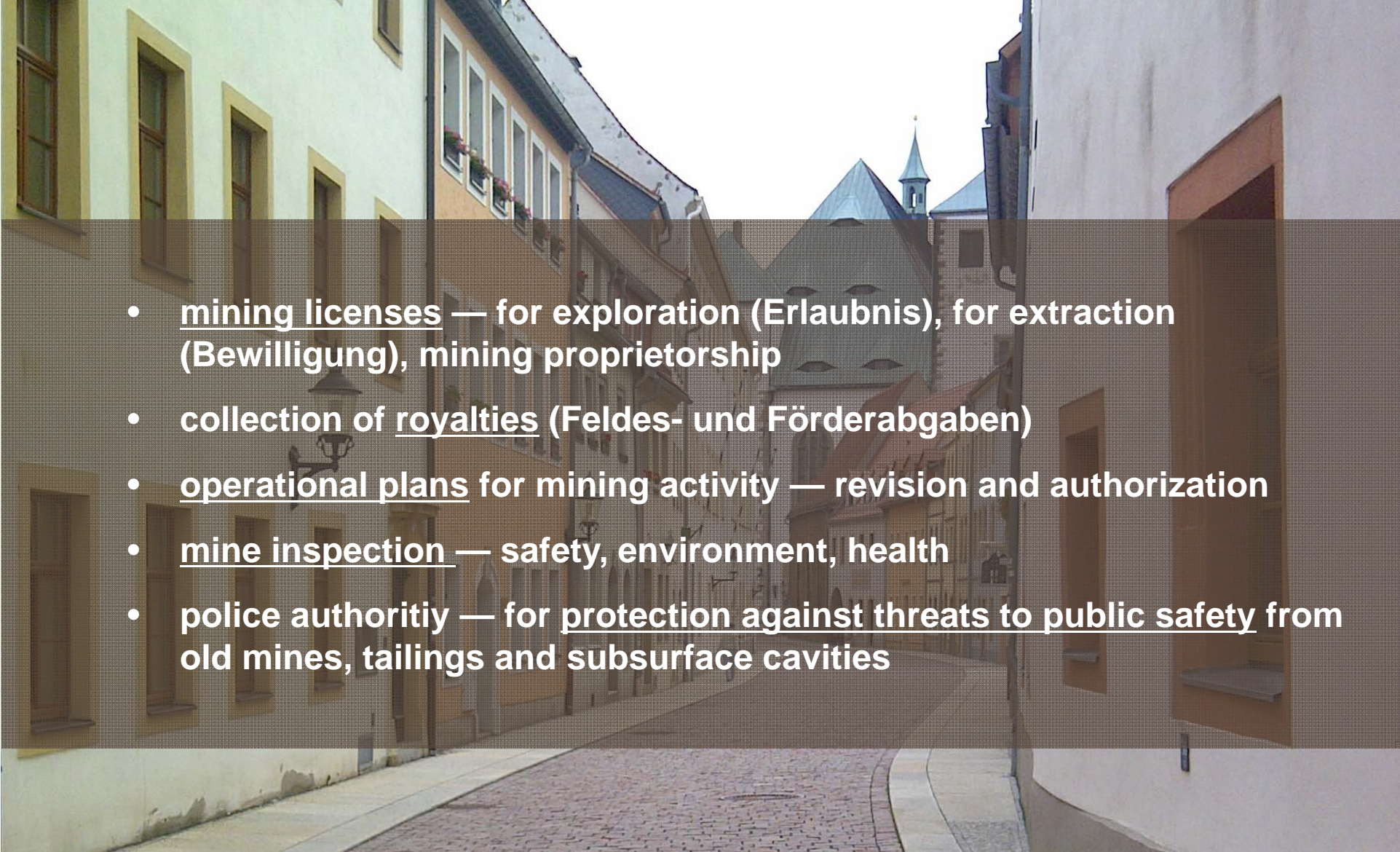
SÄCHSISCHES  
OBERBERGAMT



Sächsisches Oberbergamt

- 90 employees

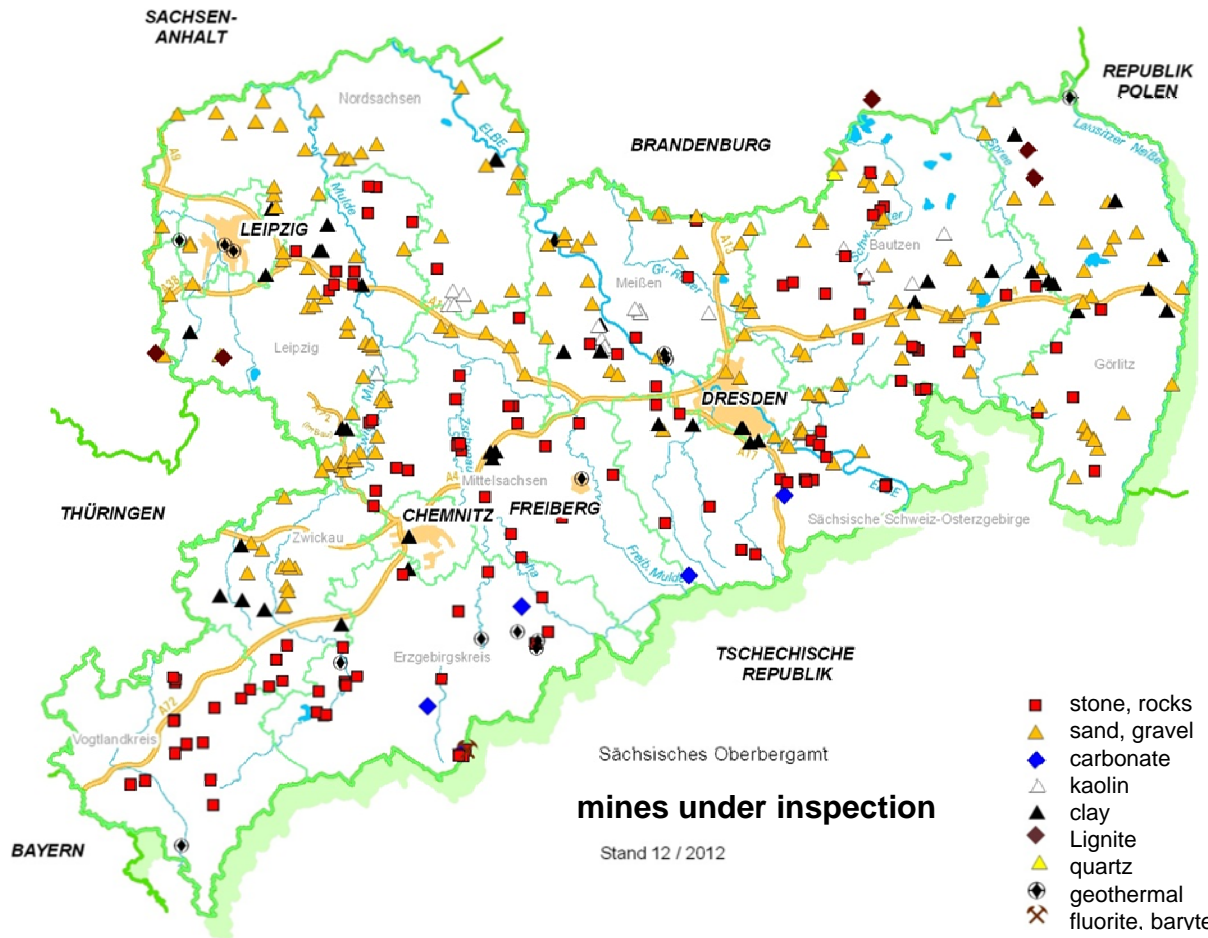
## Duties

- 
- mining licenses — for exploration (Erlaubnis), for extraction (Bewilligung), mining proprietorship
  - collection of royalties (Feldes- und Förderabgaben)
  - operational plans for mining activity — revision and authorization
  - mine inspection — safety, environment, health
  - police authority — for protection against threats to public safety from old mines, tailings and subsurface cavities

# Mining in Saxony

## Mines under Inspection

SÄCHSISCHES  
OBERBERGAMT

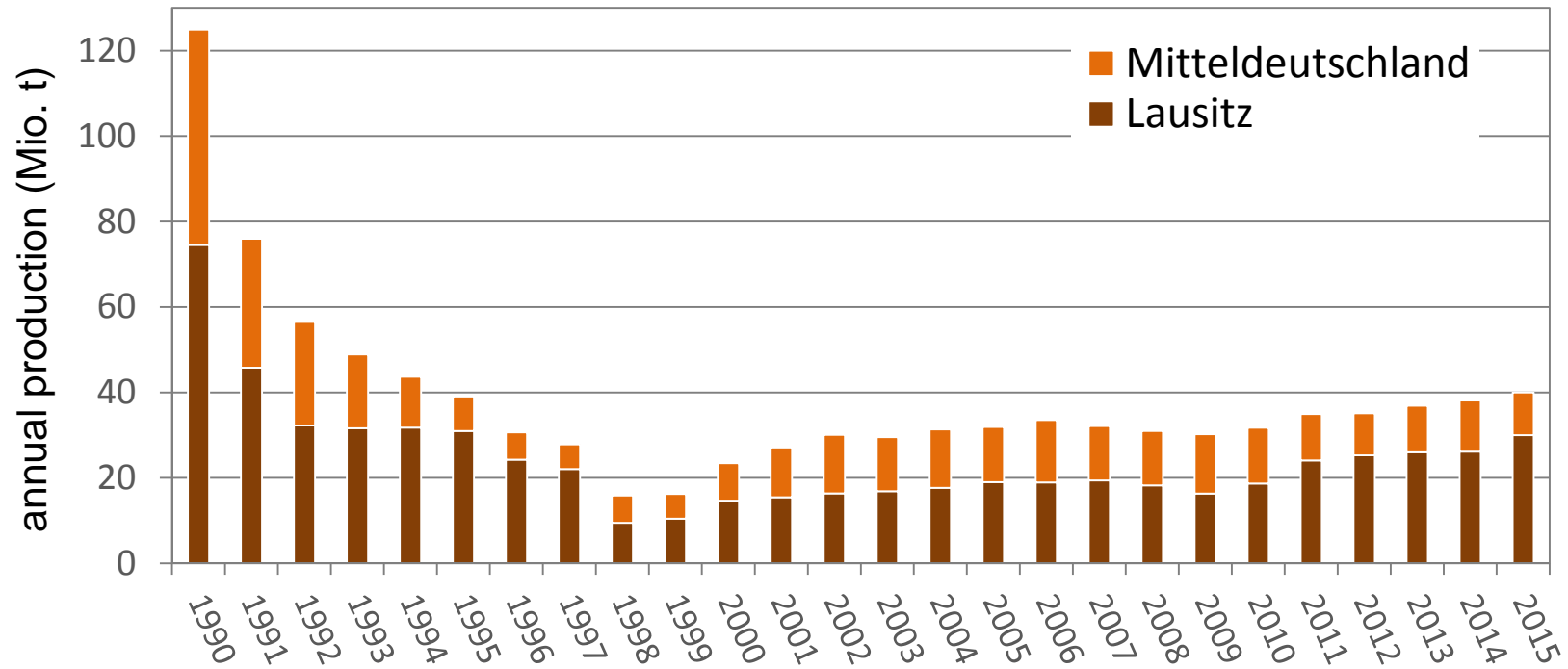


- ~ 400 mining concessions
- most mines for sand, gravel, clay, stone and quarry
- ~ 5000 employees in mining
- between 1000 and 1500 mine inspections per year

# Active Mining

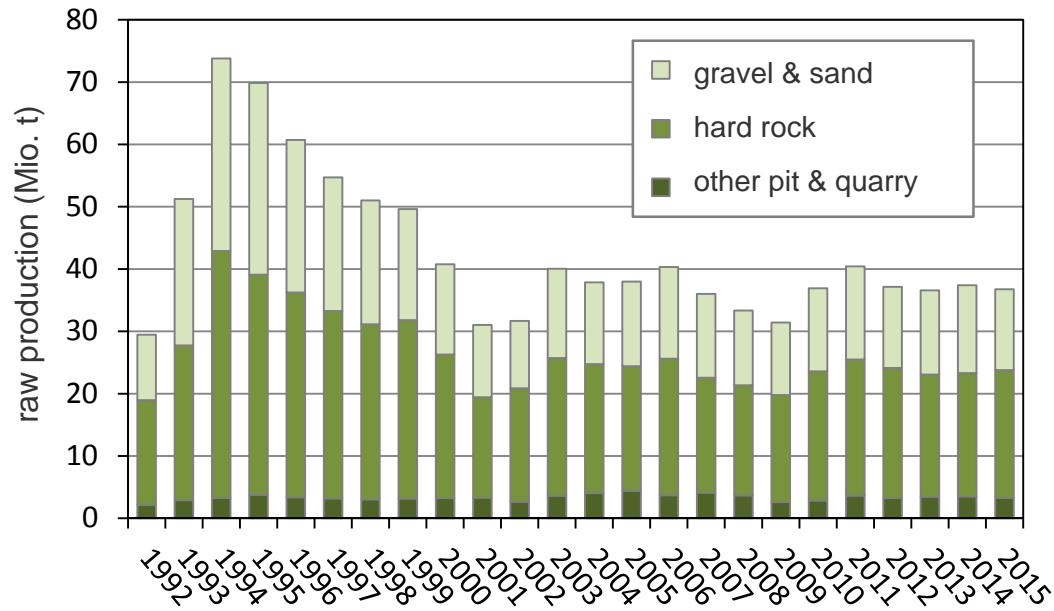
## Lignite

SÄCHSISCHES  
OBERBERGAMT

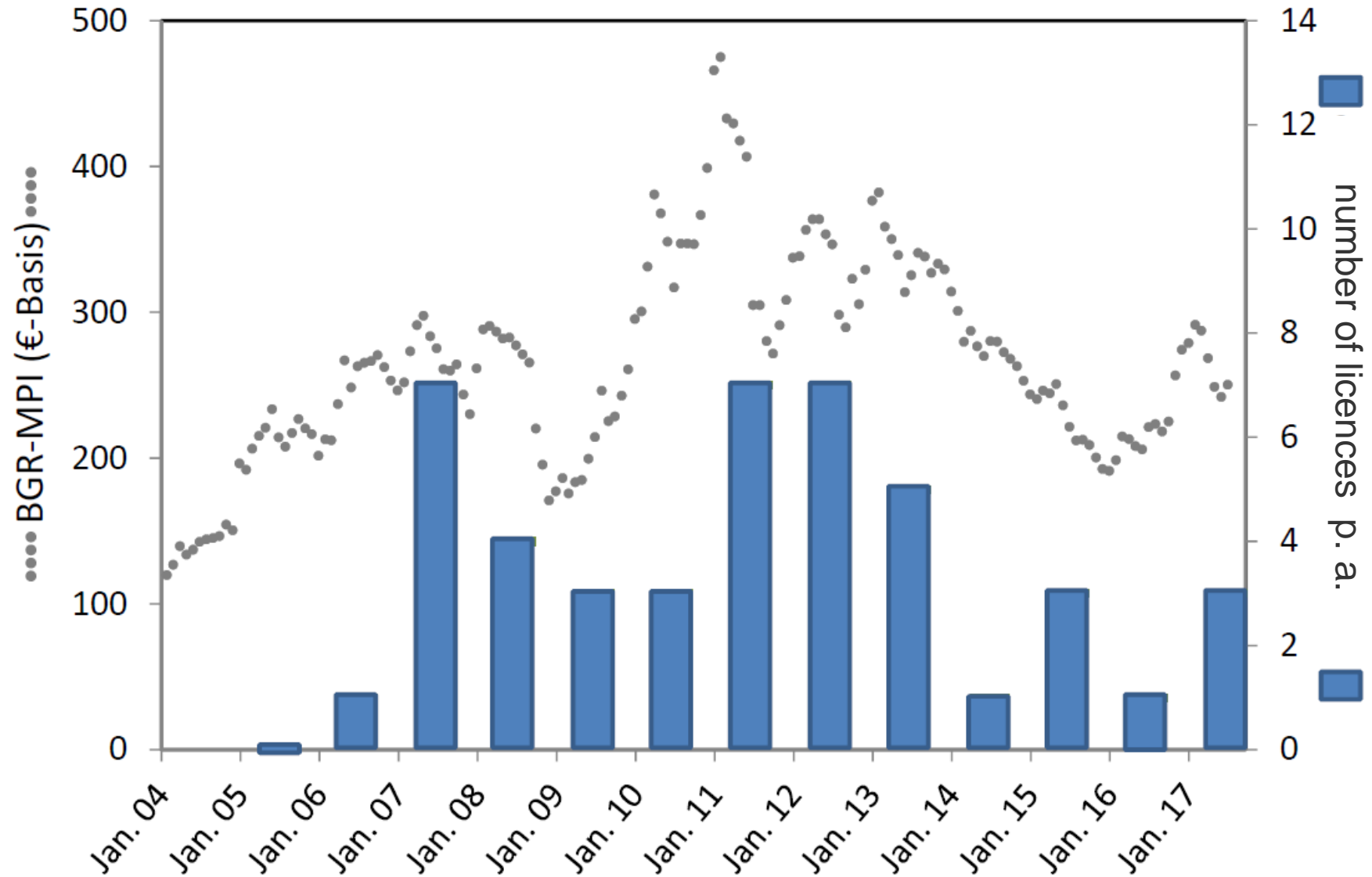


# Active Mining

## stones, gravel, sand, clay



# Active Mining Ore and Spar



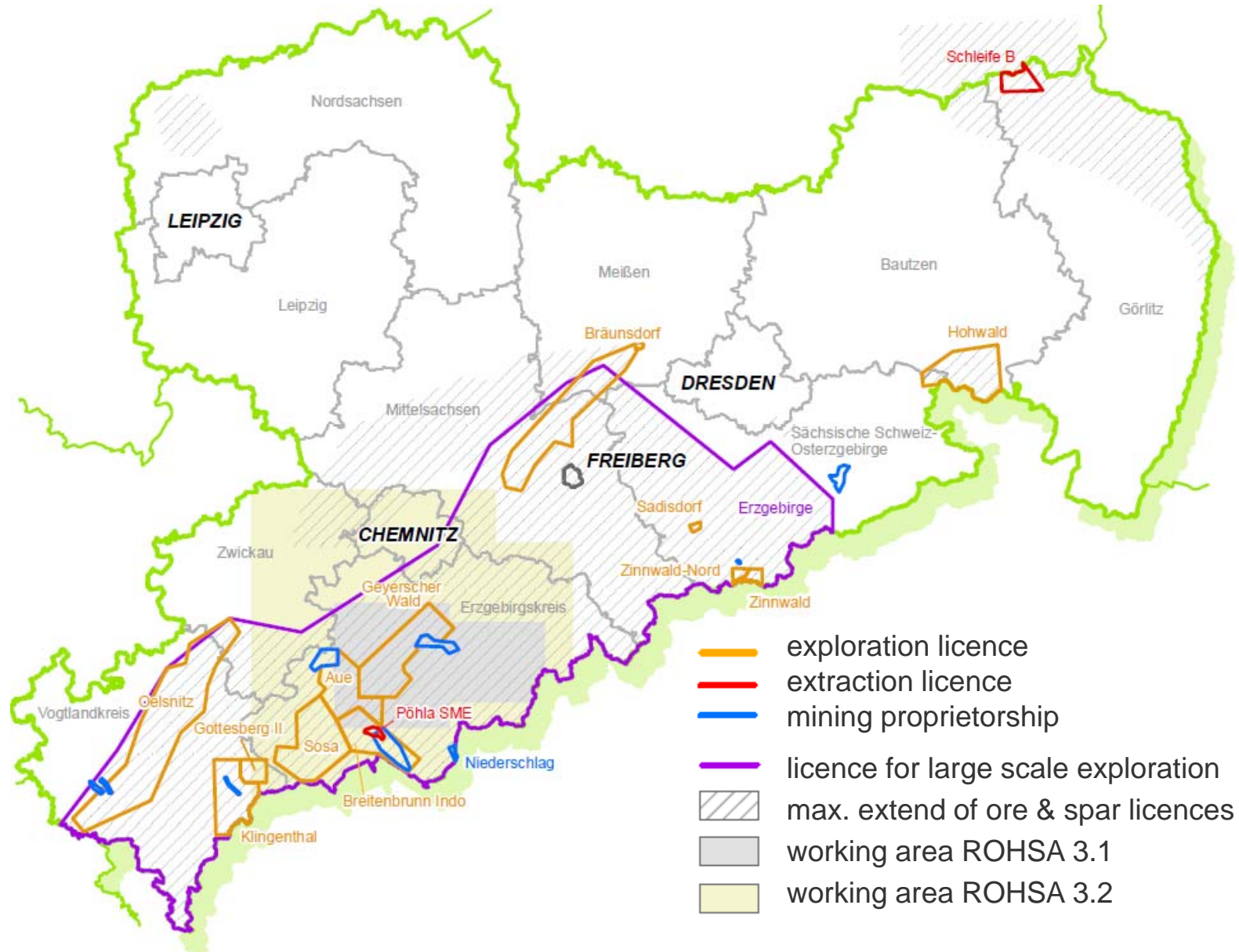


# Active Mining Ore and Spar

SÄCHSISCHES  
OBERBERGAMT



Freistaat  
SACHSEN



# New Spar Mine - Niederschlag, EFS

SÄCHSISCHES  
OBERBERGAMT



Freistaat  
SACHSEN



Niederschlag mine, vein Magistralnaja (EFS)

- uranium-baryte-fluorite-deposit, hydrothermal veins in metamorphic rocks
- several mining periods since 16. century (Sn, Fe, Cu),
- uranium mining until 1954



Niederschlag mine, subsurface loading (EFS)



sorting plant in the mine (EFS)

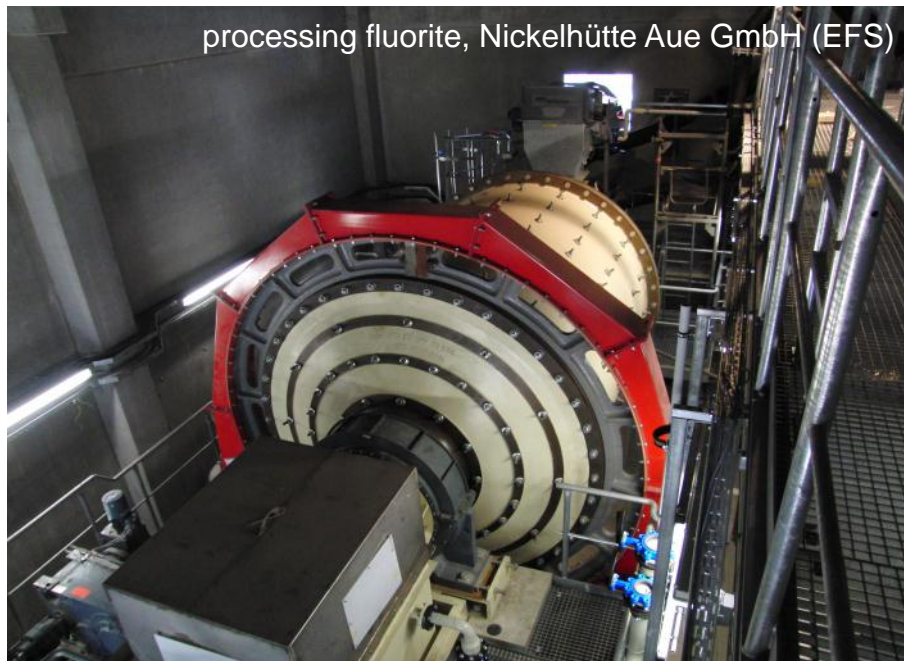
SÄCHSISCHES  
OBERBERGAMT



Freistaat  
SACHSEN

## New Spar Mine

### Niederschlag, EFS



processing fluorite, Nickelhütte Aue GmbH (EFS)

- March 2008  
approval of the licence for extraction
- November 2013  
test operation
- since 1. April 2015  
regular operation

# Saxon Raw Materials Strategy

SÄCHSISCHES  
OBERBERGAMT



## Raw Materials Policy of the State of Saxony

- 2012 decision of the state government
- component of the coalition agreement
- implementation by national and international projects

- financial resources  
about 1 Mio. €/ p.a.
- 8 guidelines for  
Saxony as a Mining  
State
- concrete action plan



# Saxon Raw Materials Strategy

## 8 Guidelines

SÄCHSISCHES  
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1. Primary Raw Materials - Saxony as a Mining Region
2. Secondary Raw Materials
3. Saxony as a Region for Raw Materials Industry and Business
4. International Cooperation
5. Resources in Science and Technology in Saxony
6. Professionals for the Resource Sector
7. Saxon Administration as a Service for Raw Materials Industry and Business
8. Awareness of Raw Materials



Niederschlag, EFS

# Saxon Raw Materials Strategy

## 8 guidelines — implementation projects

- Primary Raw Materials - Saxony as a Mining Region
  - annual Saxon Raw Materials Conference
  - register for natural building stones (hard rock)
- Professionals for the Resource Sector
  - implementation of a new professional training for a Mining Technician at the Vocational School BSZ Julius Weißbach, Freiberg
- Saxon Administration as a Service Provider
  - additional recruitment for the State Mining Authority
- Awareness of Raw Materials
  - support for Geoparks
  - Raw Materials Exhibition
  - topical conference on raw materials for geography teachers 2018



# Saxon Raw Materials Strategy

## 8 guidelines — implementation projects

### I International Cooperation

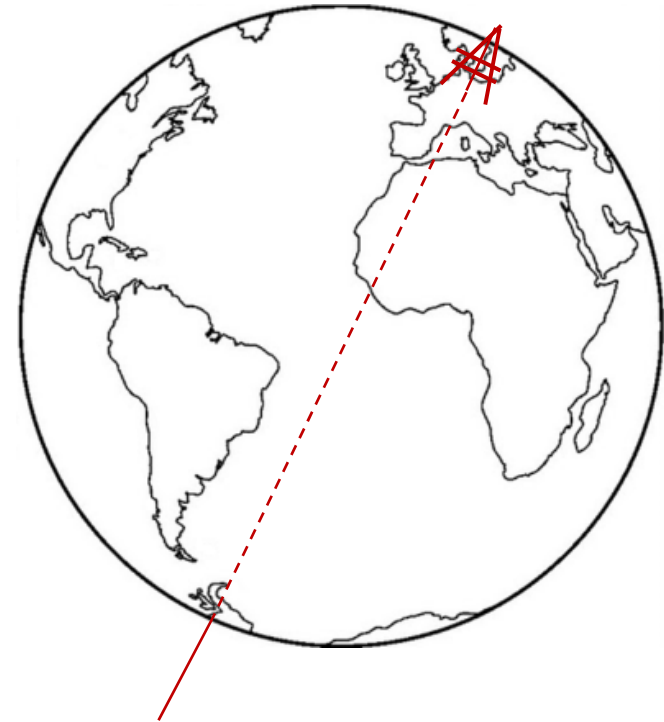
- INTERREG - MineLife — cooperation between the mining administrations of Lower Silesia and Saxony
- INTERREG - Remix — resource efficient and environmentally and socially acceptable production of raw materials in smart and green mining regions of EU
- INTERREG – ArchaeoMontan — Czech – Saxon cross-border exploration of ancient mining in the ore mountains
- Technical Cooperation with Mozambique — reinforcement of the Mining Authority (organisation, recruitment, education, mine rescue, disaster mitigation, ...)



# Saxon Raw Materials Strategy

## 850 years mining in the Ore Mountains

- The Ore mountains — one of the best explored mountain ranges in Europe
  - total depth of drilling > 15000 km
  - after the political change dissemination of data in dozens of private and official archives
- high value for the exploring mining industry
  - old data, especially from GDR drilling, of high quality
  - proof of excellent fit with new data from recent exploration

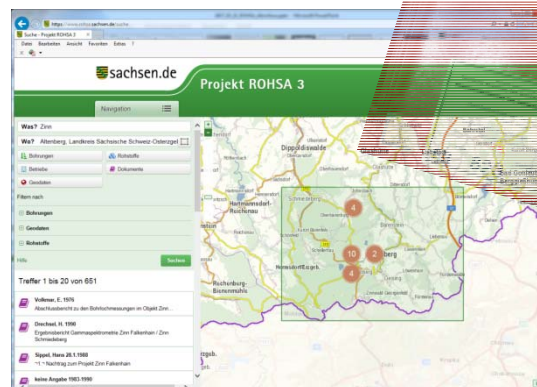
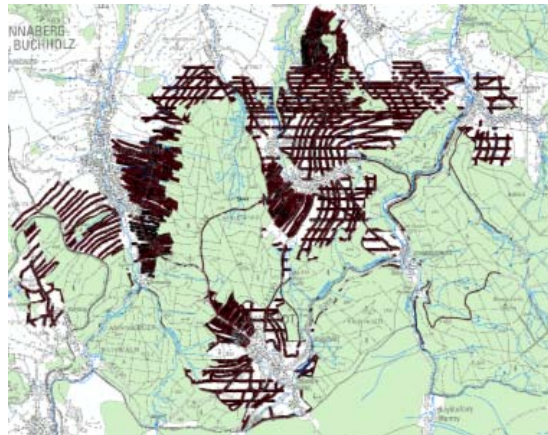




# Saxon Raw Materials Strategy

## ROHSA 3 — the key project

- Add value on geological resource data for the economy, science, and administration
  - to register, to sift, to save, to edit and process, and to make available in a digital form all raw materials data from Saxony
  - project team: State Geology (LfULG) and State Mining Authority (OBA)

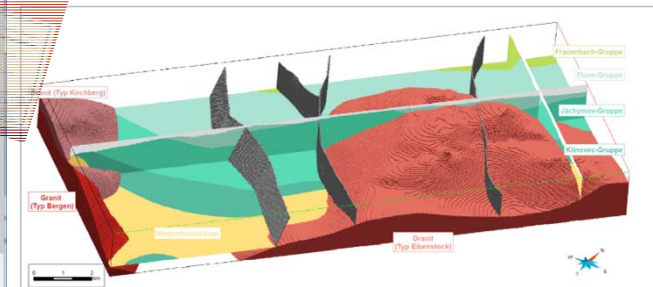
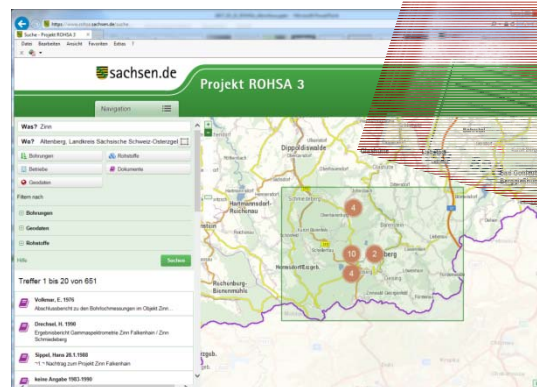
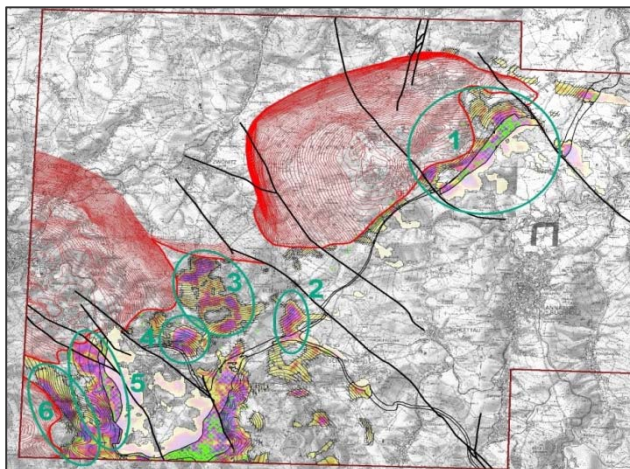
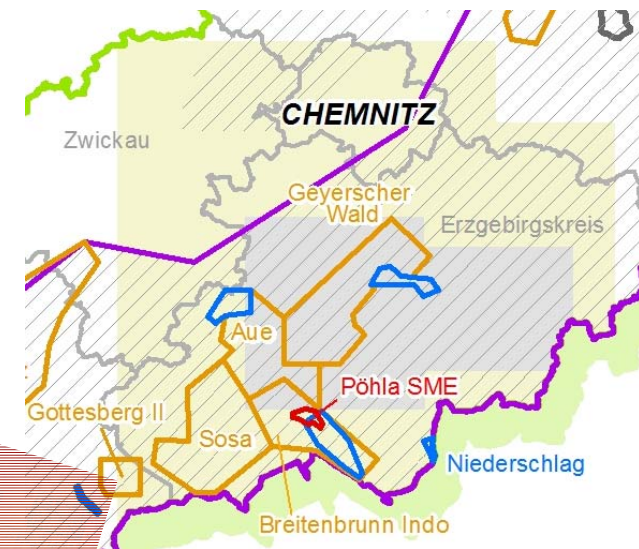


# Saxon Raw Materials Strategy

## ROHSA 3 — the key project

- Add value on geological resource data for the economy, science, and administration
  - pilot project ROHSA 3.1, 3,7 Mio. € from 2013 to 2016 in a selected area
  - current phase ROHSA 3.2 in an extended area, ~ 1 Mio. € p.a.
  - proof of projects value by a resource assessment and a geological 3D model
  - envisaged completion 2024

[www.rohsa.sachsen.de](http://www.rohsa.sachsen.de)





Glückauf  
from the State Mining Authority of Saxony