

# MINPACT

## *Environmental Impact Assessment of Mining and Industrial Activities*

*Belgian Federal Science Policy  
SR/00/37*

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KeyObs S.A.*



# The Meuse Valley

- **Complex overlay of industrial activities :**
  - **The cradle of coal mining and steel making in Europe.**
  - **First industrial zinc metallurgy complex in the world.**
  - **Chemicals (phosphoric acid, fertilizers,...).**



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# Meuse valley – *historical sites*

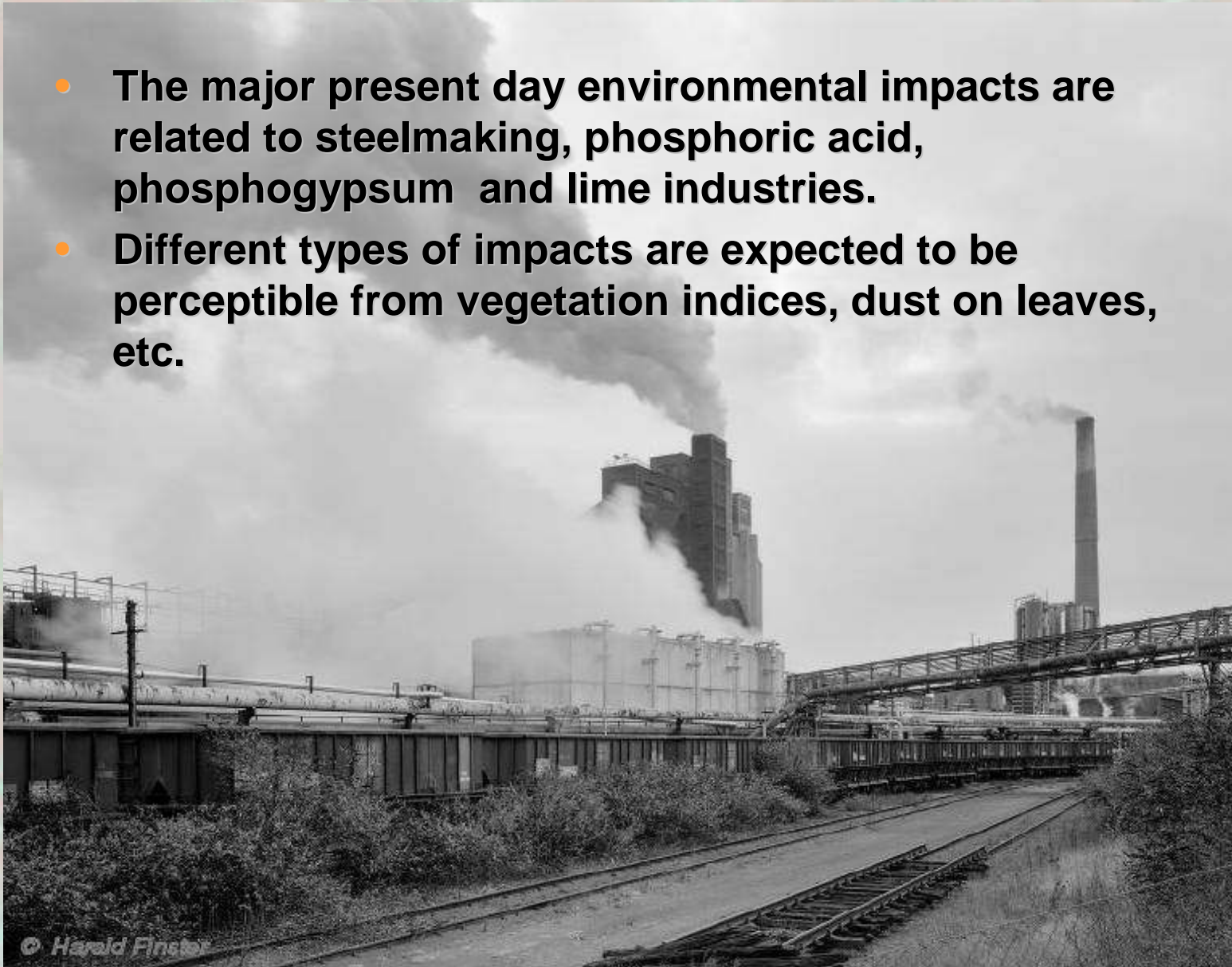
- Sites are colonised by invasive vegetation
- Pollution resistant species





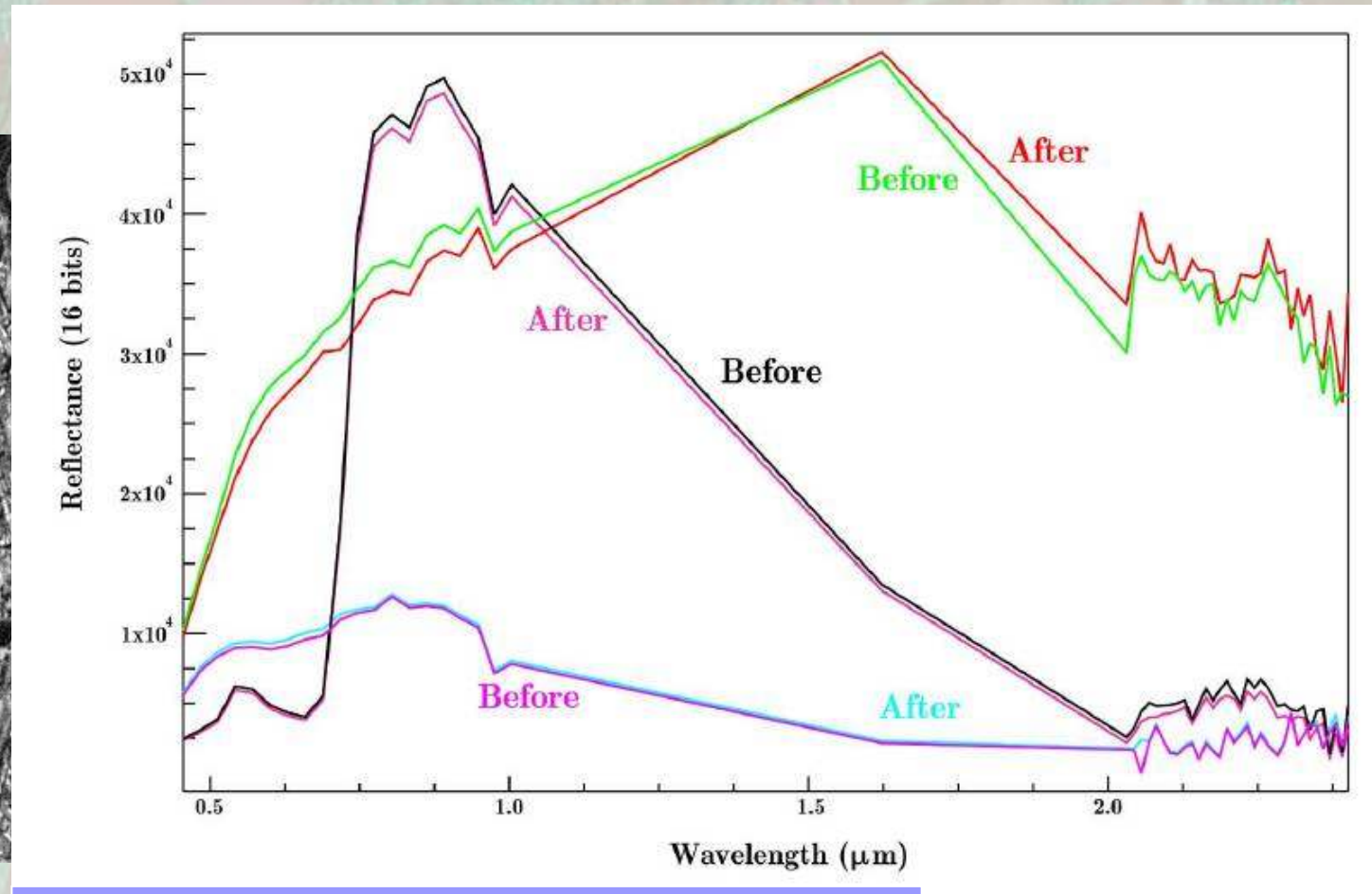
# Meuse Valley – *active sites*

- The major present day environmental impacts are related to steelmaking, phosphoric acid, phosphogypsum and lime industries.
- Different types of impacts are expected to be perceptible from vegetation indices, dust on leaves, etc.



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# Destriping Images



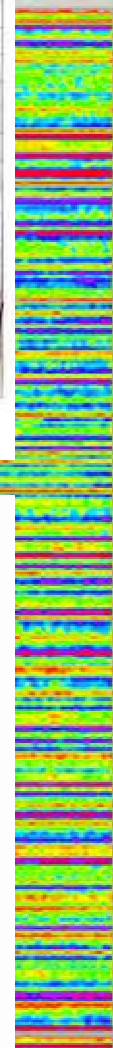
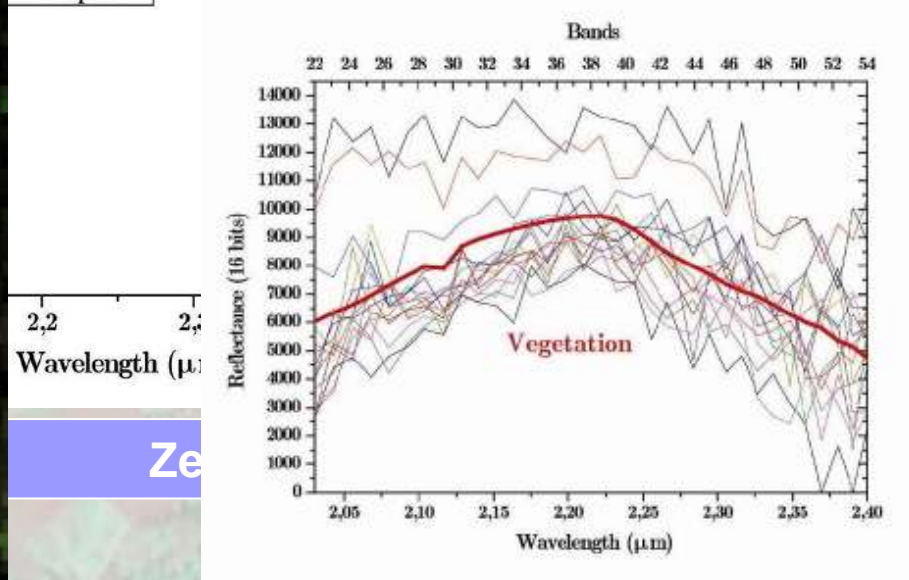
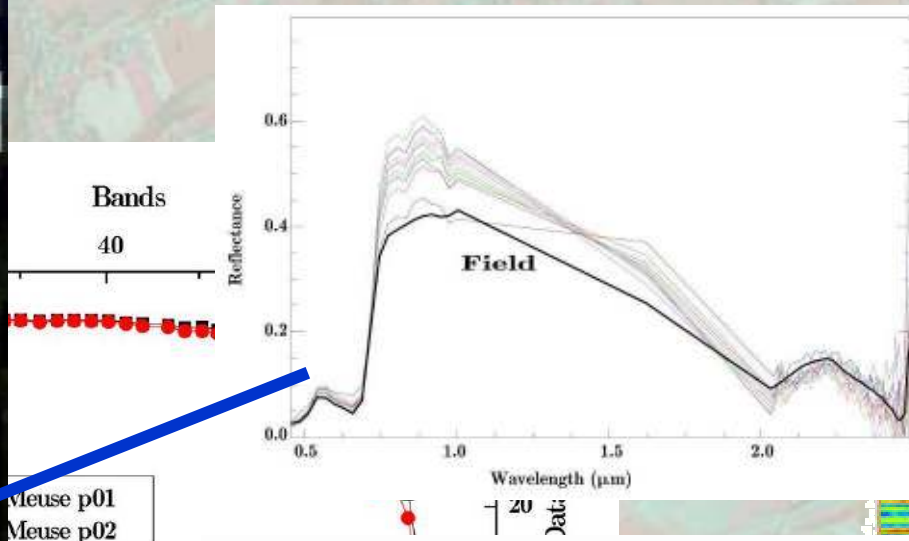
or banding

Spectral signature after correction

Band 22 (2.0310  $\mu\text{m}$ )



# Noise in the dataset



Spectral signature after correction of 63