

Geometallurgical approach and quantitative mineralogy of the copper/gold deposit of Chelopech



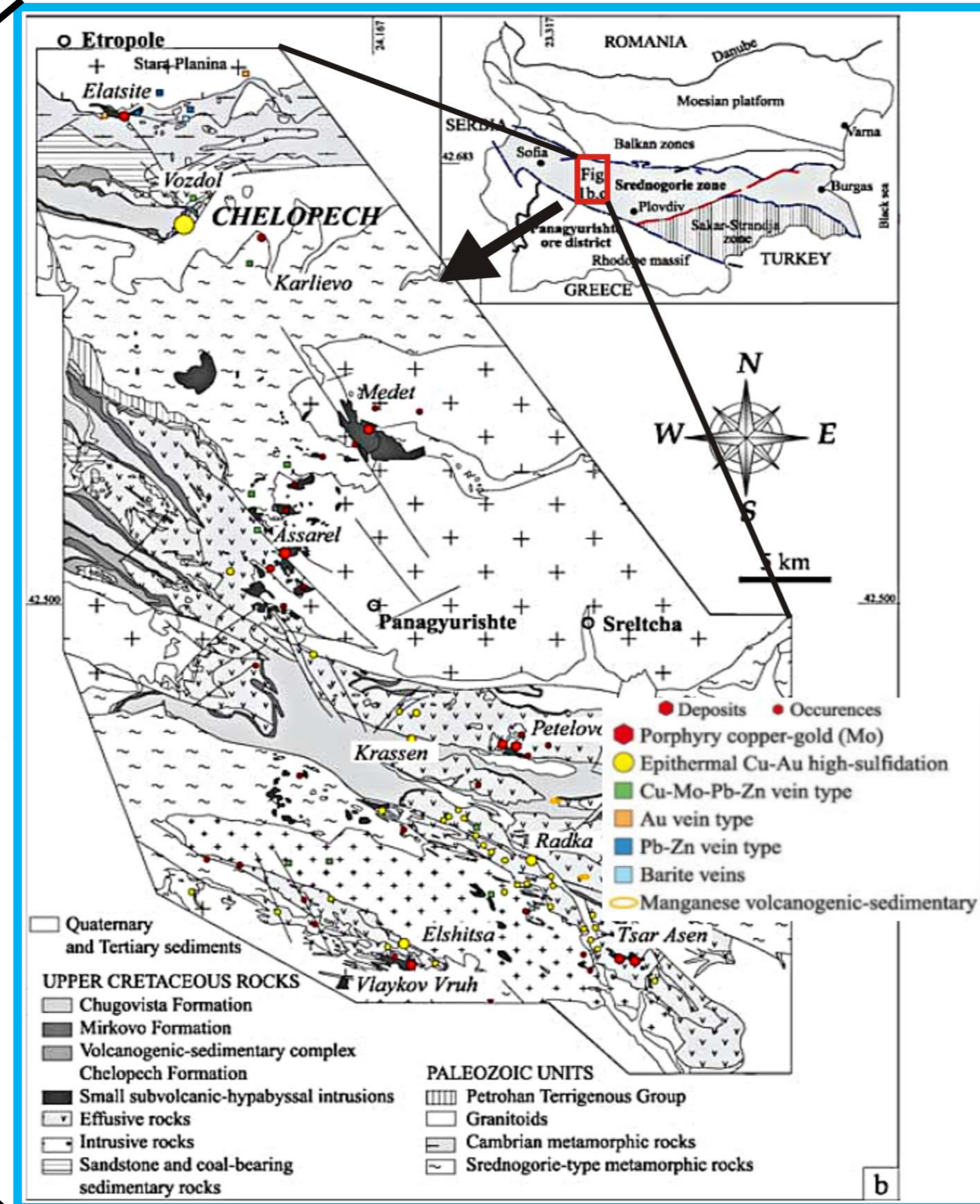
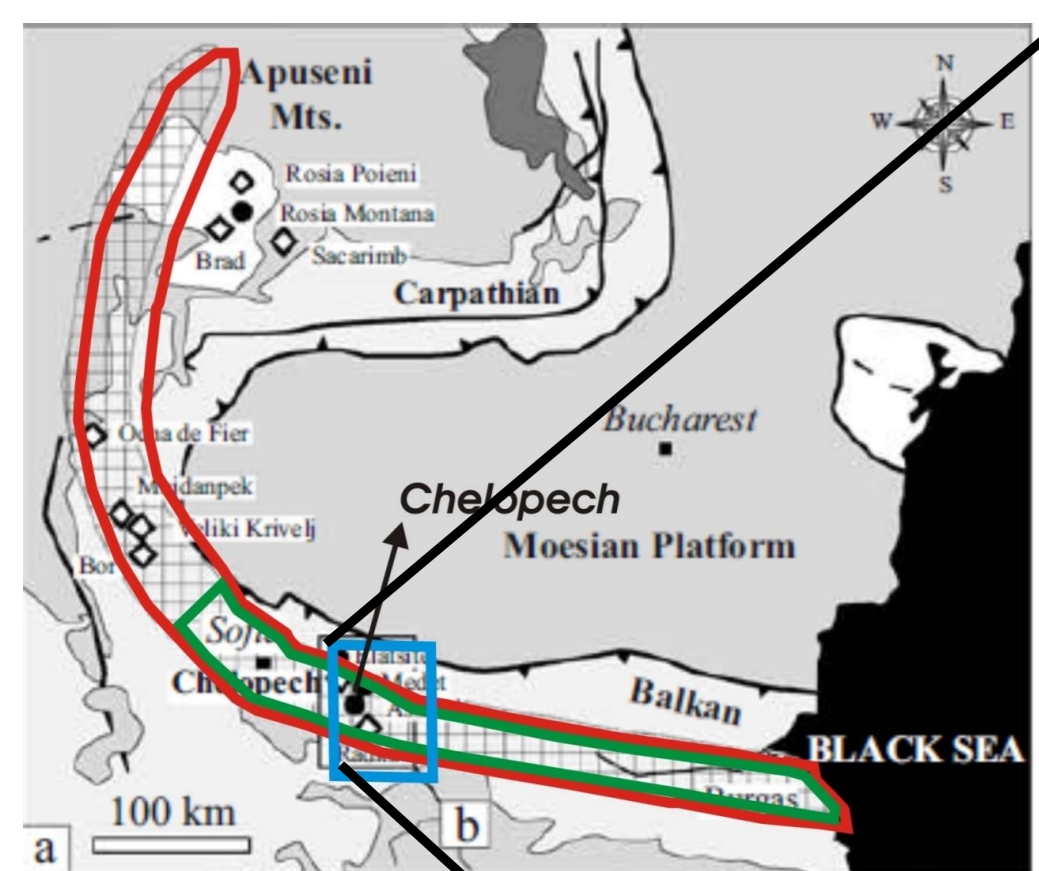
EVRARD Maxime and PIRARD Eric
GeMMe- Minerals Engineering, Materials and Environment



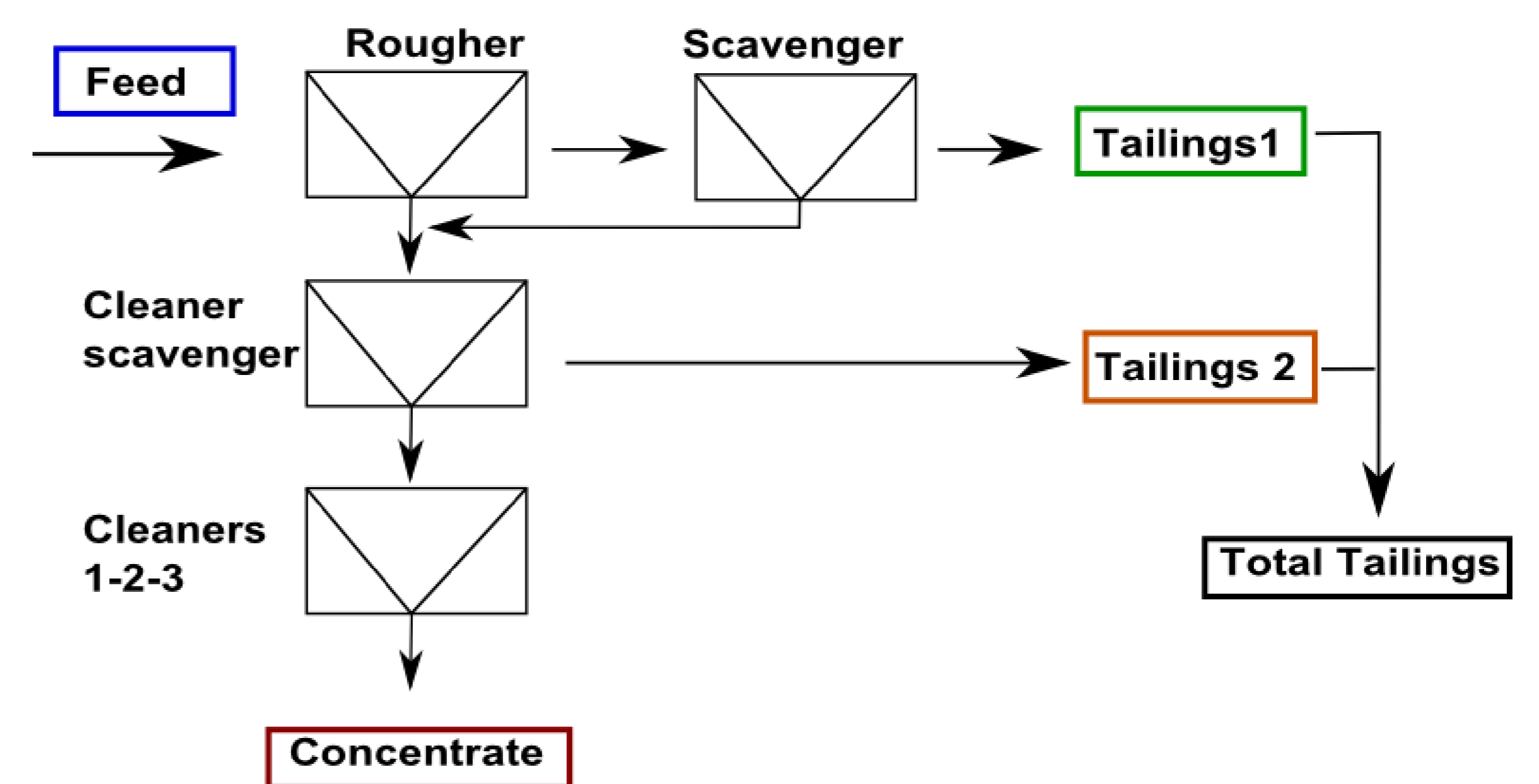
1. Location



- Western Bulgaria at 75km from Sofia
- Southern part of BTS belt
- Central position in Panagyurishte district

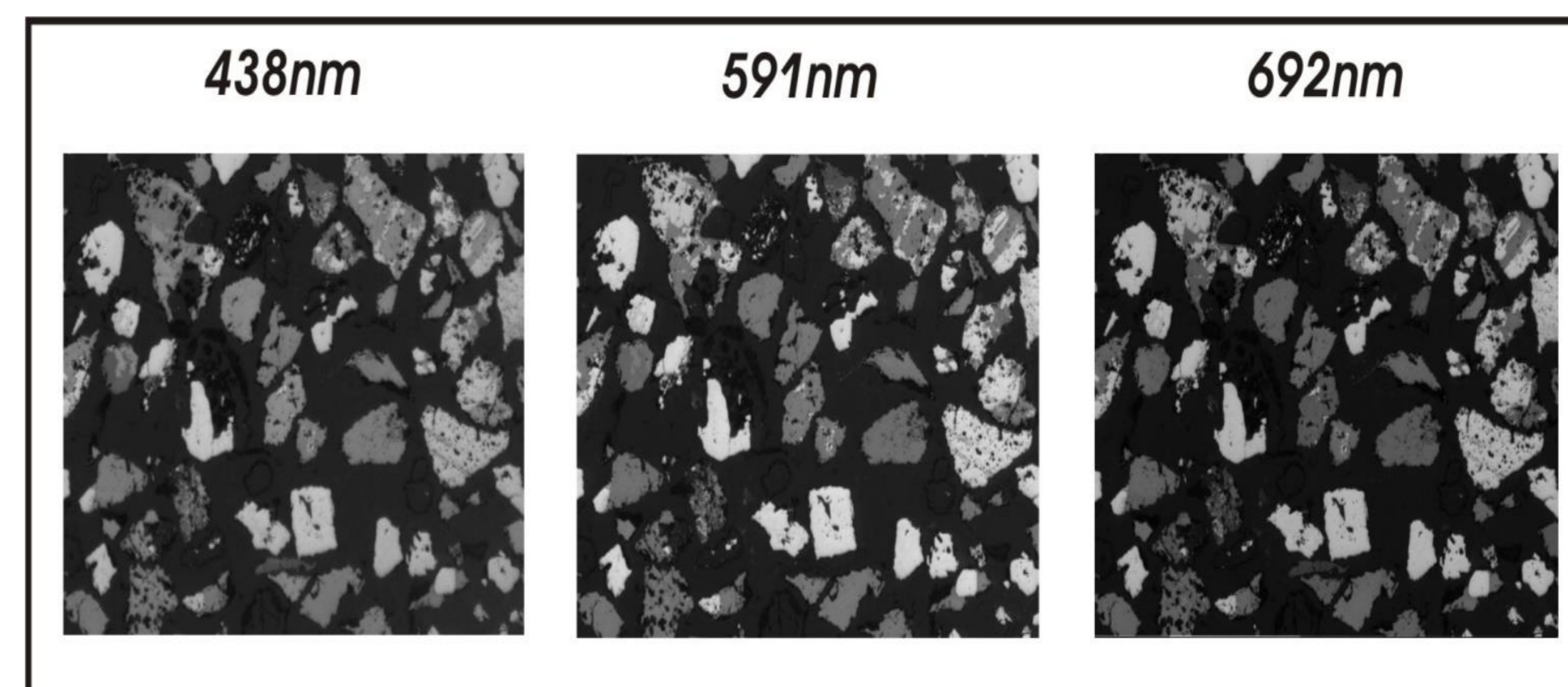


2. Samples



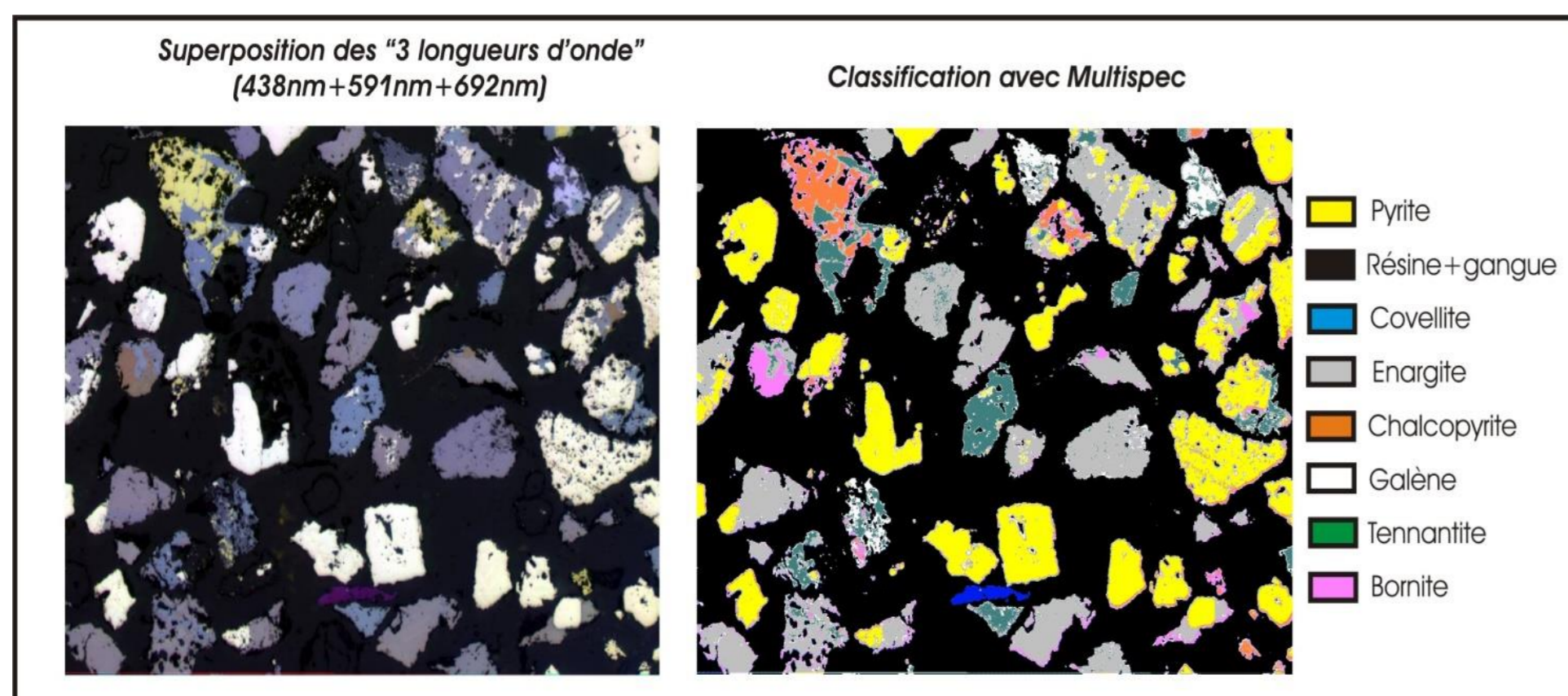
- Creation of polished sections (-38µm, 38-75µm and +75µm) from flotation plant samples

3. Acquisition



- 55 images/ polished section
- 3 wavelengths/image

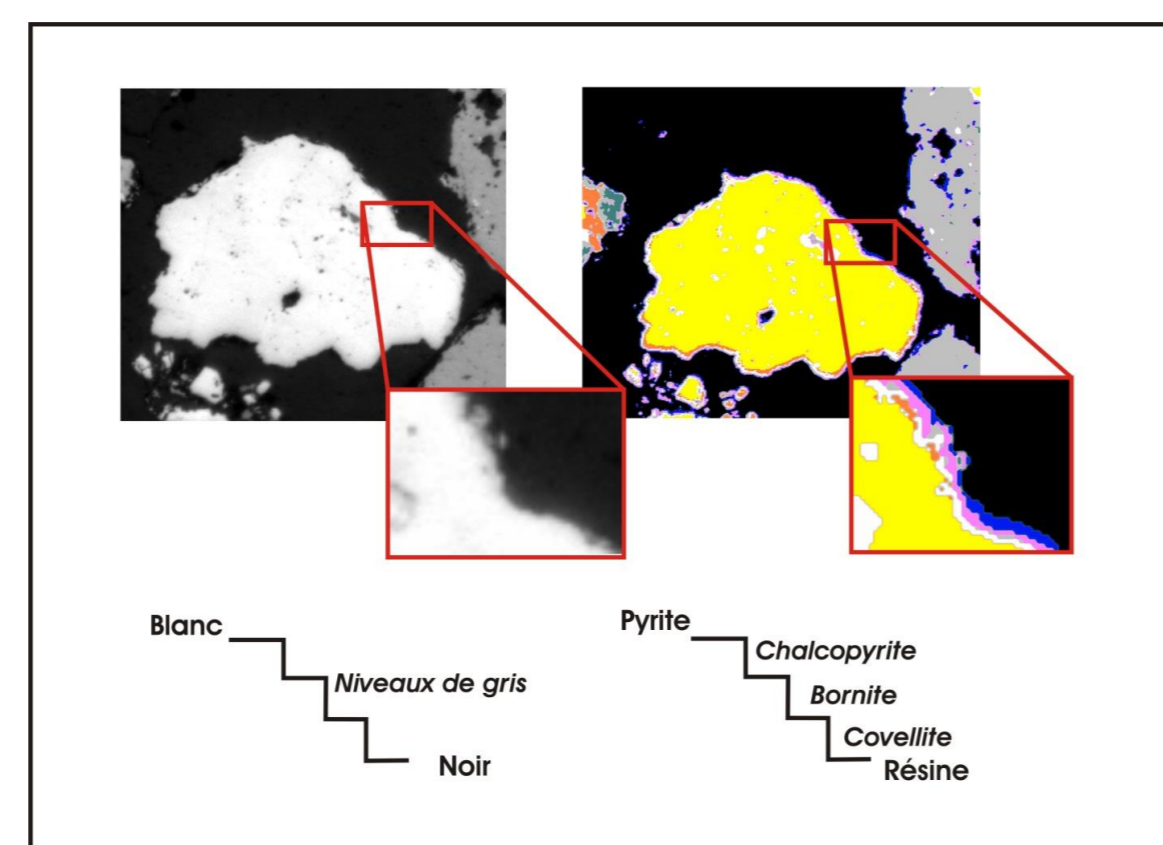
4. Classification of minerals



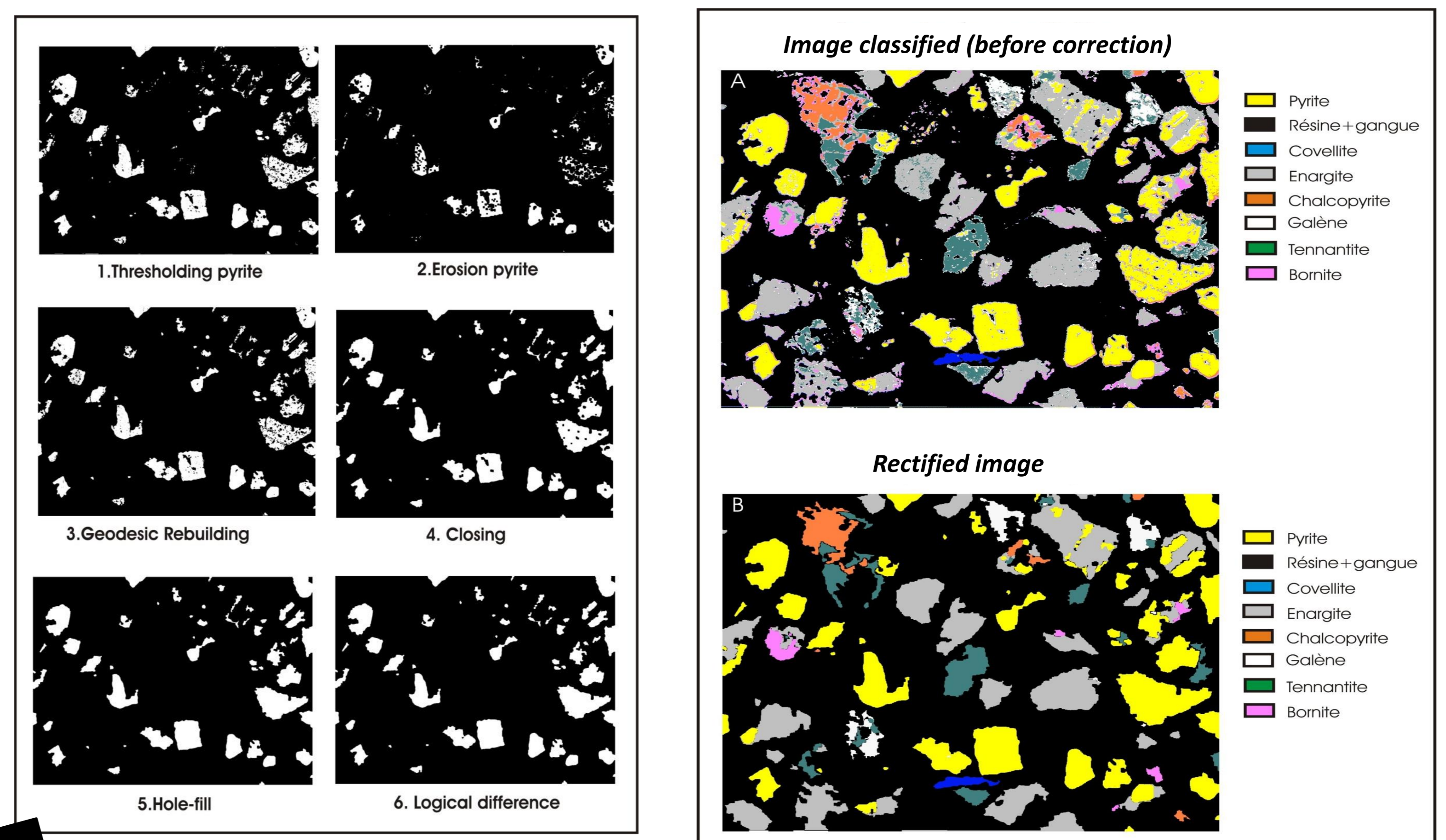
- Excellent classification

but

« Mixel » and plucking problems

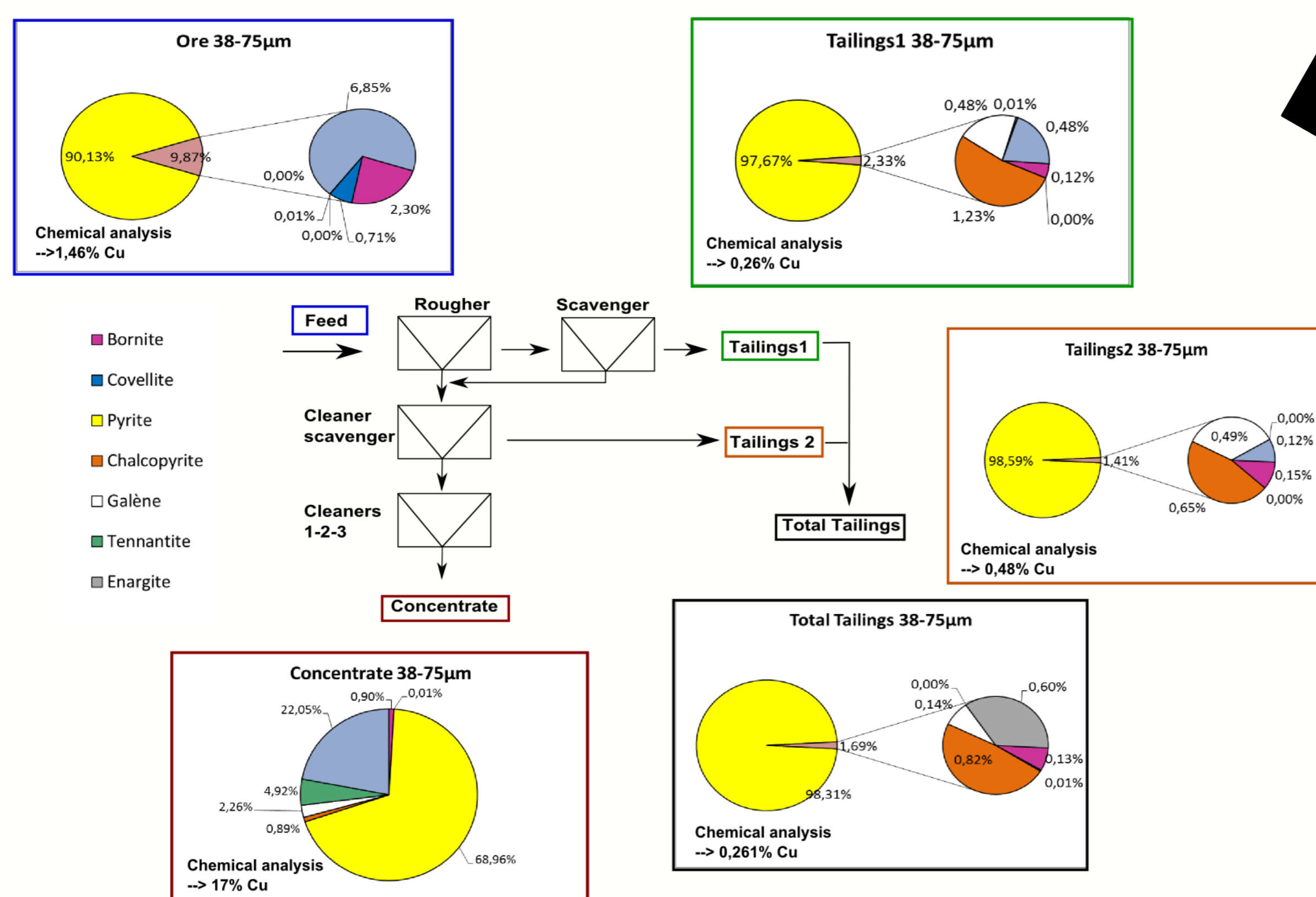


5. Image correction



6. Quantitative results

- Allow to know proportions of each mineral in each sample



- Match with optical observations and chemical analyses

