



recomine
rethinking resources



rethinking resources

From Mine Waste to Products: Innovative Solutions for Tailings

Philipp Büttner, recomine-Coordinator
23th November 2021, Online

The recomine Alliance



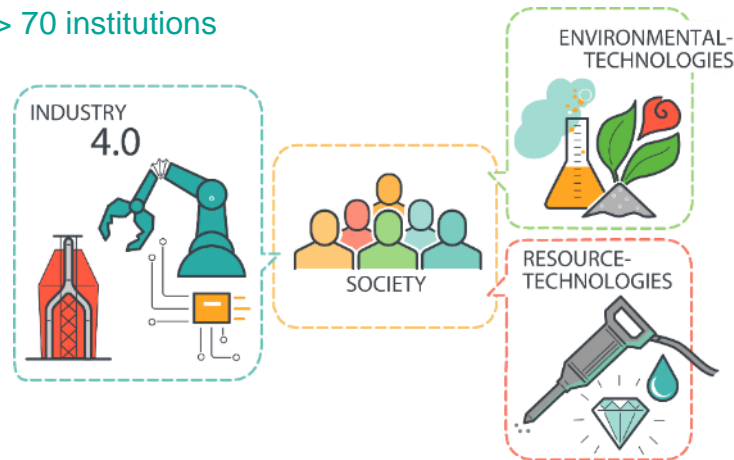
Application-oriented

- East-German mining district
- 5 field laboratories
 - 3 tailing sites



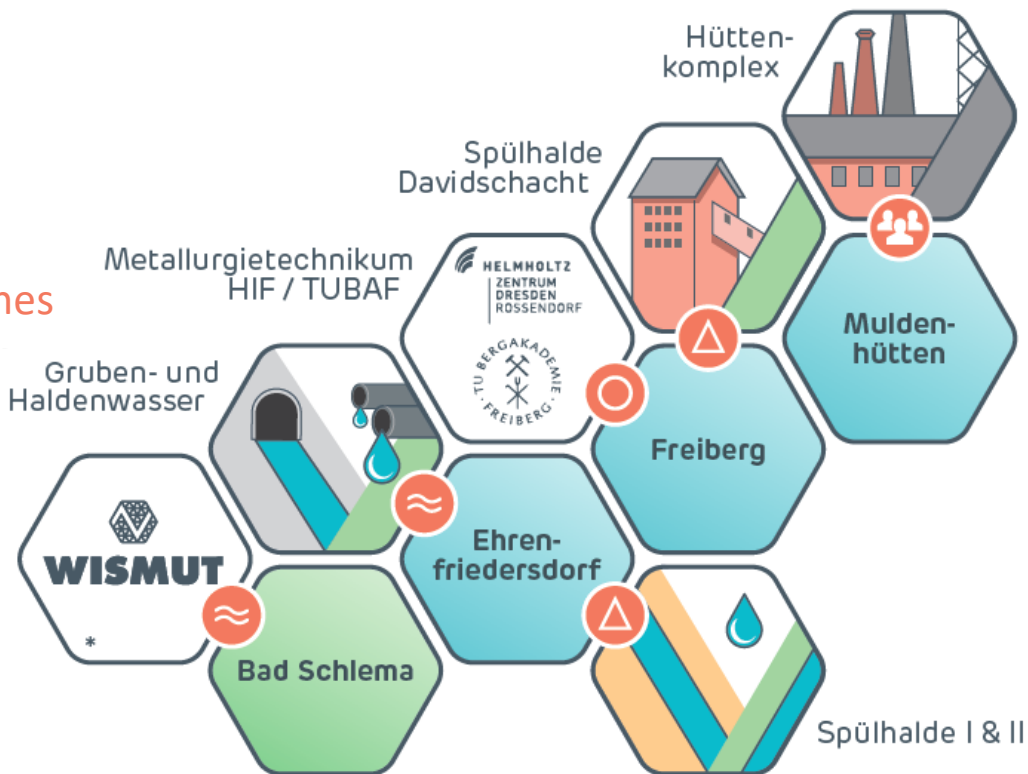
An alliance behind the consortia

- > 70 institutions



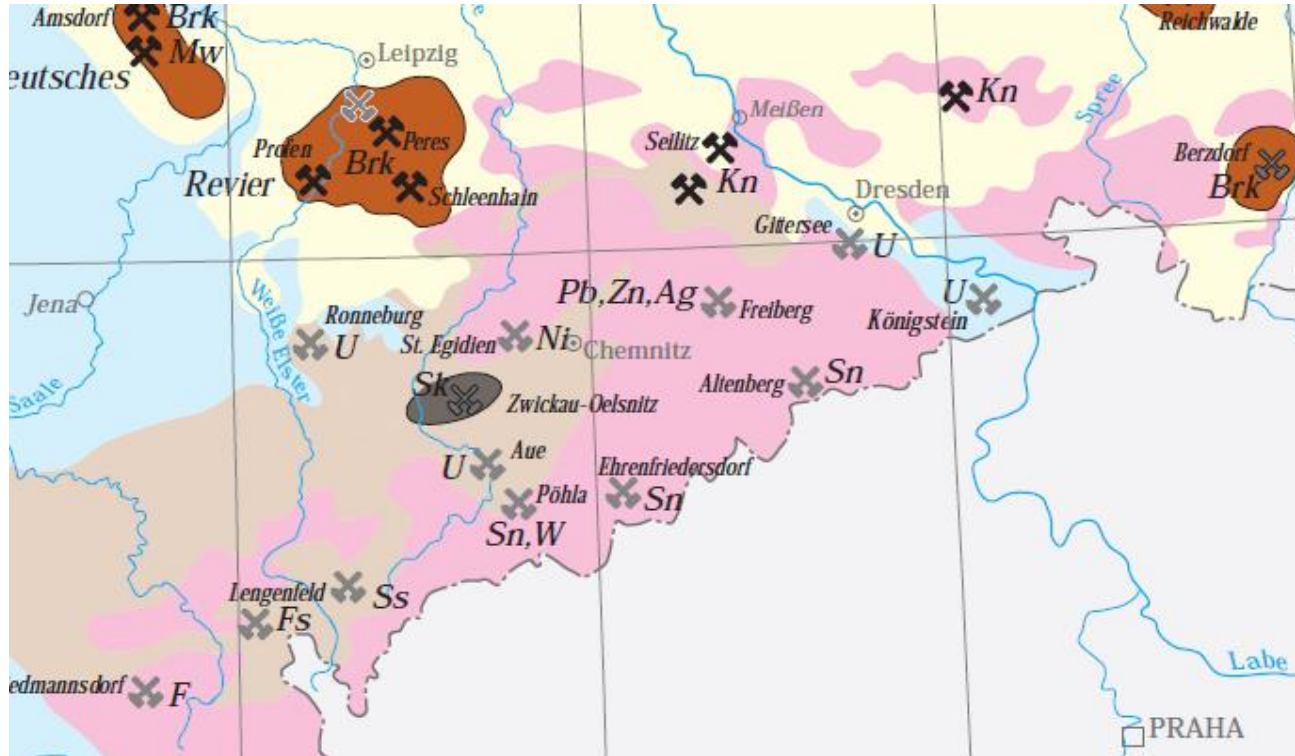
The recomine Field Laboratories

- ≈ Mine Water
- 👤 Society
- △ Tailings
- Slags and Ashes



* Abstimmung im Vorfeld erforderlich

The Erzgebirge – THE German Ore Mining Region



Mining in Germany (Saxony)



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From Mining

to Remediation

Philipp Büttner

Mining in Germany (Saxony)



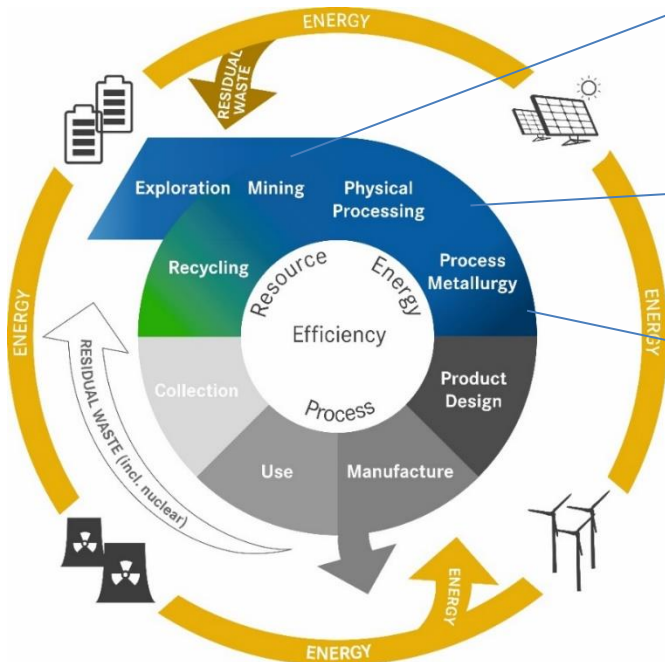
© Sächsische Zeitung



... and back!

Barite, Tin, Tungsten, Lithium, Silver, Gold

Alliance for Holistic Mine Waste Solutions



Mine Water



Tailings



Slags and Ashes

Risks from Tailings



Source: www.docplayer.org



Source: www.osterzgebirge.org

Water Contamination / Acid Mine Drainage / Radon Gas



Source: MiningMagazine.com

Risk of Collapses and Dam Failure

Global Need for Innovative and Holistic Mine Waste Solutions



GlobalTailings
Review.org

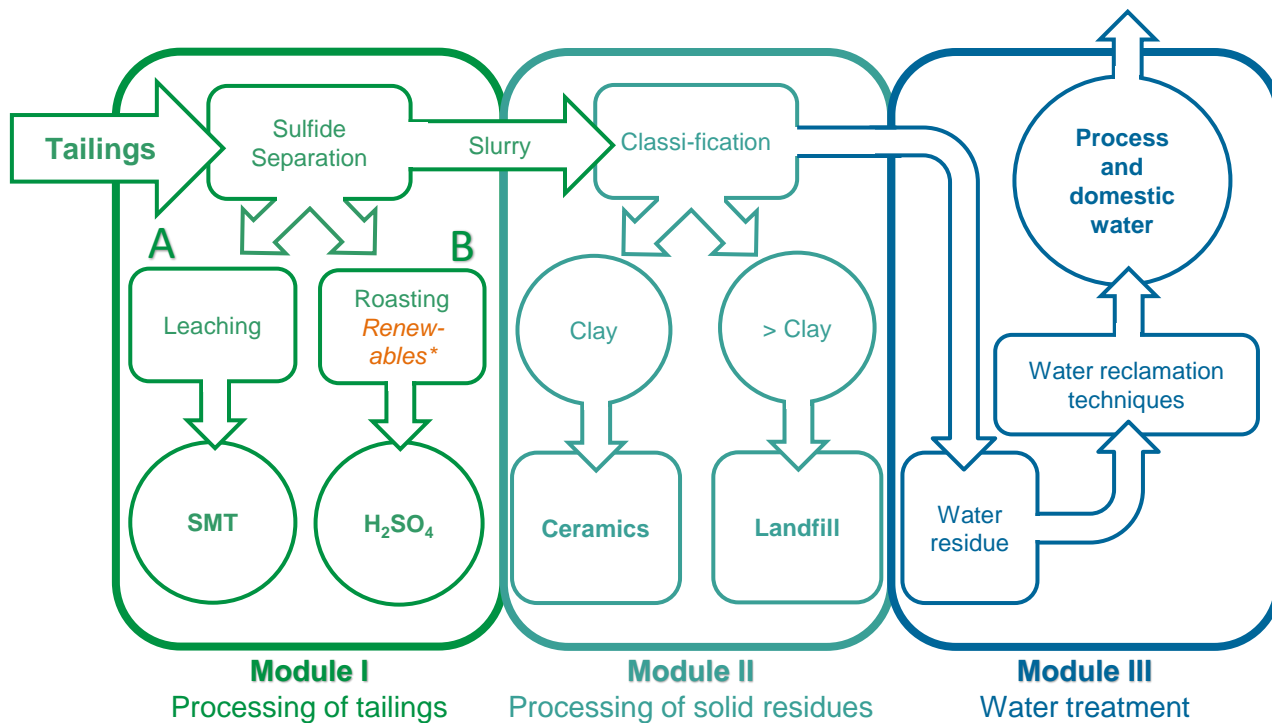
GLOBAL INDUSTRY STANDARD ON TAILINGS MANAGEMENT

- August 2020: First Global Industry Standard on Tailings Management (published in London)
- Initiative of ICMM (27 biggest Mining Companies of the World)
- Aim: „Zero Harm“ for local People and Environment
- 15 Principles with 77 Tasks over the whole Lifecycle of a Tailing, Stricter than the National Laws
- About 12.000 open Tailings worldwide at the moment*

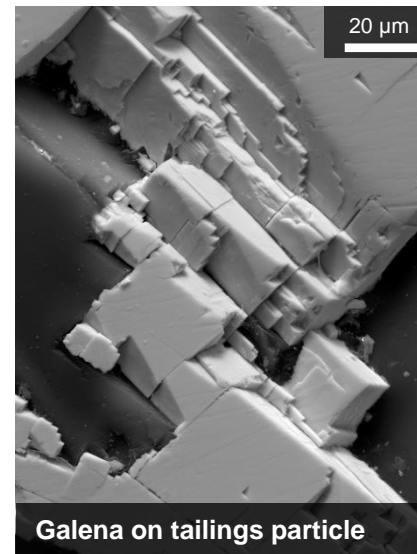
Philipp Büttner

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Detailed Analysis





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