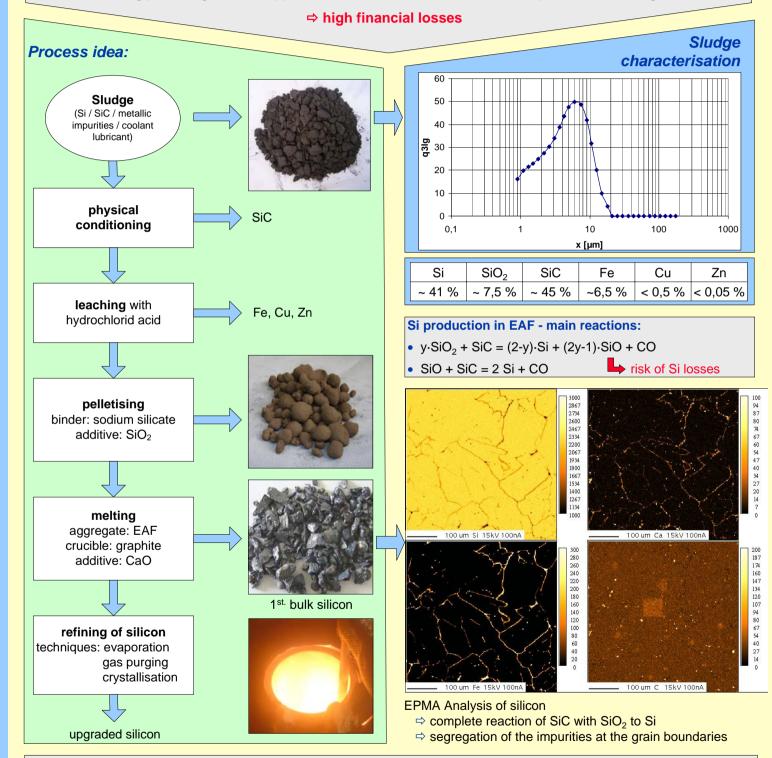
## Recycling of silicon from photovoltaic production sludge

## **Motivation:**

- global warming and CO<sub>2</sub>-emission lead to a stronger usage of alternative energies like the photovoltaic
- over 90 % of present solar cells are manufactured on the basis of crystalline silicon
- SoG-Si production capacities are limited and prices high up to 200 US\$ / kg (spot market)
- the wafer cutting process generates approx. 34 % of Si losses in form of fine Si-powders in a sludge





## Result:

• turning a waste to product - utilisation of the sludge as "new" feedstock for production of upgraded silicon



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