Today's industrial nations largely depend on raw materials to support their leadership position and to secure their future development. However, increased global population growth and the industrialization of emerging countries have seen a surge in raw material demand, such as metals and minerals. This can easily lead to global shortages for materials in high demand. The lack of direct access to most primary raw materials makes most European industrial nations dependent on imports from other resource-rich countries in partially politically unstable regions. The alternative domestic recovery of secondary raw materials is therefore of increasing importance, decreasing dependence and increasing self-sufficiency. It is therefore vital to identify critical secondary raw material resources in demand by the industries and develop novel recovery processes.

Keywords
- Waste management concepts
- Resource strategies
- Recycling technologies
- Urban Mining
- Landfill Mining
- Feasibility studies
- Household waste
- Industrial waste
- Sewage sludge
- Phosphorus recovery

Target groups
- Municipalities
- Plant operators
- Plant manufacturers
- Authorities
- Waste management
- Sewage management
Services and equipment

- Waste management concepts
- Strategies for sustainable raw material supply
- Disposal and recycling concepts
- Statistical data analysis and forecast of waste amounts
- Technology assessment and optimization
- Feasibility studies
- Life cycle assessment tools

Your benefits

From consultation and conception to implementation:
- Longterm expertise in all fields of waste and resource management
- Holistic approach considering all process steps in a value chain
- Independent and technology-neutral development, evaluation and optimization of recycling management concepts and technologies
- Engineering and operation of pilot plants
- Transfer of knowledge and experience

References

- Survey and Establishment of a comprehensive Database for Waste Management and Preparation of a National Waste Management Strategy for Kuwait – eMISK
- Analysis of the resource potential in mixed commercial wastes in the Würzburg region
- Preliminary study for waste management plan for the federal state of Baden-Wuerttemberg
- Waste management concept for the public waste authority of Munich
- Resource strategies for the federal states of Bavaria, Hesse and Baden-Wuerttemberg
- Pilot trial for the extended collection of valuables from households (electronic waste, metals and plastics) in the city of Munich
- Recovery of high-tech metals from electronic waste by thermal treatment
- Recovery of nonferrous metals from waste incinerator slags by mechanical pretreatment