Evaluation of aggregates for the Austrian Mineral Resources Plan

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The aim of the Austrian Mineral Resources Plan is to preserve access to valuable mineral resources for future generations.

Phase II: Balance check with provincial governments

Proposal for resource protection zones

Discussion and Negotiation

- land for building
- water/nature protection

Superposition of land use data and restricted areas

Phase I: Geological assessment

Definition of resource zones

+ character

Assessment of importance

+ usage

Evaluation of geological potential in foreland / mountain regions

Resource regions

+ quality

+ quantity

Maps of aggregate occurrence and uniform legend compilation of unconsolidated sediment occurrence

Character

accessibility  sediment cover  groundwater level

Geological Potential


Geology examples

carbonate / clay intercalations  sandstone / siltstone

Quantity

Geology

carbonate / clay intercalations

Use

extent

thousands / ha

Quality

lithology

usage

e.g.: sandy gravel, sorted, rounded, intercalations of fine-grained material, rarely conglomerate

e.g.: concrete (after sieving)

Assessment of importance

Use

supply  demand

Evaluation of geological potential in foreland / mountain regions

Resource regions

Distribution of gravel pits and extent of models of sediment thickness and groundwater table

Lithological characterisation of aggregates

Compiled map of unconsolidated sediments 1:50.000 and location of pilot study (District of Melk)

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Geological Survey of Austria

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