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Massive Open Online Course (MOOC)

**MINING, CRITICAL RAW MATERIALS,
LAND USE, AND PERMITTING IN
COMPLEX TIMES: AN INTRODUCTION**



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INTRODUCTORY LECTURE

by Ronald Arvidsson



Cobaltite and Chalcopyrite

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Lecturer Ronald Arvidsson, Geological Survey of Sweden

Experiences in geology and mining

- Geologist and geophysicist
- Working at the geological survey of Sweden since 2012 as a senior geophysicist
- EU related research in mining policy and technological projects during the past ten years.

Education

- BSC Mineralogy petrology and geophysics
- PhD
- Associate professor at Department of Earth Sciences, Uppsala University



The aim of the current MOOC is to:

- Introduce mining in relation to protected nature to professionals in public administration
- How is permitting for exploration and mining done
- Land use
- Resources – what is the basis for the resource, i.e., amount, grade and economic viability of a resource
- Practical aspects of mining in relationship to protected nature
- Stakeholder aspects
- Use real life cases to exemplify solutions and challenges
- An entrance into mining technologies



Rävliiden mine – transformed former mining area into new land use – when finished it will be woodlands and pond. Photo Ronald Arvidsson

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Lecture	Topic	Lecturer
	Introduction	Ronald Arvidsson
Lecture 1	Need for Raw Materials	Ronald Arvidsson
Lecture 2	Geological Data	Nikolas Ovaskainen
Lecture 3	Land Use	Ronald Arvidsson
Lecture 4	Resource Classification	Sergio Castro Reino and Ronald Arvidsson
Lecture 5	Permitting in protected Areas (Sweden)	Ronald Arvidsson
Lecture 6	Environmental Mitigation (Sweden)	Magnus Johansson
Lecture 7	Strategic projects (Finland)	Toni Eerola
Lecture 8	Innovation and social investment (Portugal)	Jose Mario Branco
Lecture 9	Mining technologies	Ronald Arvidsson



Thank you





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