

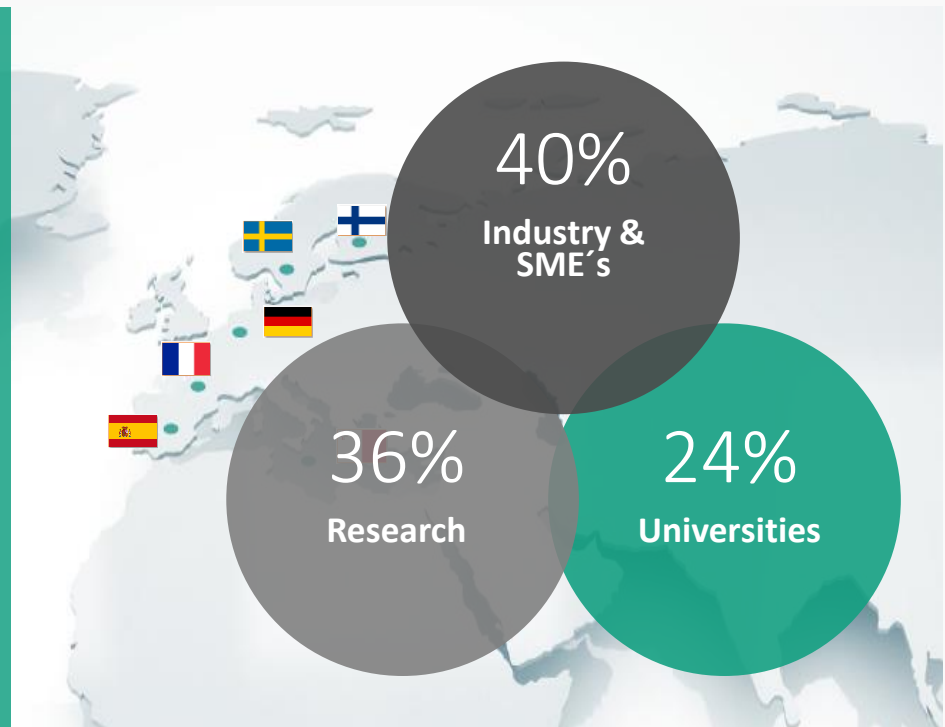
# NEXT – New Exploration Technologies



H2020 research project on the development of novel technologies for ore exploration

## NEXT key figures

- ✓ Call: H2020-SC5-13c-2016-2017 - New solutions for sustainable production of raw materials
- ✓ Total budget: 6.9 Mio. €
- ✓ Duration: 01.05.2018 – 30.04.2021
- ✓ Coordinator: GTK (FIN)
- ✓ Consortium: 16 partners from 6 EU countries



*16 partners from leading EU research institutes (3), academia (3), service providers (5) and industry (5) from Finland, Sweden, Germany, France, Malta and Spain*



# NEXT – New Exploration Technologies



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The main objective of NEXT is to develop innovative and sensitive exploration concepts and technologies, and to investigate and promote their acceptance by the society.



Technology related

New and more sensitive exploration technologies and solutions



Economy related

Exploration at lowest possible costs and identification of new exploration targets



Environment related

Reduction of the exploration footprint



Society related

Improving awareness and trust of society to a sustainable raw materials exploration, ultimately targeting the safeguarding of existing employment and creating further new employment opportunities



Policy related

Recommendations to feed the Raw Materials Strategic Implementation Plan



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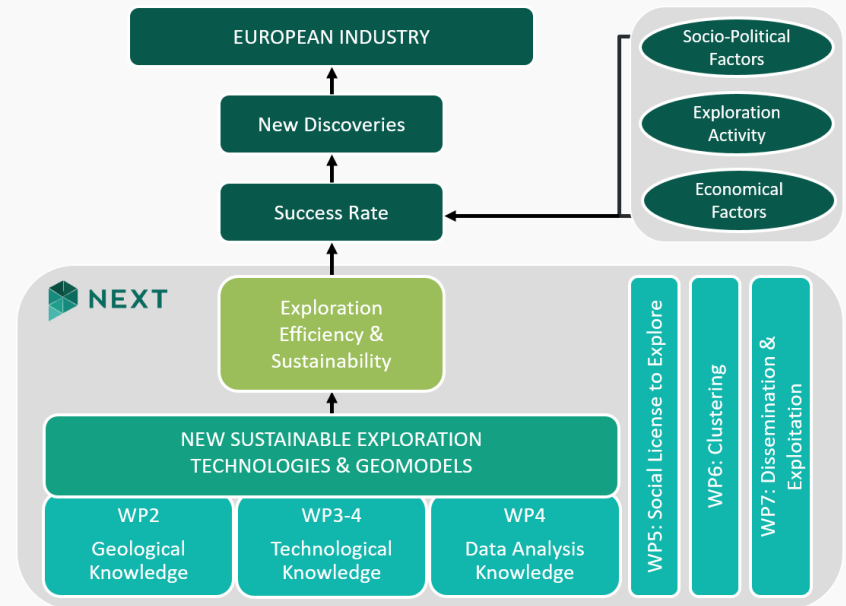


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## Methodology

The overall methodology in NEXT is structured around three pillars of technological advances:

- (a) Mineral systems modeling,
- (b) Exploration methods and approaches, and
- (c) Data processing and data integration tools.



Project concept



This project is funded by the European Union

3 – 6 March 2019

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## Specific objectives & developments




- 1 New **geological/litho-geochemical** technologies for the exploration of hidden critical metal-enriched ore deposits
- 2 A novel **geophysical EM system** for ore exploration based on unmanned aerial vehicles (**UAV**)
- 3 A high-end accurate **vector magnetic system** integrated to UAV in order to upgrade mineral exploration survey to totally new level
- 4 **Better cost-efficient** and **environmentally-friendly multi-source surface geochemical** exploration techniques for target scale mineral exploration
- 5 **New environmentally friendly instruments** for mineral exploration using **optical spectroscopy**
- 6 **New geophysical inversion software** for modern drone exploration surveys
- 7 **New on-site geochemical and mineralogical** analysis techniques
- 8 **New advanced methods of data processing and data integration** for the development of mineral prospectivity maps and spatial data mining
- 9 Improved relations between the mining industry and broader society by **enhanced participation of civil society** from the start of mineral exploration
- 10 **New scientific and technical synergies** between European projects dealing with Raw Materials



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## NEXT consortium:



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