



Funded by  
the European Union

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or HADEA. Neither the European Union nor the granting authority can be held responsible for them.

# S34I'S PROJECT CONTRIBUTION IN SOCIAL ACCEPTANCE

## S34I

SECURE AND SUSTAINABLE SUPPLY OF RAW MATERIALS FOR EU INDUSTRY

*TARANTULA clustering event – 19/4/2023*

*Maria Mavroudi  
Montauniversität Leoben*



# AGENDA

- Project briefing
  - General Framework of SLO*
  - Consortium overview*
- General framework – Addressing SLO in S34I
  - Objectives concerning SLO*
  - Status – actions planned*
  - Challenges*
  - Gaining social acceptance (SLO) with EO tools*
- Stakeholder & dissemination actions
- Discussion

# PROJECT BRIEFING

Social acceptance (SLO)

Remote sensing

Sustainability/circularity



EO data/methods fusion

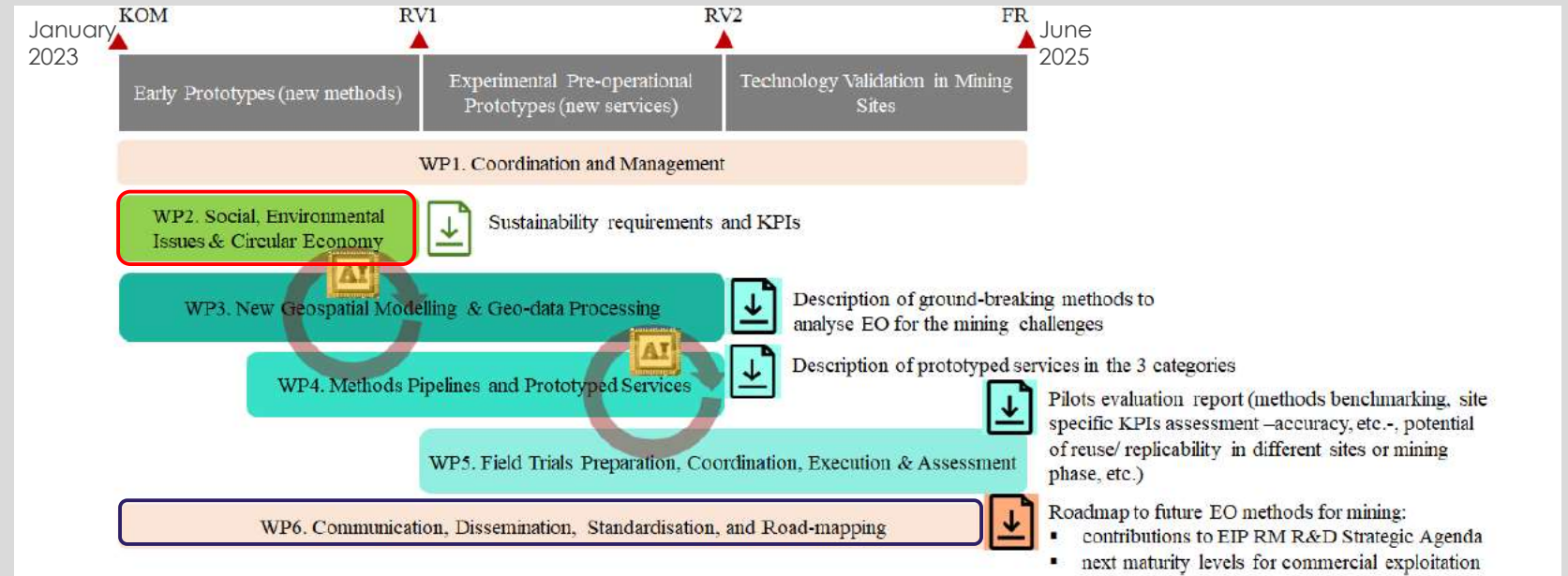
Systematic mineral exploration

Continuous extraction monitoring

Closure/post-closure activity

# General Information

- HORIZON Europe project
- 2.5 years
- 12 countries – 11 EU + Norway
- 19 partners (50% industry – 50% academia)
- 6 pilot sites





# Consortium overview



AURUM  
EU + Norway  
mining sites for pilots



mining consultant companies

Exploration - Co (land)  
Exploration - placers (coastal/shallow-waters)



- ✓ Exploration : Ria de Vigo, Aramo mine
- ✓ Extraction site : Gummern mine
- ✓ Closure/Post-Closure sites: Outokumpu, Aijala, Lausitz mines



# GENERAL FRAMEWORK – ADDRESSING SLO IN S34I



# Objectives concerning SLO

- To shape a **framework** where **EO** facilitates the **social acceptance**
- To prove the value of **EO** in the **transparency, social responsibility** and the **communication** of stakeholders
- To map the **perception** of **stakeholders** for **mining** and **EO tools**
- To enhance the **knowledge for shallow waters exploration, mining, land-use co-existence** and **impacts** together with surveying techniques
- To compile the users' **technical requirements** on systematic mineral **exploration** and continuous **mining monitoring** along the entire mining life-cycle according to each pilot site and mining phase

*Conclusions on aspects that apply to mines along their life-cycle for greater **responsible mining** at EU deposits. This will embrace **circularity, sustainability of mining value chains** and **RM flows** and will provide **guidelines** and **recommendations** on EO-based information to support **public awareness** processes, including **coastal areas**.*

# Status – actions planned

- ✓ State of the art (SLO & EO): aspects addressed to achieve SLO
- ✓ Use of EO by different entities (industry, associations, authority) in the extractive industry: what they want to achieve, how they implement it
- ✓ Surveying guidelines & questionnaire basis - method followed according to each case
  
- ❑ Mining stakeholder approach – survey (interviews, questionnaires, focus groups) & survey result analysis
  
- ❑ Correlation of SLO achievement with circularity, sustainability and EO use
  
- ❑ Technical requirements listing for application of the above



# Challenges

- Different mining phases: different approaches
- Stakeholder collection challenging (unclear status, poor response rate etc)
- Shallow waters: new concept, lack of literature & experience

# Gaining social acceptance (SLO) with EO tools

## Explorati

- Onshore:
  - Non-invasive Co and pred
- Offshore:
  - Geological st exploration te
  - Seabed env land cover c



## closure

ing & AMD (Acid ion

for

enda on EO for mining

better policy

the mining industry

# STAKEHOLDER & DISSEMINATION ACTIONS

- Focus groups and interviews in some pilot sites (TBD)
- Dissemination workshops: stakeholder engagement, infodays, clustering events



# DISCUSSION

- Questions
- Feedback
- Suggestions







Maria Mavroudi



[maria.mavroudi@unileoben.ac.at](mailto:maria.mavroudi@unileoben.ac.at)

Thank you  
for your  
attention!