



**EMJM-PROMISE
ERASMUS MUNDUS JOINT MASTER IN
'SUSTAINABLE MINERAL AND METAL
PROCESSING ENGINEERING'
2022-2027**

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First Intake 2022

ERASMUS+

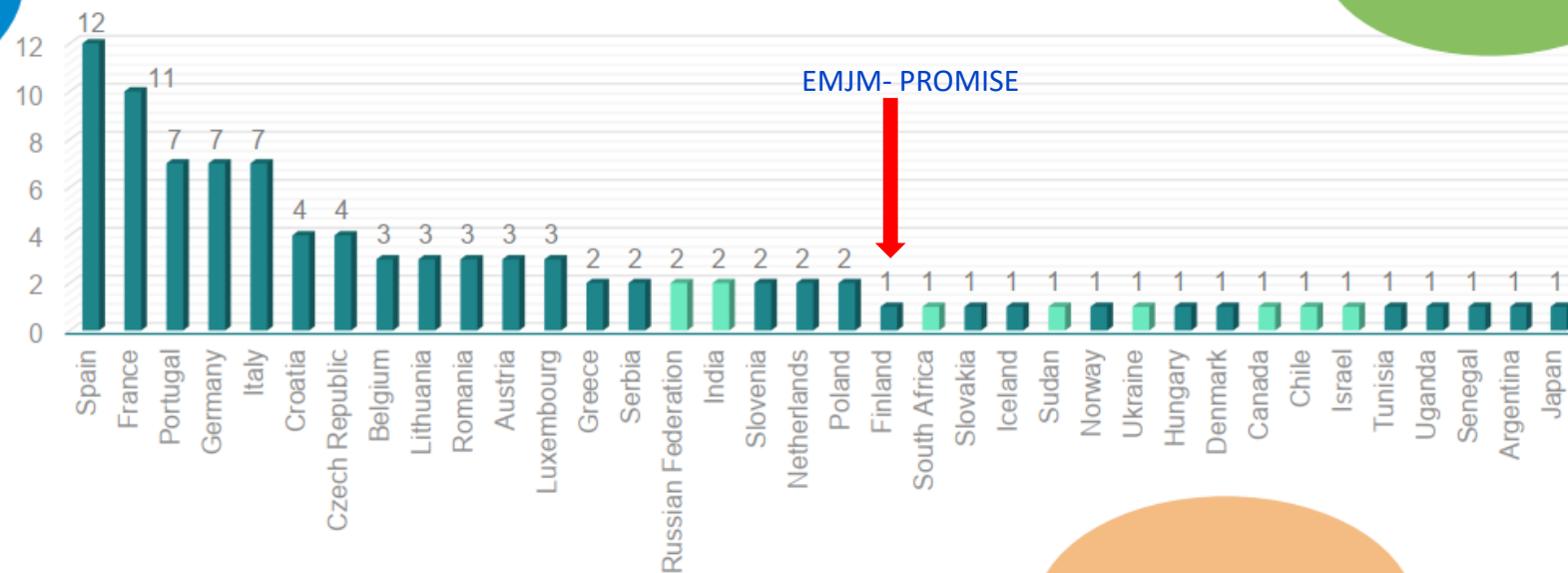
ERASMUS MUNDUS JOINT MASTERS « EMJM » 2021

2021 EMJMs selected Facts & Figures

27 EMJM
proposed for
funding

Number of full partners per country

97 full
partners



36
COUNTRIES

+ 357 associated partners from 68 countries of which around 70 % are partner countries

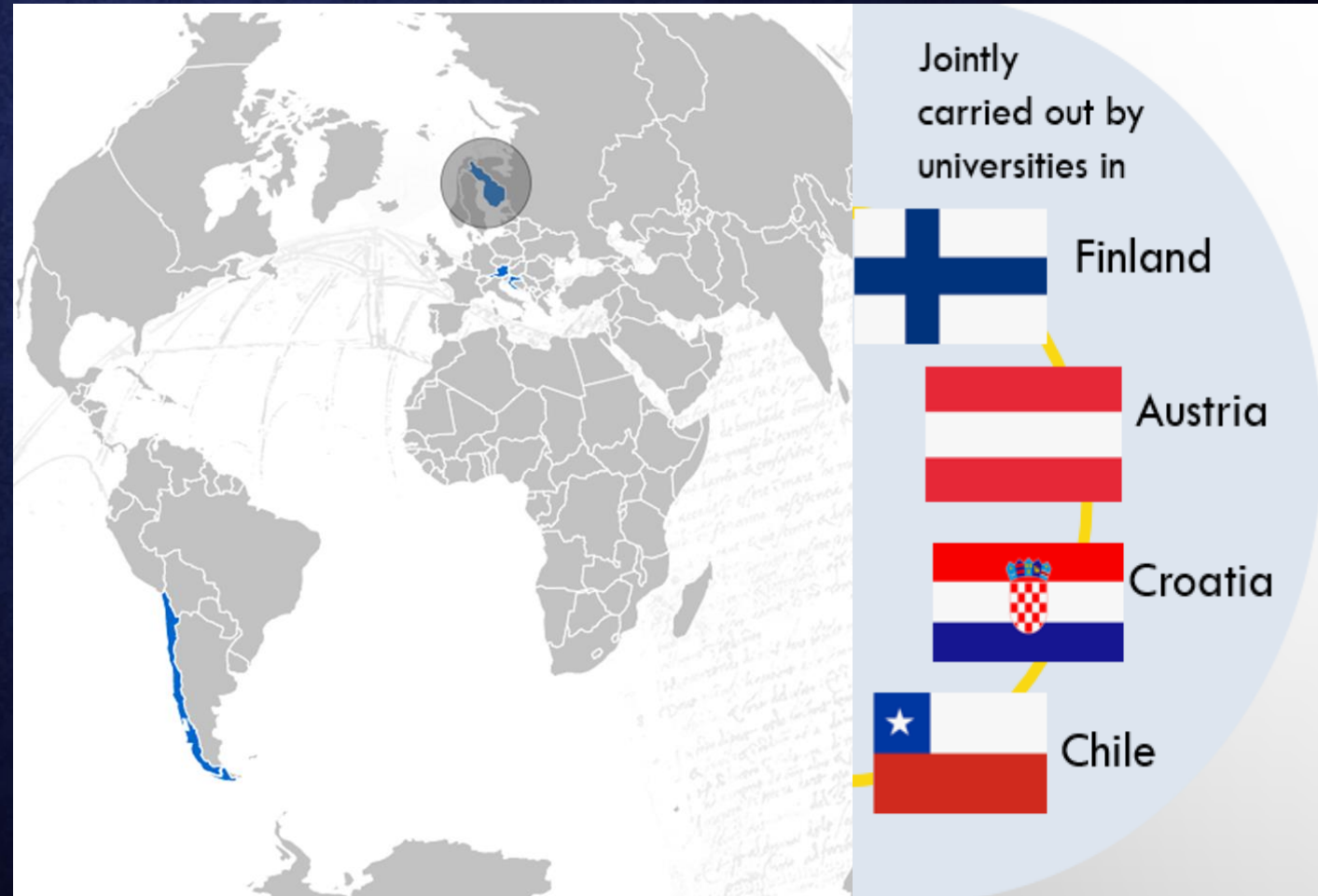
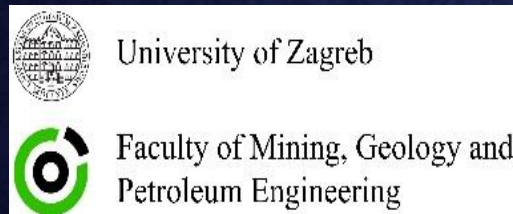
Ex.US, Chile, China, Russia, South Africa,..)



EMJM-PROMISE

ERASMUS MUNDUS JOINT MASTER IN 'SUSTAINABLE MINERAL AND METAL PROCESSING ENGINEERING'

Application online www.master-promise.eu 1st Nov until 31st Dec 2022 (2nd intake)





INSIGHTS TO THE APPLICATION PROCESS FROM THE POINT OF VIEW OF THE APPLICANT

**Hint 1: Look for a good and new topic and
Setup your main objective**

- Meet the academic, industry and society needs

ACRONYM: EMJM 'PROMISE'

PRO=PROCESSING, MI=MINERALS AND METALS, S=SUSTAINABLE AND E=ENGINEERING

- Use new processes for extraction and separation of minerals and metals for green technology (triggered by key economic, incremental and societal trends)
- Efficient use of raw material, water and energy, use of recycled water and metal recycling.
- OMS (UOulu) is the only one that give the Diploma MSc in Mineral Resources and Sustainable Mining with specialisation in Mineral Processing

The proposed programme reflects the demands of future mineral processing engineers.

- Students will have broad competence with specialisation in the main areas of mineral beneficiation emphasised in better mineral recovery from primary and secondary sources, metal recycling (urban mining), by-product recovery meeting the demands of today's industry and environmental protection as an integral part of the circular economy.

EMJM-PROMISE OBJECTIVE

- The aim of EMJM-PROMISE is to produce world-class mineral processing engineer postgraduates and future leaders to support the sector into a sustainable future.

The specific objectives

- a) Improve education for future mineral processing engineers with capabilities for the genuine use of innovative and sustainable techniques in the recovery of valuable minerals.
- b) Ensure capacitated professionals have the skillset to strive towards a resource-efficient management and use of raw material, support innovation, use of best available technologies, aligned with the European Union priority strategy 'A European Green Deal'.
- c) Develop new synergies and cooperative efforts among relevant stakeholders in the areas of sustainable mineral processing development, complex mineralogy, low-grade ores, metallic and non-metallic minerals and urban mining. optimisation of mineral processes.
- d) Integrate more sustainability in engineering education, ensuring a lower CO₂ footprint, higher recovery rates (less waste), lower energy and water demand.
- e) Impact in intercultural learning outcomes and attract the best students.

Hint 2. Find your main partners and associate partners as early as possible

- Meeting the expertise, background and from related area to fulfil the minimum number of Diplomas
- APs ensure the success of the program including demonstration lectures, traineeships, thesis work

DIPLOMAS FROM MAIN PARTNERS

All students will get:

- MSc in Mineral Resources and Sustainable Mining with specialisation in Mineral Processing, UOulu
- MSc in Raw Materials Engineering (Masterstudium Rohstoffverarbeitung), MUL
- Own MSc EMJM-PROMISE (drafted following the Lisbon Recognition Convention)

By Mobility

- MSc in Chemical Engineering (Magister en Ciencias de la Ingeniería Química), USM
- Certificate of achievement, UNIZG





ASSOCIATE PARTNERS

INDUSTRY PARTNERS

1. METSOOUTOTEC (FINLAND) OY, Finland
2. TERRAFAME GROUP OY, Finland
3. Agnico Eagle Oy, Finland
4. Geopyora, Finland
5. Dragon Mining Oy, Finland
6. Monolithos, Grece
7. BioSO4 Oy, Finland
8. Boliden, Sweden
9. Copperstone Vicaria AB, Sweden
10. Timegate Instruments Oy, Finland
11. Spectra-Media, Croatia
12. Depos d.o.o., Croatia
13. Holcim (Hrvatska) d.o.o., Croatia
14. FLSmidth GmbH, Austria
15. Karntner Montnindustrie GmH, Austria
16. PMT-Jetmil GmbH, Austria
17. CEMTEC Cement and Mining Technology GmbH, Austria
18. Zementwerk LEUBE GmbH, Austria
19. IFE Aufbereitungstechnik GmbH, Austria
20. Bernegger GmbH, Austria

21. Omya GmbH, Austria
22. Binder & Co AG, Austria
23. RHI Magnesita GmbH, Austria
24. Corporacion Chilena de Investigacion del Agua, CETAQUA, Chile
25. Nacional de Pilotaje de Tecnologías para la Minería, Chile
26. Santo Domingo, Chile
27. Saulo SPA, Chile, No/PIC
28. Seven Project SPA, Chile
29. Maelgwyn

RESEARCH CENTER

30. Centro de Tecnologia Mineral, Brazil
31. Geologian tutkimuskeskus GTK, Finland
32. Helmholtz Institute Freiberg for Resource Technology

UNIVERSITIES

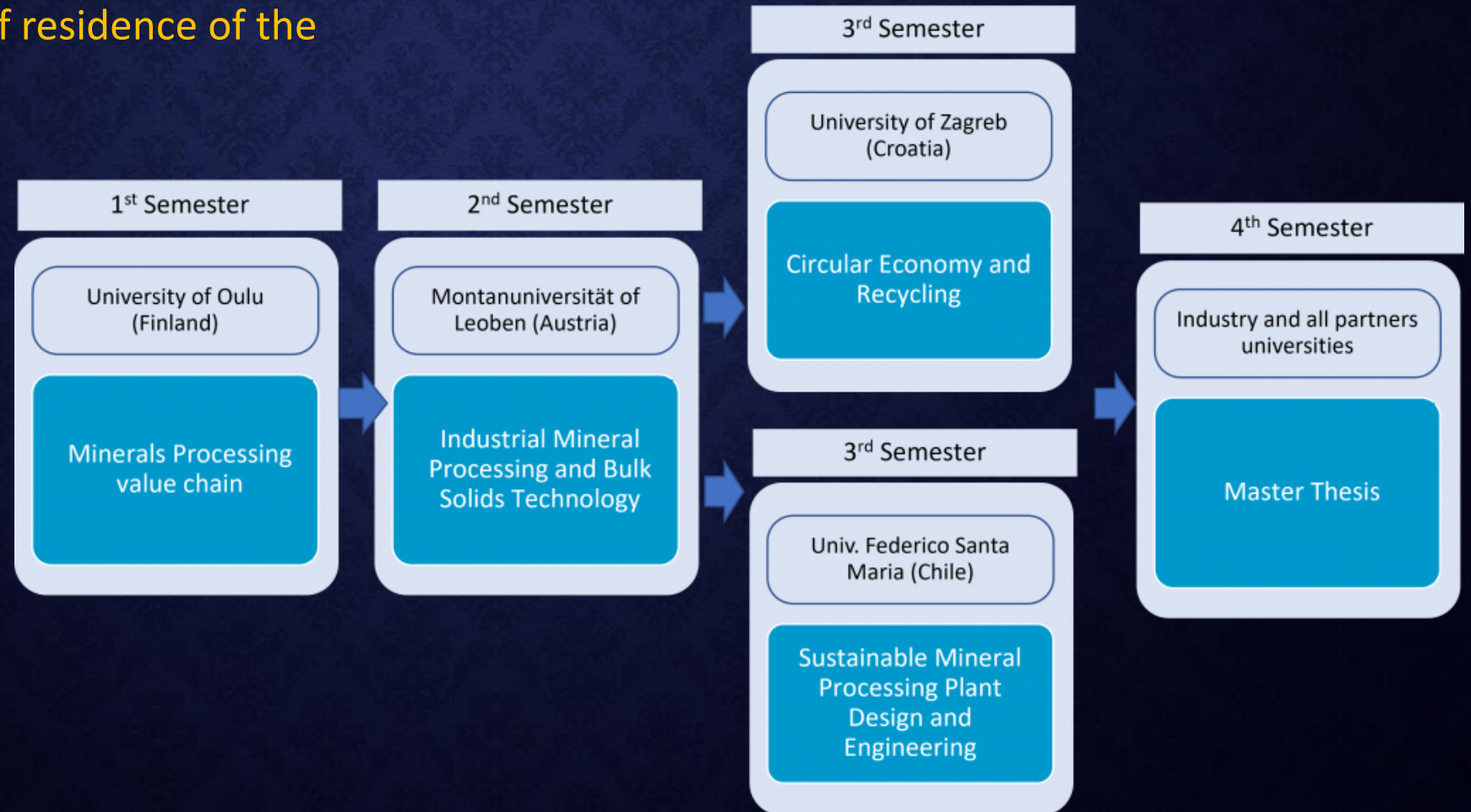
33. Dpto. Ingenieria Geologica y Minera/Universidad Politecnica de Madrid/ E.T.S.I. Minas y Energia, Spain
34. Copper Belt University, Zambia
35. University Catolica del Norte, Chile

Hint 3: Plan the mobility that fulfil the criteria of the call

- Mobility ensure internationalization
- Compulsory physical mobility for all enrolled students
- Compulsory mobility periods cannot be replaced by virtual mobility
- All study periods must take place in full partner HEIs, or under their direct supervision.

EMJM-PROMISE MOBILITY

Students will move to at least three HEIs.
3 study periods in 3 countries, each min. 30 ECTS;
different from the country of residence of the
student at enrolment stage.



Hint 4. Draft all required documents in the call (Erasmus+ guide)

- Jointly designed and fully integrated curriculum
- Joint student admission requirements
- A draft joint partnership agreement
- Joint programme design and integrated
- A joint degree policy; least two should be programme countries
- A draft joint Student Agreement
- Commitment Letter of APs
- Others

First Intake 2022, EMJM-PROMISE



Thanks