Resource Recovery and Environmental Management (R2EM)
Chemical Engineering Department
Barcelona Research Center in Multiscale Science and Engineering
UPC Hydrogen Research Center (CER-H2)
EEBE, Barcelona TECH UPC

J.L. Cortina

09/02/2023
Raw Materials Strategy and Road-Map

Activity Domains
a) R&D
b) Technology transfer
c) Training and education
d) Dissemination
Cover the complete value chain: 1-9TRLs

1) H2020 (Sea Mining)
   SEA4VALUE
   SEARCULARMINE

2) EIT-RM KIC (UP-SCALING)
   RECOPPS
   REECOVERY

3) HE
   METALLICO
   EXBRINER(MSCA-ITN)

4) AEI-NATIONAL PROGRAMS
   WASTE4VALUE
   REEME
   REESOURCES (up-scaling)

5) ECOLOGICAL TRANSITION
   META4LIBS
   SUSTDESALT

4 M€ 2020-2026
1) Research and development domains
- Primary and Secondary Resources to provide metals of the ELVs technology
- End-of-life wastes: recycling of ELV batteries, magnets and s-PVs
- Promoting up-cycling recoveries avoiding complex separation and purification processes.

2) Research infrastructures
- Creación of a Circular Metal Lab (creation a singular infrastructure in the two main UPC campus (Manresa/Barcelona Est)

3) Higher Training and Education activities
- Summer Schools through the EITRM calls (KAVA 10)
- Erasmus Mundus (Master)

4) Dissemination activities
- Southern Spain RIS Innovation HUB (SSRIH)(EITRM) (submitted 01/23)