



umicore
materials for a better life

Closing the loop on Critical Raw Materials

Wouter Ghyoot, Umicore

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Umicore PUBLIC document

Who we are

We believe in the power of materials technology to create sustainable value for people and planet.

Our products and services accelerate the transformation to carbon free mobility, deliver the next-generation of advanced materials and drive the world towards a circular economy.

We are the ***circular materials technology*** company fulfilling our mission to create ***materials for a better life***



Our strongly rooted foundations



Industry leader in sustainability



Your global supplier, locally



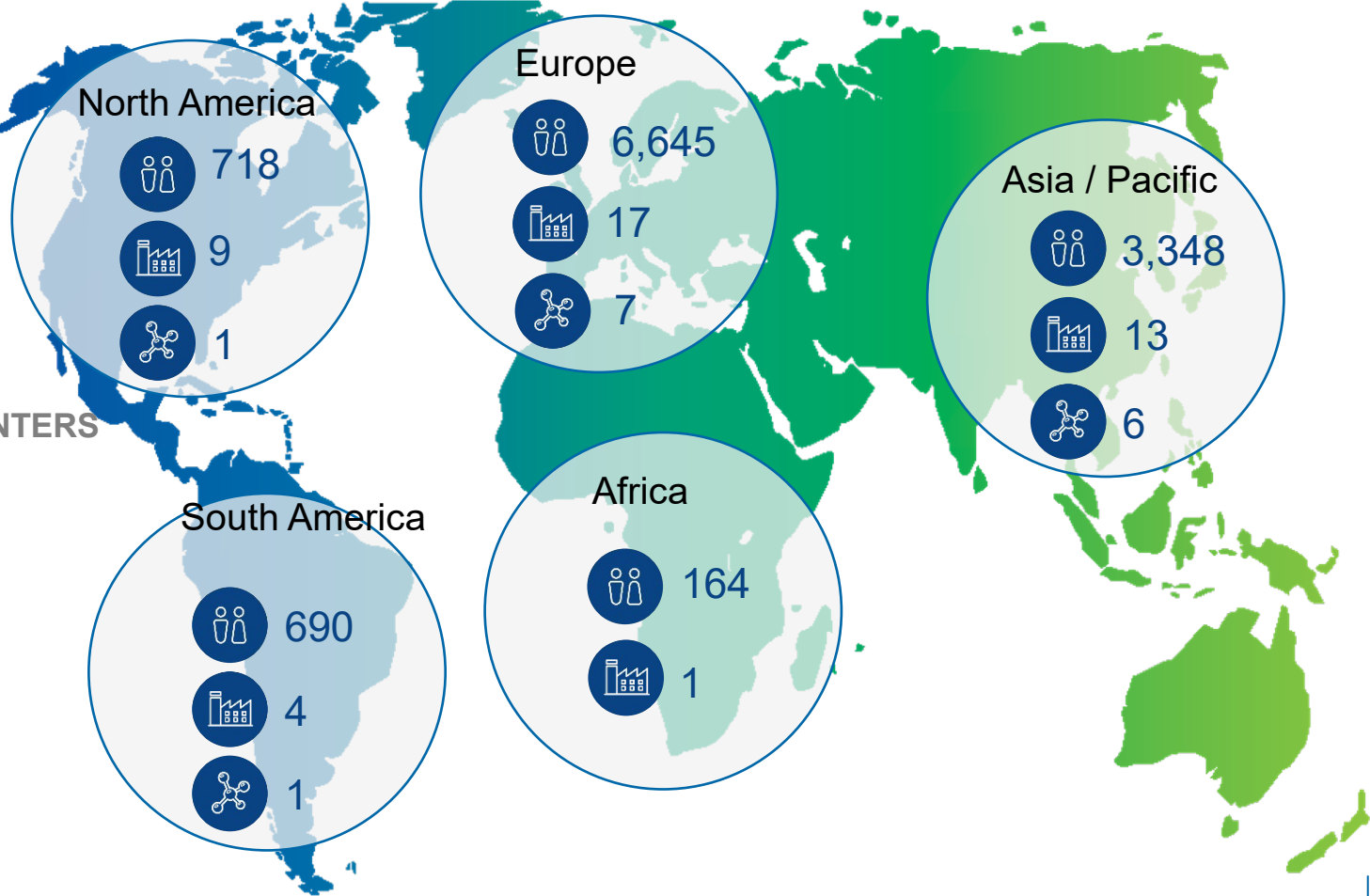
COLLEAGUES
11,565



PRODUCTION
SITES
44

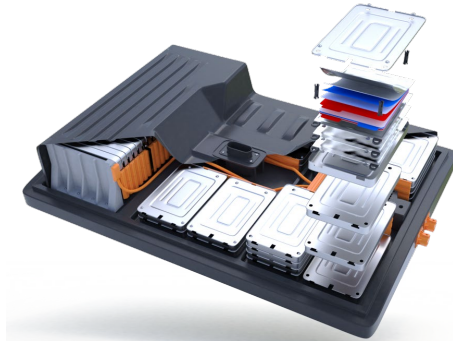
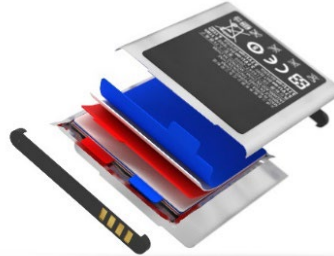


R&D |
TECHNICAL CENTERS
15



A pioneer in recycling of precious metals and batteries

Leaning on 125 years of complex waste streams recycling



125 years of recycling complex waste streams as solid base



Development of a unique & ecofriendly battery recycling process since 2004



Fully operational since 2011, recycling production wastes, portable, automotive and ESS batteries.



Technology upgrade 2022



Critical Raw Materials Act



The EU is aiming to ensure a secure and sustainable supply of critical raw materials for Europe's industry.

WHY?



Critical raw materials are needed for the **green and digital transitions** as well as for defence and space



To enhance our **long-term competitiveness**



To maintain our **open strategic autonomy** in a fast-changing and increasingly challenging geopolitical environment

SCALE

SPEED

SIMPLICITY

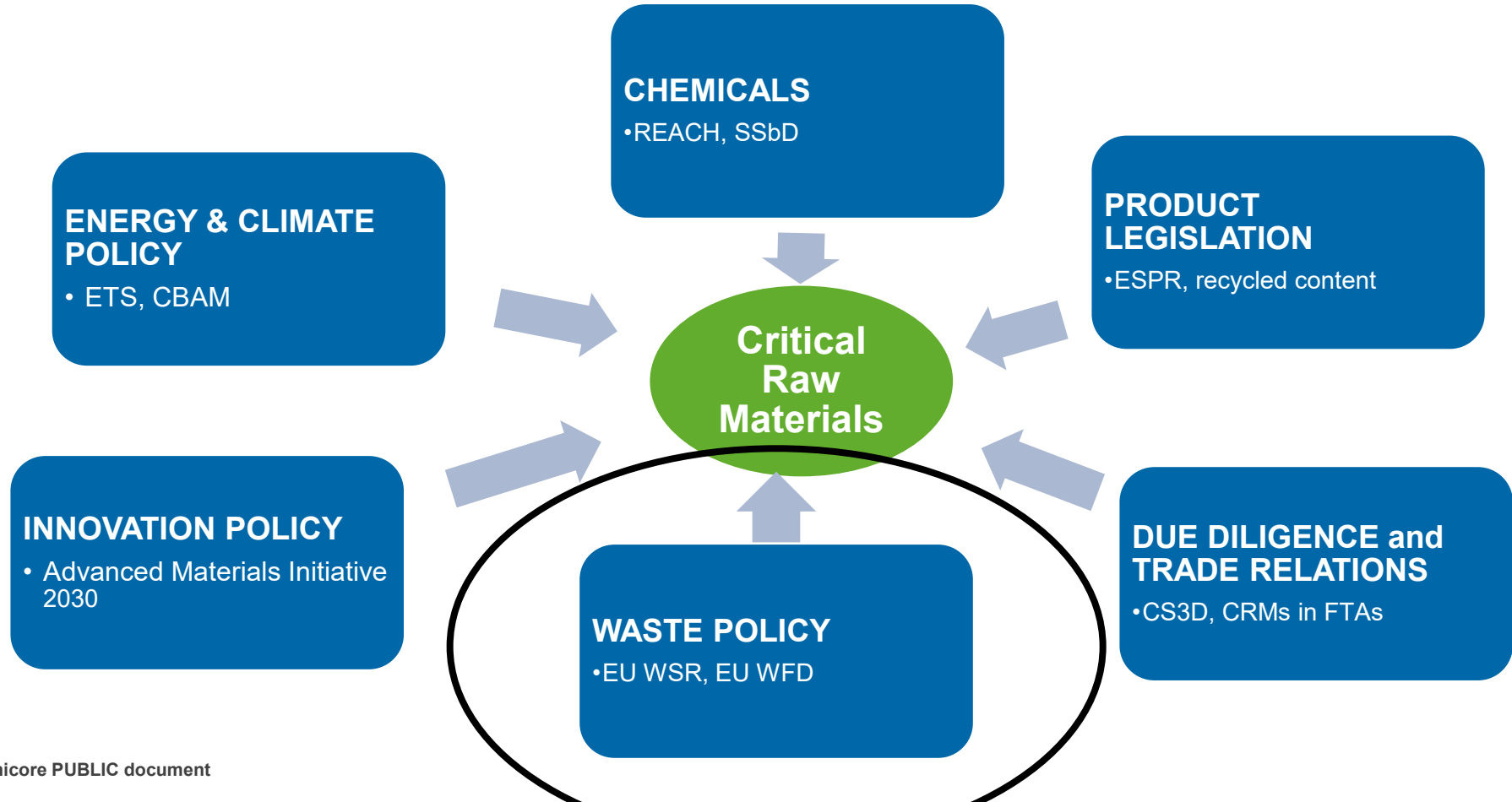
and

COHERENCE WITH OTHER POLICY FILES



Critical Raw Materials

Coherence with other legislative acts needed



Waste Shipment Regulation

The job is not yet done – key recommendations

Avoid
unnecessary
delays in transit

Do not create
extra barriers for
intra-EU
recycling

Rapid
implementation
of digital &
financial tools



Scaling up recycling & processing capacities

Some thoughts

- **EU recycling capacity must be able to produce 15% of EU's CRM consumption by 2030**
 - ***A more resolute stance on export of waste containing CRM*** is needed (eg waste batteries, e-waste and spend automotive catalysts)
- **Where to prioritize to strengthen circularity for CRM?**
 - ***Accelerating technological innovation.*** Technologies need to be scalable, flexible, sustainable from a CO2 perspective and biodiversity/land use
 - Expanding ***collecting and sorting infrastructure***
 - Providing ***targeted incentives.*** For battery: targeted recycled content which is good but not sufficient (make sure the product is recyclable)

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