

STRATEGIC MATERIALS FOR A LOW-CARBON FUTURE: FROM SCARCITY TO AVAILABILITY

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Breakout session 3a:

Scaling up recycling of complex products

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## Metal recycling plant for complex material streams



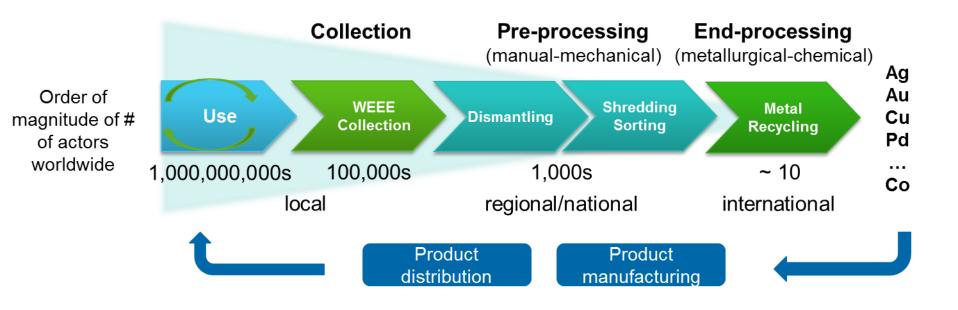




## The challenge - no recycling without collection







## Precious Metals in a Circular Economy?





Umicore process yields: >> 95%



Real recycling rates\*

Recycling driver:

Jewellery, ingots, coins >> 90%

value

Chemical process catalysts > 90%

B<sub>2</sub>B

Automotive catalysts 60-70%

B2C, value

Electronic products << 50%

B2C, legislation

## Recycling of Li-Ion Batteries





