



From waste to resource – *the EU Raw Materials Initiative*

Conference 'Taking Waste Management into the Future'
3 December 2014, Brussels

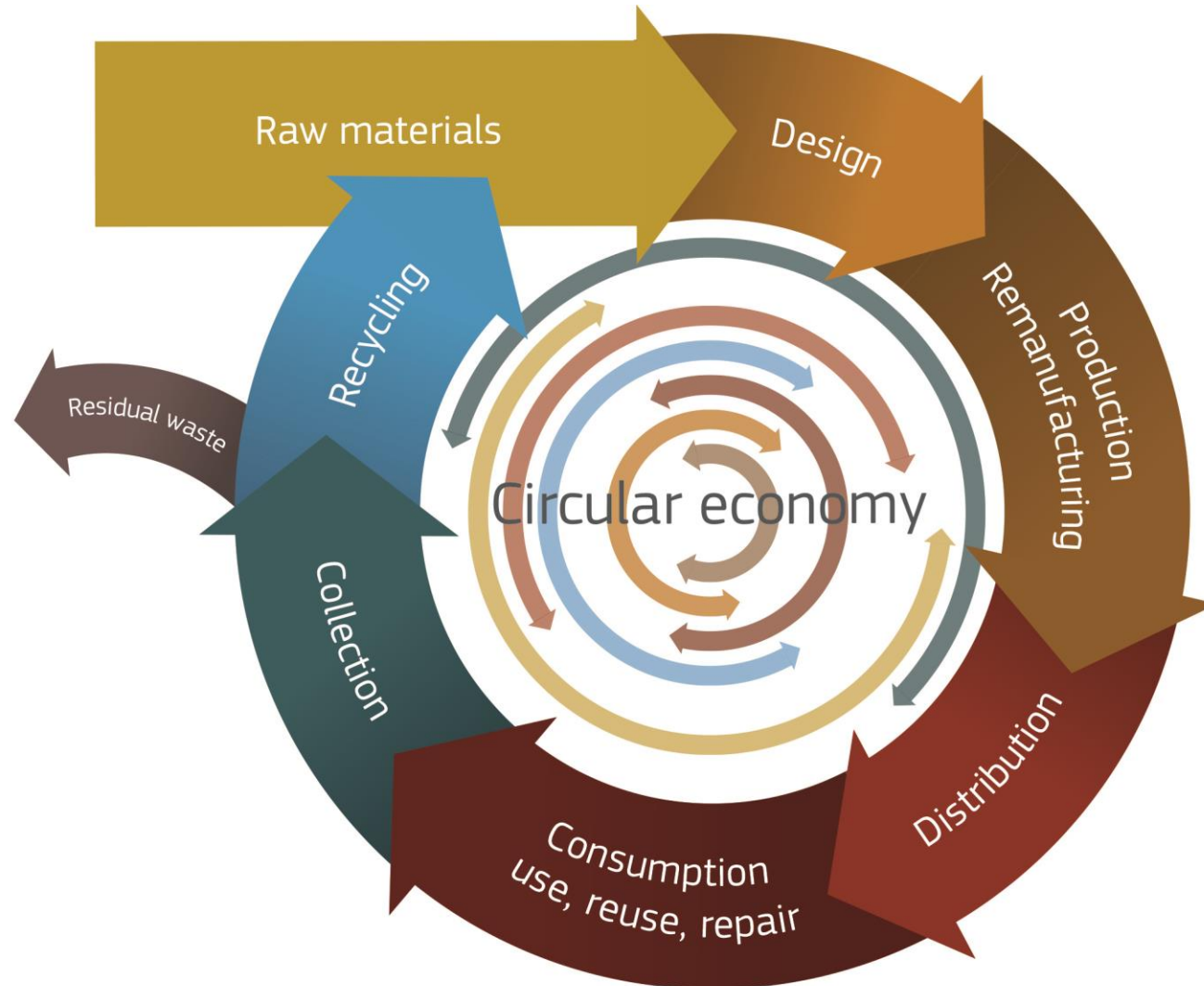
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Circular economy

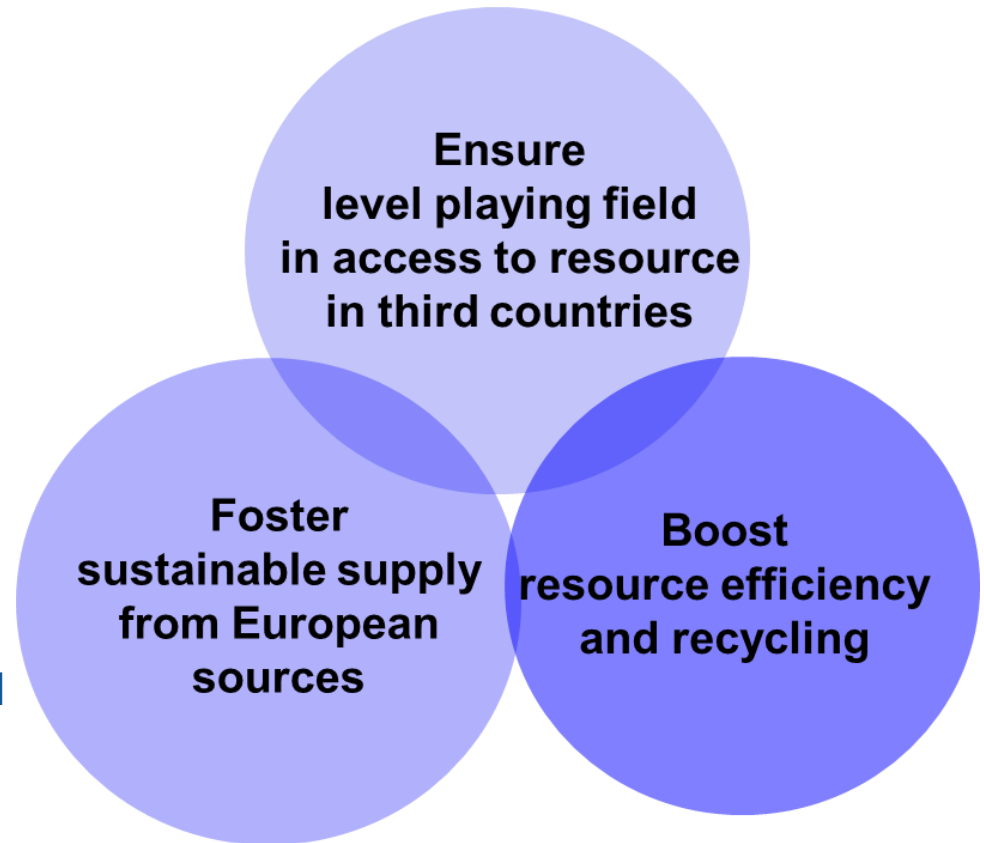


Background, aim and structure



EU 'Raw Materials Initiative'

- Aim: **securing sustainable supply of raw materials**
- Launched in 2008, consolidated in 2011
- Non-energy, non-agricultural raw materials
- Integrated strategy (3 pillars) connecting EU external and internal policies
- Complemented by the European Innovation Partnership (EIP) on Raw Materials



State of play - overview



Annual report on the implementation of the Raw Materials Initiative – 26 May 2014

Fair and sustainable supply of raw materials from global markets (1st Pillar)

- EU trade strategy for raw materials
- Raw materials diplomacy
- Assistance to developing countries

Fostering sustainable supply within the EU (2nd Pillar)

- Exchange of good practice between EU Member States
- Enhancing EU knowledge base
- Promoting research and skills

Boosting resource efficiency and promoting recycling (3rd Pillar)

- Better implementation and smarter EU product and waste legislation promoting resource-efficiency & recycling
- Strengthen the enforcement of the EU Waste Shipment Regulation



Promoting resource efficiency and recycling

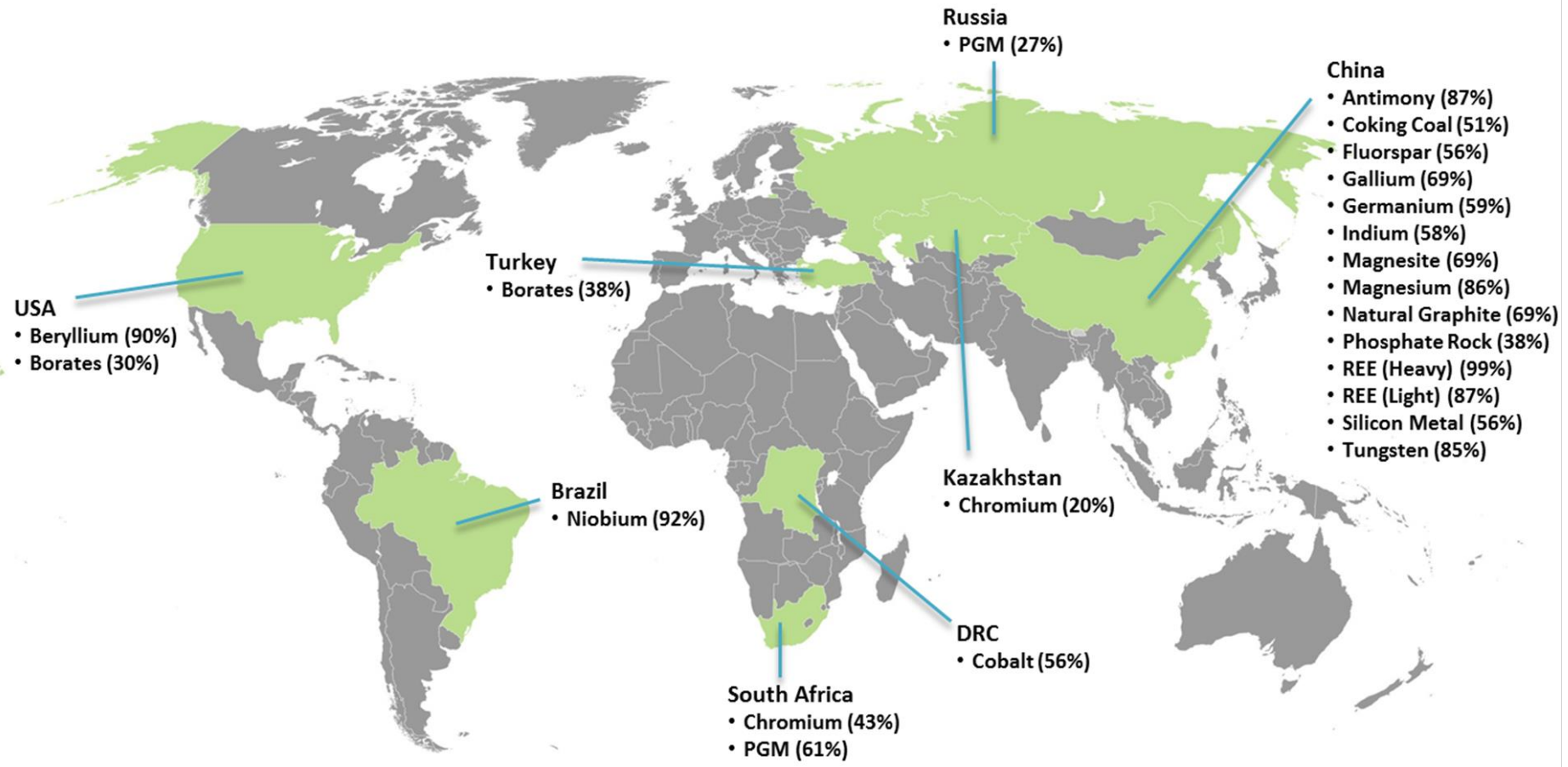
Better implementation and smarter EU legislation on products and waste

- Review of waste management targets
- 'Fitness check' of waste stream directives
- Review of Eco-design Directive for energy-related products

Strengthen the enforcement of the Waste Shipment Regulation

- Strengthening inspections through risk-based planning
- Feasibility study of global certification scheme for recycling facilities

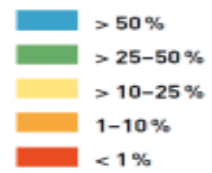
Production of critical raw materials



End-of-Life Recycling Rates



Figure 9:
Various definitions of recycling rates and corresponding data for elements in the periodic table (UNEP, 2011b).

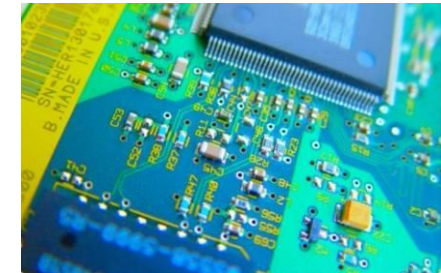


1 H																	2 He
3 Li	4 Be											5 B	6 C	7 N	8 O	9 F	10 Ne
11 Na	12 Mg											13 Al	14 Si	15 P	16 S	17 Cl	18 Ar
19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr
37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe
55 Cs	56 Ba	*	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn
87 Fr	88 Ra	**	104 Rf	105 Db	106 Sg	107 Sg	108 Hs	109 Mt	110 Ds	111 Rg	112 Uub	113 Uut	114 Uug	115 Uup	116 Uuh	117 Uus	118 Uuo
* Lanthanides			57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu
** Actinides			89 Ac	90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr



European Innovation Partnership on Raw Materials

- Aim: to **promote innovation along the entire value chain** of raw materials
- State of play:
 - Strategic Implementation Plan adopted
 - 80 Raw Materials Commitments as a result of the first call for commitments in 2013
 - Linking with 'Horizon 2020' calls for proposals
 - Monitoring and evaluation under preparation



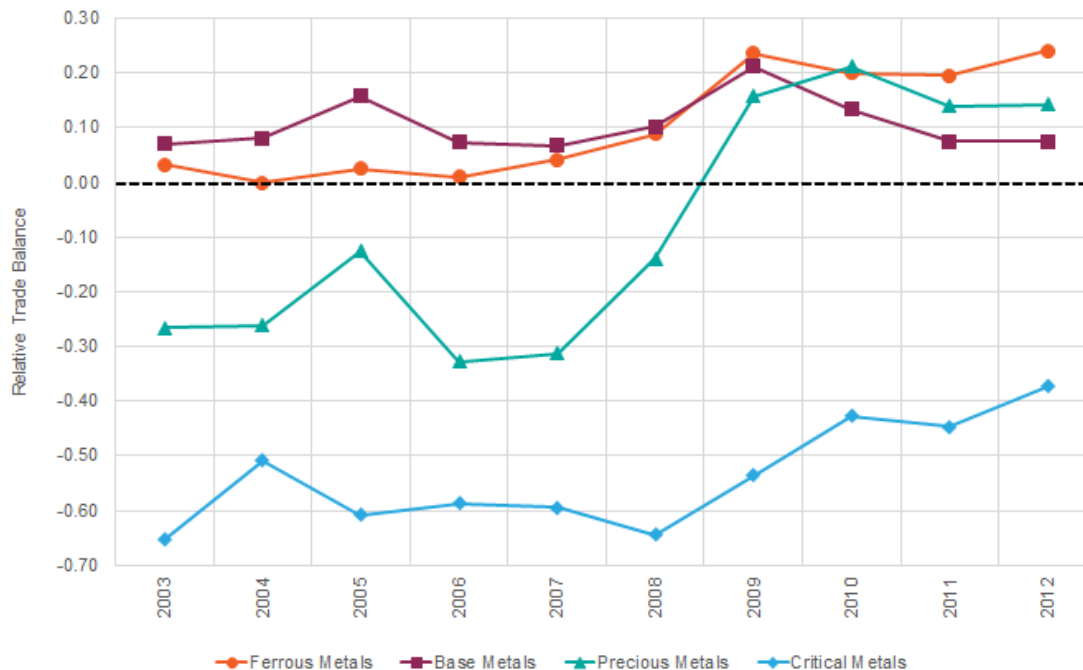


EIP actions on waste management framework conditions

- 1. Eco-design Directive**
- 2. Product life extension strategies and circular business models**
- 3. Critical raw materials in product and waste flows**
- 4. Qualitative targets**
- 5. Landfill and incineration bans**
- 6. Waste collection systems and Extended Producer Responsibility (EPR) schemes**
- 7. Innovative approaches for reuse and recovery of end-of-life consumer products**
- 8. Waste shipment inspections**
- 9. Certification for end-processing/recycling facilities**
- 10. European standards for treatment of WEEE**
- 11. End-of-waste criteria**

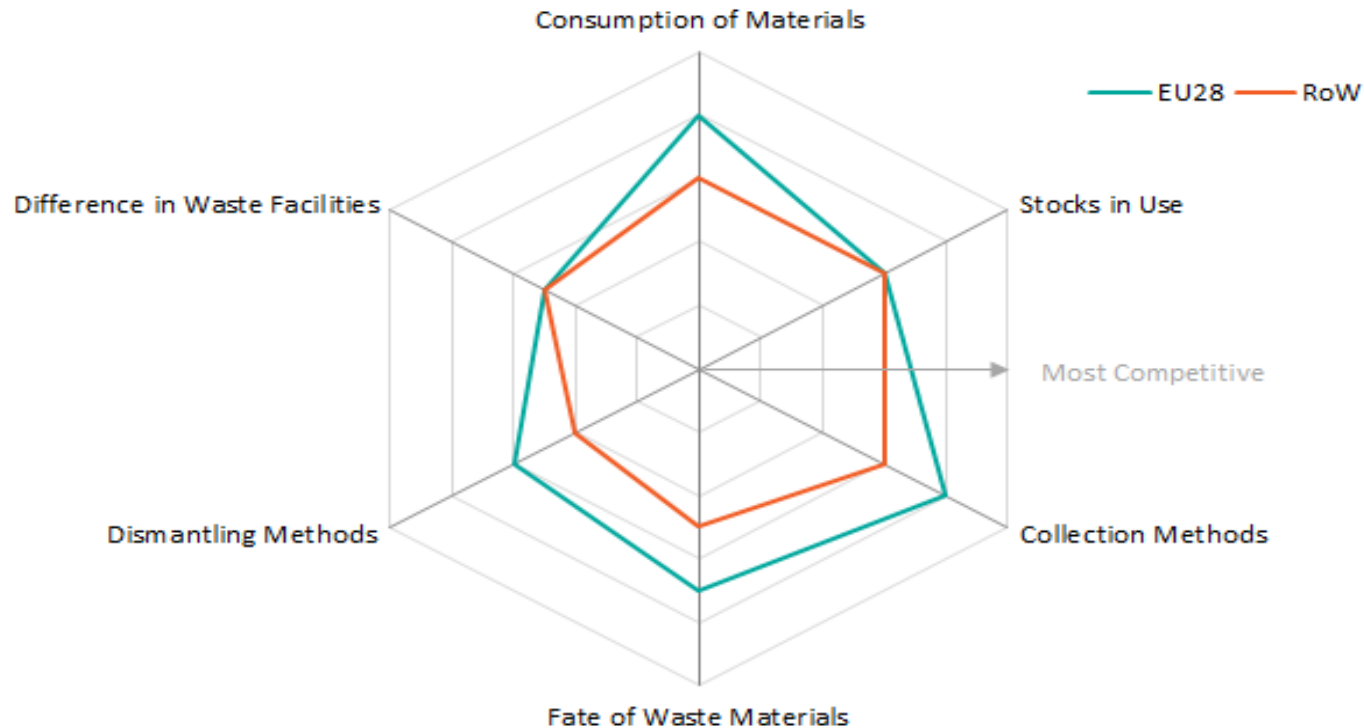
Competitiveness of EU recycling industries (and extractive industries) – preliminary findings:

- Serious lack of data useful to assess competitiveness
- The EU exports more metal recyclate than it imports



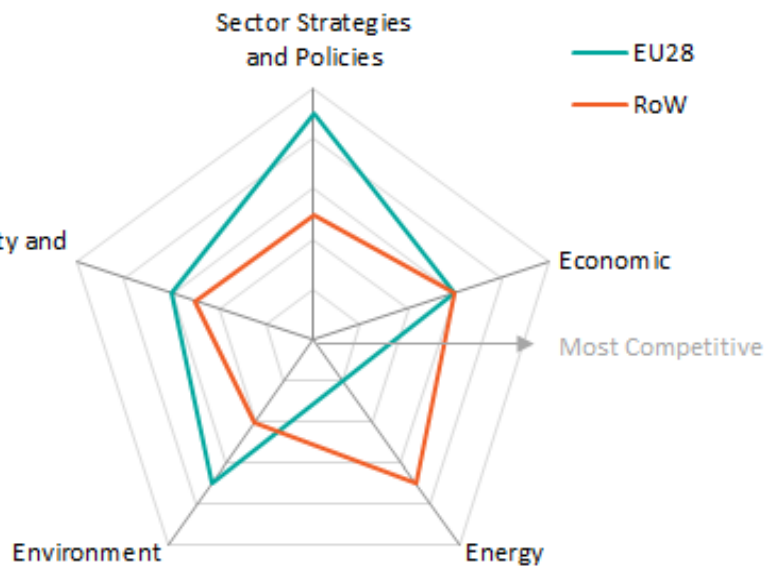
Competitiveness of EU recycling industries (and (extractive industries) – preliminary findings:

Raw material supply



Competitiveness of EU recycling industries (and extractive industries) – preliminary findings:

Policy and legislation



- Other countries use **tax incentives** more than EU Member States
- The **legislative framework** of the EU strongly supports the for recycling industries
- **Illegal shipments** of waste damage the competitiveness of the EU recycling industries
- **End-of-waste criteria:** material can move more freely across borders