Recycling industries

An essential component of circular economy

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Cereal production

Lithium production

World energy consumption

World fertilizer consumption

World plastic production

Global change vs. Synthetic chemical change
Our cities are congested, waste is piling up!
Waste threatens our waters!
How are we using earth’s resources?
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How are we using earth’s resources?
Waste is a resource!

Circular Economy

- Design clean, green products
- Resource Efficient Production, Remanufacturing
- Distribute effectively
- Use efficiently, Reuse, Repair
- Set up collection systems
- Recycle, Recover
- Raw materials
- Residual waste

Raw materials
Recycling value chain

Waste → Collection → Sorting → Recycling → Secondary raw materials

Value and jobs created
The way forward

• Design **waste out** of products
• **Produce resource efficiently**, with **clean technologies and renewable energy** and **remanufacture**
• Distribute **effectively**
• Extend first life of products by **repairs and reuse** and **product-as-service business models**
• Remove barriers to “**waste as a resource**” by developing **recycling industries**

THANK YOU