



European
Commission

Waste2Energy

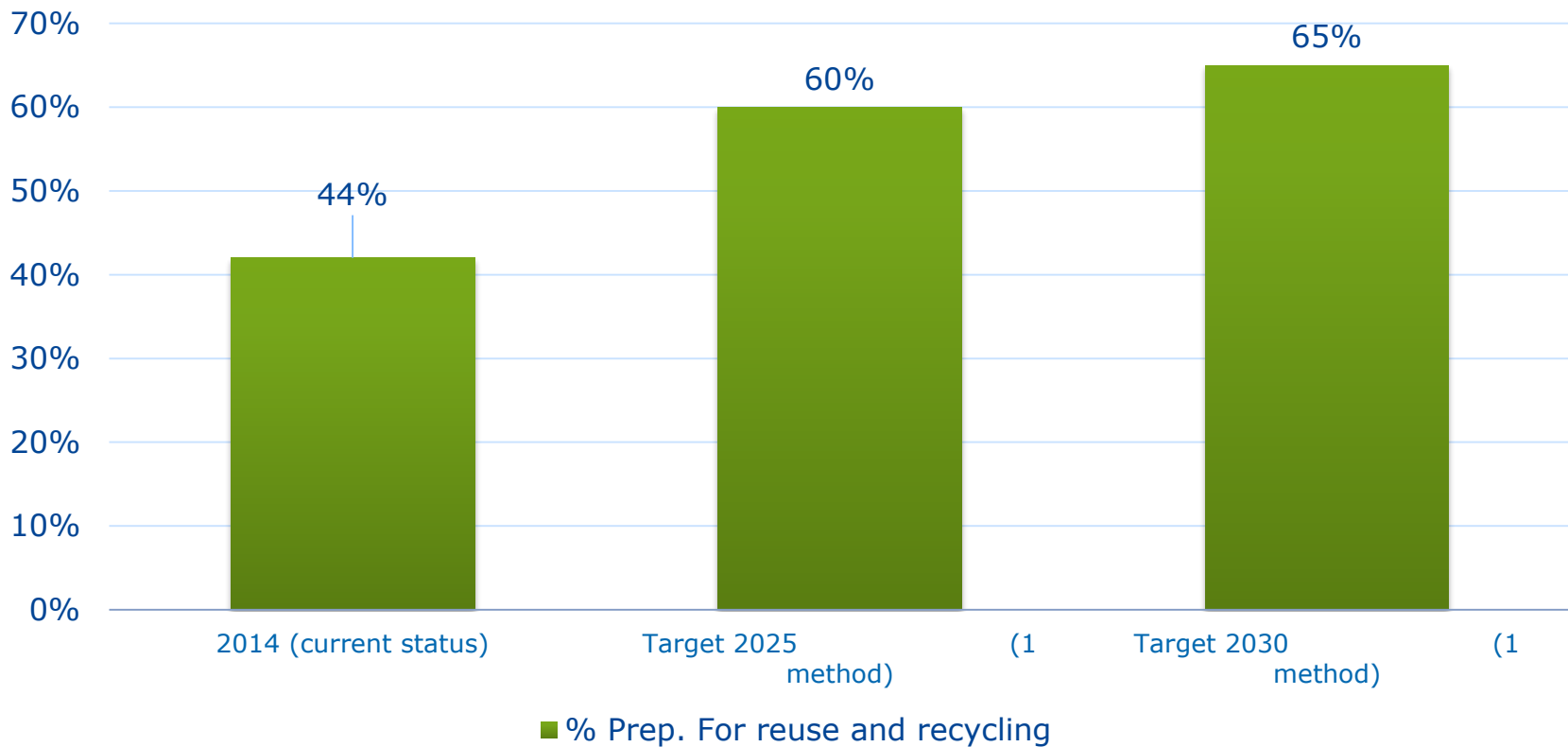
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Food for thought (...to be taken with a pinch of salt!)

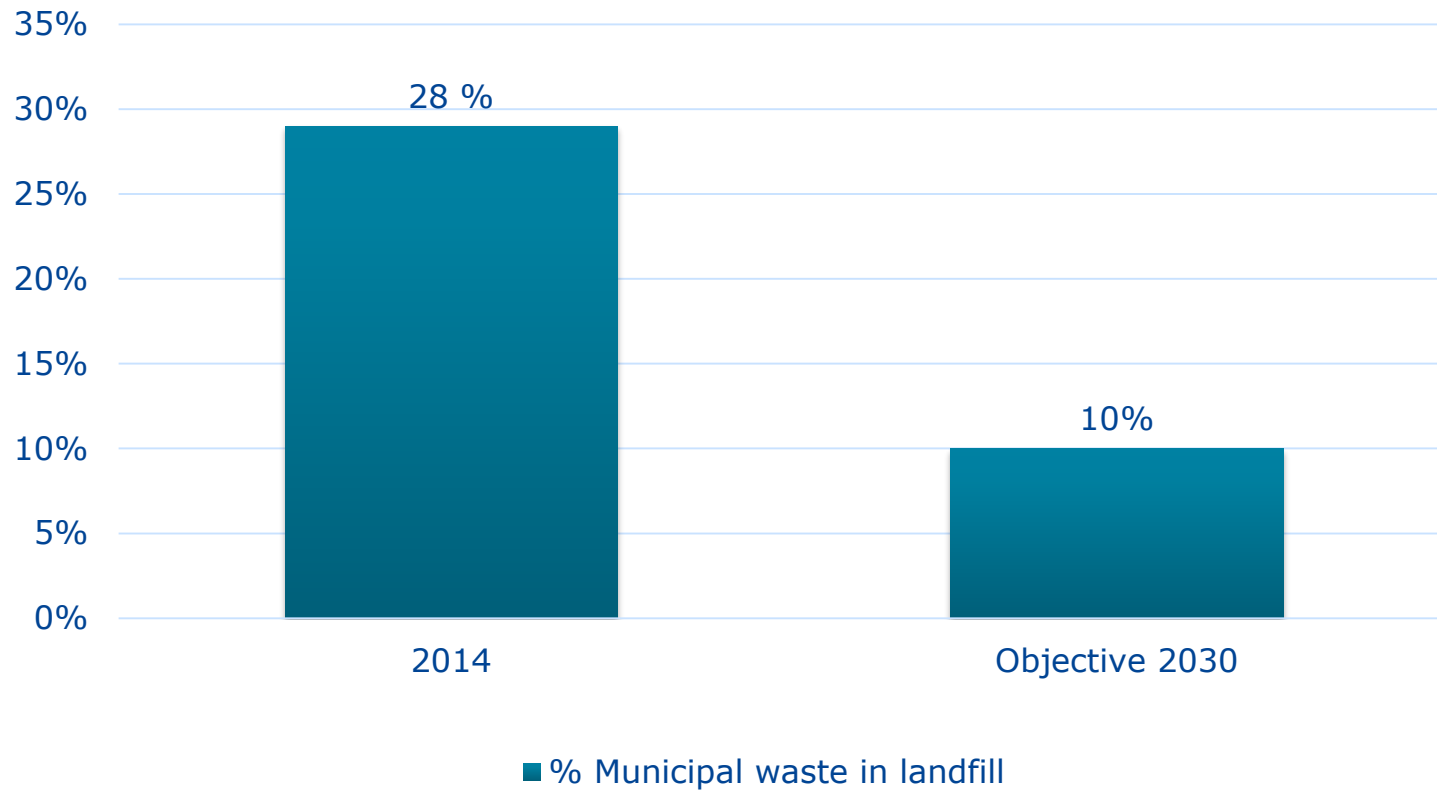
- **600** bn € savings through Circular € + full lex implementation
- **600.000** jobs available
- **40-20-15** % material-labour-energy costs in manufacturing industry
- **200.000** new daily arrivals on this planet
- **80/20₍₇₅₎** % most unfair and unsustainable ratio in the world
- **15** t resources used pc/year (5 t waste - 50% disposal)
- **500** kg municipal waste pc/year
- **200** kg of food waste pc/year
- **40** % of a ton of carbon is turned into electricity
- **15** % of a liter of petrol is turned into driving energy
- **13** MS still bury more than 50% of their municipal waste
- **1** % of the 17 rare earth are recycled in the EU
who cares when we are thinking of asteroid mining?! (planetaryresources.com)



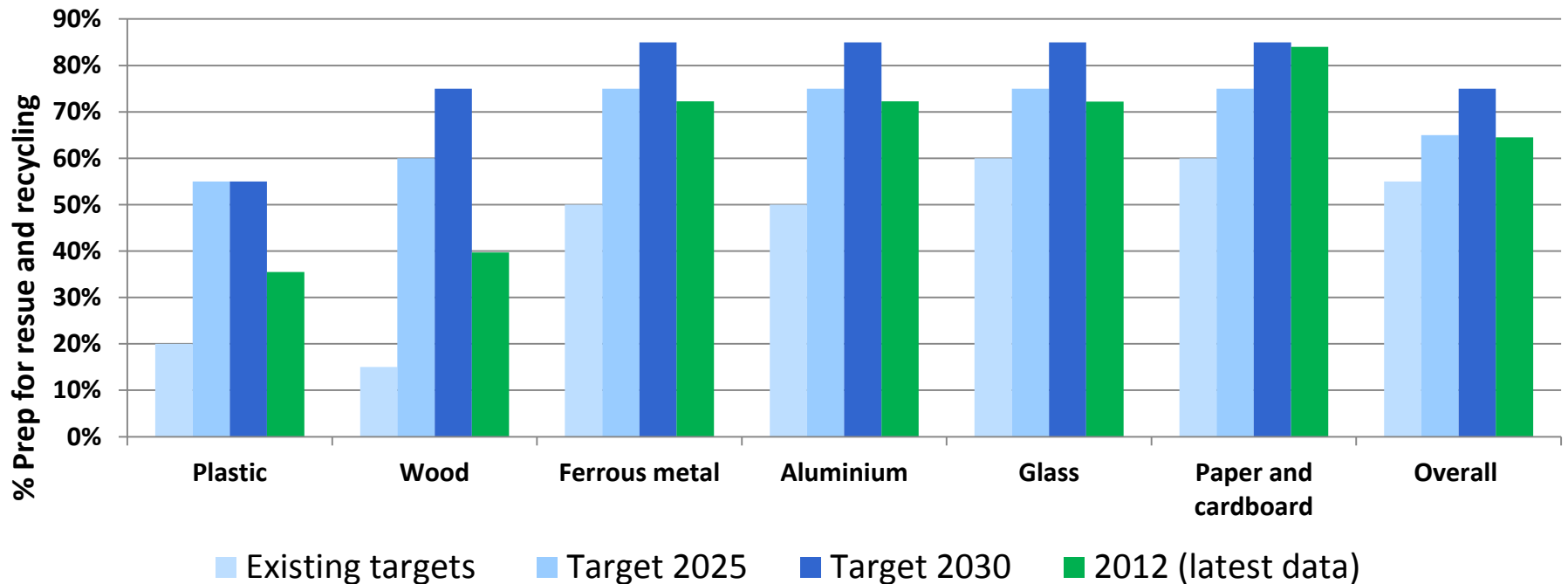
New targets: municipal waste recycling



New targets: municipal waste landfilling



New targets: recycling packaging waste





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Waste2Energy

"Extracting more energy from less
waste"

Energy Union Package

- **Main goal:** "To give EU consumers secure, sustainable, competitive and affordable energy".
- **Some facts:**
- EU imports 53% of its energy with a cost of € 1 billion a day,
- Six MS depend on a single gas external supplier,
- 1% in energy savings cuts gas imports by 2.6%,
- 75% of our housing stock is energy inefficient,
- 94% of our transport relies on 90% imported oil,
- **It mandates** the Commission to adopt a COM on Waste to Energy in 2016

Challenges ahead

- Curbing landfilling
- Securing energy and materials from WtE processes
- Avoiding waste and recycling what is environmentally and economically appropriate
- To end the practice of incinerating unsorted waste
- Addressing social acceptance of WtE processes
- Pushing the boundaries of energy efficiency in WtE plants and optimising the use of waste-derived fuels
- Effective use of the WtE capacities in the EU

The 2016 Communication on W2E

1 aim, 5 strands

- **Aim:** "Extract more energy from less waste"
- **Strands:**
 - Seeking synergies among EU Strategies and Policies
 - Positioning WtE in the waste hierarchy
 - Optimisation the energy efficiency of WtE process and tapping on waste-derived fuels
 - Harnessing existing WtE capacities in the EU
 - Financial instruments applied to WtE

ONLY ONE EARTH



<http://ec.europa.eu/environment/>