Karl Buttiens, General Manager Environment
& Global CO_2 ArcelorMittal

Green Solutions for Central Europe

APEAL

Warsaw, 8th October 2015

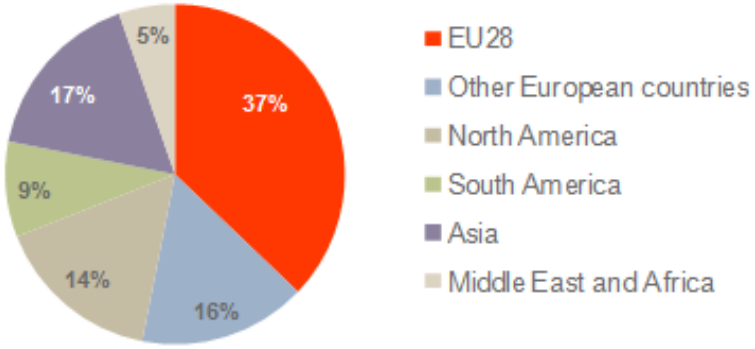
STEEL PACKAGING
GREEN SOLUTIONS FOR CENTRAL EUROPE

ArcelorMittal

ArcelorMittal welcomes you

The world’s leading steel and mining company

- **ArcelorMittal** is the world's leading steel and mining company, with around 232,000 employees in more than 60 countries producing 6% of global steel. It is the leader in all major global steel markets, including automotive, construction, household appliances and packaging, with leading R&D and technology, as well as sizeable captive supplies of raw materials.



Around 232,000 employees in more than 60 countries

Underpinning all our operations is a philosophy to produce safe, sustainable steel

We all live in a material world

3 materials are important for society:

- Steel 1.7 billion t/year
- Cement 4.2 billion t/year
- Wood 1.1 billion t/year

Most materials are needed for 3 essential functions:

- Food
- Shelter
- Mobility

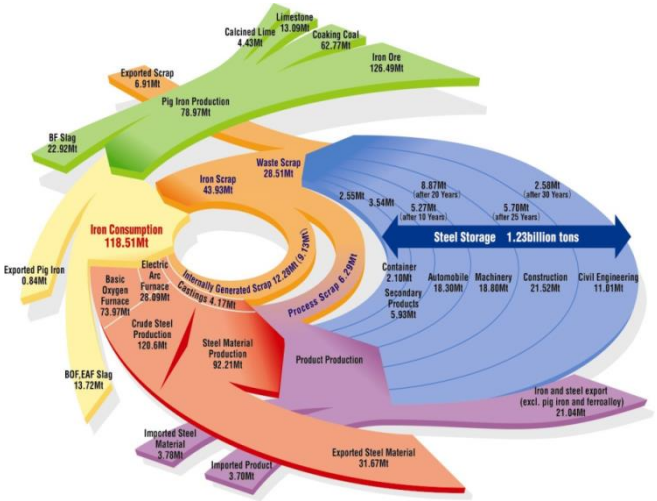
What does 1.7 billion tonnes steel per year mean?

- 100m x 100m x 100m full of solid steel every 2 days

Steel is the Fabric of Life

- Because of visible and invisible applications: everywhere **strength** is needed

- Because it is the first material in Circular Economy: 92% recycling
  - Every ton of steel from iron ore will be re-used/cycled 10 times



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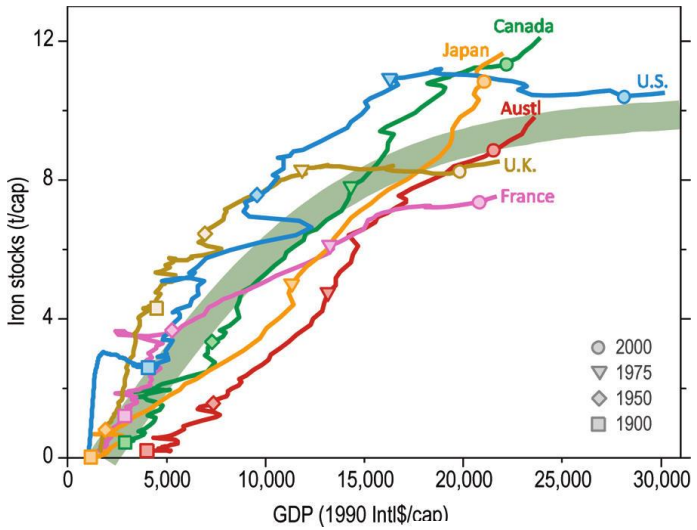
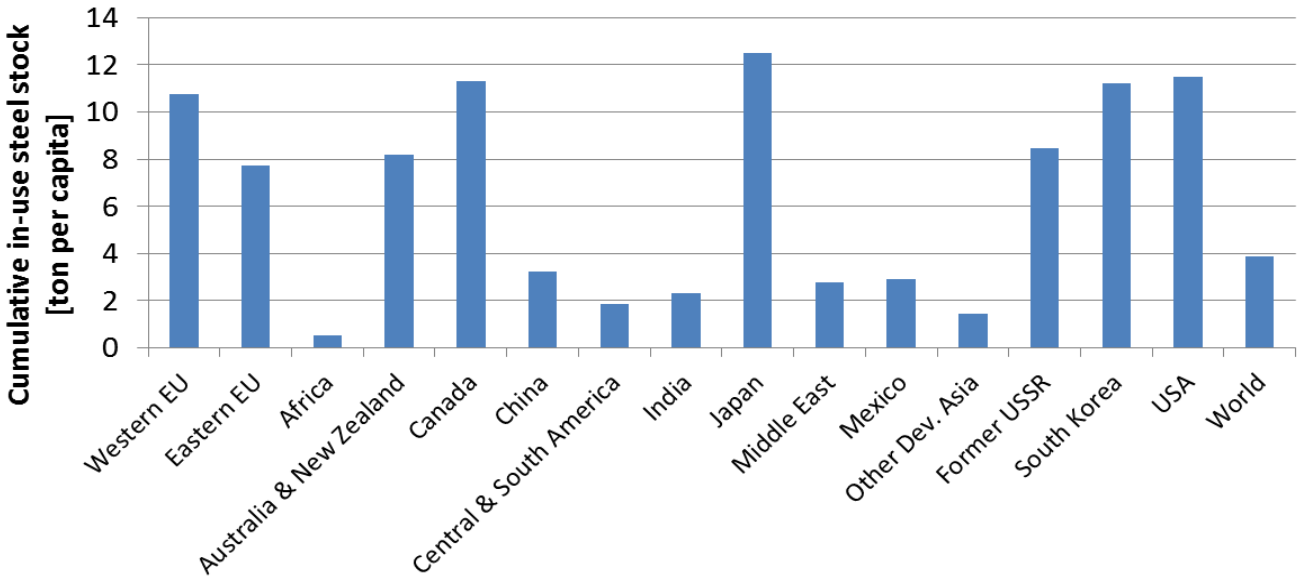
Steel use determines well-being



- Total steel in stock in a developed society is levelling out at +/-10tpp

- Eastern EU has some catching up to do

Daniel MULLER, Tao WANG and Benjamin DUVAL, Patterns of iron use in societal evolution , Environ. Sci. Technol. 2011, 45



Energy System Analysis Agency SAAM model

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Innovative steel for packaging: **40% lighter** in 30 years

Additional 25% material savings feasible for the classic food can

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Summary

Also in the future we will need materials and lots of it

Steel production & use still has a lot of challenges

- But it is a material with the right DNA
  - highly recycled
  - transformable to better performance

Green policies will have to reward sustainable material properties

- Teach respect for materials
- Define recycling better ≠ avoiding landfill
- Include LCA principles in product evaluation

I wish you an interesting and fruitful summit.

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TATA STEEL

ThyssenKrupp

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U. S. Steel Košice, s.r.o.
A Subsidiary of United States Steel