

ESTEP SPRING DISSEMINATION EVENT

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News and Vision from the Steel Recycling Industry

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What is recycling ?

What is “green” steel ?

What is the situation ?

What about the recycling “quality” ?

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AT A GLANCE



300,000

Green and local jobs



5500+

companies



100

billion euros turnover

Comparison with Steel mills :

Turnover : 140 billion

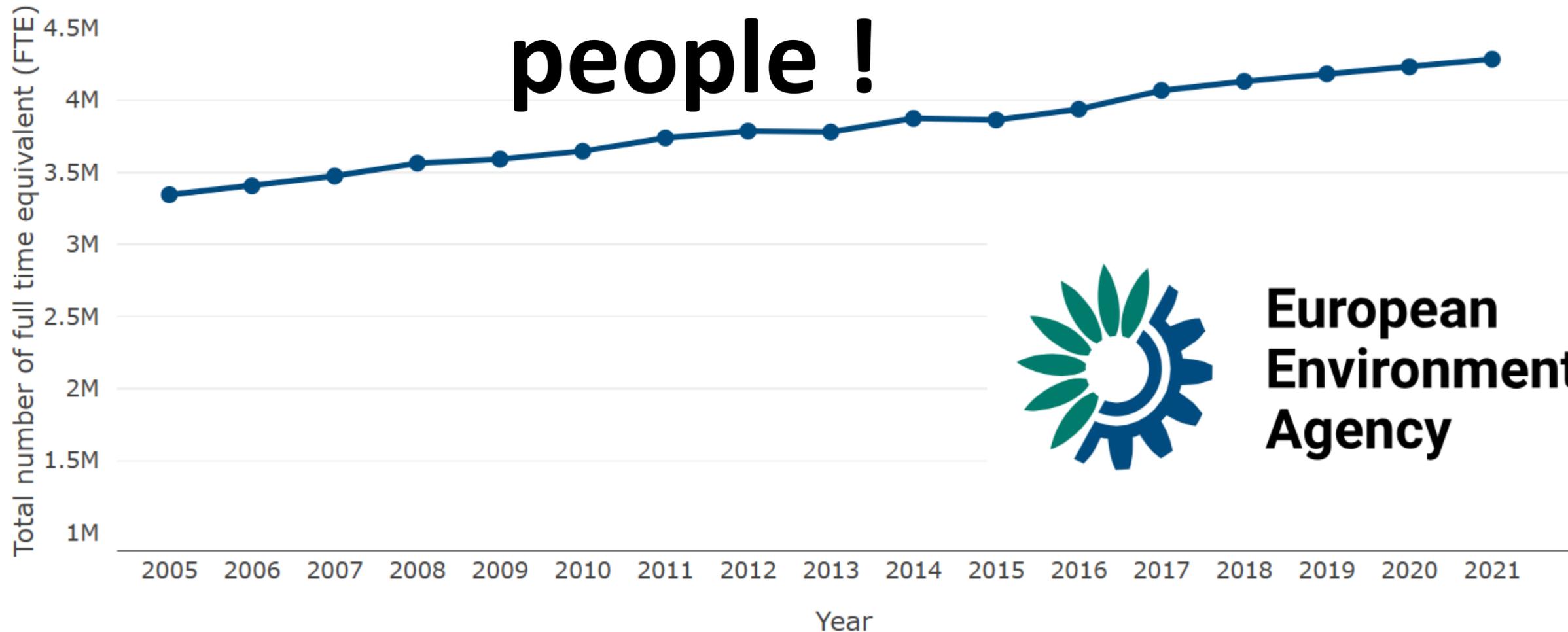
Employment : 330,000 jobs



Recycling Europe at a glance

Circular Economy is a significant reason for increases in employment in the EU with more than 4 million people employed in circular economy sectors in 2021.

4 million people !



**European
Environment
Agency**



What recycling means ?

1976

WFD

->Waste Framework Directive
= **production of Raw Material
from Waste**

->Since 2008 WFD

= **when EOW, End-of-Waste, occurs**

Input : Metallic scrap waste

70%
steel



Output : **Recycled steel** : product
Standard European E40

98%
steel



**Recycling
Industry**

**IRON ORE =
60% iron**

Input : Metallic scrap waste



70%
steel



Output : Recycled steel : product
Standard European E40

98%
steel



European industrial recycling plant :
Shredder and magnetic sorting plant

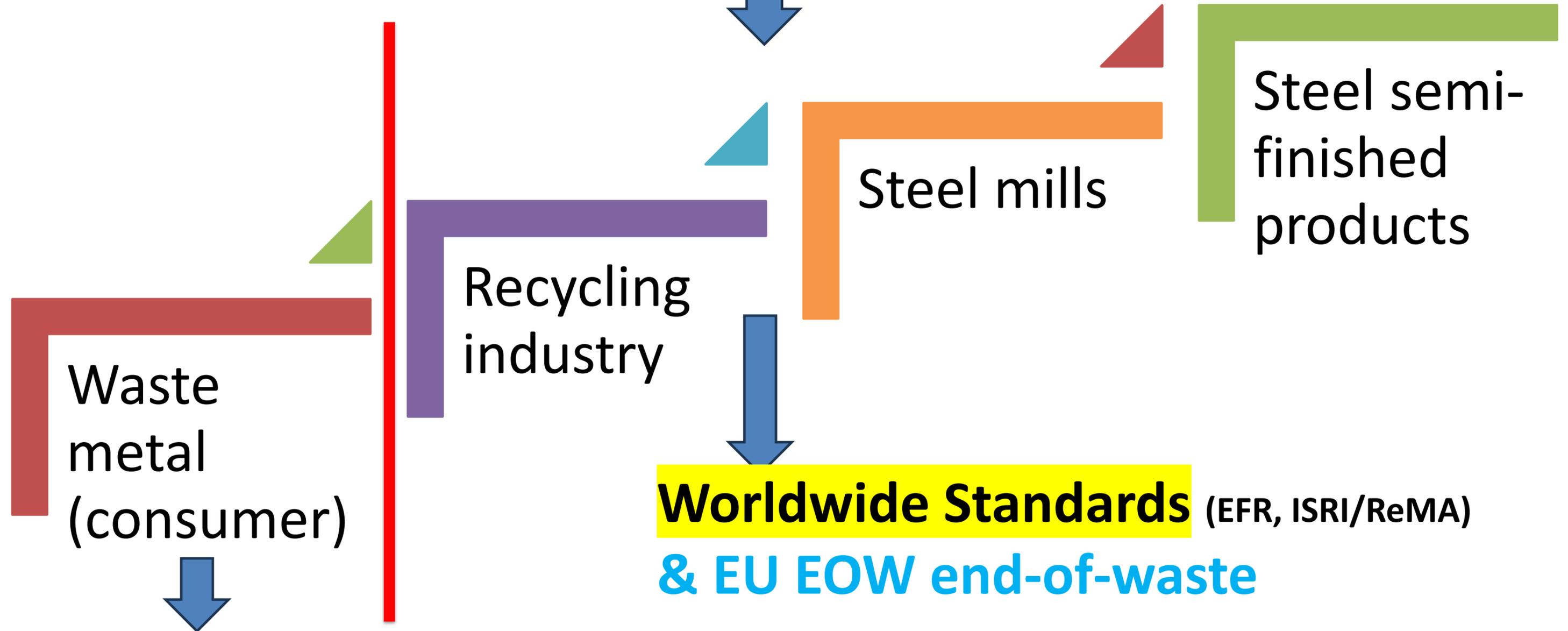
- 267 shredding recycling plants in the EU
- 35M€/plant

How recycled steel works ?

Total = 9,3 billion € investment

- Started 70's
 - ~1 shredder/million habitant
 - Substantial improvements linked to PST, Post-Shredding-Technologies
- = huge improvement in “quality” steel recycling

Recycled Metal ?
=Raw Material



Waste metal (consumer)

Recycling industry

Steel mills

Steel semi-finished products

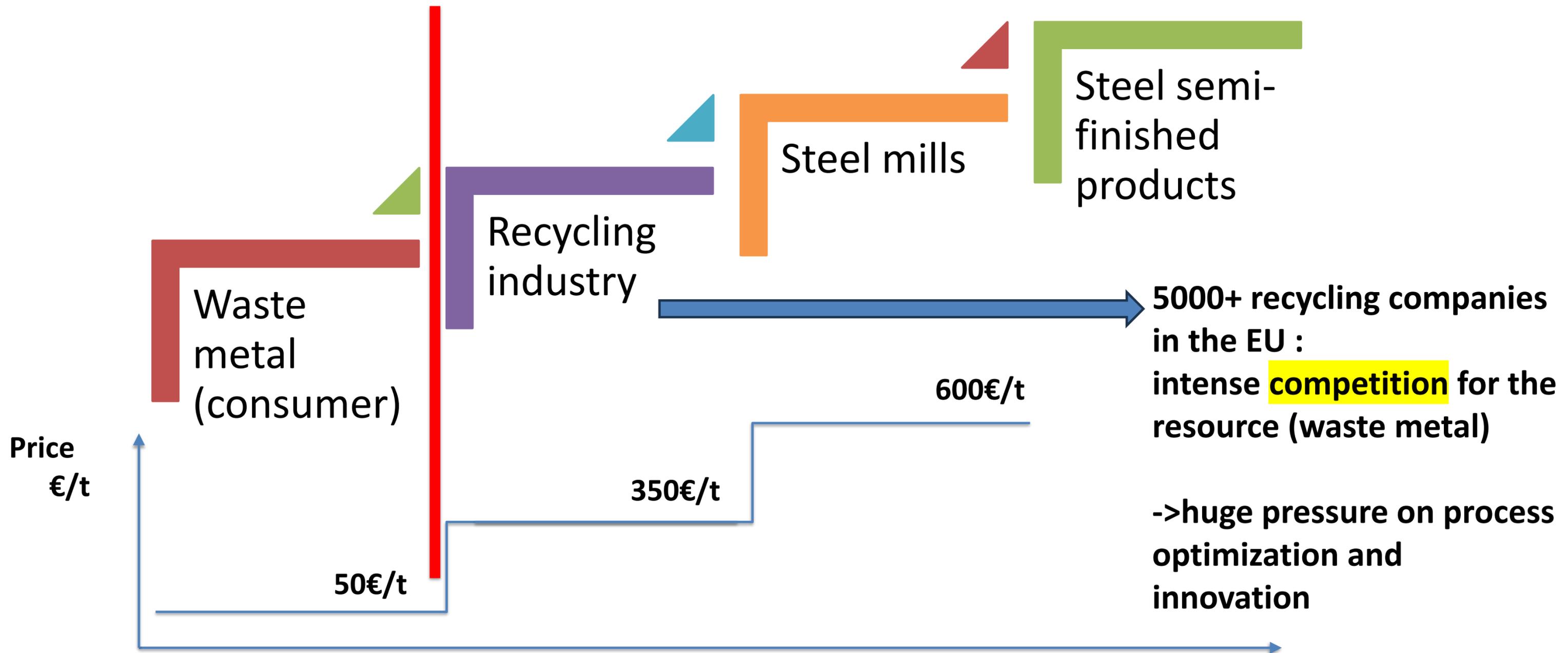
Worldwide Standards (EFR, ISRI/ReMA)
& **EU EOW end-of-waste**

SCRAP : metallic waste

Council Regulation (EU) No 333/2011

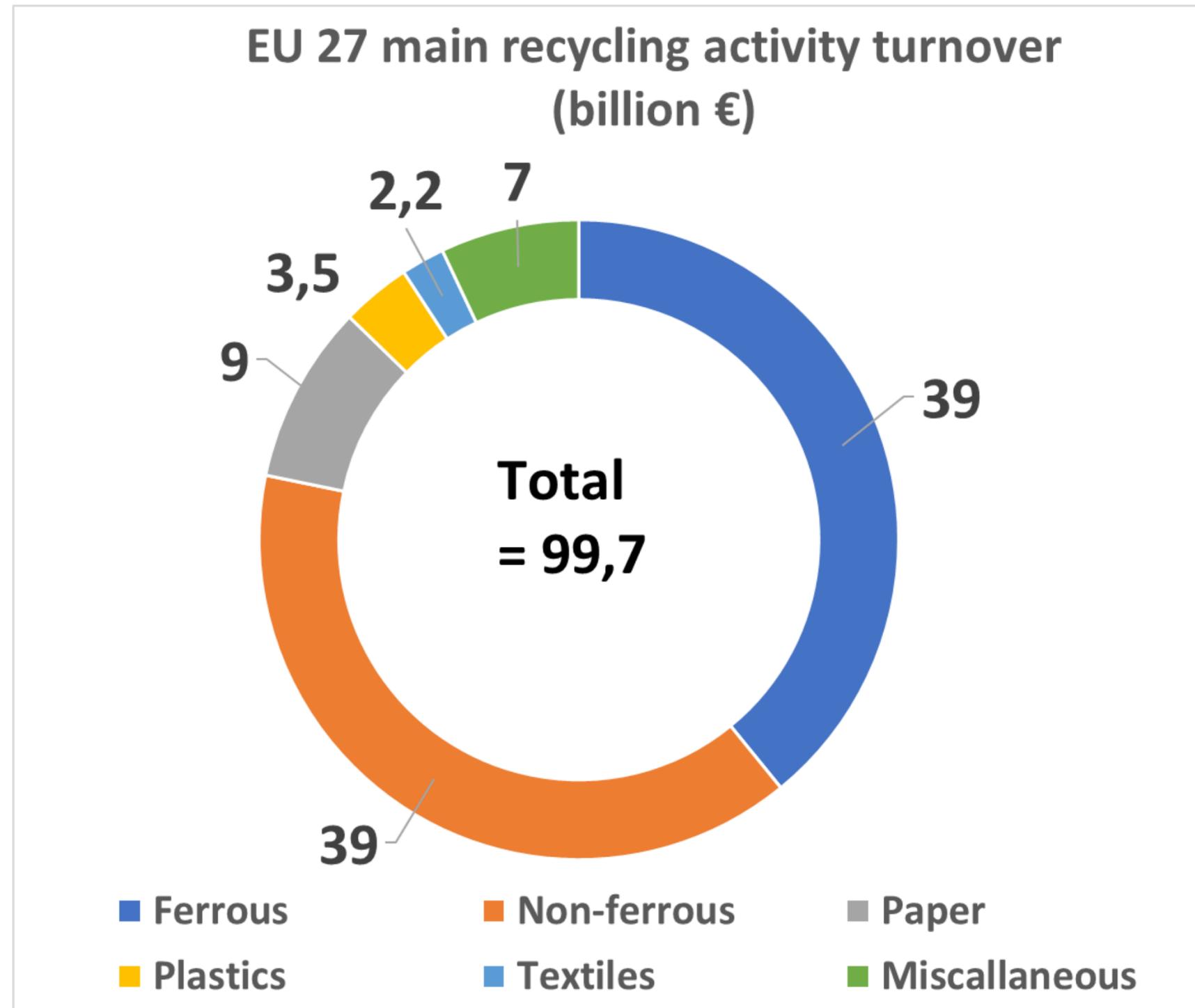
A positive value chain from the start ...

we must buy the metallic waste

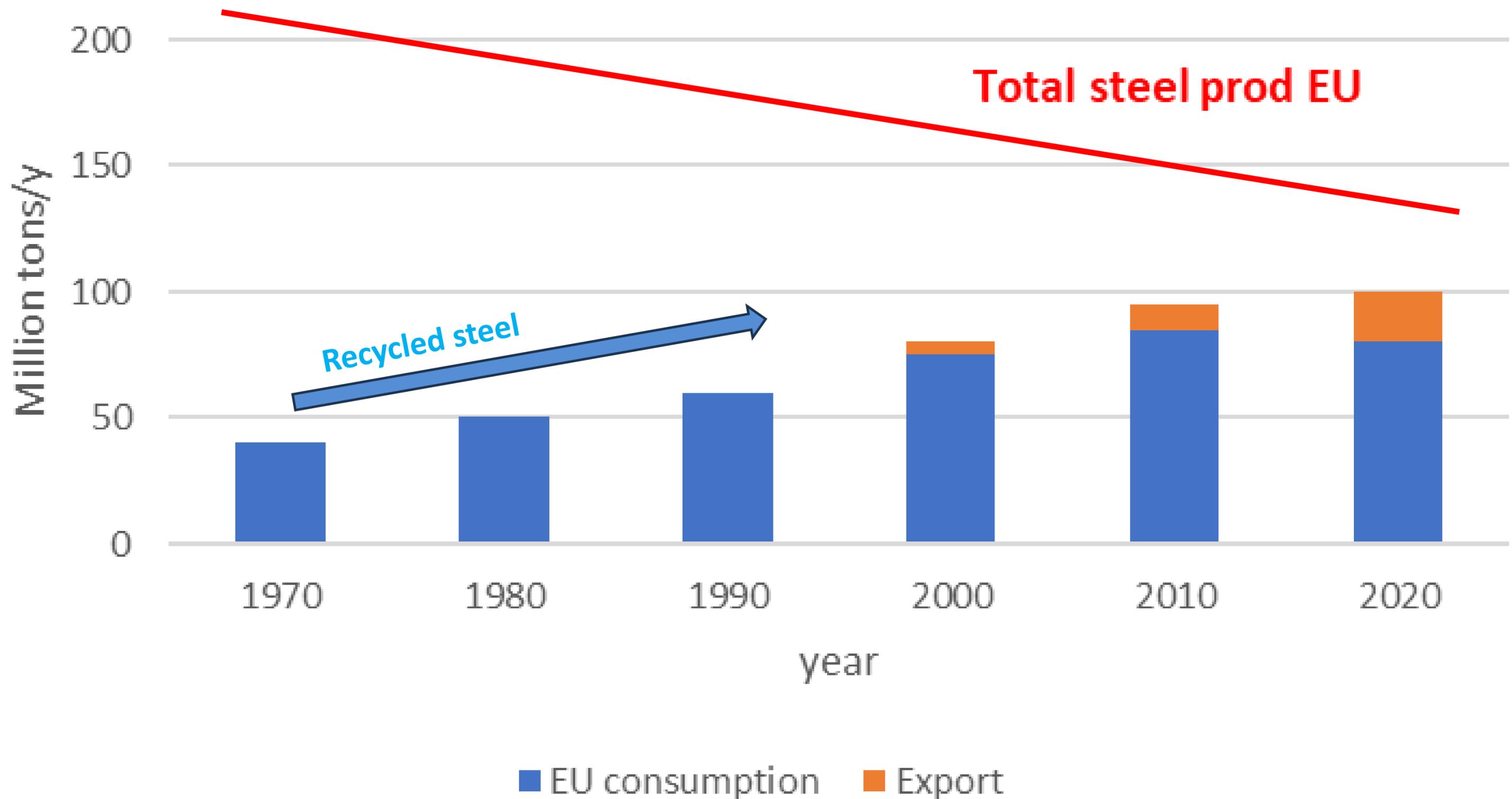


Why recycled **steel** matters :
~40% of recycling turnover

~80% adding **non-ferrous**

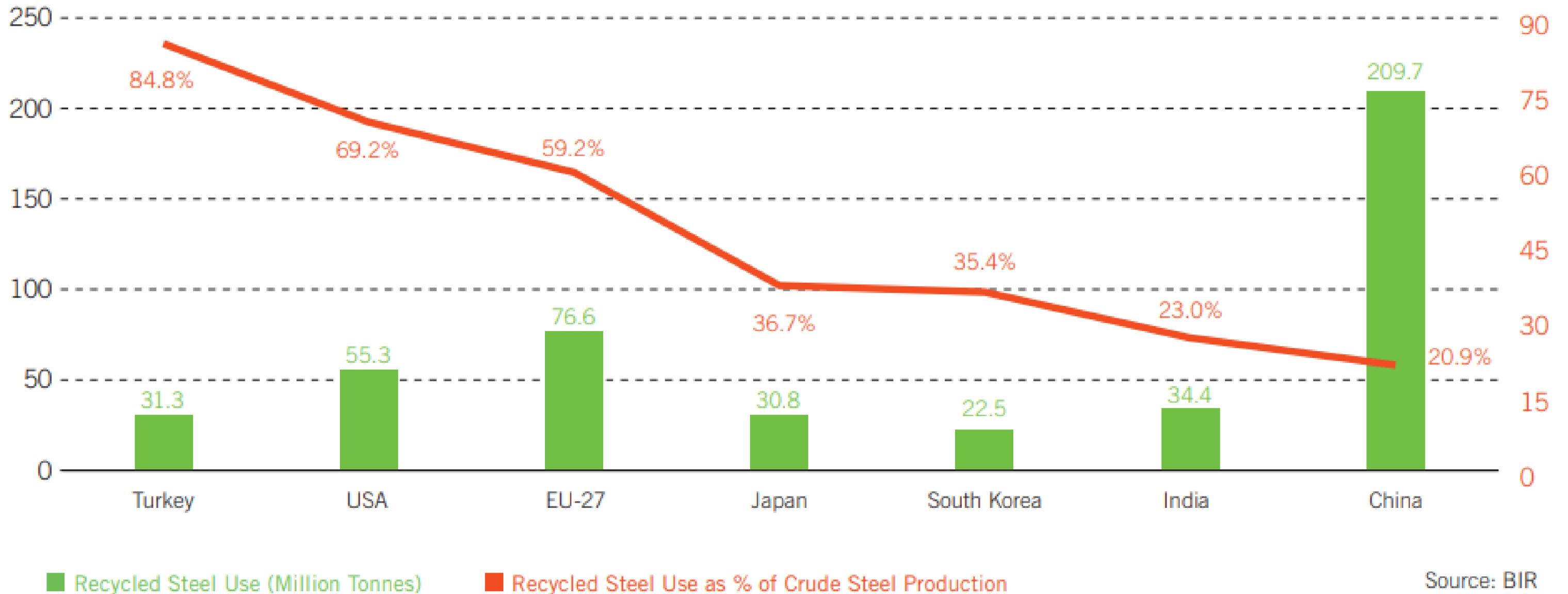


STEEL & RECYCLED STEEL market tendency



R-Steel EU = **100Mt** -> 80Mt stays = **60%** of the EU steel

RECYCLED STEEL USE IN CRUDE STEEL PRODUCTION 2024 (MILLION TONNES)



GREEN Steel ?



-“Green” means “low CO2 emission”

like CBAM !

-“**Technology neutrality**” should be TOP priority.

-Let’s define “green steel” ...

based on the lowest emission

Decarbonisation:

By 2050,

implementing

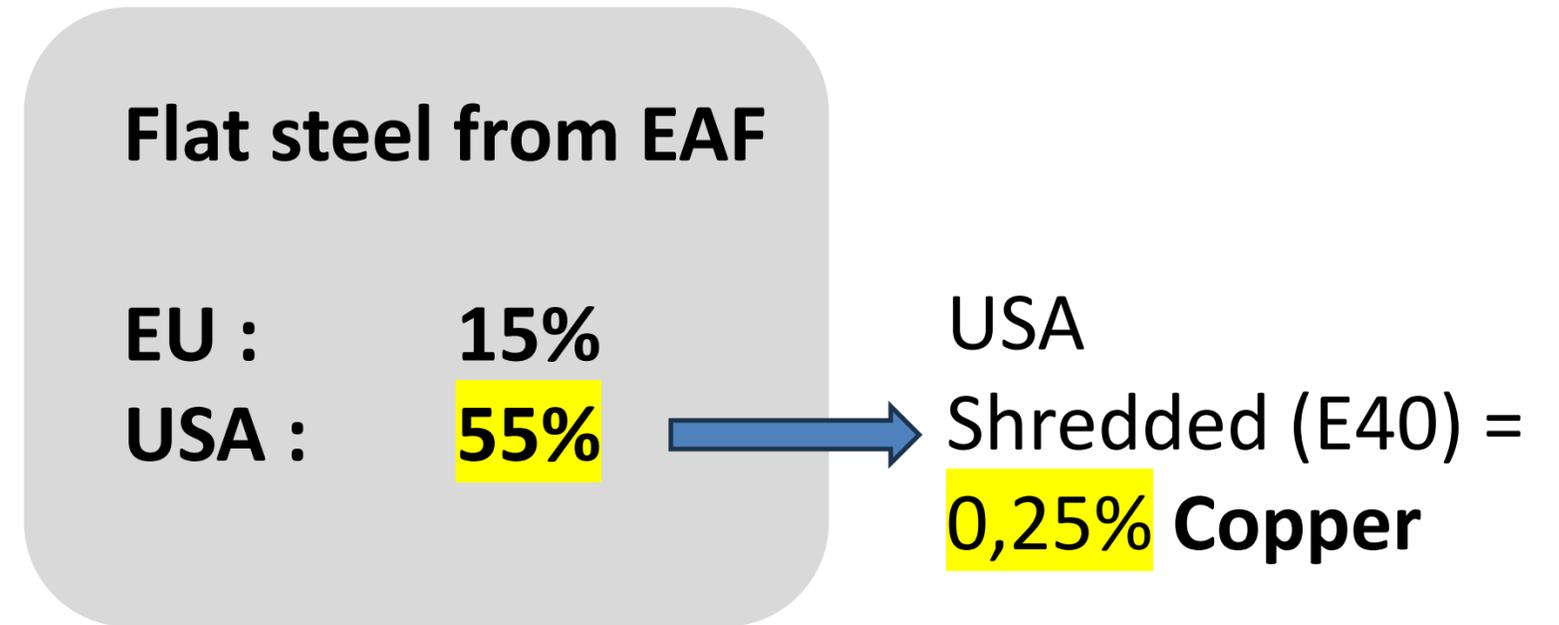
Circular Economy strategies

can save **64-81 Mt** CO2-eq.

emissions annually in the steel sector

The goal ? -> flat steel

Recycled Steel :
The “quality” question



If the USA can do it, why not the EU ?

In the USA: differentiated price incentivize the recycling...



Recycling
Europe

What is recycling ?

Raw Material production

What is “green” steel ?

Circular

What is the situation ?

Surplus

What about the recycling “quality” ?

Use what is already there !

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