

# An introduction to low-carbon steel

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# “Low-carbon steel”



# Low-carbon emission steel within the industry



# A proliferation of methodologies



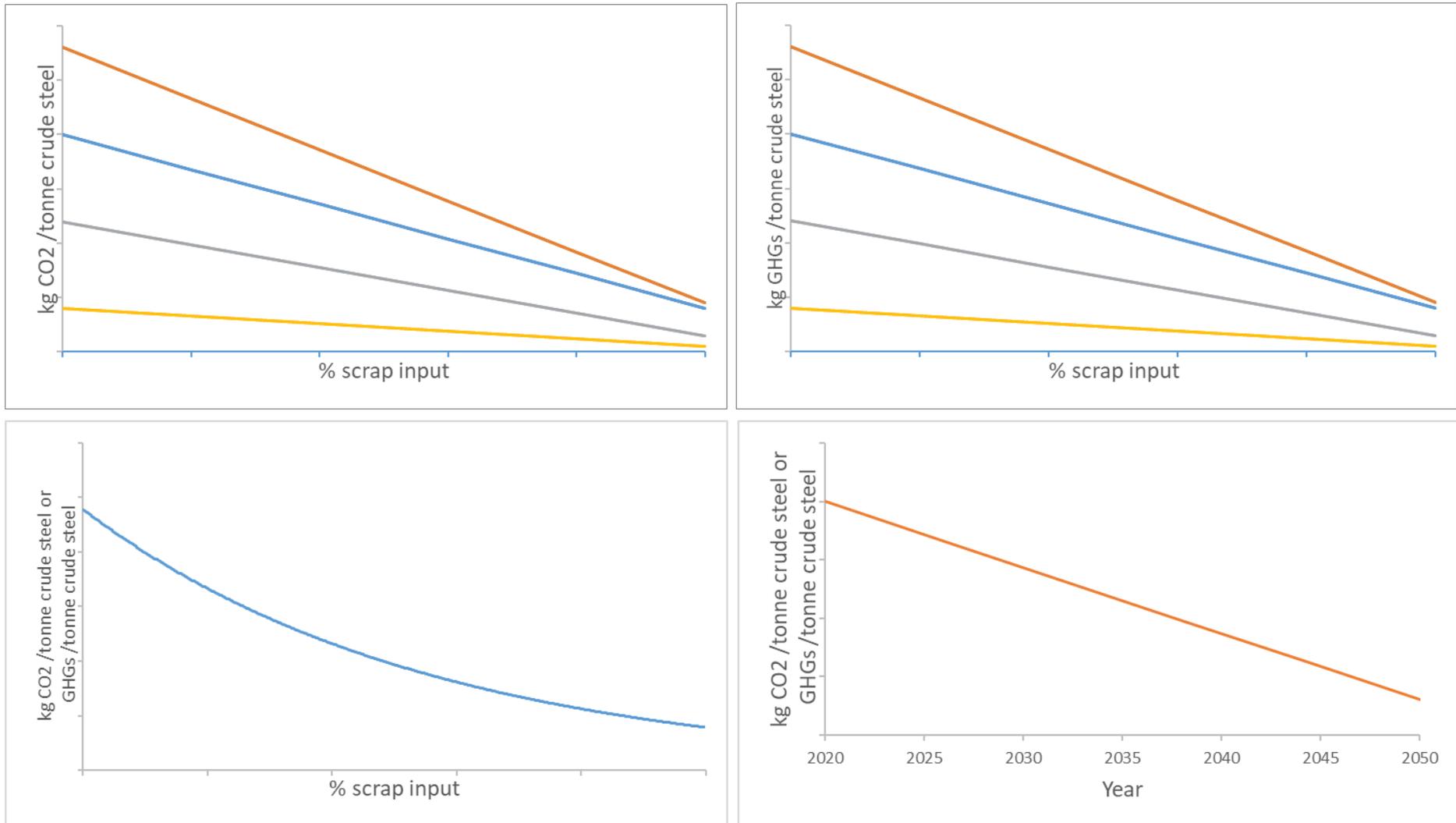
Net Zero Steel



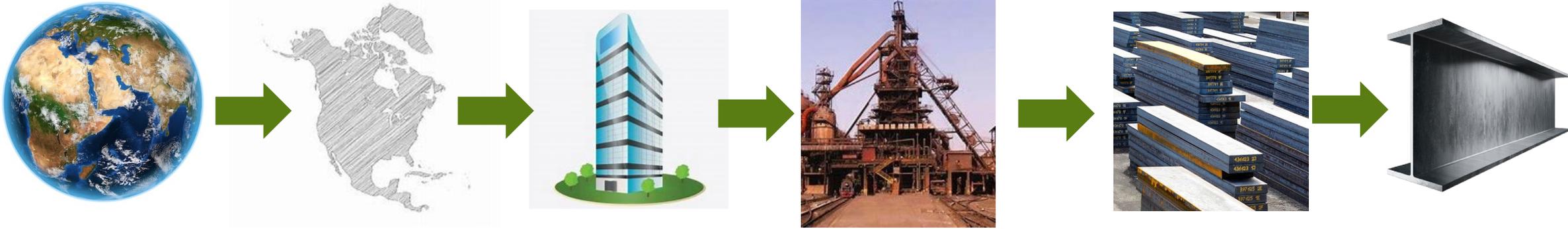
Net Zero Steel Pathway Methodology Project



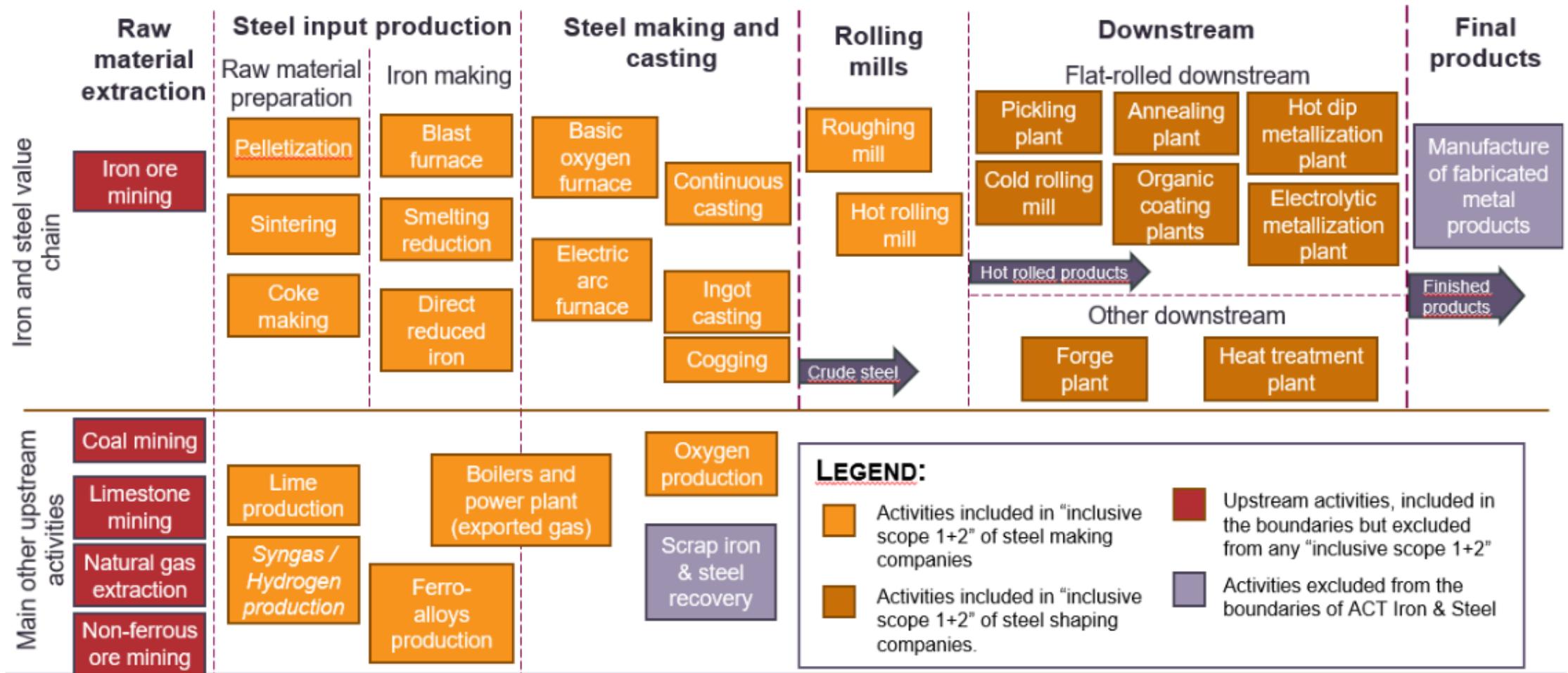
# Similar, but different approaches



# Different focus, different requirements



# To include or not to include?



# Why do we need a definition?



POLICY



FINANCE



CUSTOMERS

# This is already happening

- Products are being certified in different ways, e.g.:
  - ResponsibleSteel
  - EPDs
  - European Commission's Product Environmental Footprint
  - Steel company approaches
- These can be CO<sub>2</sub>, GHG , environmental or ESG focused
- Customers, consumers and all stakeholders need to read and understand the small print to be able to make meaningful comparisons and decisions



# A call for harmonisation

- Definitions are key – we need the right tool for the right audience.
- There is a need for a consistent approach to carbon accounting
  - Scope, boundaries, assumptions and emission factors
- Need to avoid shifting of burden to things outside the scope/boundary or to different impacts
- This leads to the need for an internationally standardised approach for low and near-zero emission materials.
- This should not be done for steel alone, but should consider:
  - Competing materials
  - Market sectors
  - Interlinks with other sectors (e.g. co-products)

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# worldsteel

A S S O C I A T I O N

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