

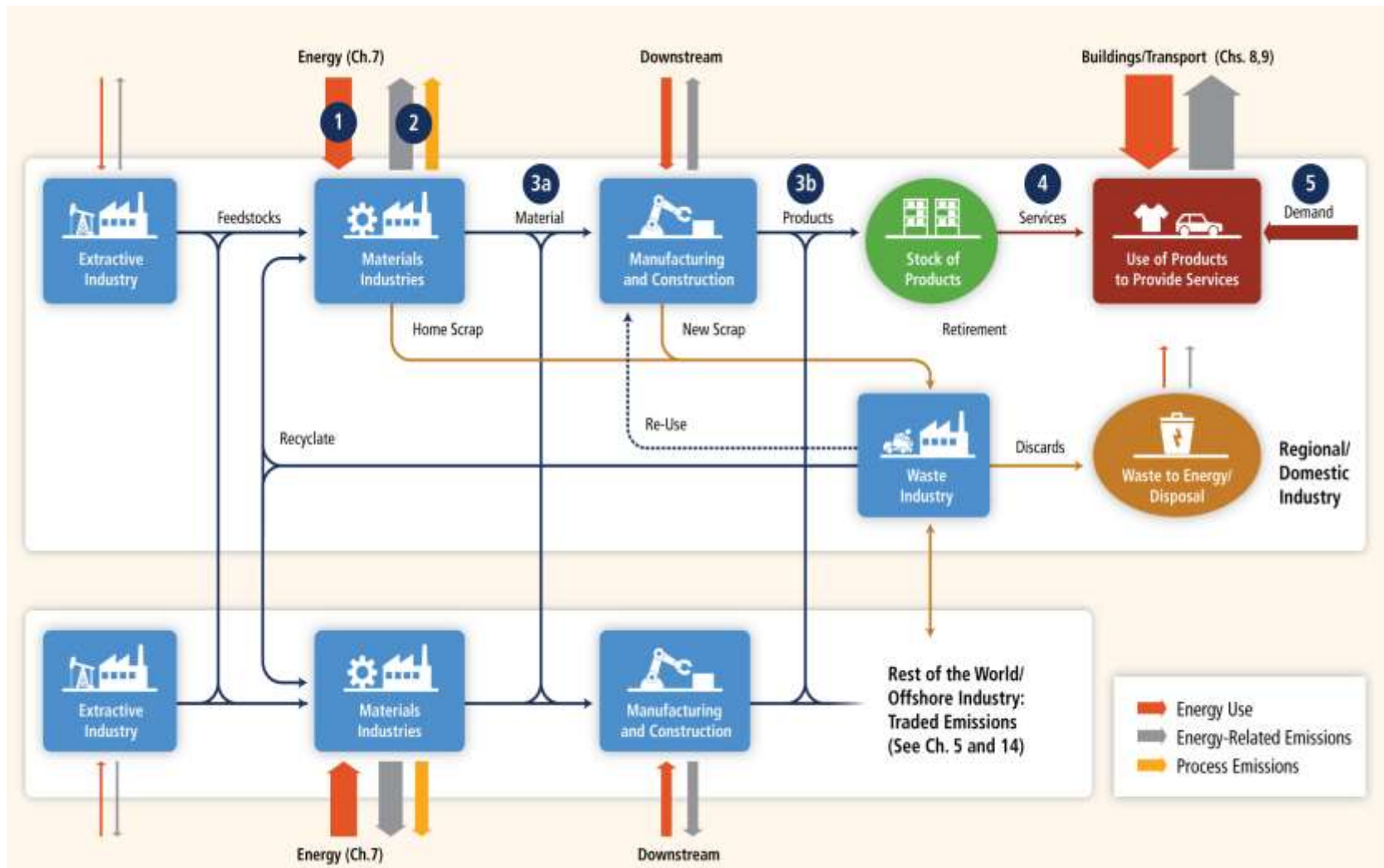
CLIMATE CHANGE 2014

Mitigation of Climate Change

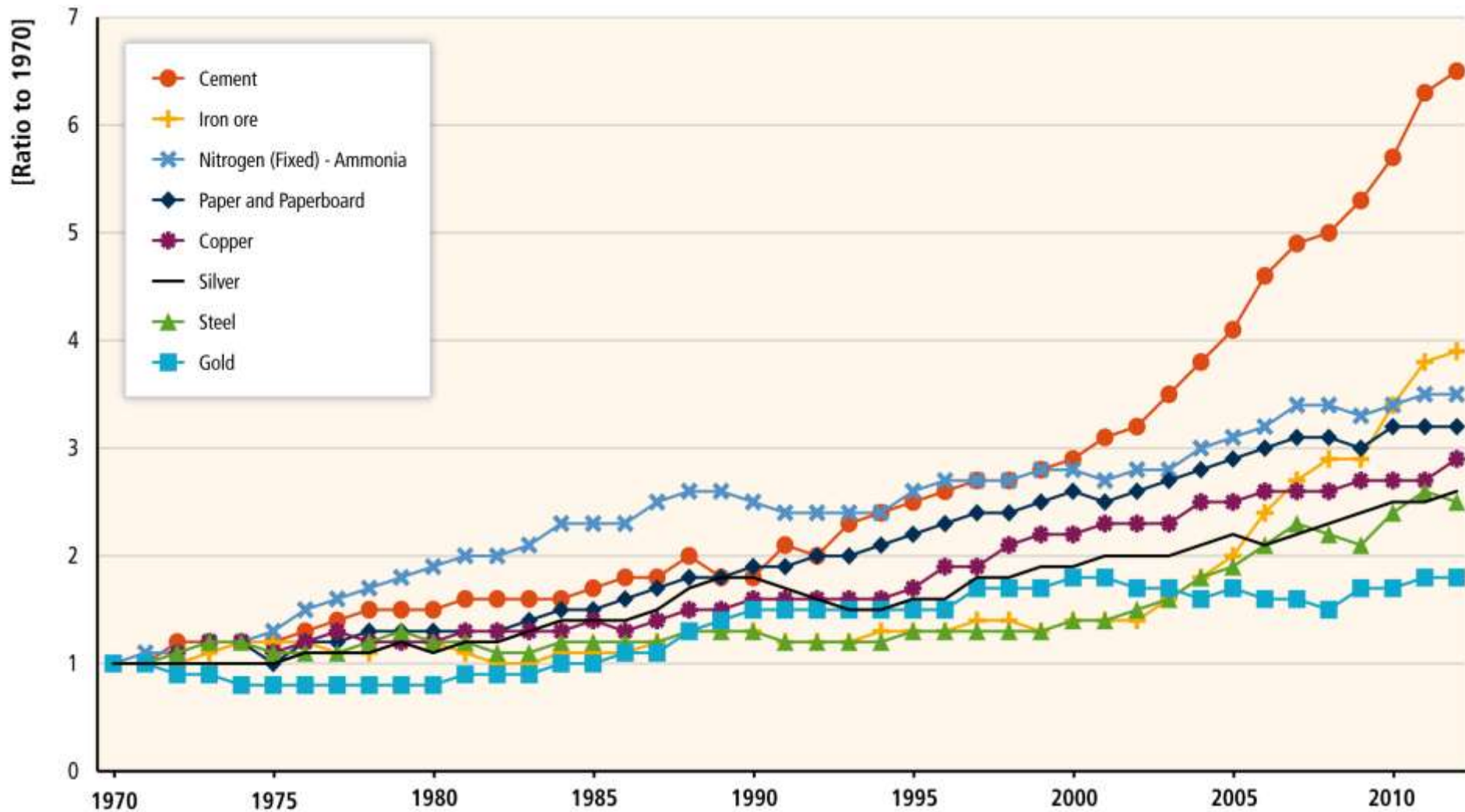
Joyashree Roy

Co-CLA Chapter 10

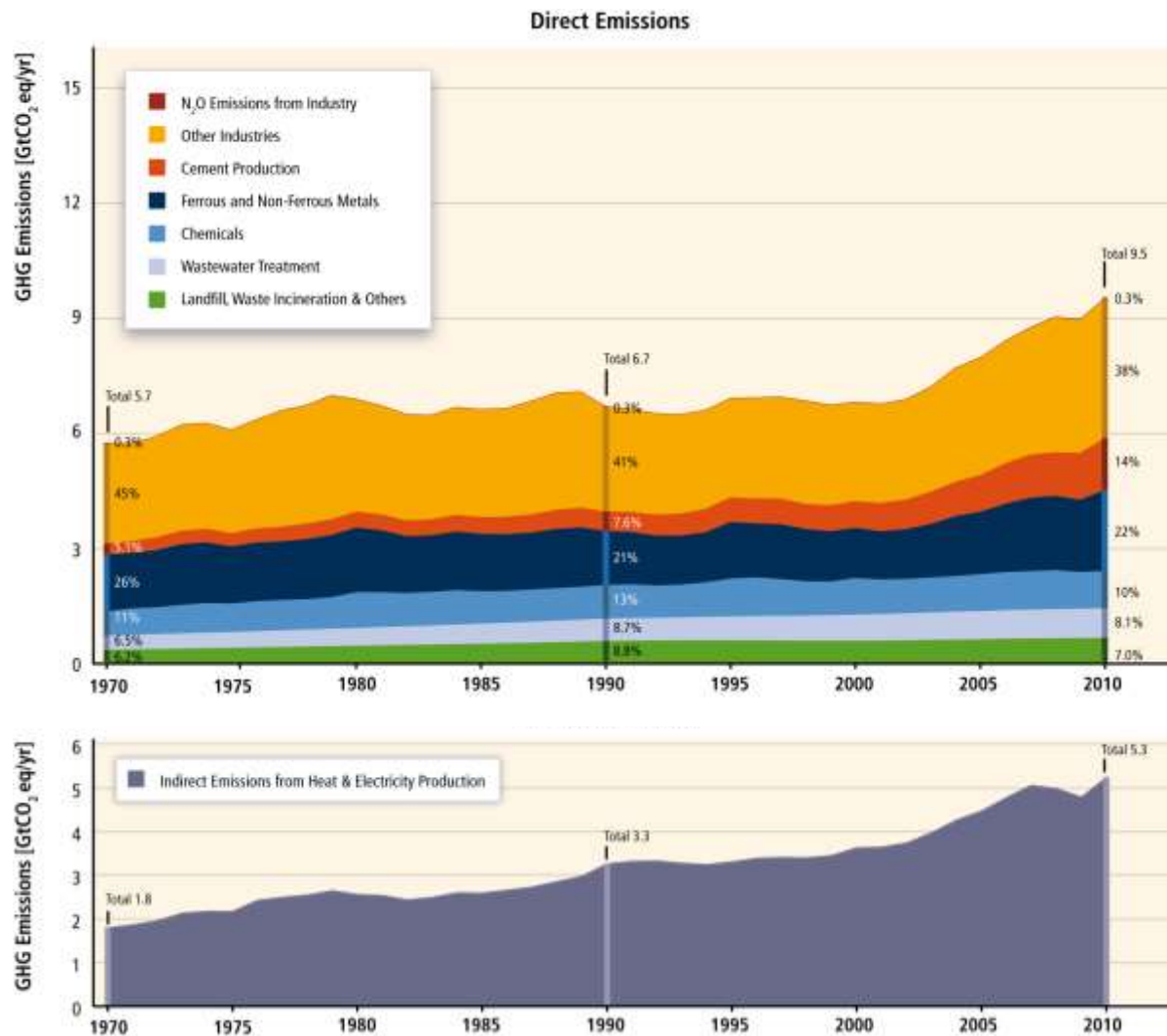
Five main options for reducing GHG emissions in the industry sector (considering also traded goods)



World production of minerals and manufactured products is growing steadily driving GHG emissions



Emissions from industry sector comprises direct and indirect emissions



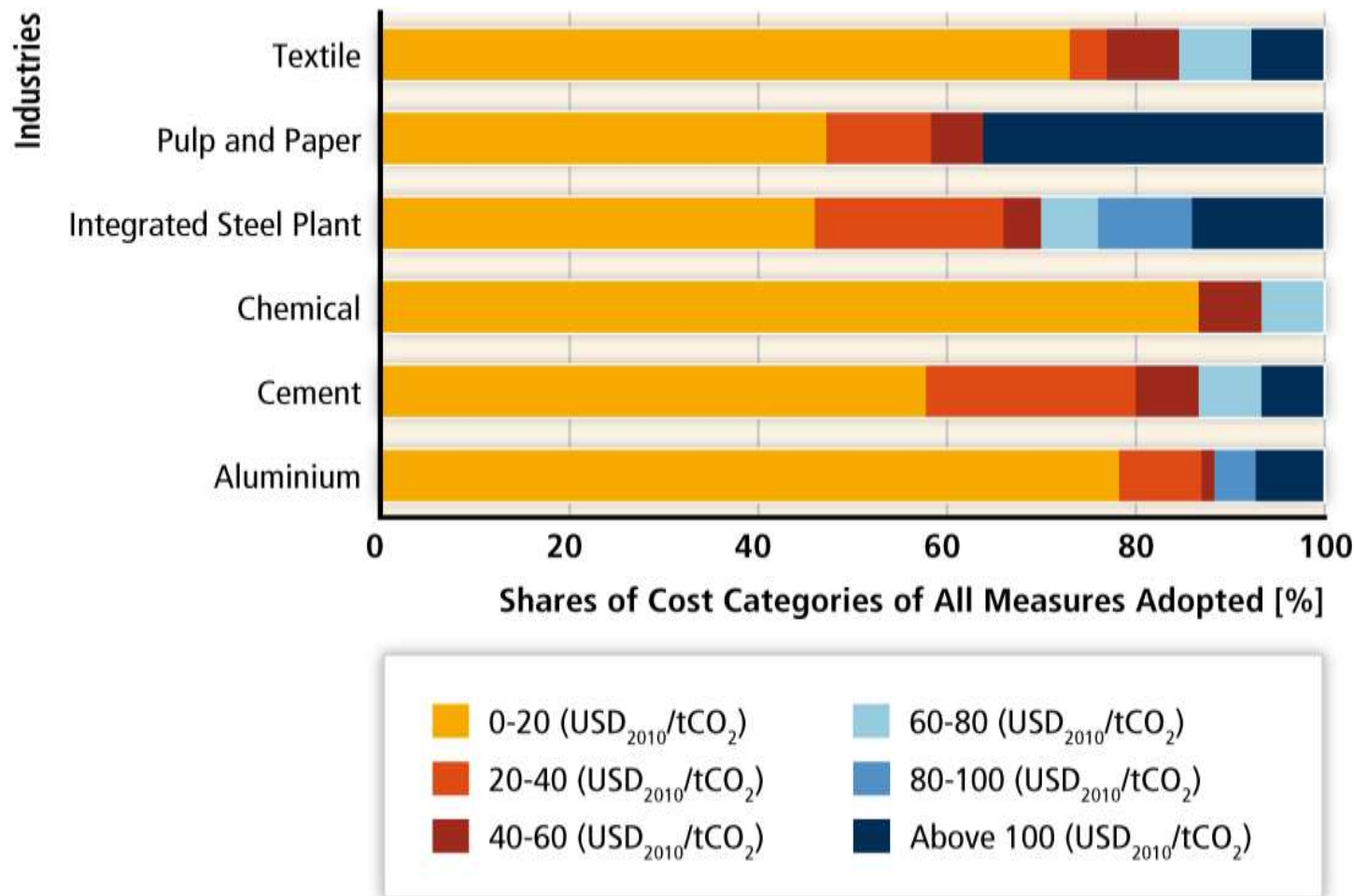
Total emissions of industry sector are 15.5 GtCO₂eq in 2010 – they are larger than the emissions from either the buildings or transport sectors and represented just over 30% of global GHG emissions in 2010

Direct emissions from the sector are dominated by five main products

Significant mitigation potentials exist in various cost ranges including cost effective measures (case study of steel)



Current investments in GHG mitigation measures focus on low cost measures (case study of India)



“

African countries have abundant opportunities to adopt clean, efficient low-carbon technologies and practices.

”

Industry : reduction scope

- **From a short and mid-term perspective**
 - 25% through the wide-scale deployment of best available
 - Additional 20% through innovation
- **In the long-term a shift to low-carbon electricity, radical product innovations (e.g. alternatives to cement), or CCS (for process emissions) could contribute to significant (absolute) GHG emissions reductions**
- **SMEs clusters can reduce energy and material consumption and thus GHG emissions**
- **Waste reduction, followed by re-use, recycling and energy recovery**

Food processing

Energy Efficiency

animal slaughtering (19%)

corn milling (15%)

fruit and vegetable preservation (14%)

Emission Efficiency

Moving out to Natural gas

local sourcing vs long distance import

Demand reduction without impacting wellbeing

Through food waste reduction

Fresh food rather than Refrigerated

Reviewing food expiry dates

change in dietary pattern :Meat and dairy product

Textile and Leather Industry

Coal based plants: Changing to Natural gas

Motors' efficiency

Boiler efficiency

Less information on what is happening in African countries

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