

Joyashree Roy – Coordinating Lead Author
Chapter 5 – Demand, Services and Social
Aspects of Mitigation

Climate Change 2022

Mitigation of Climate Change

**In every sector there are options available
now that can at least halve emissions by 2030**



Demand and services



Energy



Land use



Industry



Urban

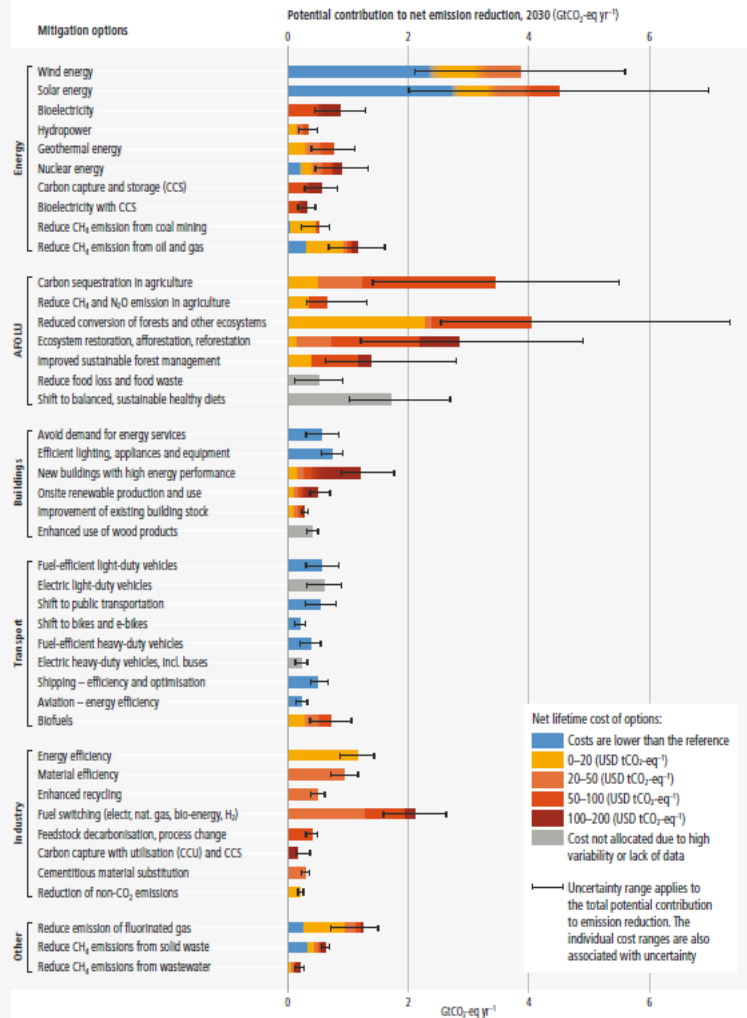


Buildings



Transport

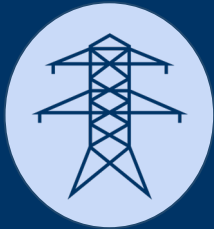
Options costing less than USD20 tCO₂-eq make up more than half of the 2030 reduction potential



On Demand side we Evaluated 60 options that can lead to 40-70% of emissions reduction compared to 2050 level of projected emissions estimated based on policies and actions pledged by various countries.



Demand and services



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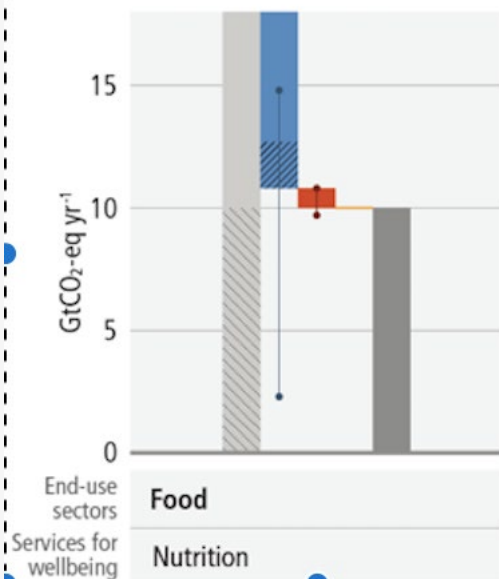


Buildings

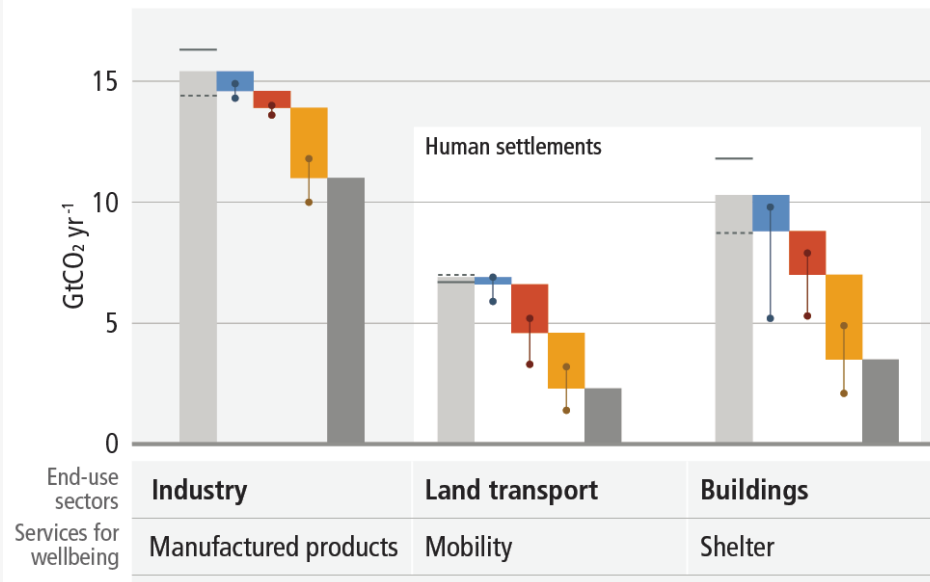


Transport

a. Nutrition



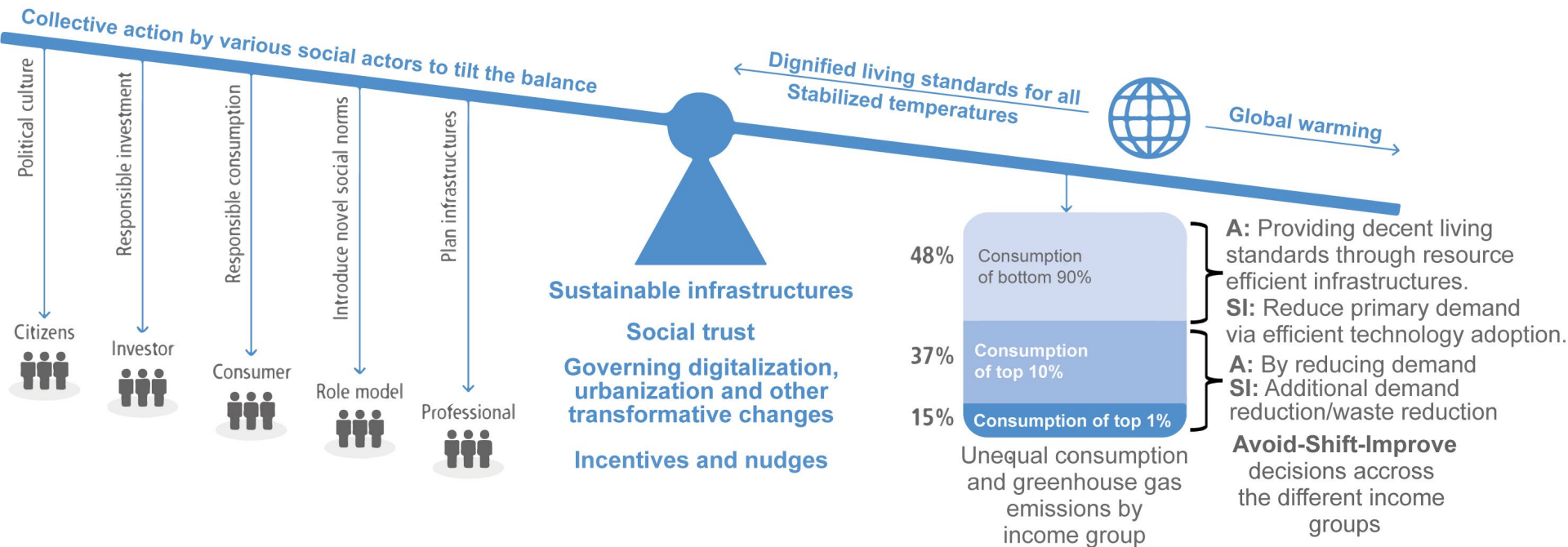
b. Manufactured products, mobility, shelter



- AFOLU
- Direct reduction of food related emissions, excluding reforestation of freed up land
- Total emissions 2050
- Socio-cultural factors

- Infrastructure use
- End-use technology adoption
- Emissions that cannot be avoided or reduced through demand-side options are assumed to be addressed by supply-side options

Tilting the balance towards less resource intensive service provisioning



Closing investment gaps

- financial flows: **3-6x lower** than levels needed **by 2030** to limit warming to below 1.5°C or 2°C
- there is **sufficient global capital** and liquidity to close investment gaps
- challenge of closing gaps is widest for developing countries



Thankyou

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