



ATMOSphere CONFERENCE

Session on ErP Ecodesign directive

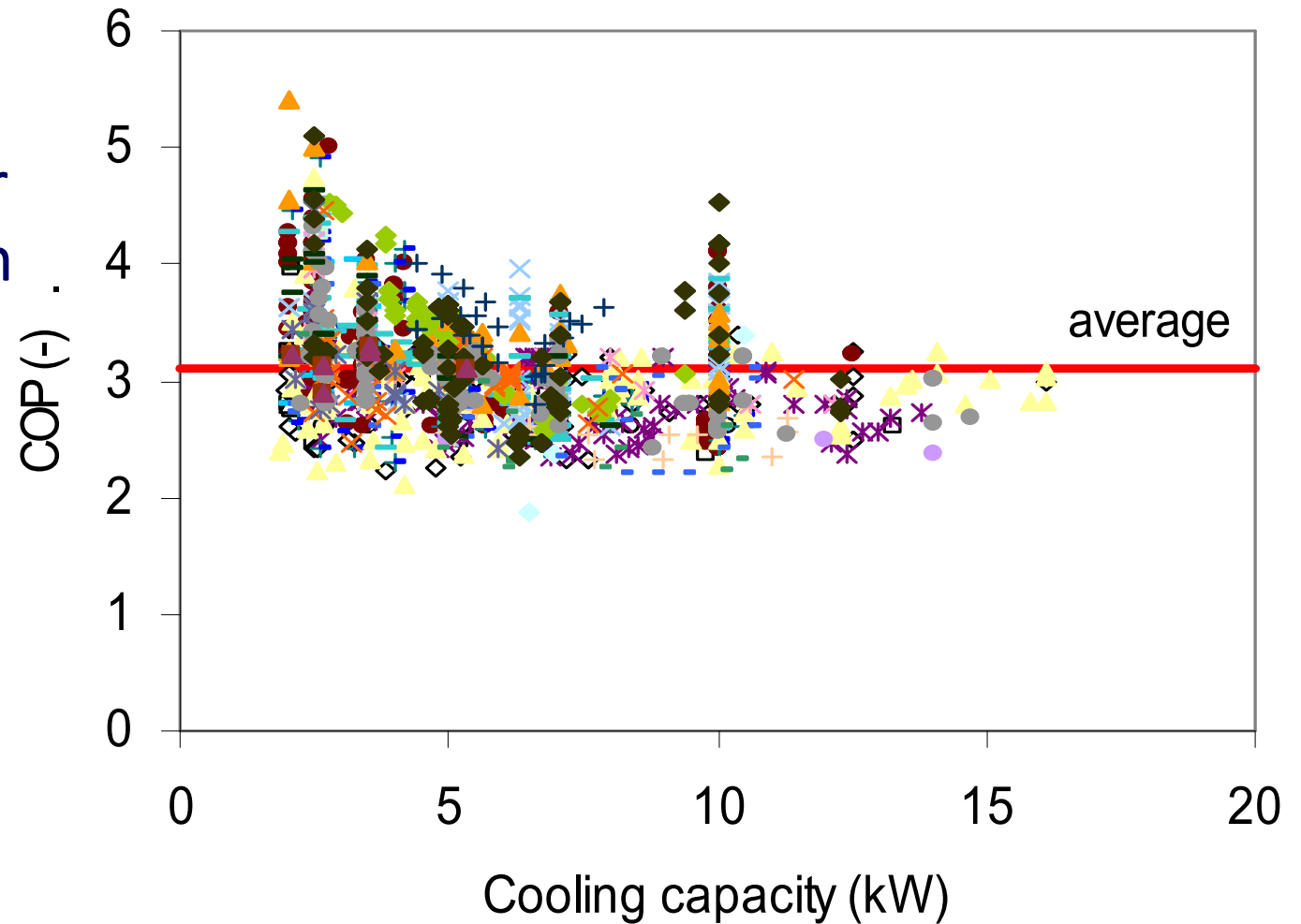
12th October 2011, Brussels

Daniel Colbourne

d.colbourne@re-phridge.co.uk

Background

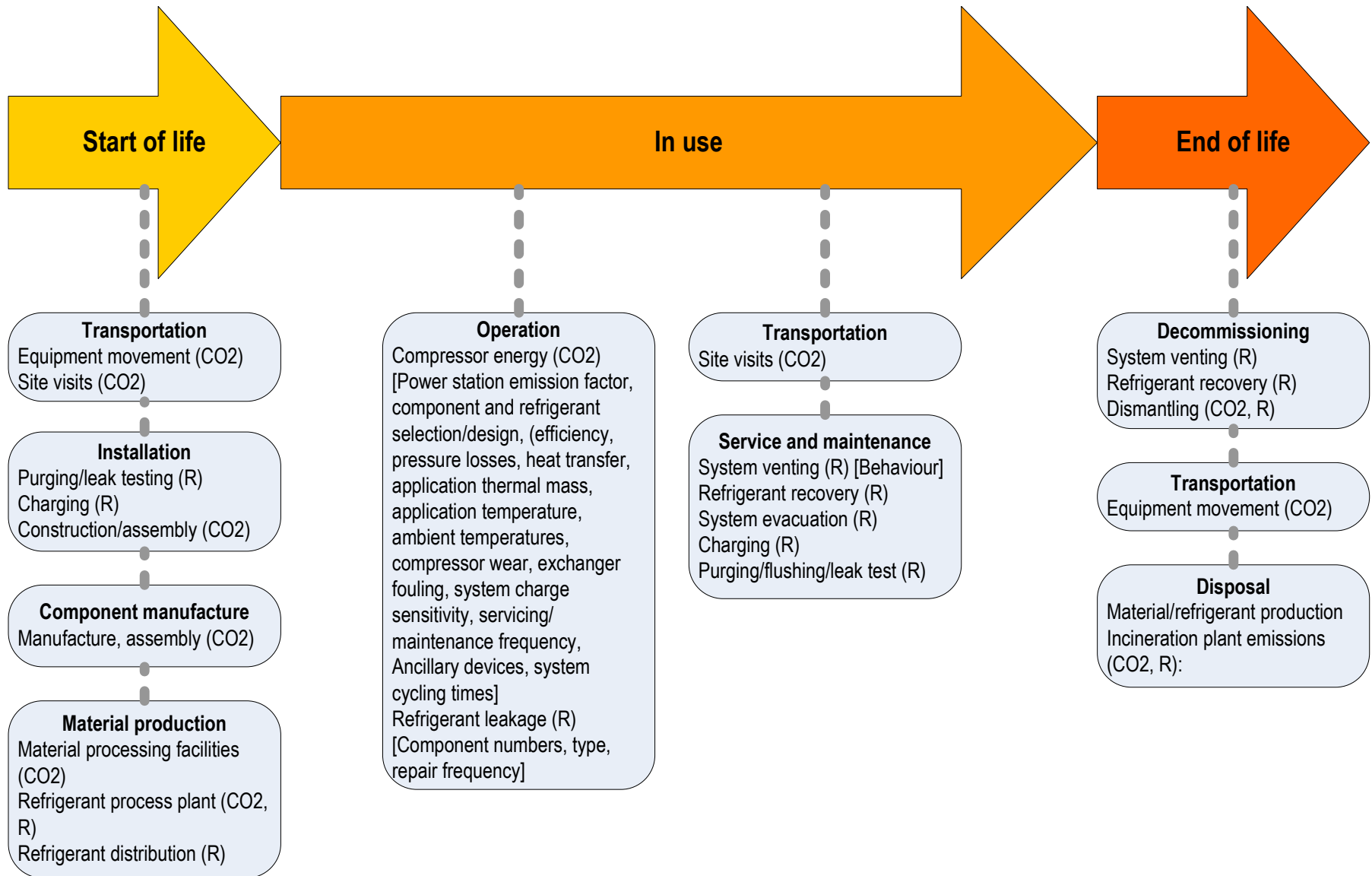
- Historically, Europe has lagged many other countries in terms of minimum efficiencies



ErP Ecodesign framework directive

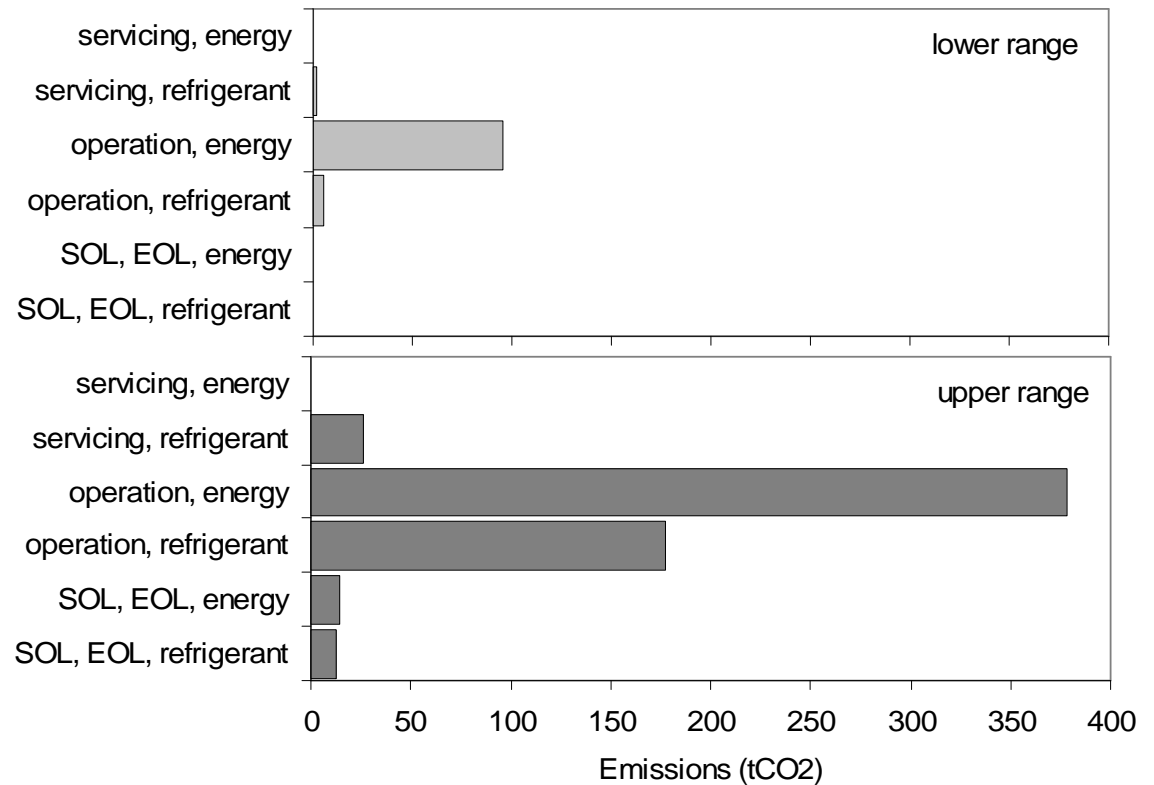
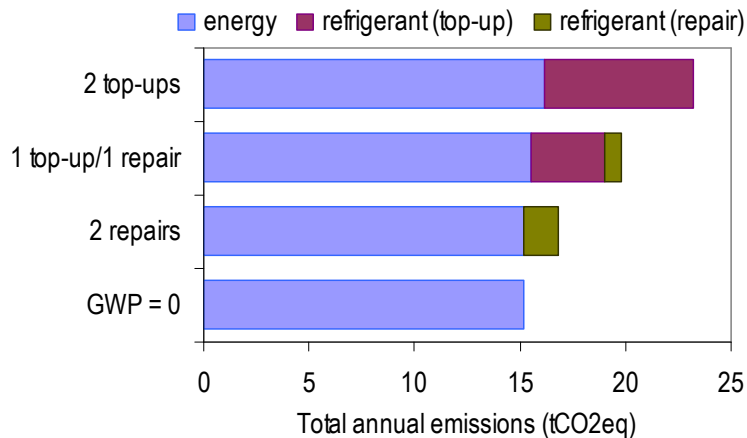
- But eco-design is intended to go further than just efficiency
 - Emissions of other substances
 - Lifecycle approach for materials, consumables, etc
 - Waste generation, water consumption, extension of lifetime
- However, generally find in most RAC sector Lot's, efficiency is the focus
 - Often due to extensive lobbying from vested, well organised, interests...

Contributing factors to GHG emissions

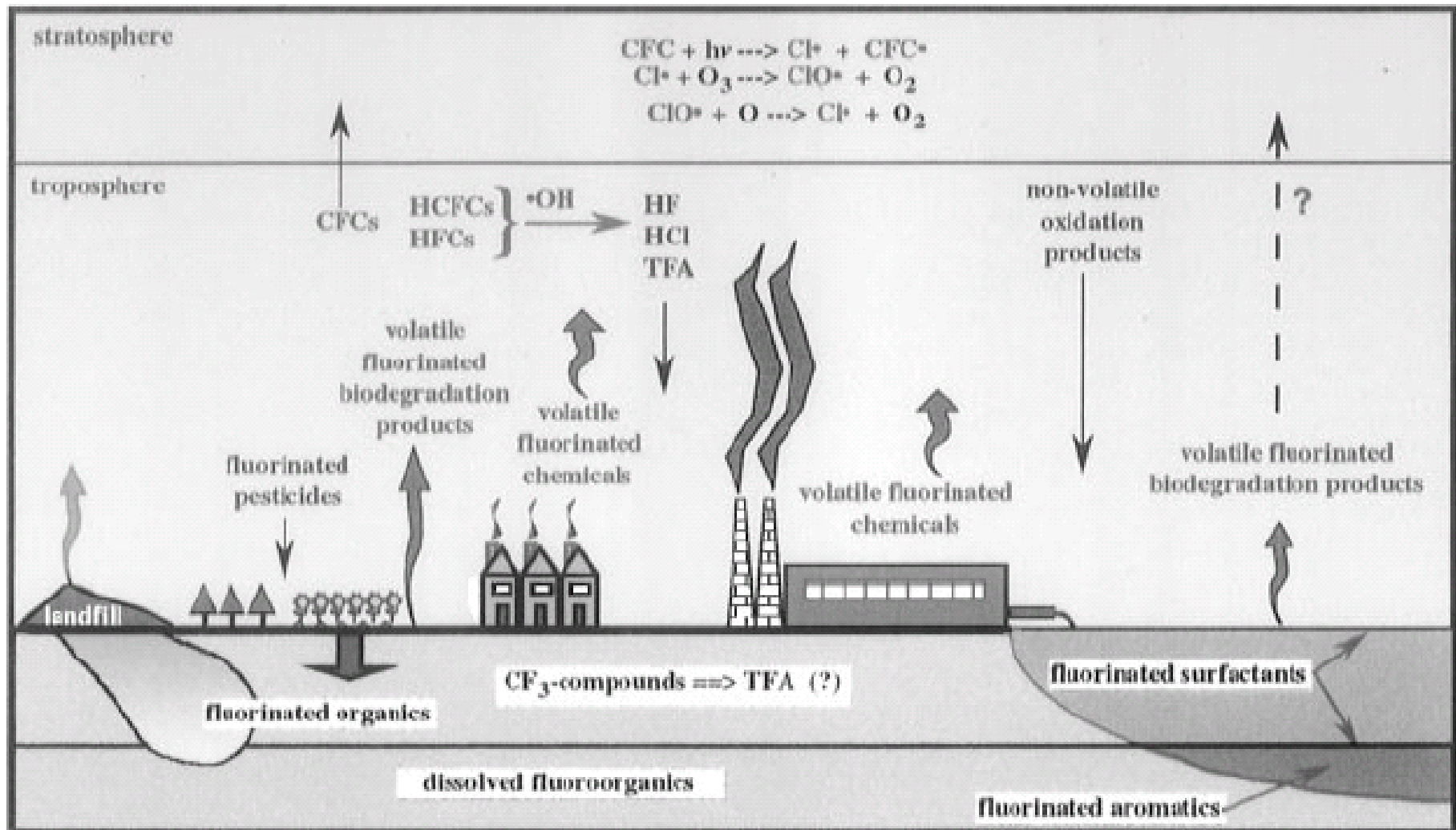


Implications of servicing on GHG emissions

- Range of values of TEWI/LCCP/LCWI ...
 - For refrigerant with GWP = 1700, rated COP = 2.9, $\text{kgCO}_2/\text{kWh} = 0.5$
 - Refrigerant responsible for 10 – 50% of TEWI

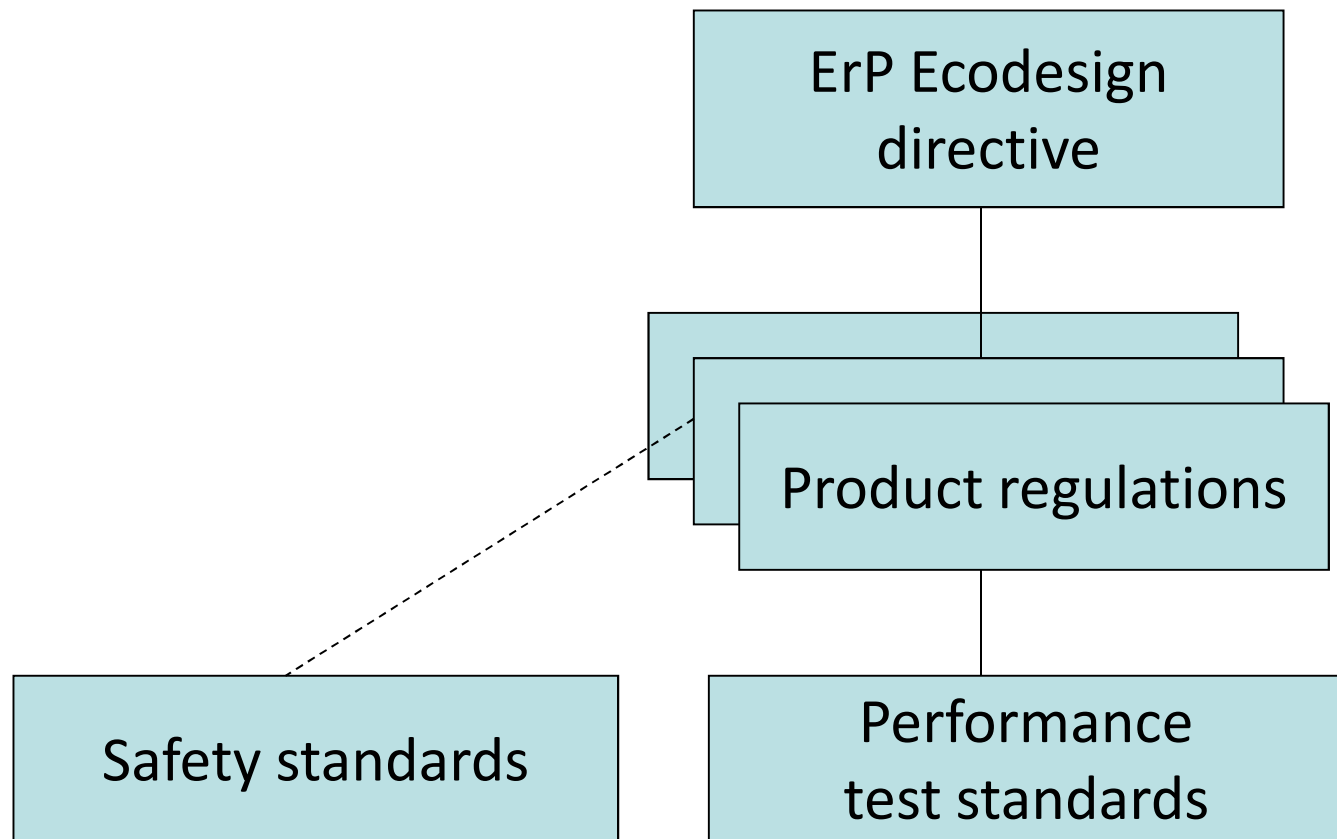


Not forgetting other impacts of refrigerants



Linkages to standardisation

- Important to recognise that product regulations link to standards (directly or indirectly)



Final thoughts

- As efficiency improves, weighting of GWP becomes more significant
- In the analysis for ecodesign options, how well is the “real” situation accounted for?
- Do not see ecodesign process in isolation
 - Many interlinkages (especially with standards, other regs)
- Most benefit from air conditioning sectors
 - Few companies here are interested (mostly refrigeration)
- Massive potential for advantageous requirements for naturals... but it won't happen by itself
 - Need ambitious proposals

Session on ErP Ecodesign directive

- **Wilhelmus de Witt, DG Energy**, “Ecodesign: how does it work and how can it take into account refrigerants?”
- **Matthew Kestner, DG Energy**, “The approach towards refrigerants in existing and pending Ecodesign legislation”
- **Halvart Koeppen, UNEP DTIE**, “Review of policy measures and incentives for ozone- and climate-friendly technologies”
- **Stephane Ardit, European Environmental Bureau (EEB)** “Ecodesign and WEEE: opportunities to boost market penetration of low GWP refrigerants”
- **Q&A and workshop session**