

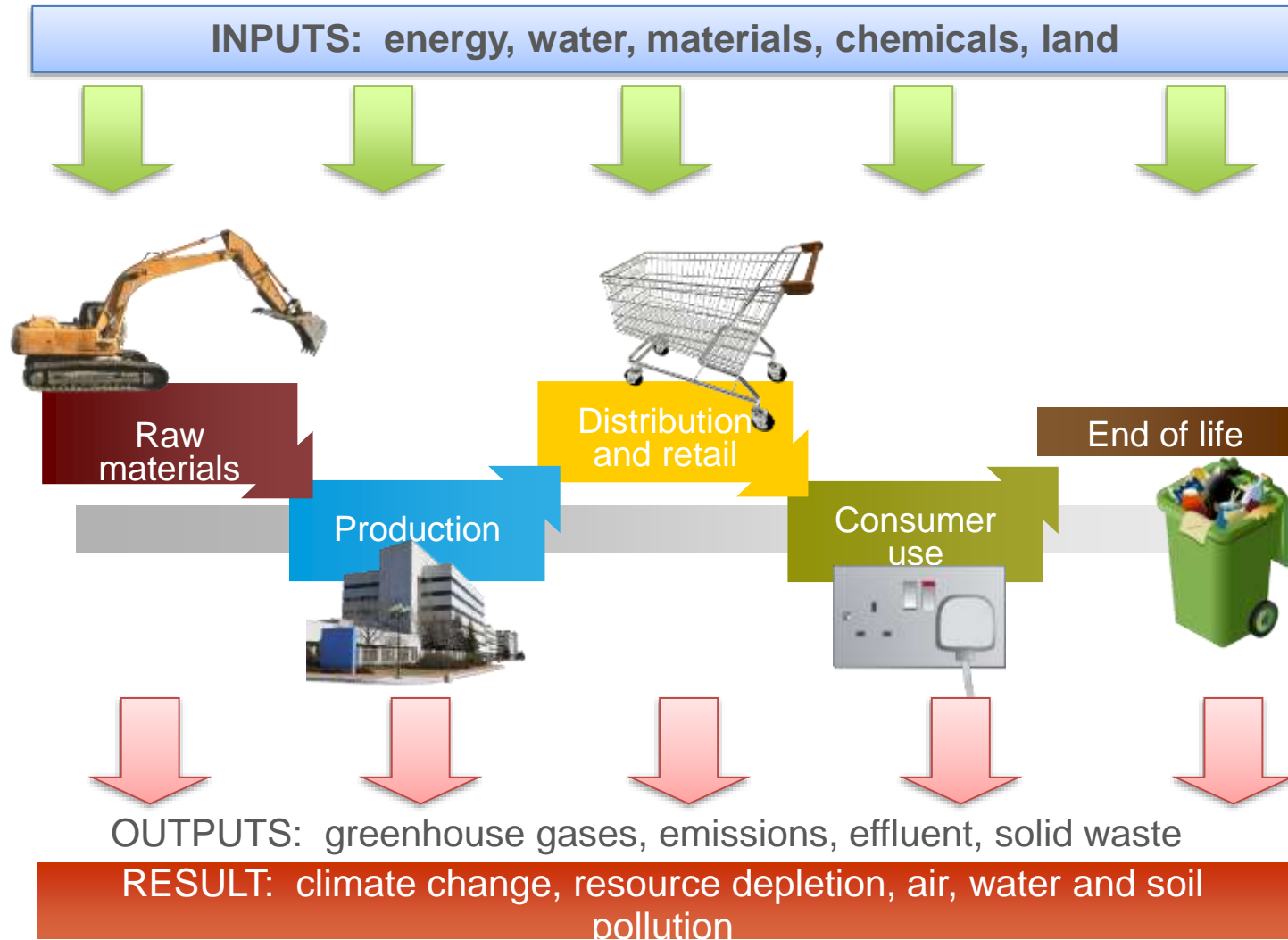
# Chemicals of concern

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Session 3 – looking across product sectors to track and manage chemicals of concerns. A thought starter

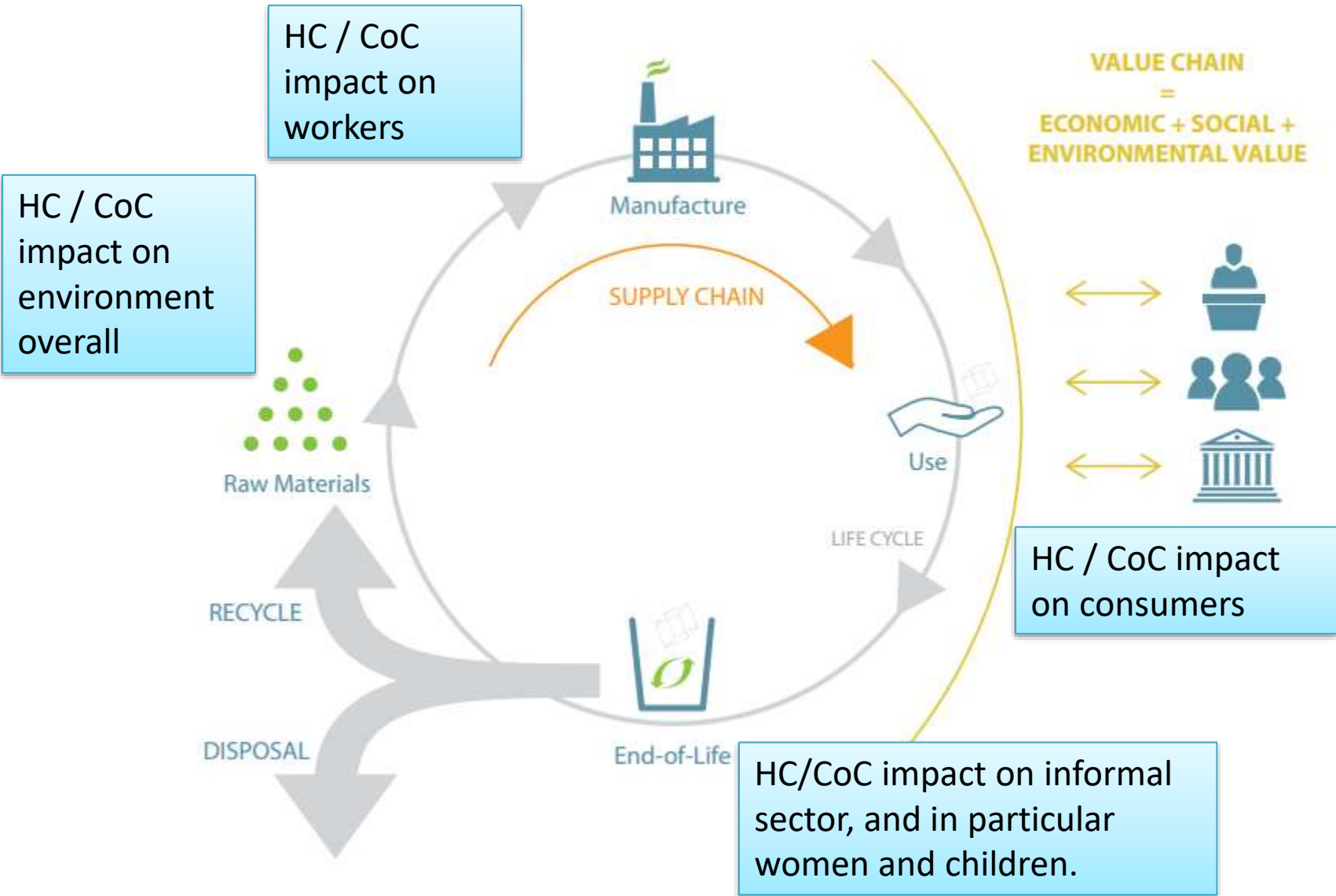
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# Lifecycle thinking



# A value chain approach for each sector

HC = Hazardous chemicals,  
CoC = Chemicals of concern



# Chemicals of Concern

**TABLE 1: CHEMICALS OF CONCERN WIDELY USED IN THE BUILDINGS, ELECTRONICS AND TOYS SECTORS**

Sector	International pollution reduction action already agreed (MEAs)	Scientific evidence exists to advance action	Emerging scientific evidence
Buildings	POPs - Brominated flame retardants – plastics, foams; PFOS – paints, textiles; HBCD – insulation; short chain chlorinated paraffins (SCCP) – coatings, paints, cables Asbestos (ILO Asbestos Convention 1986) Mercury – lighting and switches	Lead, VOCs and vinyl chloride – coatings Other heavy metals – cadmium PFCs – paints, textiles	Methylene Diphenyl Diisocyanates
Electronics	POPs - Brominated flame retardants – plastics, foams ; PFOS – paints, textiles; HBCD – insulation; SCPP – coatings, paints, cables Mercury – switches	Additional RoHS restricted chemicals - cadmium, hexavalent chromium and flame retardants such as PBB Lead batteries PFCs – paints, textiles	Phthalates (DEHP, BBP, DBP, DIBP) Restricted substances on individual electronics company lists
Toys	POPs such as Brominated flame retardants from recycled plastic and PFOS in textile toys	Lead (jewellery, paint and batteries) Cadmium in batteries Perfluorinated chemicals – paints, textiles	EDC in plastics: Phthalates and Bisphenol A Polycyclic aromatic hydrocarbons (PAHs)

# Sub-categories of focus:

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## Buildings:

- insulation materials,
- coatings,
- carpets,
- furniture
- lights?

Electronics: TBD

Toys: Plastics toys, Textiles Toys, Electronic toys....

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# Root causes and barriers to manage Chemicals of Concern

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- Lack of transparency in supply chains
- Lack of economic and market based incentives for producers to track and manage hazardous chemicals in their products and supply chains
- Lack of regulatory drivers for increased transparency
- Lack of quantitative sustainability assessment of hazardous chemicals and their alternatives, leading to 'regrettable substitutions'

# Discussion

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1. What are the criteria for selecting CoC?
2. What should be the products/material in focus, for each of the 3 sectors?
3. Which additional Chemicals of Concerns (CoCs) in the 3 sectors do we need to consider: Buildings, Electronics and Toys?
4. Are there identified alternative substances to the identified CoCs?
5. Are there alternative business models and value chains, that would soundly manage these chemicals of concern?

# Thank you

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