



Impacts of materials and their supply chains

Pre-lecture assignment

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1) List and write in the boxes below some of the products you have used/touched in the last 24 h, one box per product

Product
type 1

Product
type 2

Product
type 3

Product
type 4

Product
type 5

2) Categorize your group's products as low, moderate, or high carbon footprint, also grouping and labeling them by types of products

Carbon footprint:		Low	medium	high	very high
Product type 1		x	x	x	x
		x	x	x	x
Product type 2		x	x	x	x
		x	x	x	x
		x	x	x	x
Product type 3		x	x	x	x
		x	x	x	x
		x	x	x	x
Product type 4		x	x	x	x
		x	x	x	x
		x	x	x	x
Product type 5		x	x	x	x
		x	x	x	x

3) Select three products with very high impacts, list them in the boxes below

x1

x2

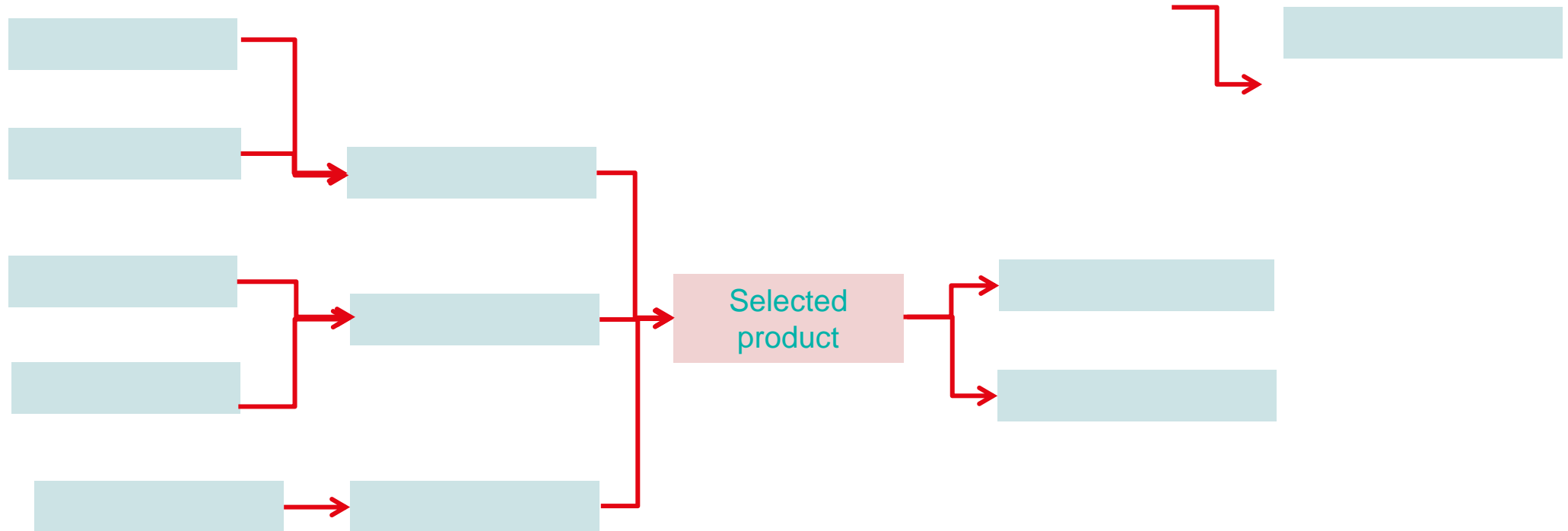
x3

- 3a) Indicate why you think they have very high impacts: x1 because, x2 because, x3 because
- 3b) List different environmental impacts (BEYOND CO₂e alone) these products contribute to:

Figure 3: Environmental impact categories considered for LCA.



4) Select one of these products with very high impacts you are interested in



List and write in the boxes below the main upstream products, materials, manufacturing process, energy use that was needed to produce them... as well as the downstream disposal processes required at their end of life