



Kiertotalouden murrokseen tarvitaan muutakin kuin matematiikkaa

Jussi-Pekka Teini, TEK





Me tekniikan takana

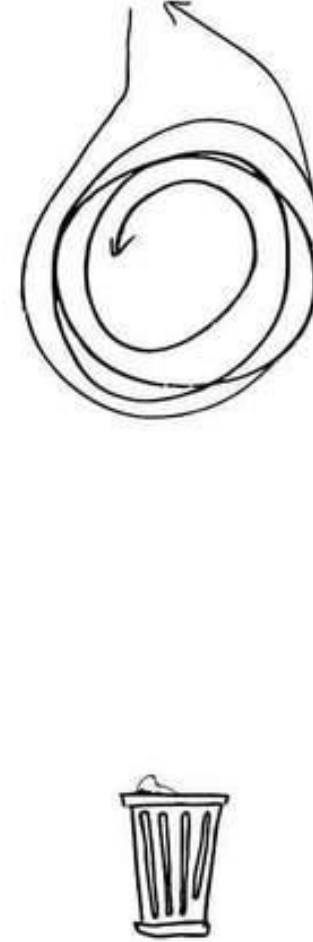
LINEAR ECONOMY



RECYCLING ECONOMY

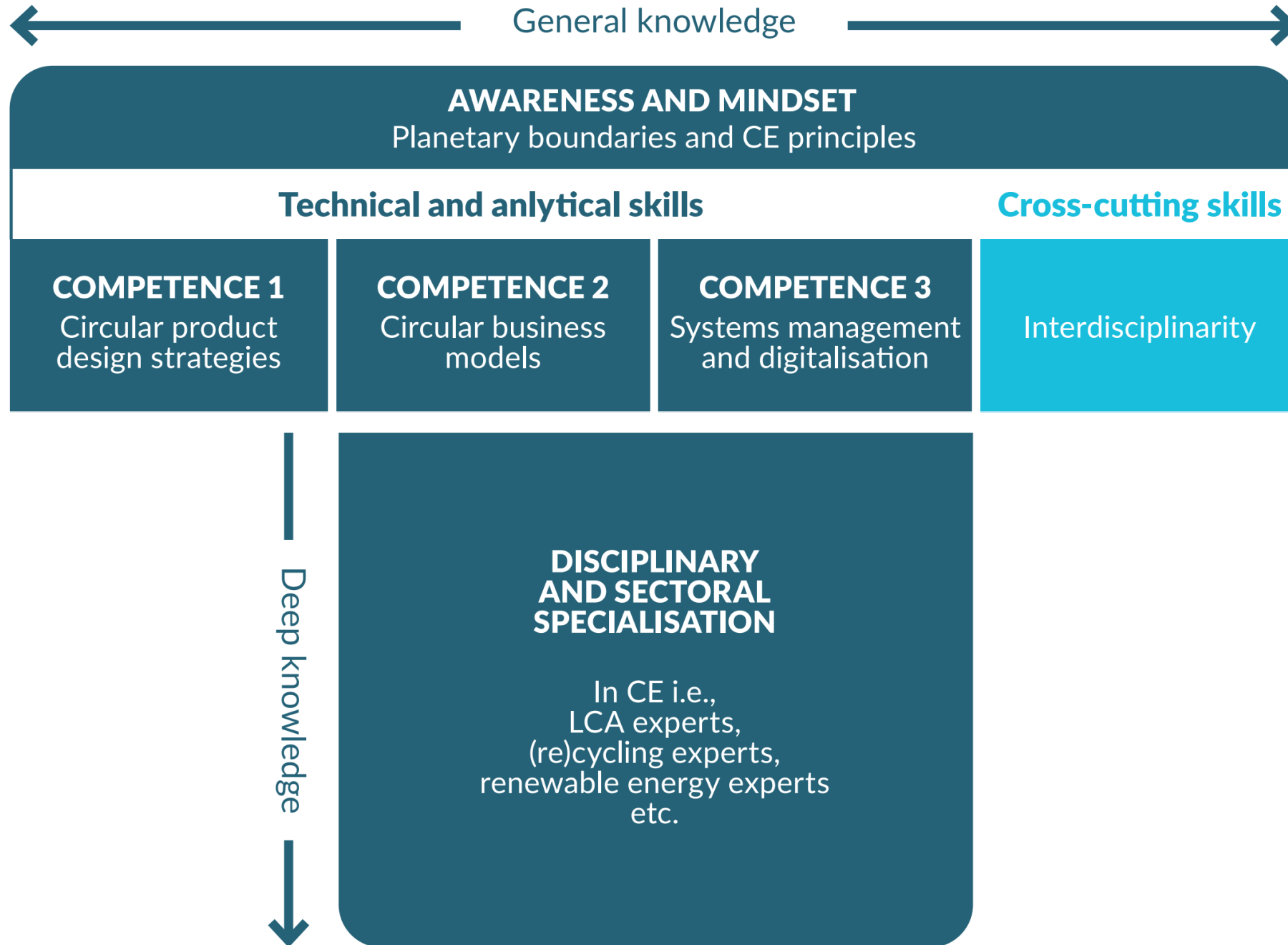


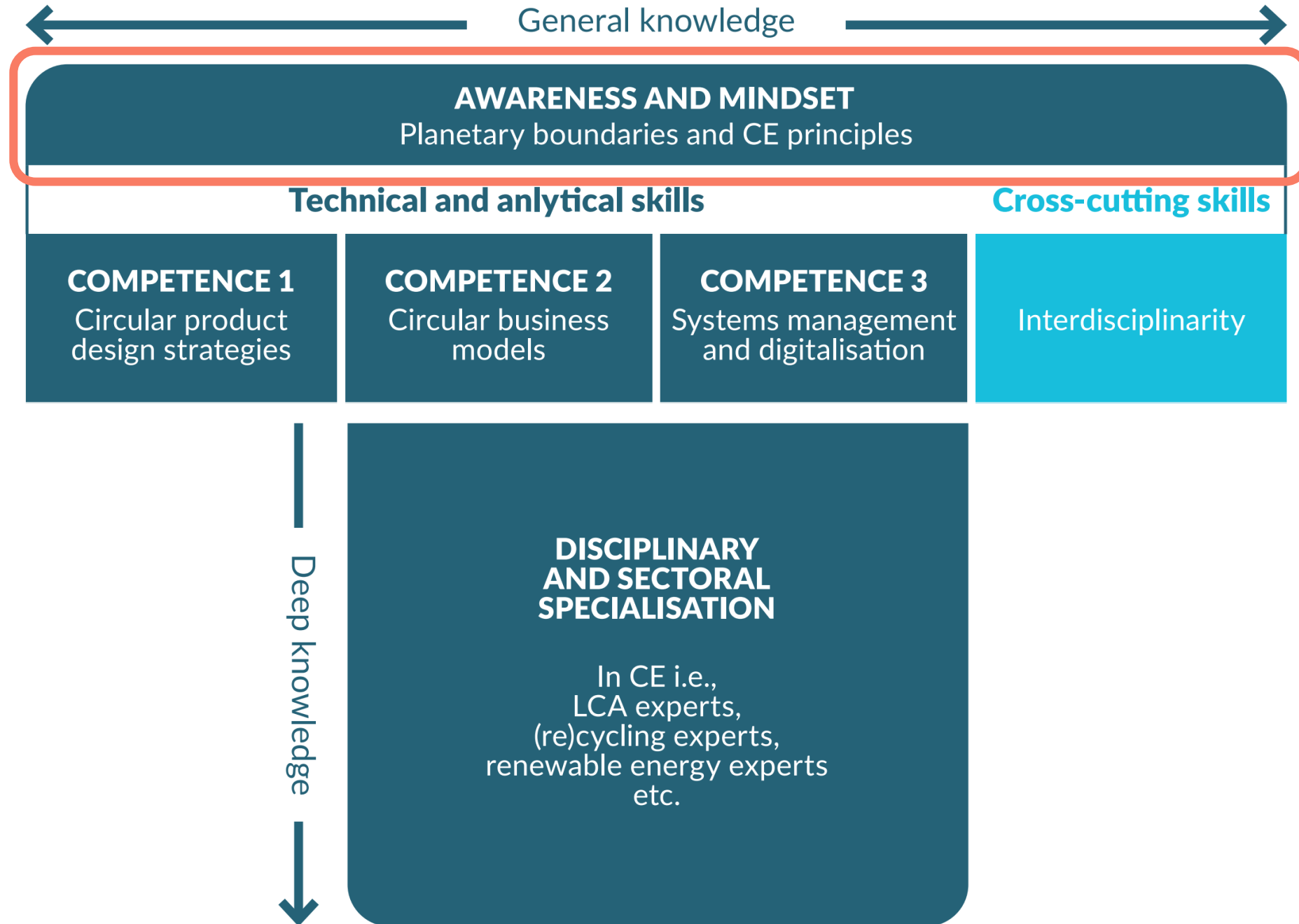
CIRCULAR ECONOMY

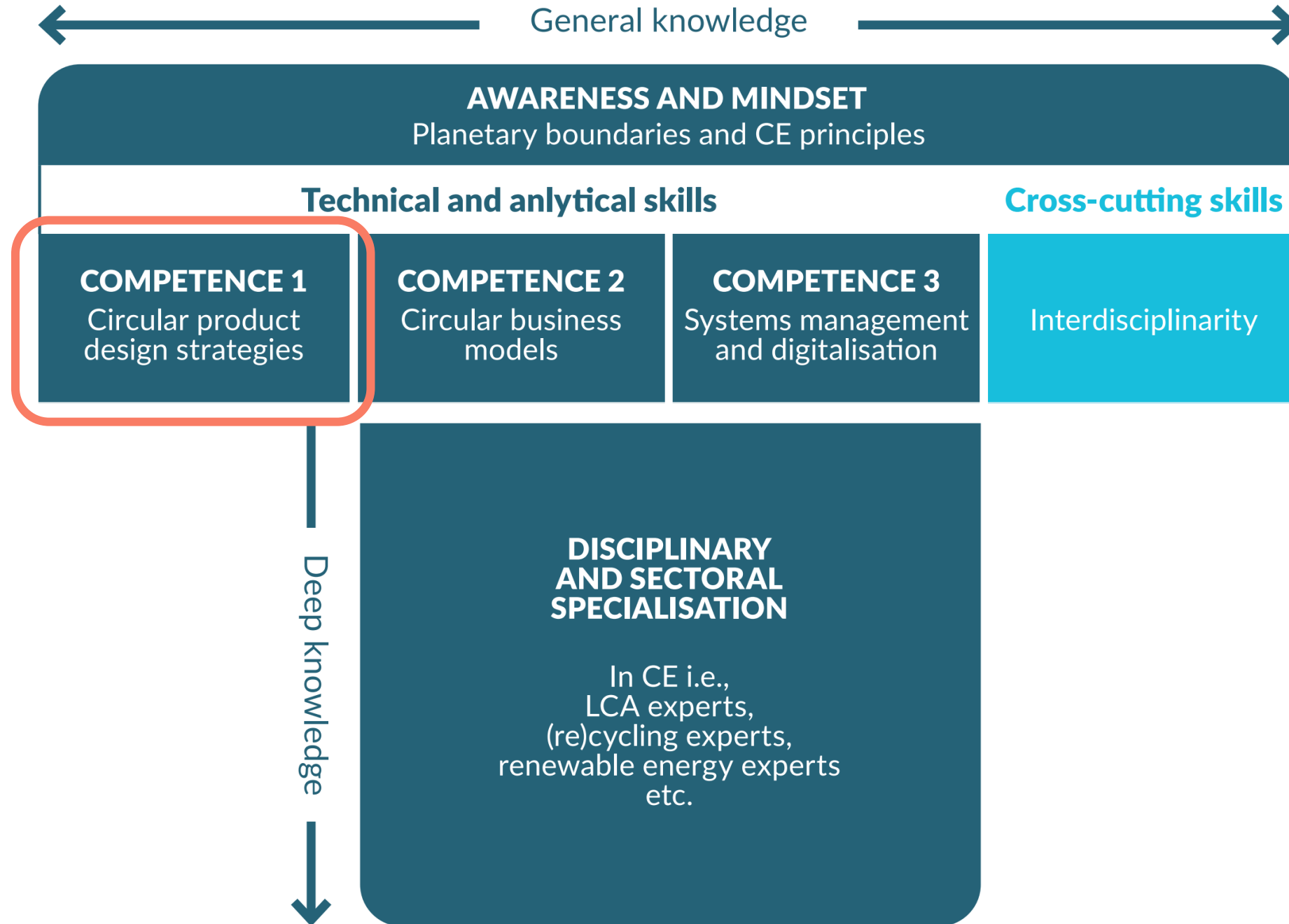


80 %





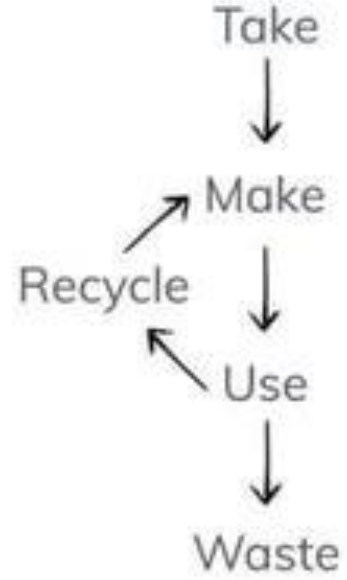




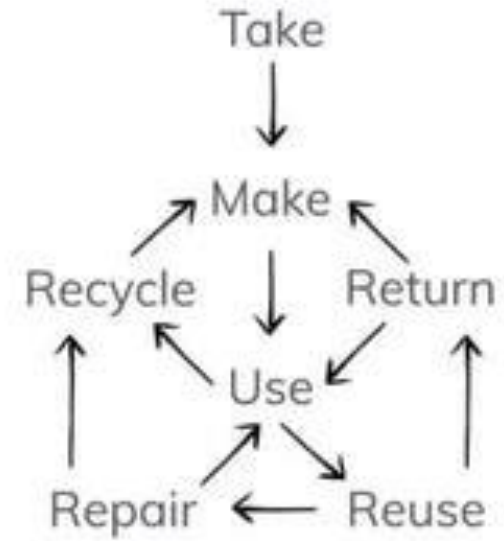
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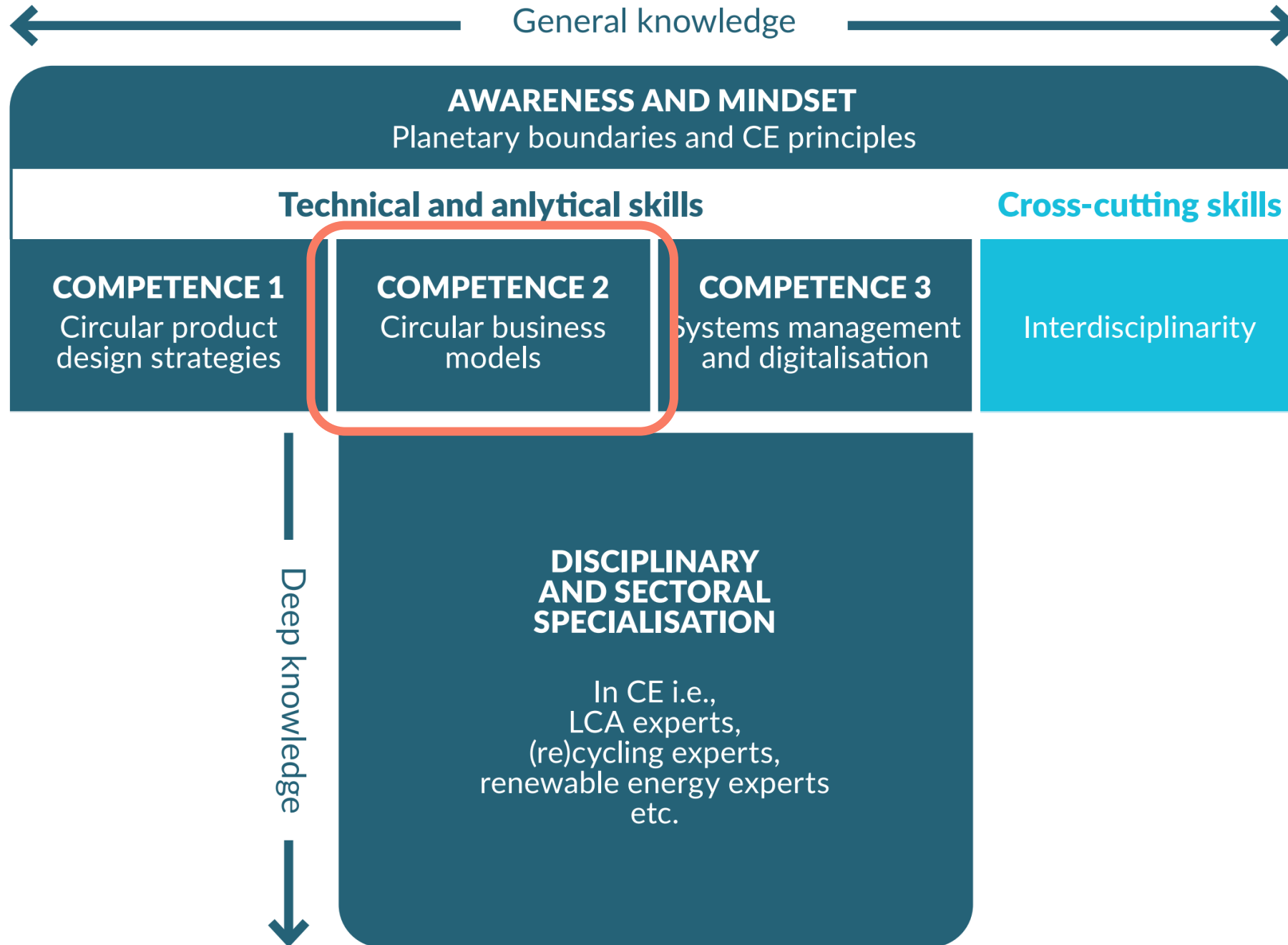


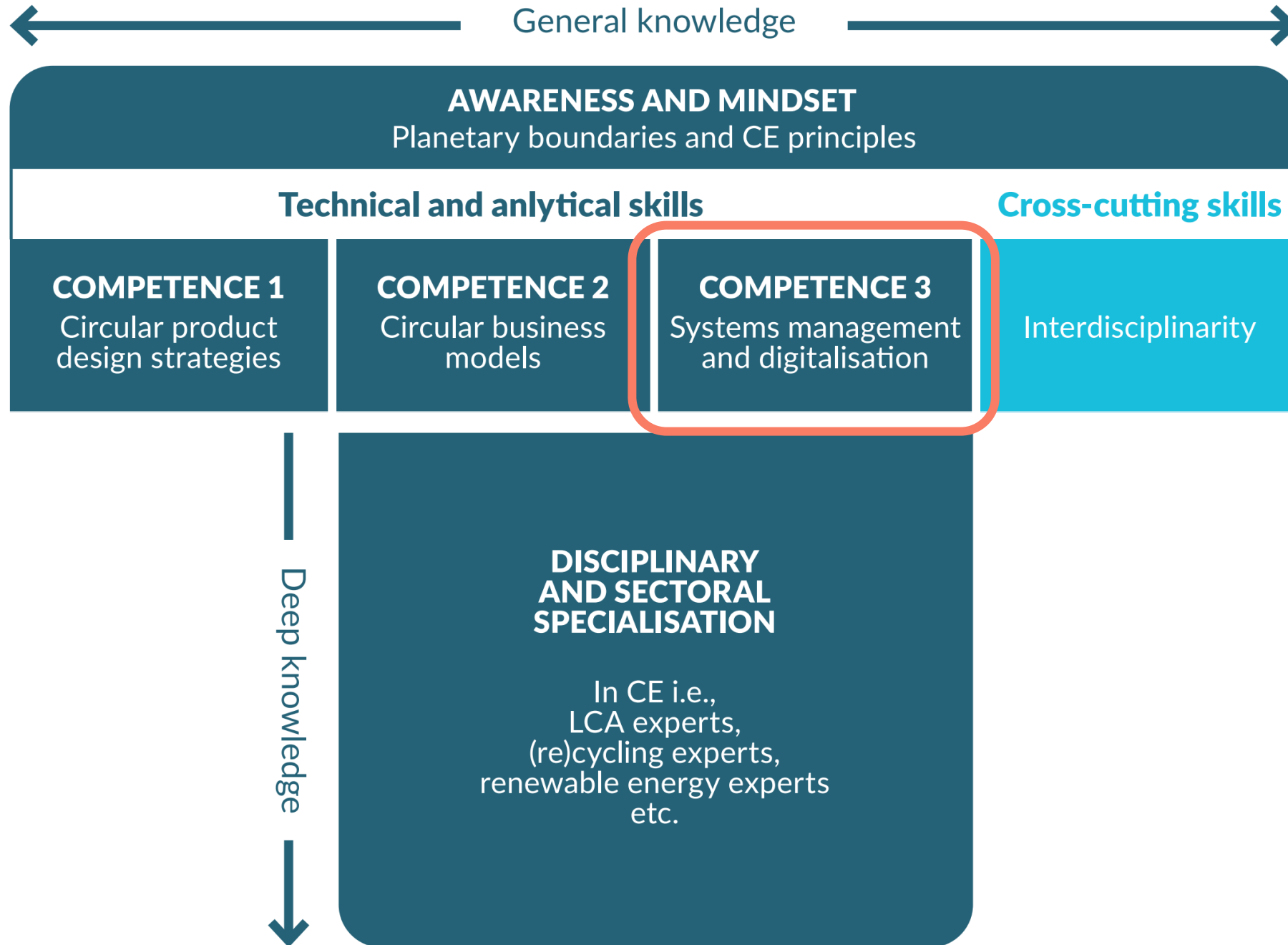
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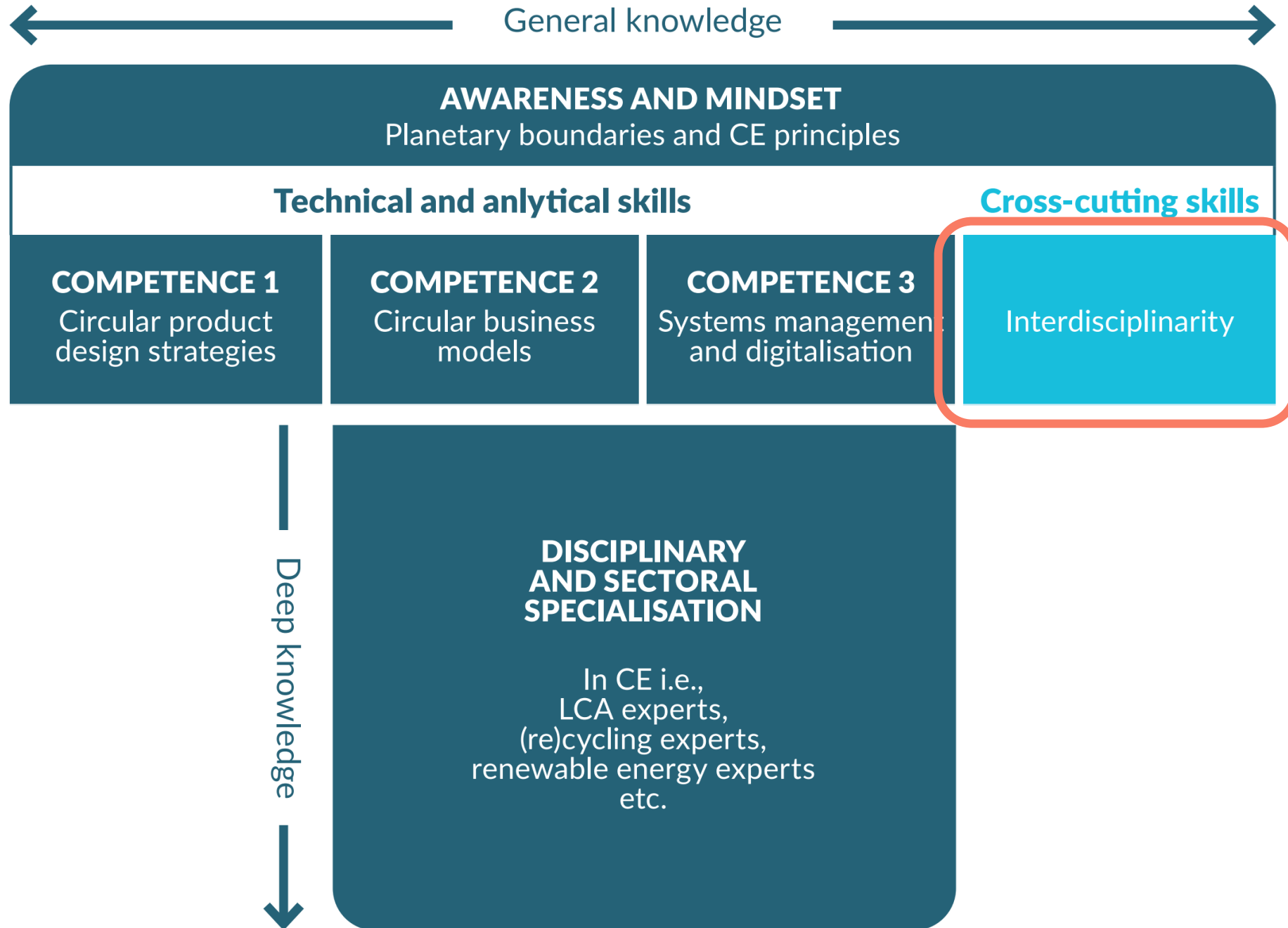


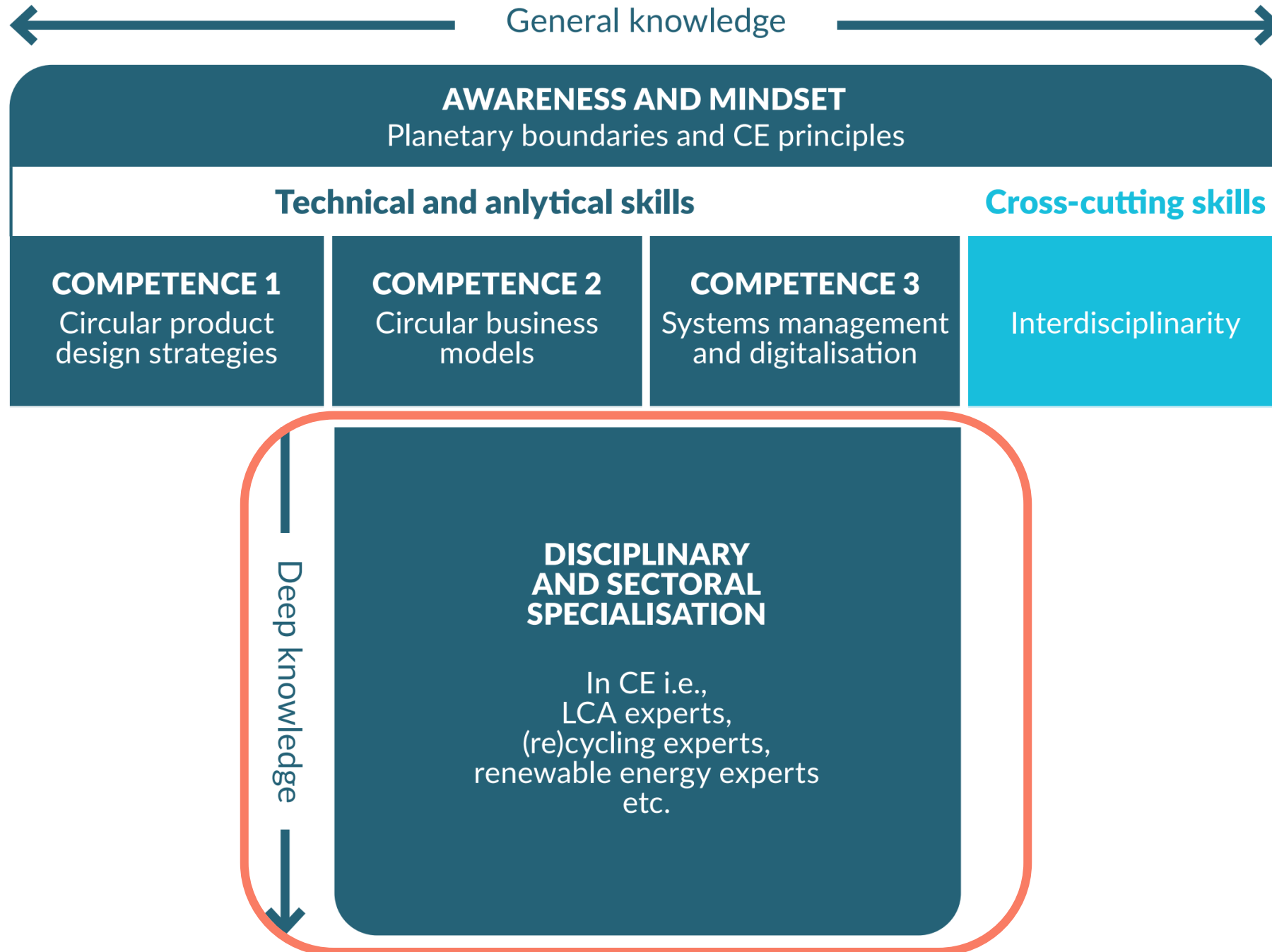
CIRCULAR ECONOMY











$$\frac{\partial \rho}{\partial t} + \frac{\partial (\rho u)}{\partial x} = 0$$

$$\frac{\partial u}{\partial t} + u \frac{\partial u}{\partial x} = -\frac{1}{\rho} \frac{\partial p}{\partial x}$$

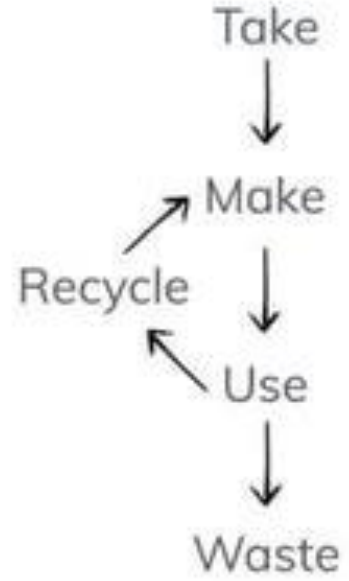
$$\frac{\partial}{\partial t} \left(\frac{p}{\rho} \right) + u \frac{\partial}{\partial x} \left(\frac{p}{\rho} \right)$$



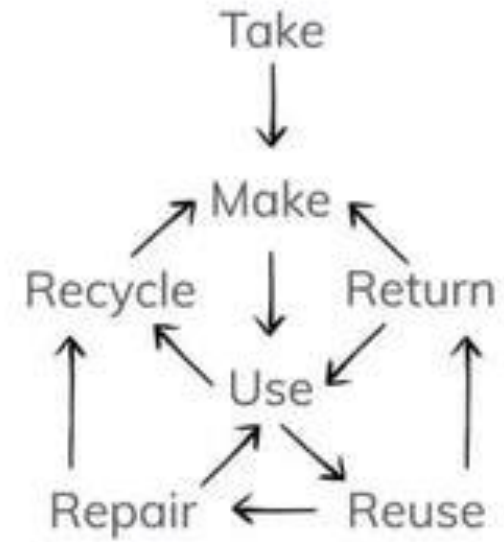
LINEAR ECONOMY



RECYCLING ECONOMY



CIRCULAR ECONOMY

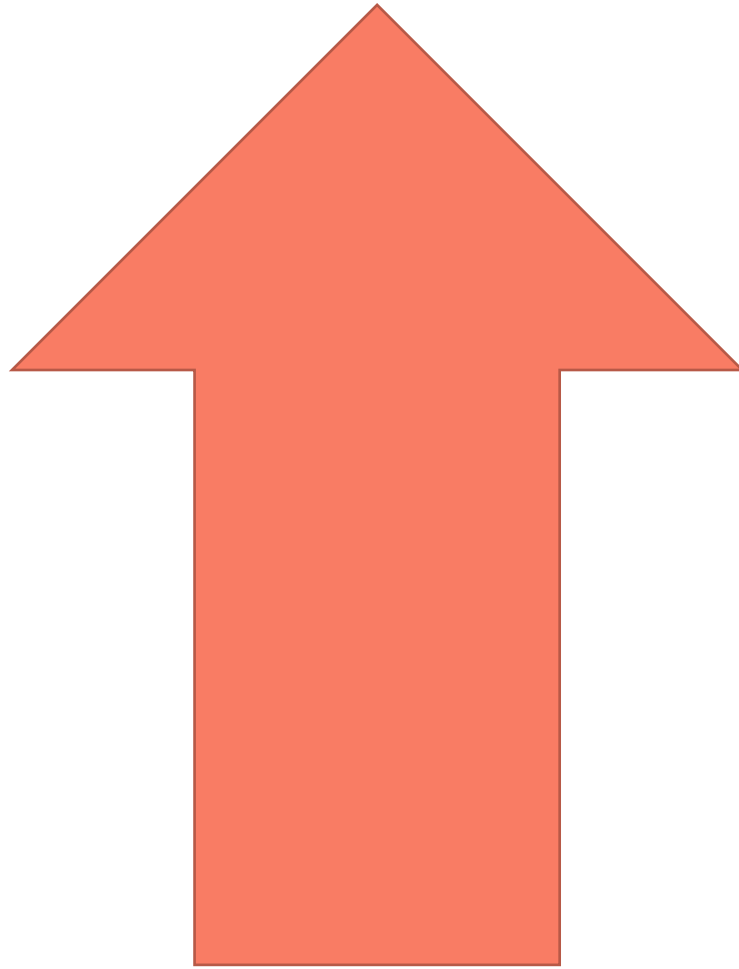
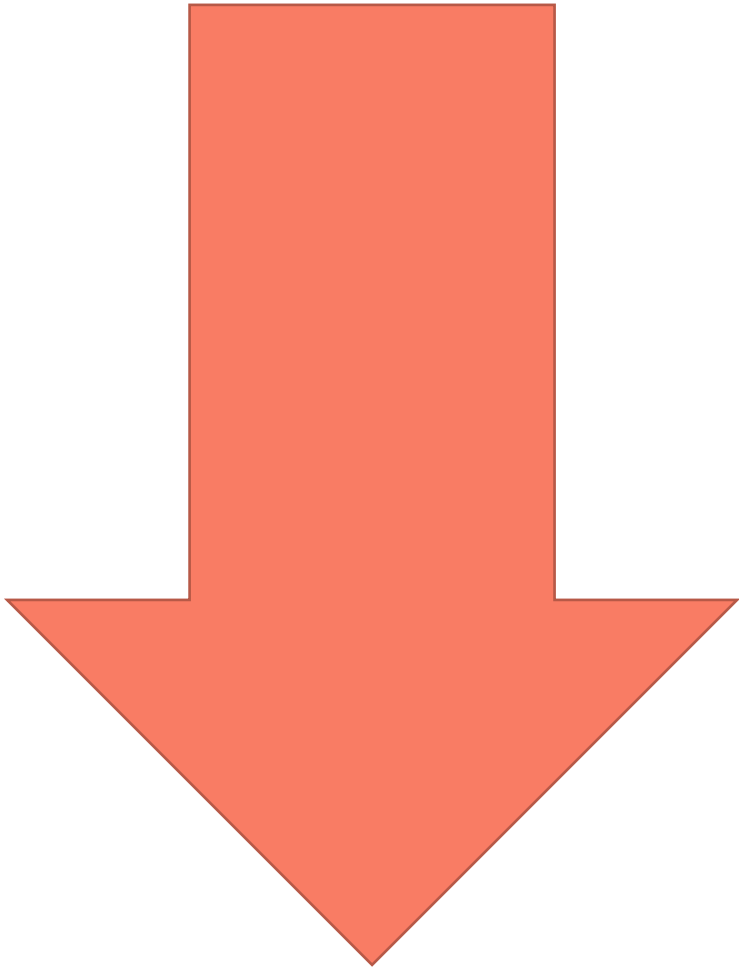












$$\begin{bmatrix} \sin \phi \\ 0 \\ \cos \phi \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 0 \end{bmatrix} =$$

Cross Product:

$$a \times b = c$$

$$a \perp c$$

$$\frac{m}{V} \cdot \frac{1}{V} \rightarrow \frac{1}{mV} \quad \frac{1}{mV} \cdot \frac{1}{T} = \frac{1}{T}$$