

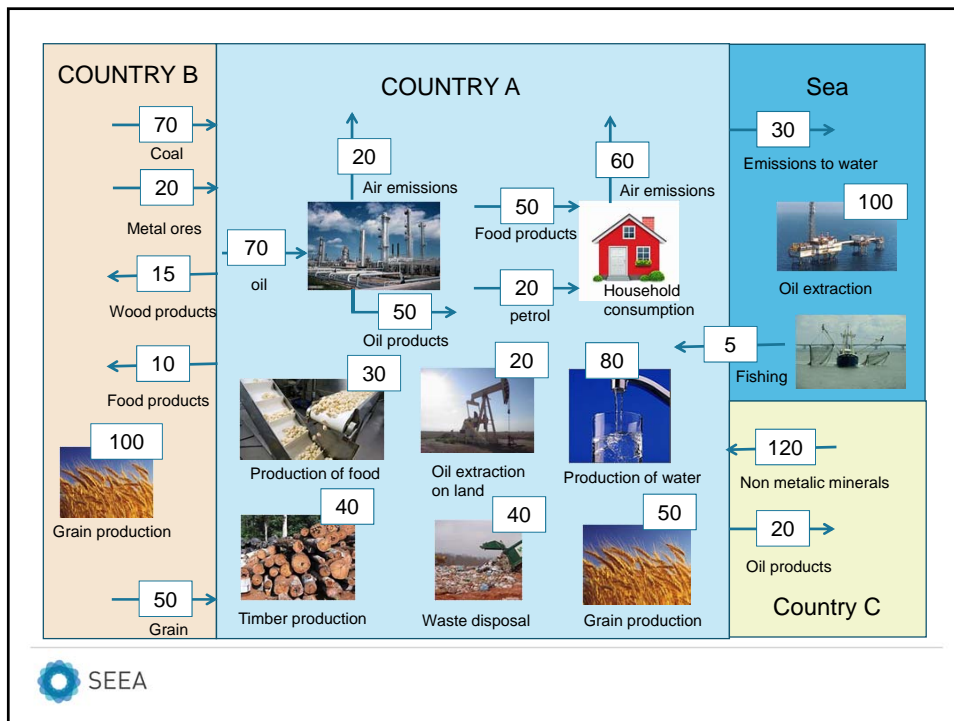
Exercise

Analyse the material flows for country A (see figure on next page):

- Fill the following table

	extraction	imports	exports
Biomass			
Fossil energy			
Metals ores			
Non-metallic minerals			
Total			

- Calculate for country A the following EW MFA indicators
 1. DMI (Direct Material Input)
 2. DMC (Direct Material Consumption)
 3. PBT (Physical Trade Balance)
 4. DPO (Domestic Processed Outputs)
 5. RP (Resource productivity)



Additional info

- All flows are in mln kg
- All activities on sea belong to country A
- GDP of country A is 5 billion euro



Solution

	extraction	imports	exports	
Biomass	95		50	25
Fossil energy	120		70	20
Metals ores			20	
Non-metallic minerals			120	
Total	215		260	45

1. **DMI** (Direct Material Input) = $215+260=475$ million kg
2. **DMC** (Direct Material Consumption) = $475-45 = 430$ million kg
3. **PBT** (Physical Trade Balance) = $260-45 = 215$ million kg
4. **DPO** (Domestic Processed Outputs) = $20+30+40+60 = 150$ million kg
5. **RP** (resource productivity) = $5000 \text{ million euro} / 430 \text{ million kg} = 11,6 \text{ euro/kg}$