

Decarbonising the generic medicines sector

Michael Clarke



MedicinesUK[®]

➤ What is Medicines UK?

- Industry association representing the off-patent sector
- Represents 85% of the sector
- Some of the biggest pharmaceutical companies you have never heard of
- 40 smaller companies

SANDOZ

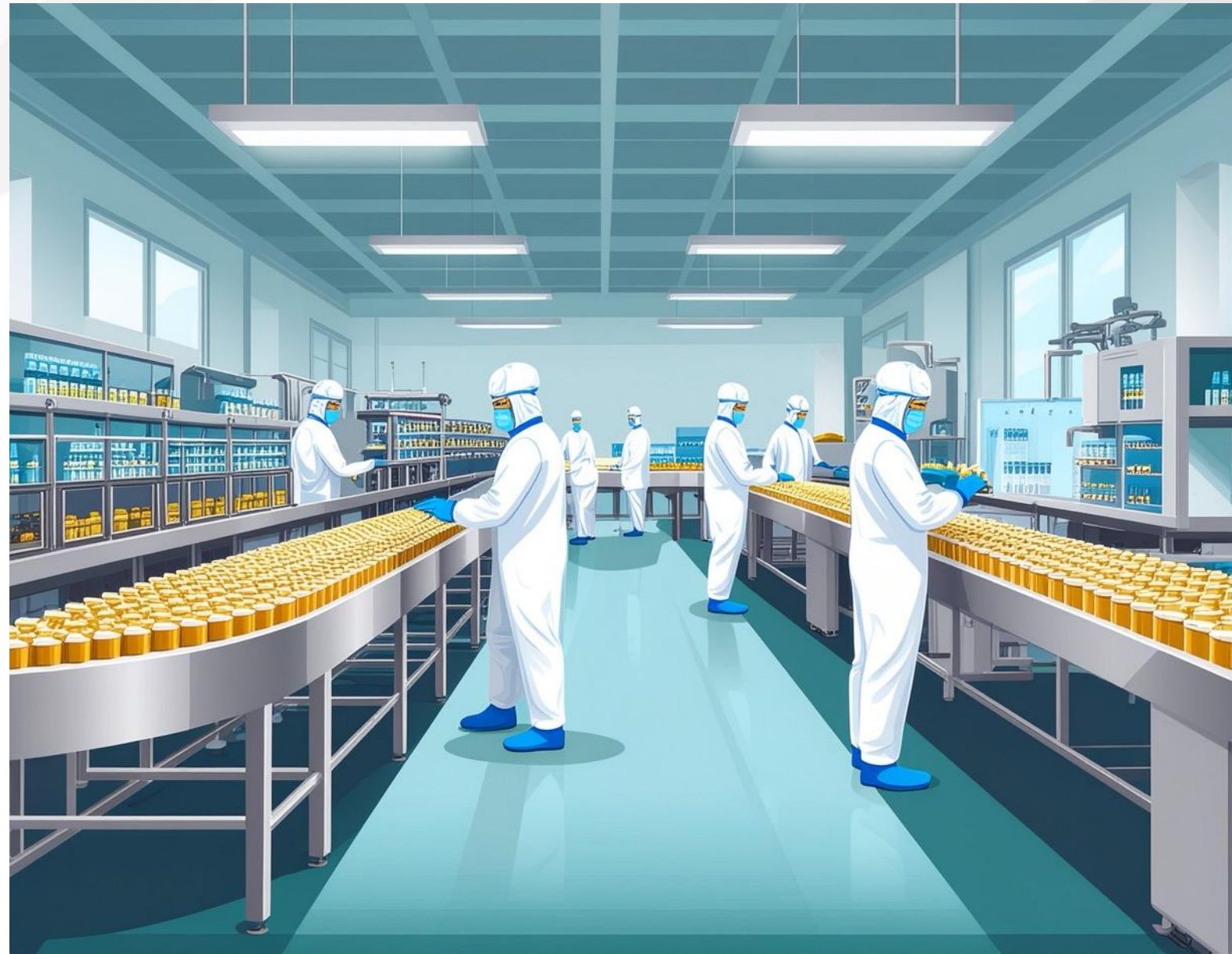


ZeNTIVA

teva

➤ Off-patent sector

- A new medicine developer gets exclusive rights for approx. 20 years
- 10 years of development, testing, approvals
- 10 years of exclusive sales
- Then other companies can copy the drug and sell it



➤ Product range

- Long-established oral solid doses
- Paracetamol, antibiotics



➤ Product range

- Newer, complex hospital-administered infusions (biosimilars) to treat:
 - Cancer
 - Auto-immune conditions
 - etc



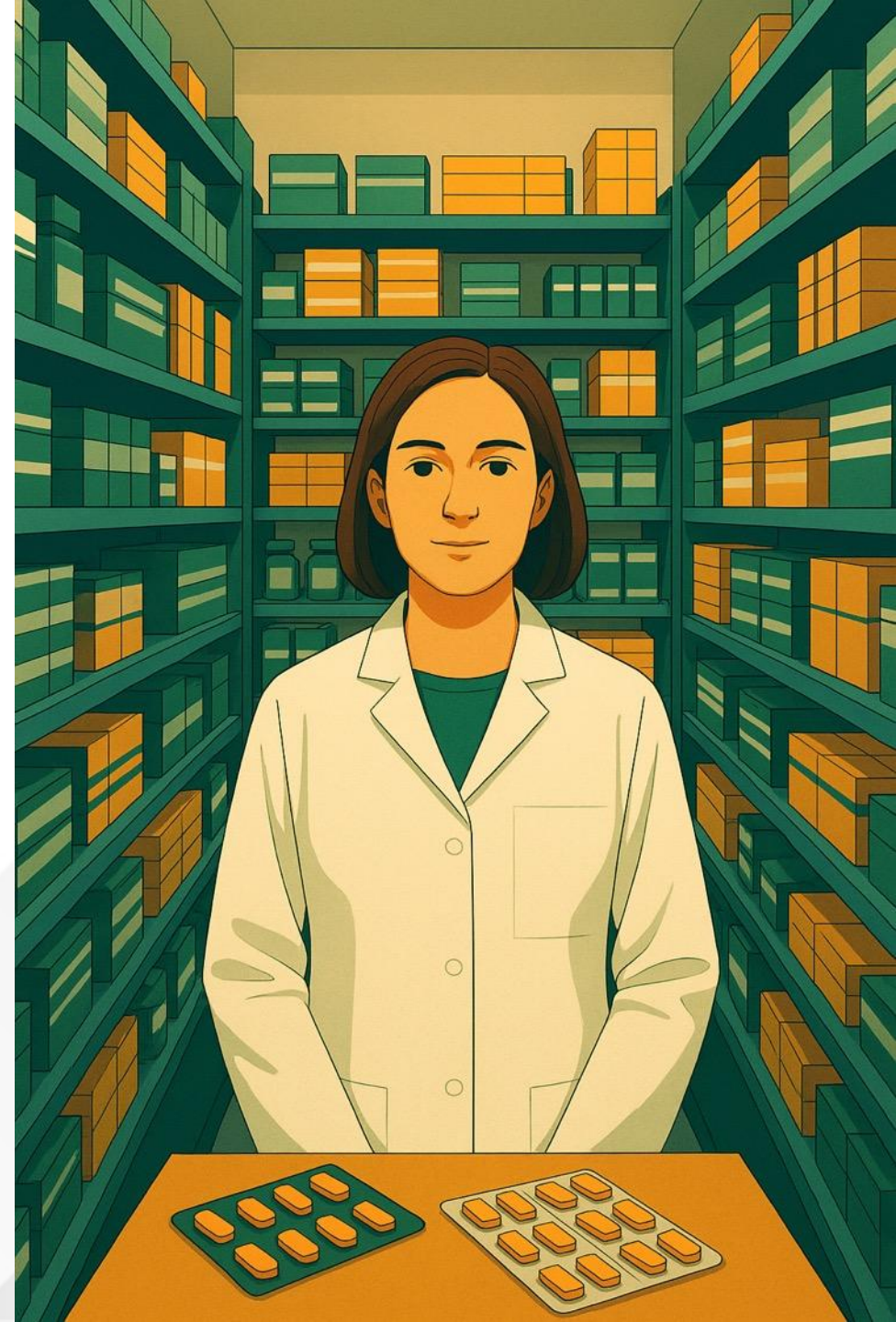
➤ Key characteristics of generics

➤ High volumes

80% of all medicines used in NHS

2 billion prescription packs a year

➤ More over-the-counter



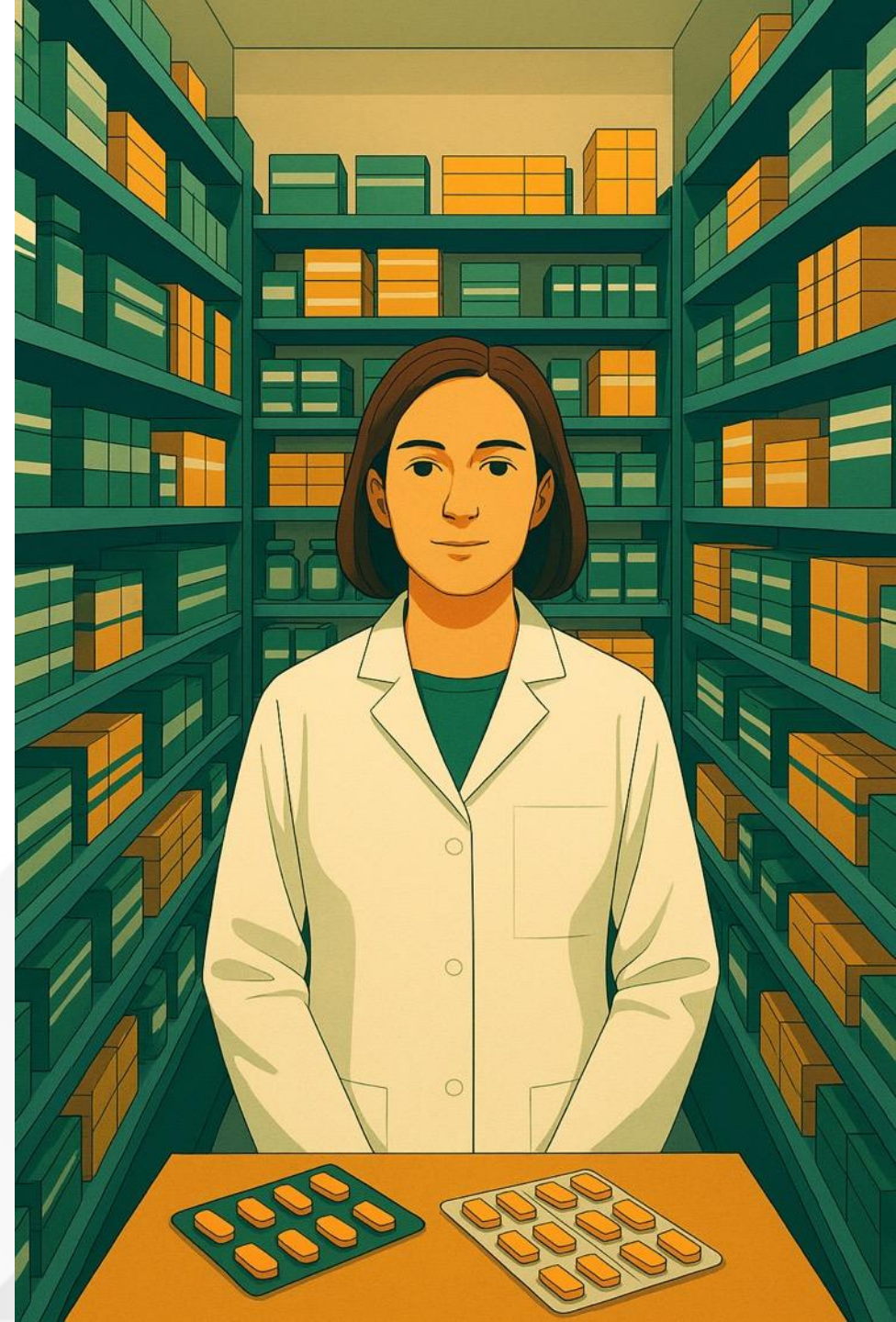
➤ Key characteristics of generics

➤ Low cost

80% less than original on average

800m packs a month at **80p**

Paracetamol **1p** per pill



➤ Key characteristics of generics

➤ Prices stable or falling

Antibiotics prices fell **10%** in past 4 years

Amoxicillin prices fell **20%**

Inflation rate **23%**,

producer costs up **32%**



 A vital sector, under economic pressure

2020-2024 across Europe

240 antibiotics withdrawn

385 shortages reported

Perspective

-  UK medicines carbon footprint (inc. on patent medicines):

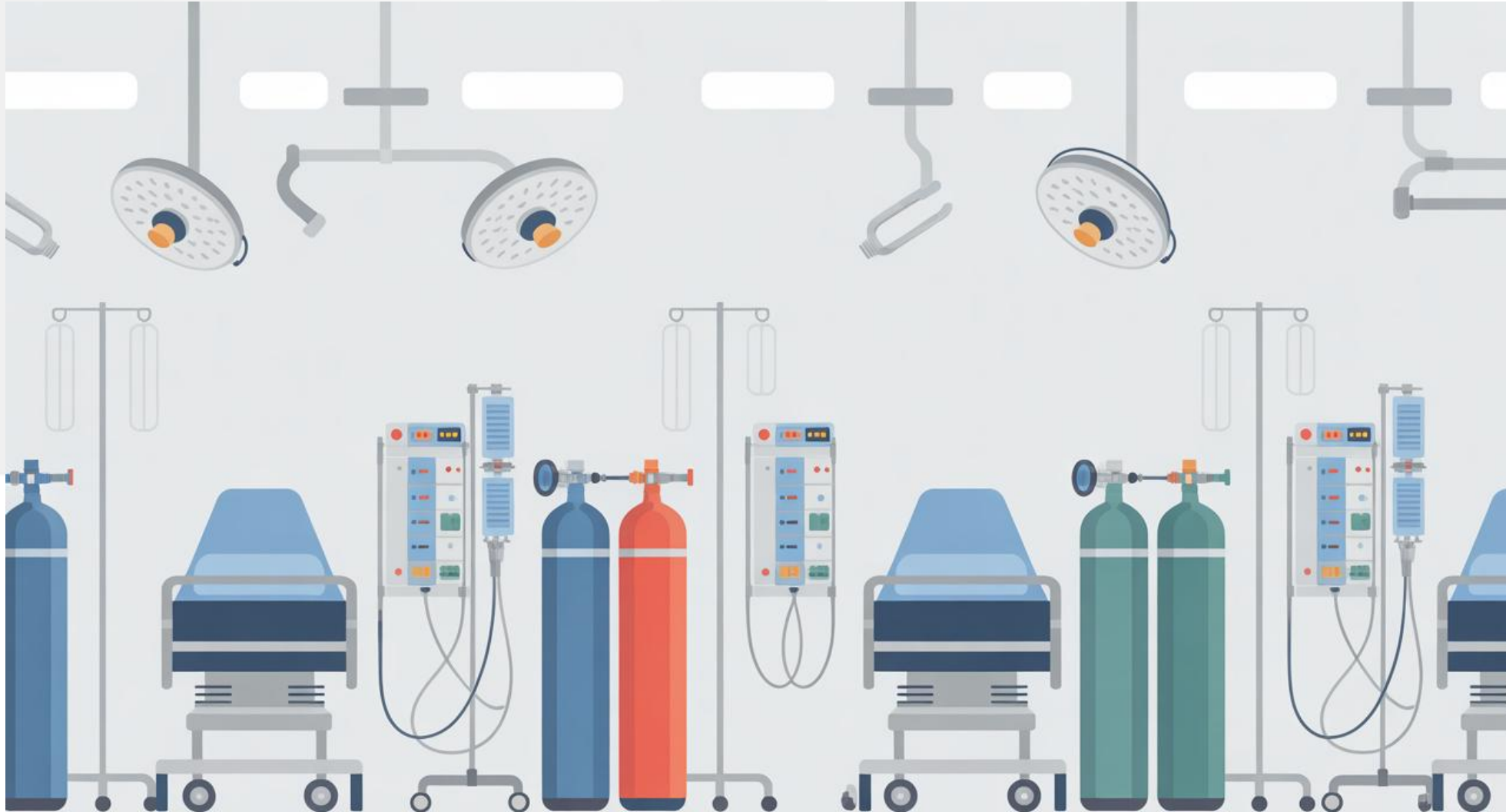
4-10 Mt CO₂e pa

0.01 to 0.02%
of global emissions

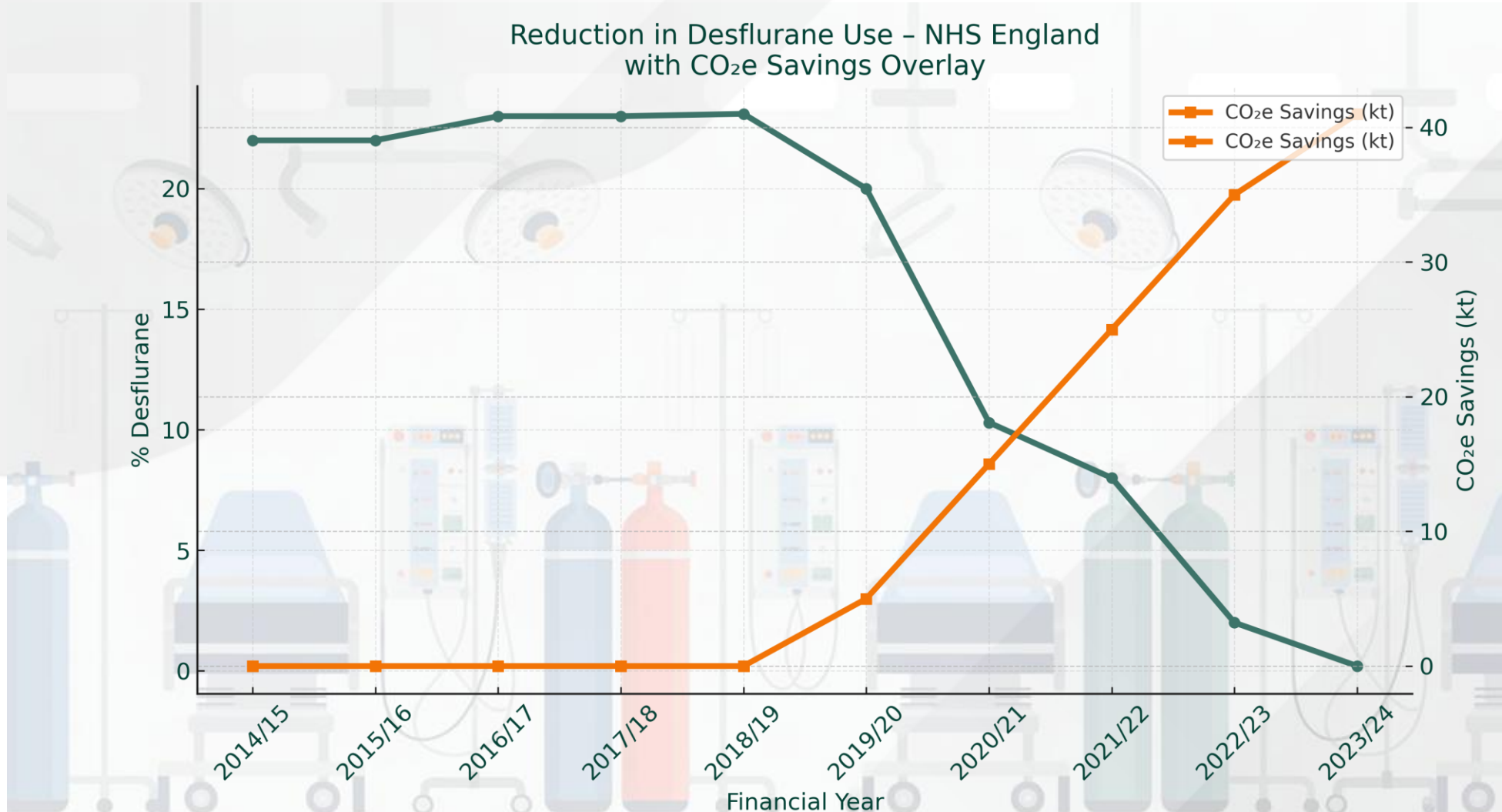
Equivalent to Jamaica's emissions



➤ What are we doing to decarbonize?



What are we doing to decarbonize?



➤ What are we doing to decarbonize?

SANDOZ

90%

of European electricity
from solar site in Spain



➤ What are we doing to decarbonize?

ZENTIVA

100%

of European electricity
in manufacturing sites is
renewable



➤ What are we doing to decarbonize?



100%

of electricity in
manufacturing sites in
Ireland and Germany is
renewable



➤ What are we doing to decarbonize?

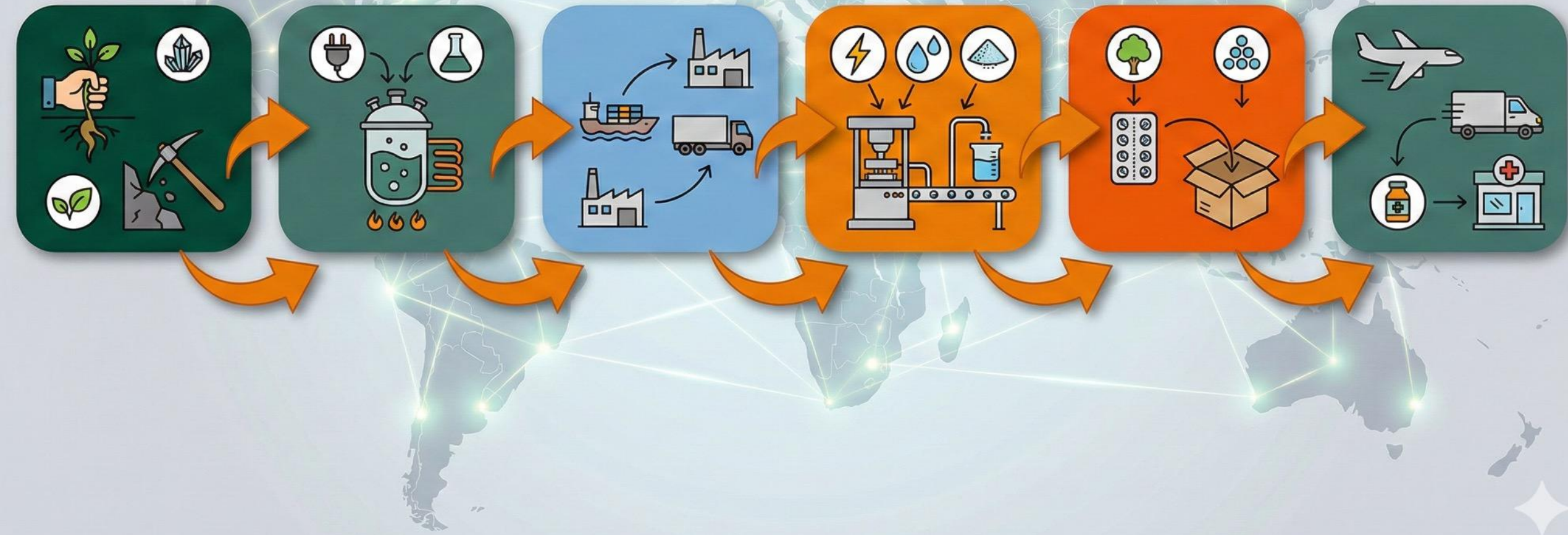
accord
We make it better

100%

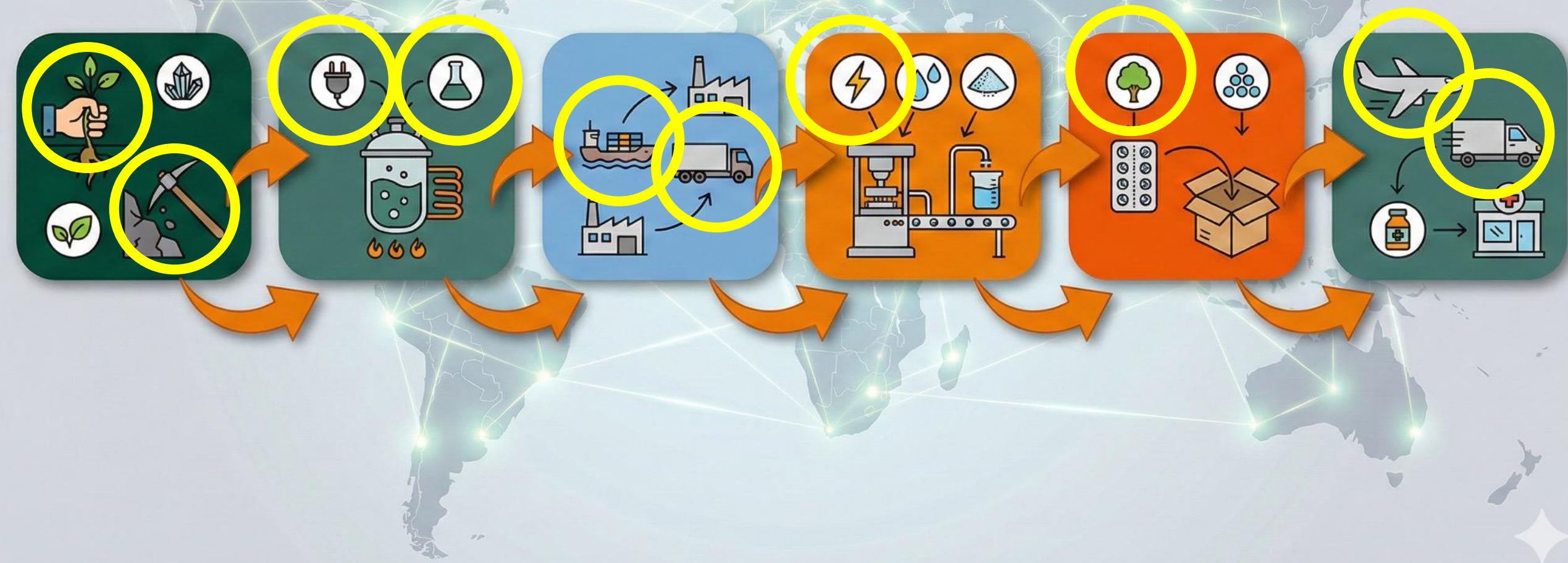
of electricity in UK
manufacturing sites is
renewable



The challenges of a complex global supply chain



Scope 3 Emissions Reporting



Life Cycle Assessments

