Sustainable energy webinar, UNITAR, 28th September 2021

Baselines, targets and roadmaps for decarbonization in humanitarian settings
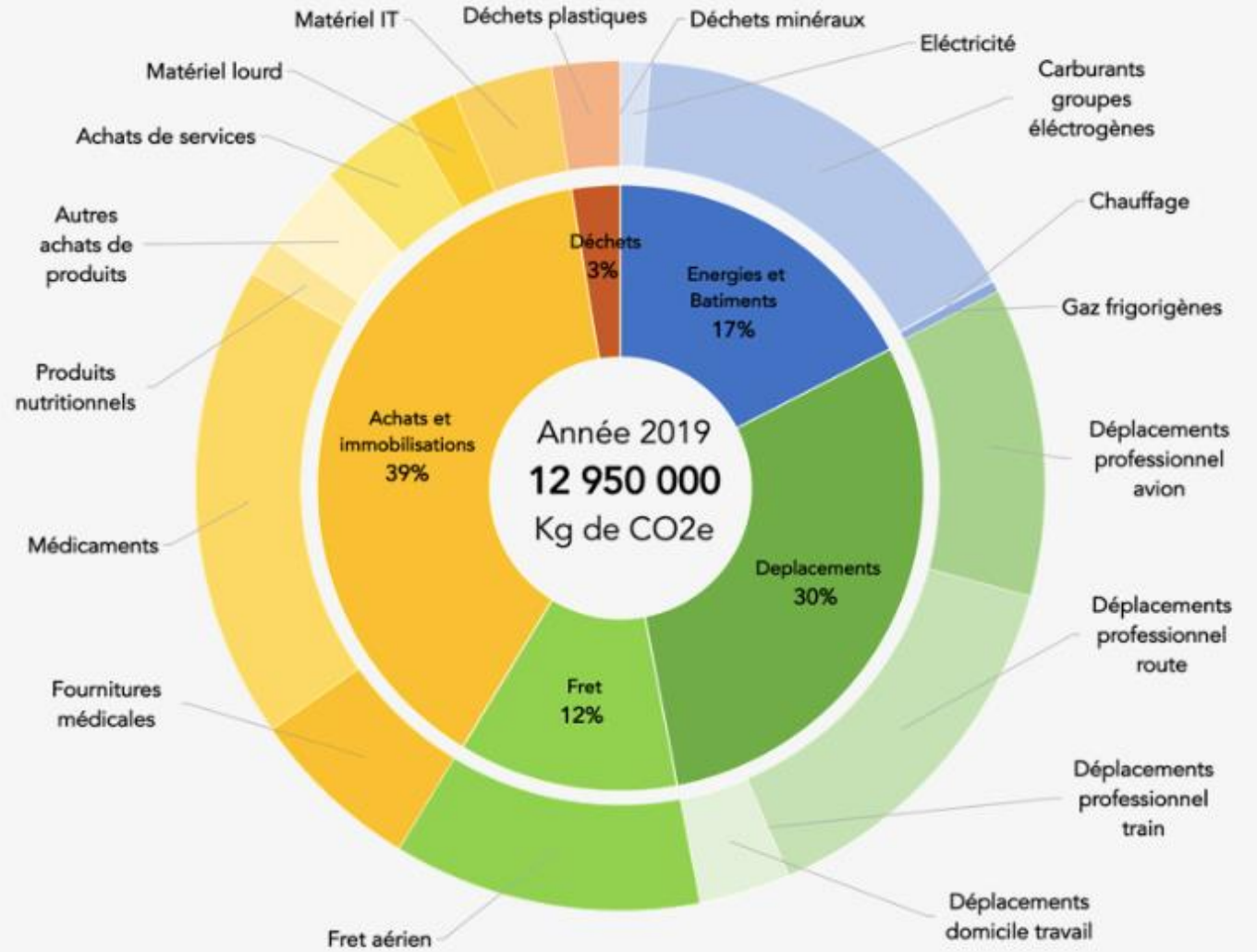
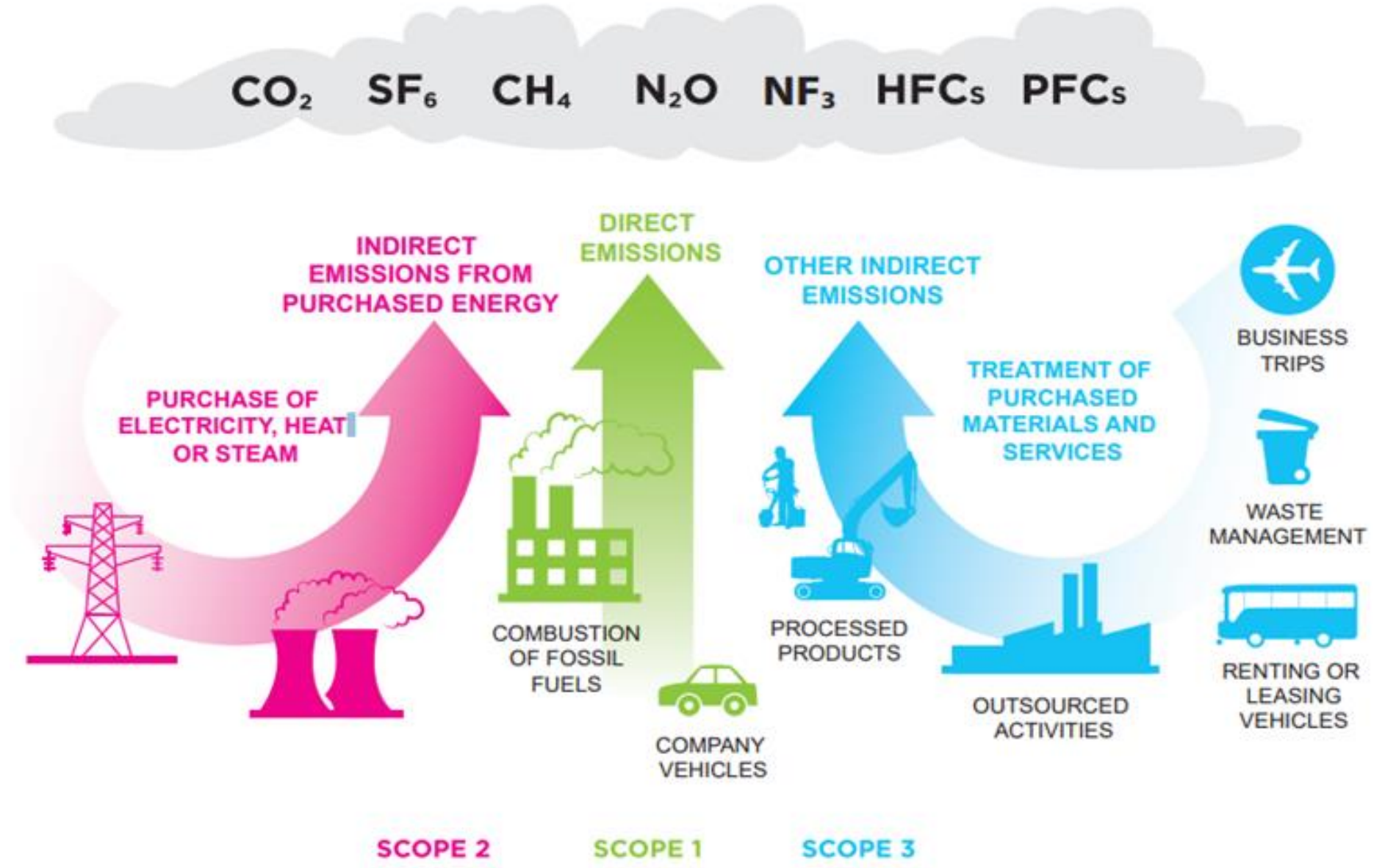THE CLIMATE ACTION
ACCELERATOR

CO_2 SF_6 CH_4 N_2O NF_3 HFCs PFCs

INDIRECT EMISSIONS FROM PURCHASED ENERGY

DIRECT EMISSIONS

OTHER INDIRECT EMISSIONS

PURCHASE OF ELECTRICITY, HEAT OR STEAM

TREATMENT OF PURCHASED MATERIALS AND SERVICES

BUSINESS TRIPS

COMBUSTION OF FOSSIL FUELS

PROCESSED PRODUCTS

WASTE MANAGEMENT

COMPANY VEHICLES

OUTSOURCED ACTIVITIES

RENTING OR LEASING VEHICLES

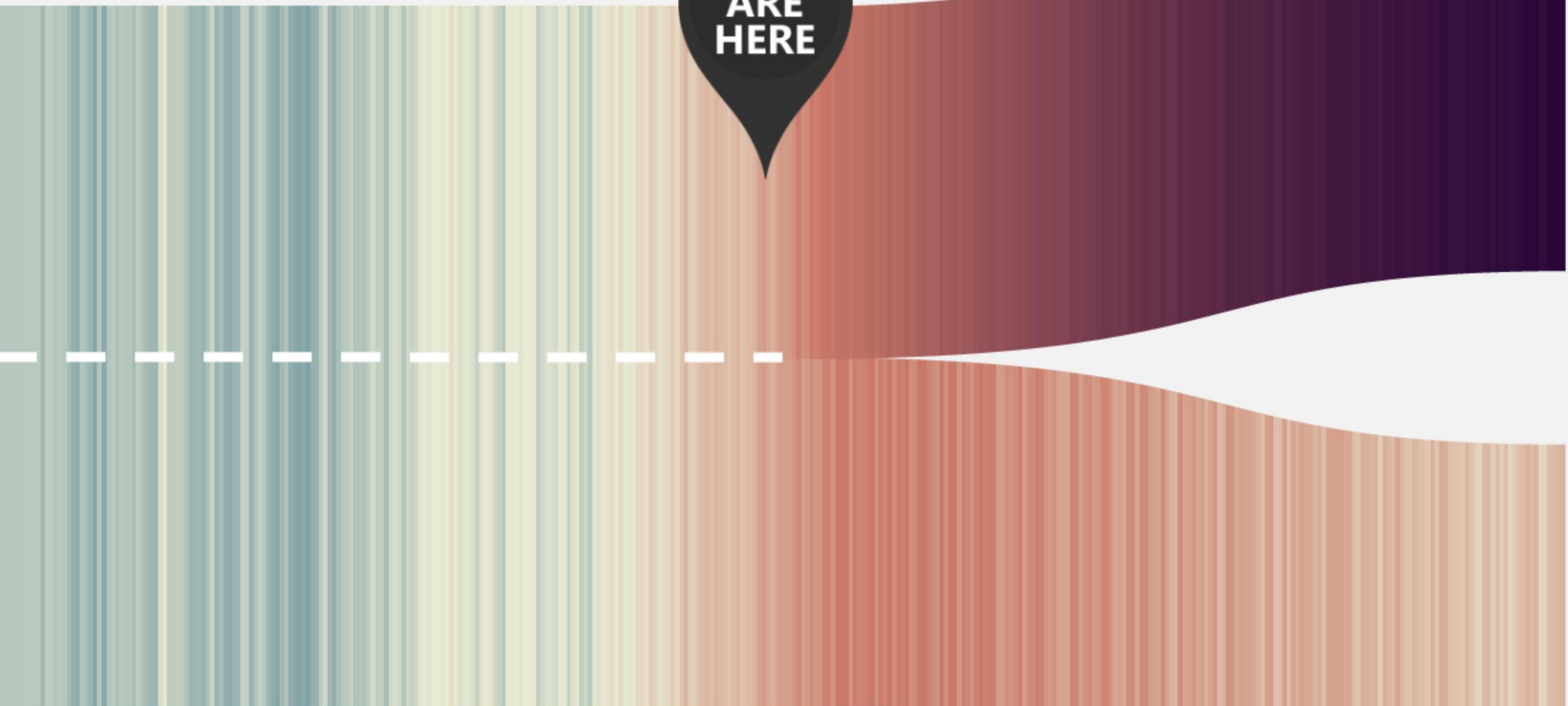SCOPE 2   SCOPE 1   SCOPE 3

METHODOLOGY CHALLENGES

➢ **Perimeter** : include all activities that contribute to the organisation's mission (including partnerships and funding)

➢ **Data collection**: where not to compromise (energy) and where to accept compromise (procurement, partnerships) in a continuous improvement approach

➢ **Emission factors**: reliability, adaptation to humanitarian contexts and level of precision

➢ **Integrity and comparability** between organisations

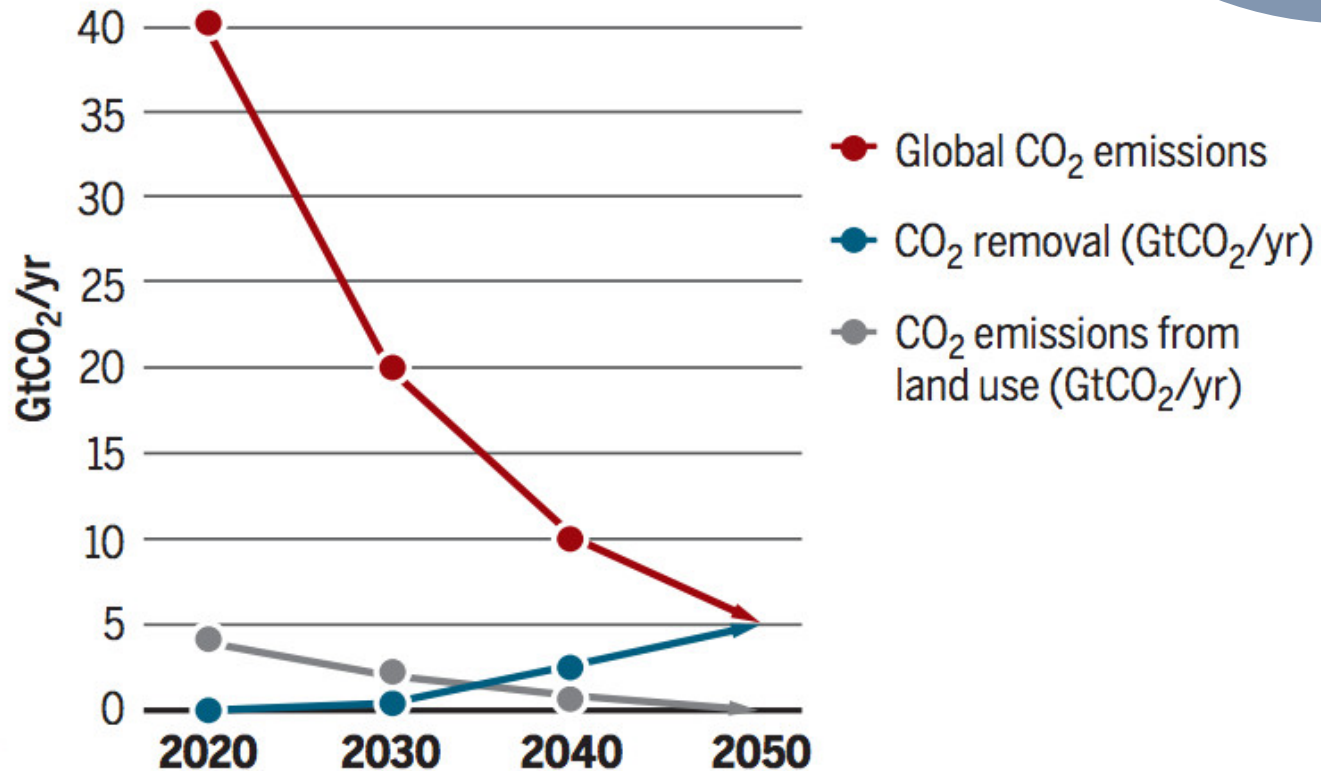➢ **Need for a standard methodology** to emerge in the aid sector

WE
ARE
HERE

stylised global mean temperatures 1850-2200;
design by @alxrdk based on warming stripes from @ed_hawkins

STABILIZING CLIMATE MEANS STOPPING EMISSIONS

& DEVELOPING CARBON SINKS IN THE NEXT 25 YEARS

TIME IS OF ESSENCE

Global carbon law guiding decadal pathways

- Global CO_2 emissions
- CO_2 removal ($GtCO_2$/yr)
- CO_2 emissions from land use ($GtCO_2$/yr)

$GtCO_2$/yr

40
35
30
25
20
15
10
5
0

2020 2030 2040 2050

KEY STEPS FOR A TRAJECTORY

- **Most legitimate target: – 50% reduction by 2030,** without carbon offsets

- **Identify the main solutions and actions for every lever**

- Example of energy: switch to renewables, building and equipment efficiency, consumption practices)

- **Prioritize versus impact/feasibility/effort**

Areas for high potential reduction

Staff travel policy / Reduction of air freight / Local purchase

Building heating and cooling / Construction techniques / Energy supply

Planetary heath diet at cafeteria and events / Local food supplies

Equipment life extension / Shared documents / Automated shutdowns / Combine personal/professional use / Sustainable purchasing policy

Environmental Procurement criteria / Material footprint & waste management (Reduce, Re-use, Recycle & Dispose)…

3 complementary types of action

SOLUTIONS

Behaviour change: mobilisation and responsibility of individual staff.

Office good practices

Policies and processes, integrating environmental parameters into work methods and decision making.

Transport, travel and procurement

Clean technological solutions, available today and ready for deployment.

Buildings, renewable energy, energy efficiency, technical standards of equipment
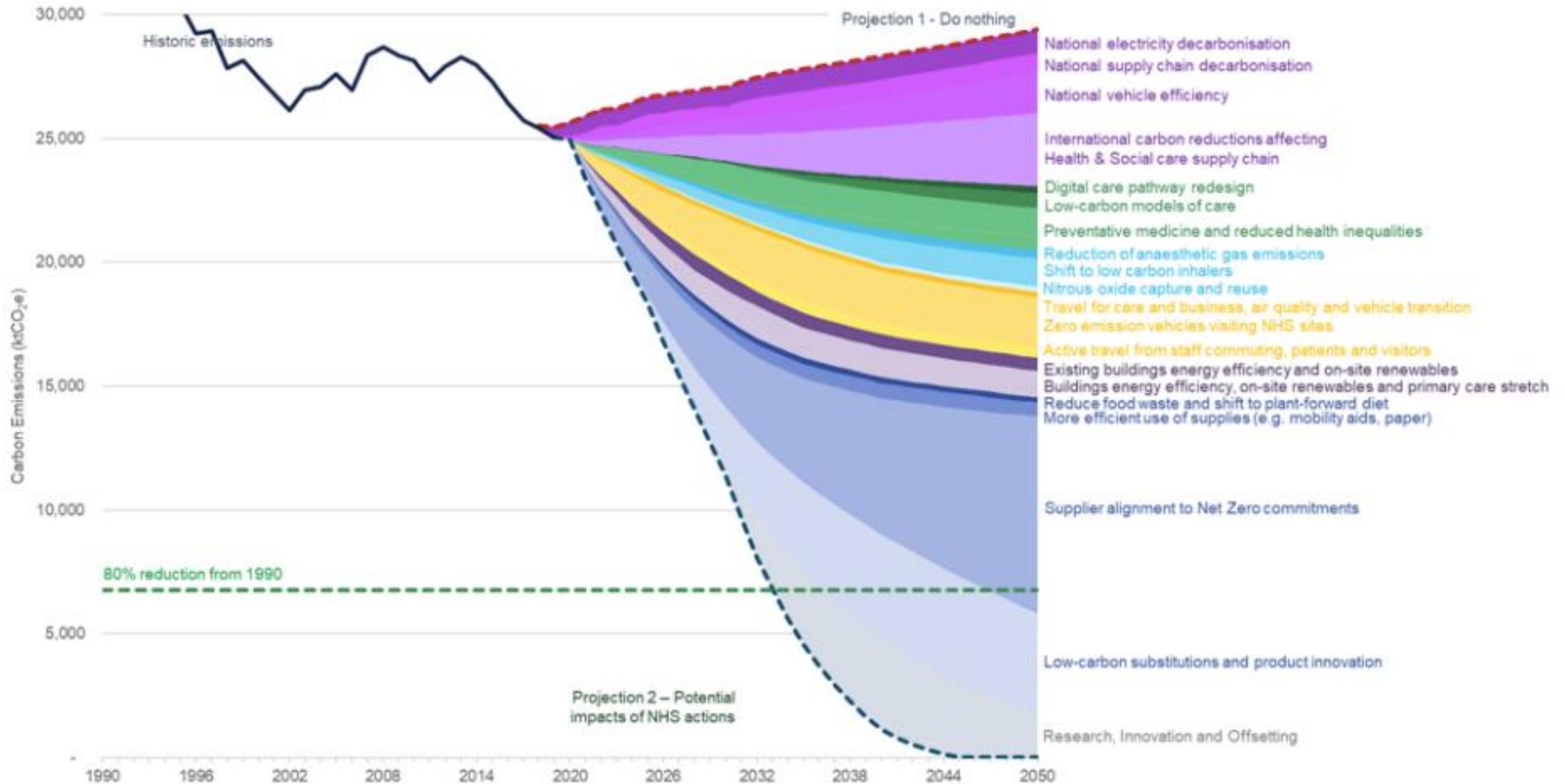
KEY STEPS FOR A TRAJECTORY

- **Model a trajectory** based on the solutions' mix

- **Quantify the expected results** and milestones

- **Meet the human challenge**

- **Implement and monitor**

- **Learn and adjust**

TRAJECTORY

Figure 5: Pathway to net zero for the NHS Carbon Footprint Plus Scope

HOW WILL WE GET THERE?

EMPOWER

One-stop-shop to at least halve emissions by 2030

CHAMPION

Commit and transform the ecosystem (vector of change)

COMMUNITY

Share, show progress and reward