**Conflict of Interest** 

The author has declared no conflict of interest.



#### The Environmental Impact Toolkit: Futureproofing MSF through measurement & mitigation

MSF Scientific Days – Innovation Day 20 May 2021 Presenting: Sandra Smiley & Carol Devine





#### Humans are changing the planet, leading to



Increased global temperatures







### More frequent & severe weather events



Humans are changing the planet, leading to



**Increased global** temperatures

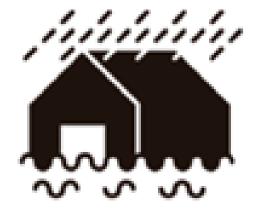
This has profound negative health consequences, including



**Exacerbating infectious** disease transmission







#### Air pollution

#### More frequent & severe weather events

Water & food insecurity

Displacement





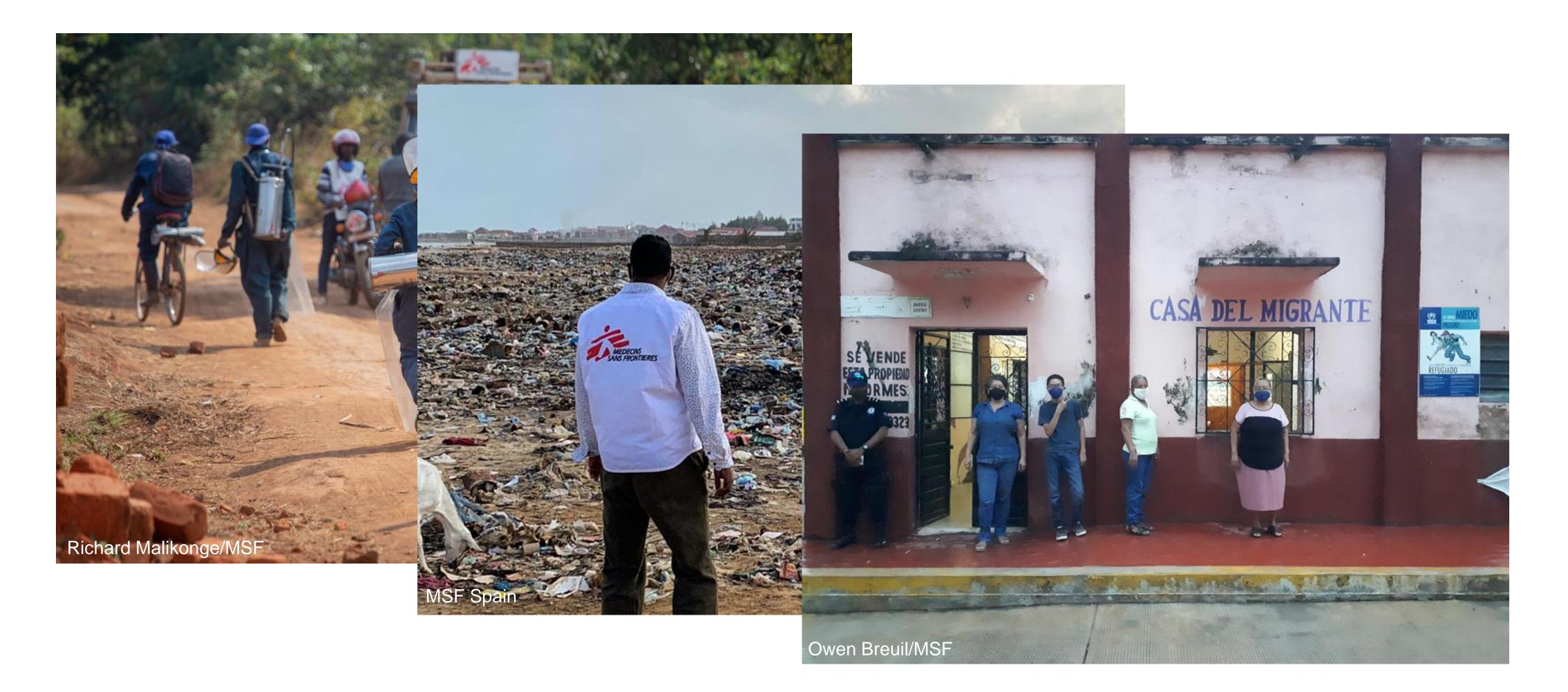
















MSF recognises the humanitarian & health consequences of climate change & environmental degradation







MSF recognises the humanitarian & health consequences of climate change & environmental degradation

#### & has committed to significantly mitigating its environmental impacts by 2023







#### Introduction: The Environmental Impact (EI) Toolkit

First-of-its-kind initiative within MSF

Allows offices & projects to assess their carbon emissions & waste production, & decide on mitigation measures

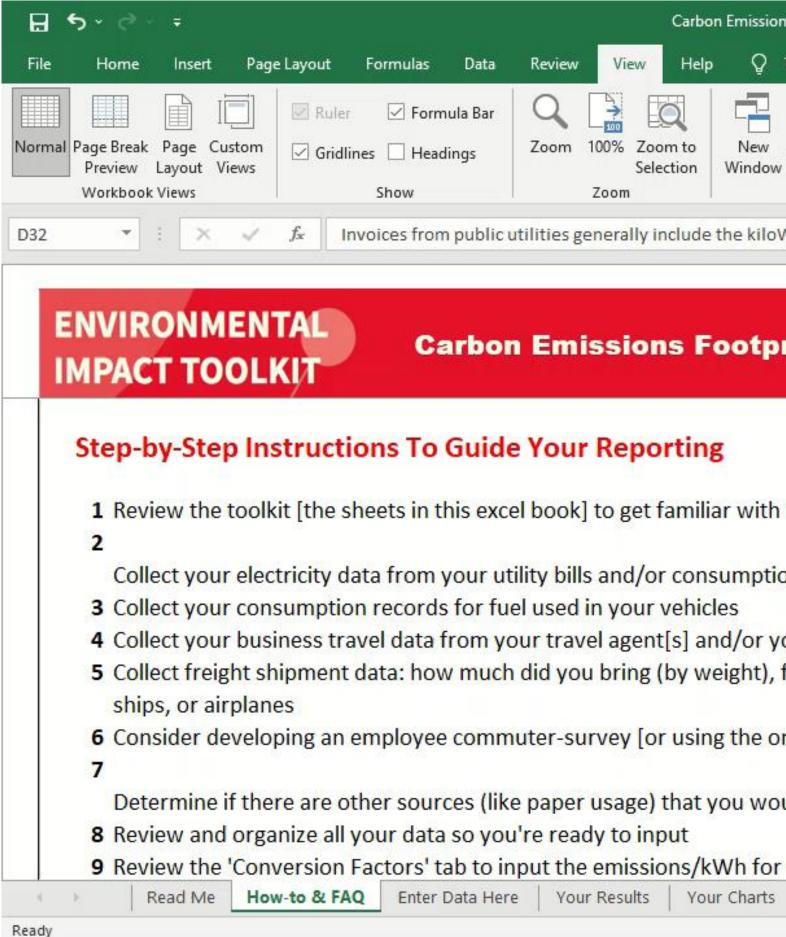
Adapted & customised to measure common carbon emissions & waste







### Introduction: The Environmental Impact (EI) Toolkit





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# Methods: Objectives

- To help systematise efforts to reduce MSF's environmental footprint: "what you measure, you can manage"
- To allow MSF to establish a baseline level of carbon emissions & waste production & facilitate target-setting for mitigation
- To future-proof the organisation, making it a more responsive & responsible humanitarian actor





# Methods: Implementation

Toolkit developed & piloted in five countries in 2019



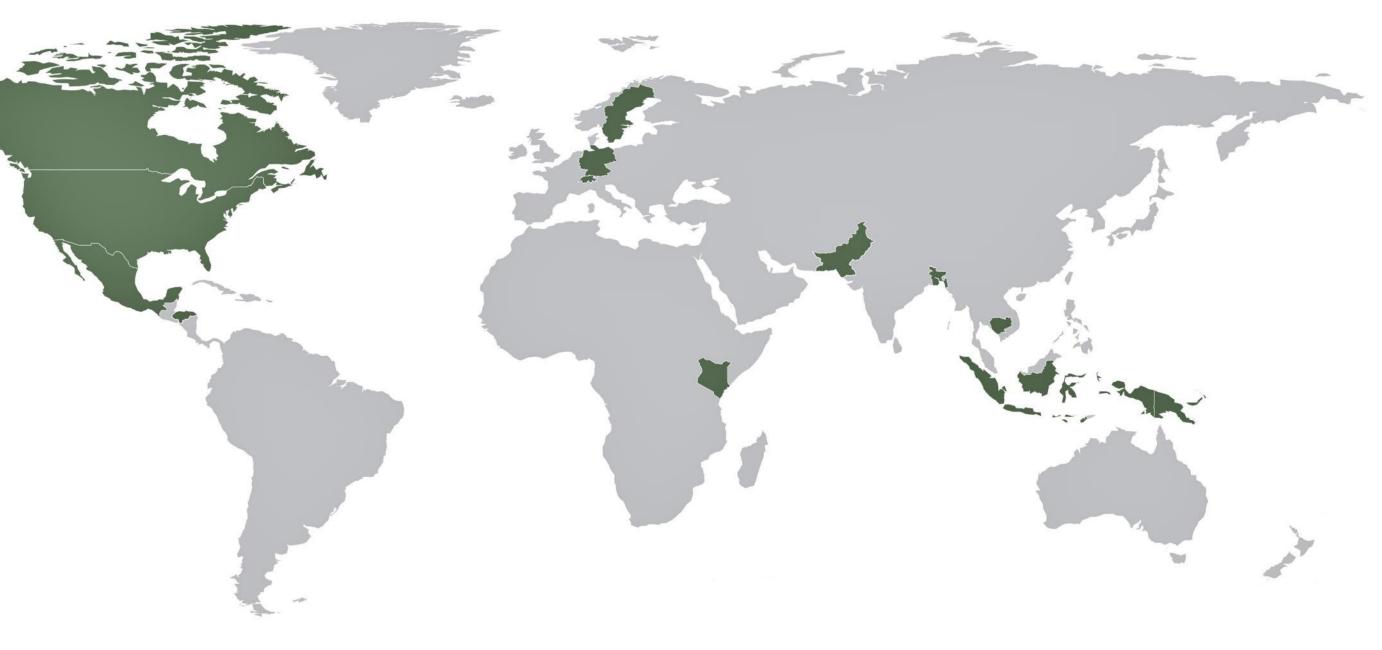




# **Methods: Implementation**

- Toolkit developed & piloted in five countries in 2019
- In 2020, rolled out in nine more sites & updated



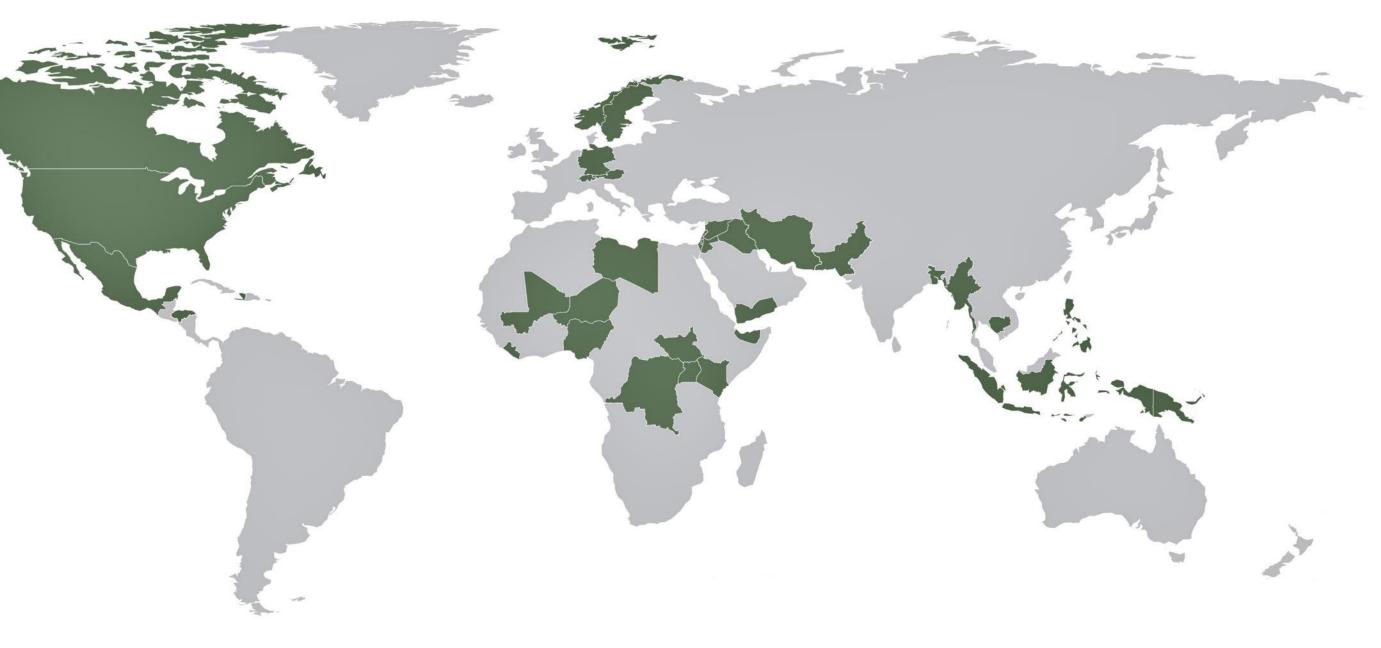




# **Methods: Implementation**

- Toolkit developed & piloted in five countries in 2019
- In 2020, rolled out in nine more sites & updated
- In 2021, 22 new uses, ~20 more anticipated







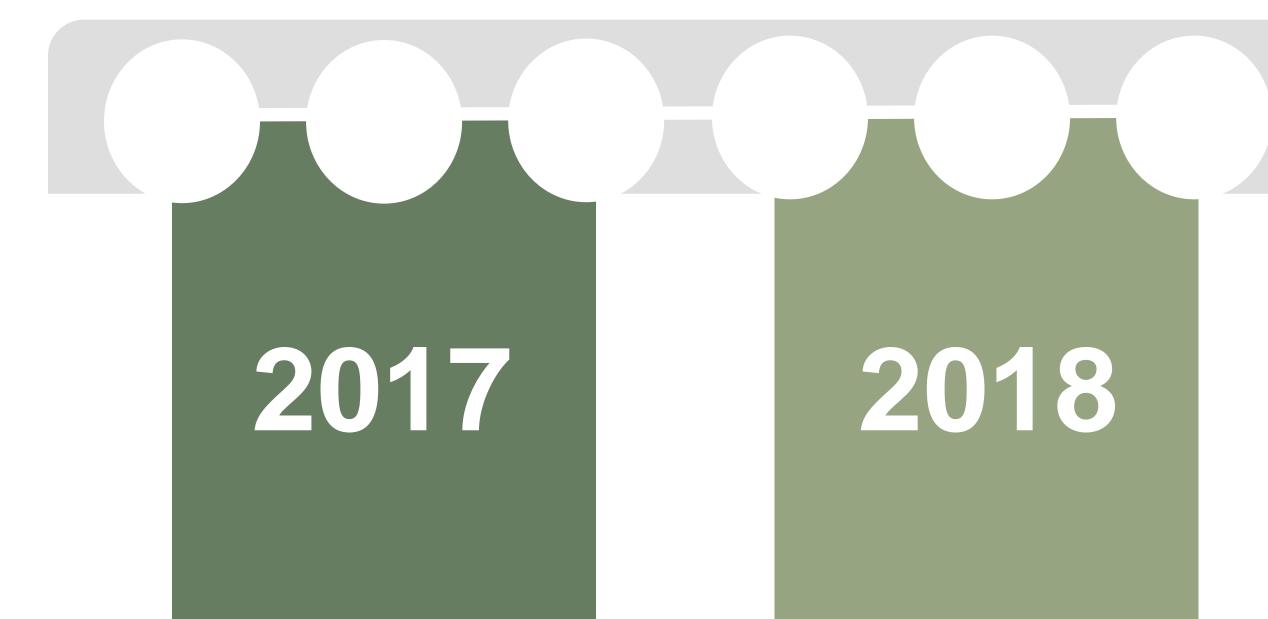
### Methods: Timeline

MSF Canada & Latin America motions on environment

> International General Assembly motion on environment

El Toolkit TIC grant approved

> MSF adopts a "climate lens" for its humanitarian work



El Toolkit developed & piloted in 5 countries

> International General Assembly motion on the climate crisis

> > El Toolkit TIC grant expansion (MSF-C/ OCG) approved

2019

El Toolkit used in 9 more early-adopter projects & sites

> Waste tool developed & integrated into El Toolkit

> > MSF adopts Environmental Pact

2020



# Methods: Data collection & analysis

- Data & testimonies on emissions-producing activities & user feedback collected
- Guidance on mitigation measures offered by Climate Smart MSF experts
- Emissions & their sources, & mitigation measures, compared across MSF sites







**Emissions levels** 

varied significantly

across the 14 sites

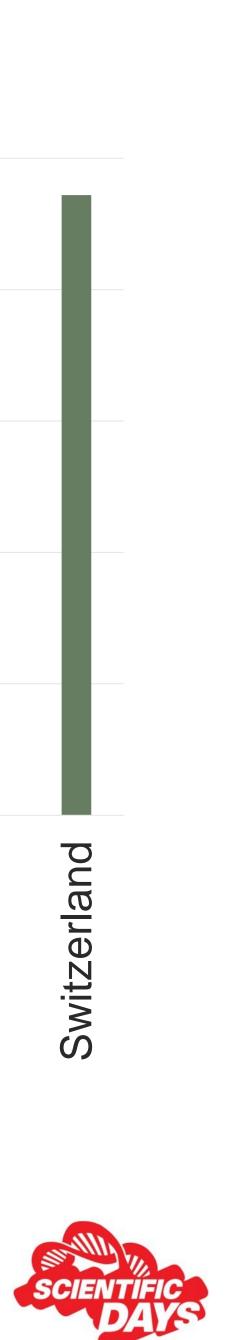
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Int'l Office	Cambodia	Sweden	Indonesia	Mex & Hon	Pakistan	Germany	BNG	Bangladesh	Kenya	Canada	NSA	Switzerland





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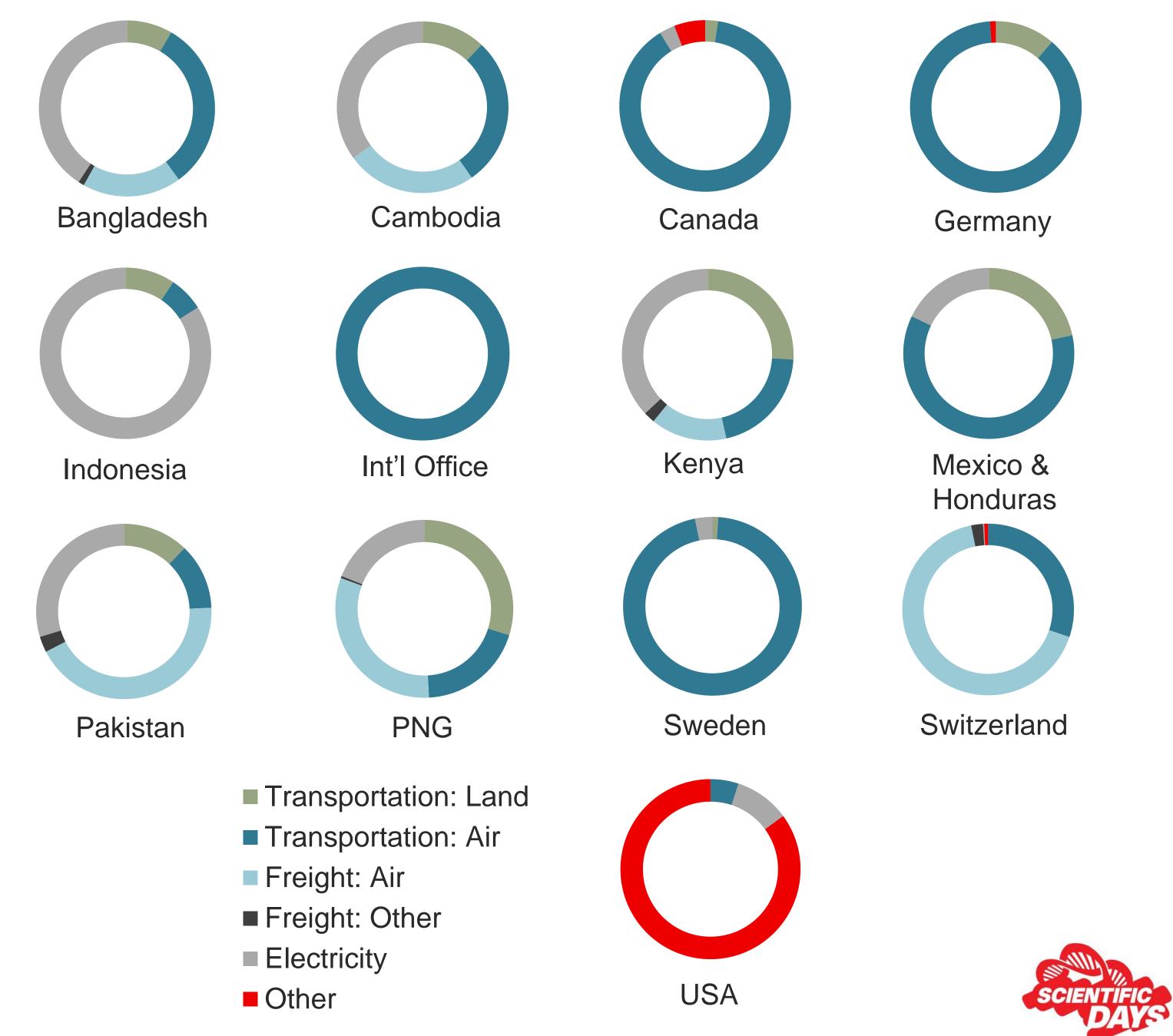
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Int'l Office	Cambodia	Sweden	Indonesia	Mex & Hon	Pakistan	Germany	BNG	Bangladesh	Kenya	Canada	NSA	Switzerland





Sources of emissions varied considerably across sites

Air freight & air travel (personnel flights) were identified as major sources of emissions





Commonalities in mitigation opportunities were identified, including:

- limiting non-essential travel
- finding lower-carbon substitutes to air freight & diesel use
- scaling up solar energy, connecting to grid power & monitoring electricity use







Of our strategic pillars in 2021, environmental footprint will be one of them. 18 months ago, this wouldn't have happened, but the board is behind us too, behind & in front keeping us accountable.

> Katja Carson, MSF Germany, on the passage of MSF Germany's motion urging all of MSF to measure its footprint using the EI Toolkit.



#### **Tool users indicated that:**

- Leadership/management & human/financial resources is key to transition to sustainable tech (eg. solar)
- Automated/systematised internal processes could save time & make measuring emissions & waste production easier







Brought about discussions & action on shifting to more sustainable processes, eg.

- Bangladesh: connecting to grid power, metering
- Canada: set target to reduce
  non-essential flights

Practice changes like limiting paper use & digitise processes







# **Discussion & Conclusions**

- Measurement crucial to reduction of MSF's carbon emissions & waste: "what you measure, you can manage"
- There is considerable scope to make MSF more efficient & environmentally responsible by reducing its carbon footprint
- Priority interventions include rationalising the use of emergency air freight, reducing non-essential travel & clean energy transition
- Courageous leadership & behavioural change will be important to making environmentally responsible practices "business as usual"





# **Discussion & Conclusions: Limitations**

- Conversion factors were used to estimate CO<sub>2</sub>e approximations
- Some data acquisition challenges
- El Toolkit requires project/office commitment for use
- Initial tool is to spur internal action, & not for external reporting or institutional benchmarking





# **Discussion & Conclusions: Next steps**

Building off the knowledge created through the Toolkit:

- Review & automate tool to aid in setting science-based targets
- Facilitate proof-of-concept & scaleup of energy transition pilots
- Work with leaders to rationalise air freight & make supply chain more sustainable







# Acknowledgements

In no particular order, a huge thank you to:

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- Transformational Investment Capacity Secretariat



