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

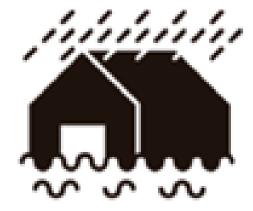
This has profound negative health consequences, including



Exacerbating infectious disease transmission







Air pollution

More frequent & severe weather events

Water & food insecurity

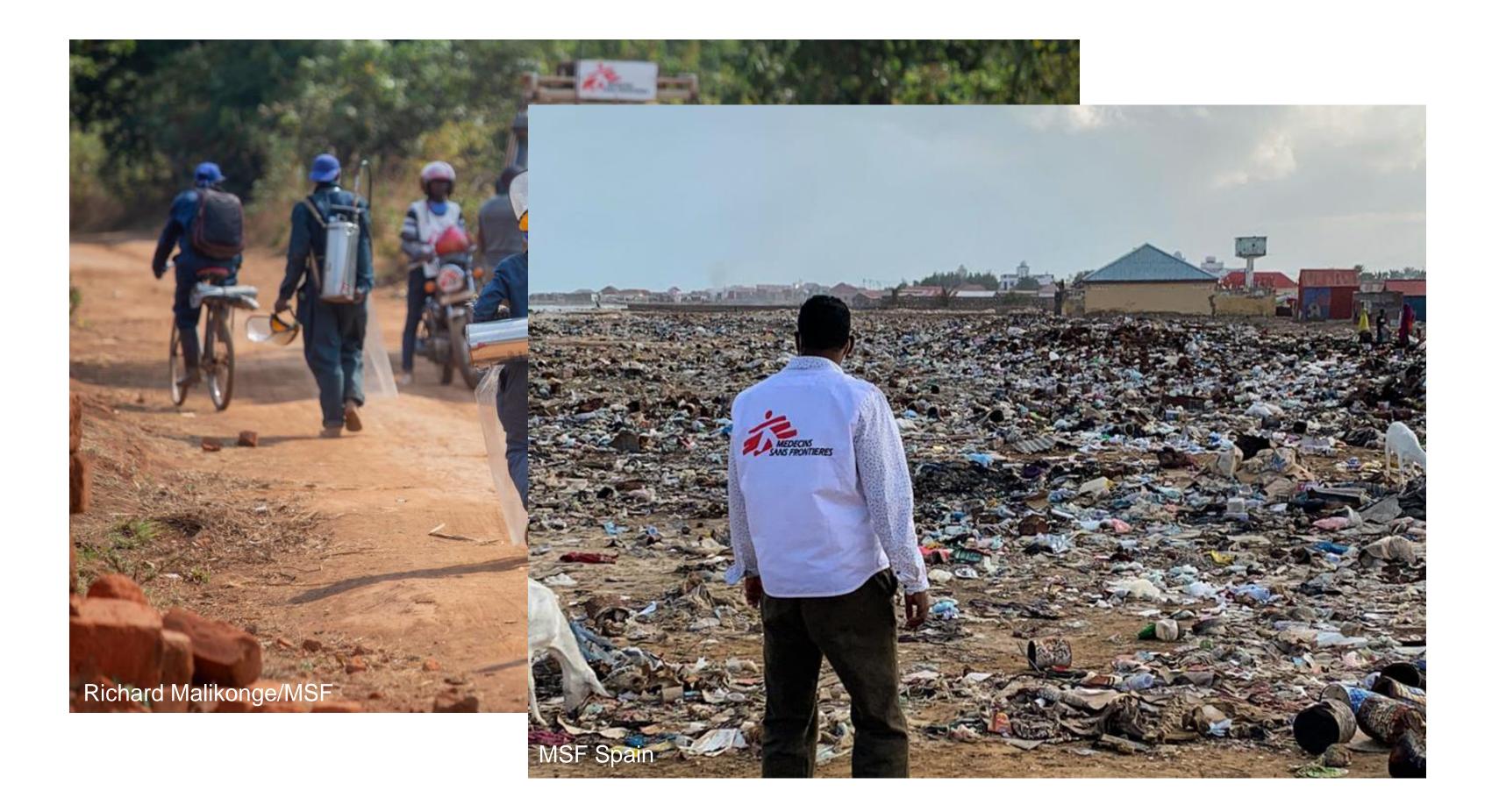
Displacement





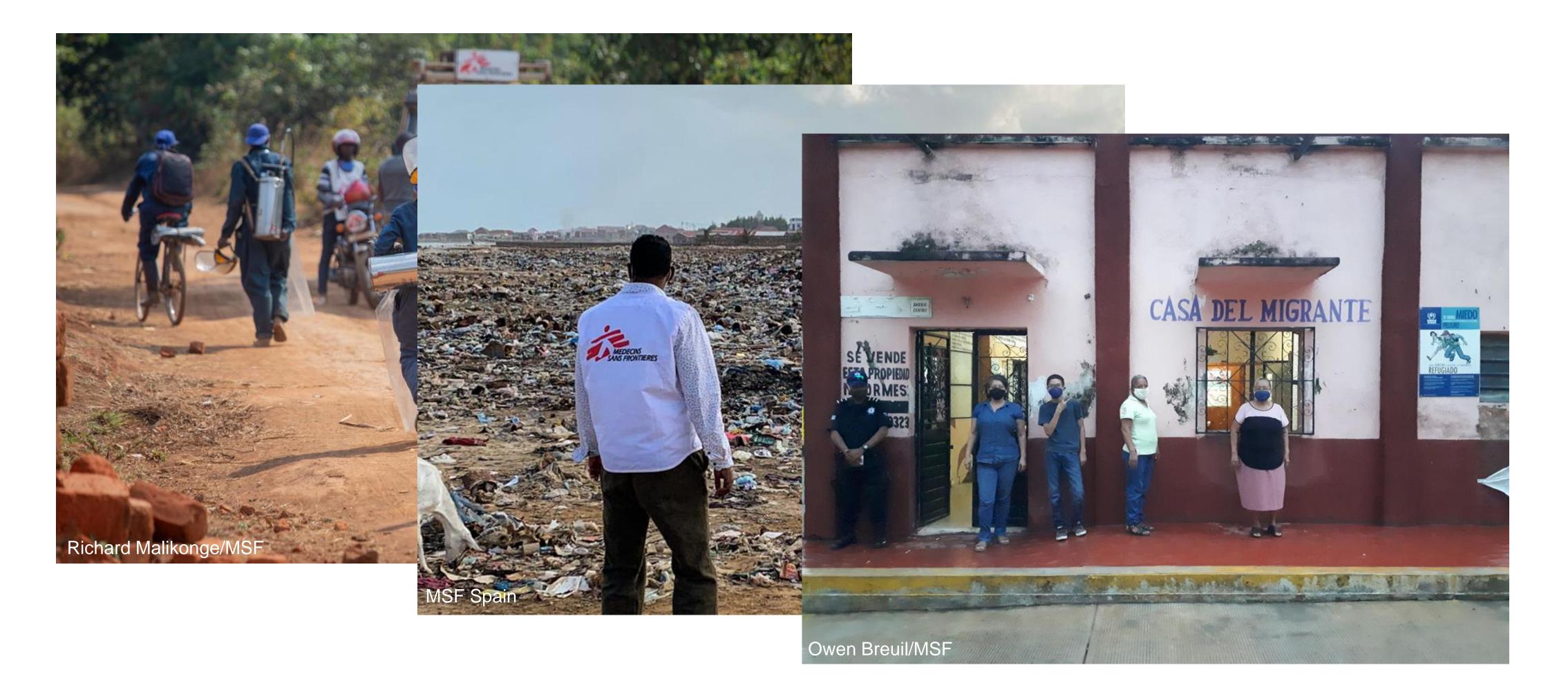
















MSF recognises the humanitarian & health consequences of climate change & environmental degradation







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

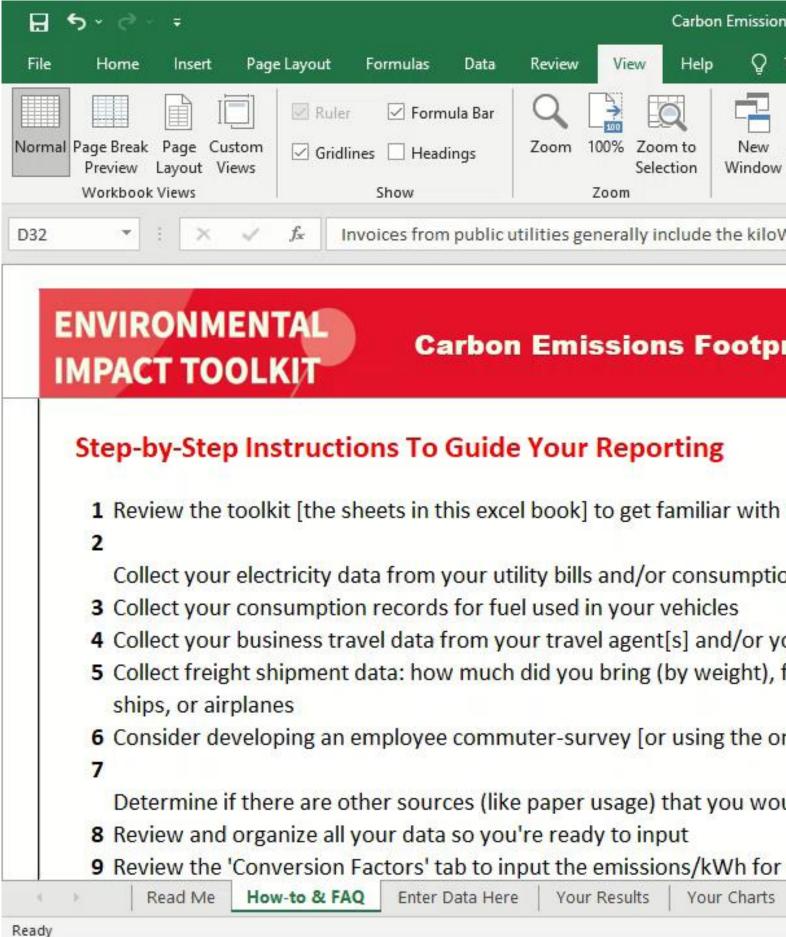
Adapted & customised to measure common carbon emissions & waste







Introduction: The Environmental Impact (EI) Toolkit





ons Footprint 2.7 FINAL PHASE 2 Nov 25 - Excel	Sandra Smiley 🎴	b –	o x
Tell me what you want to do			A Share
Image Freeze w All Panes + Image Image Freeze w All Panes + Image	Macros Macros		~
Watt-hours (kWh) consumed. Ask your utility to provide the carbo	on intensity [kgCO2e/kWh] c	of their electiri	city 👻
brinting Transformational Investment Capacity			
h how it works			
ion records for fuel used in generators			
your own records			
, from how far, and did you use trucks,			
one created by MSF Canada]			
ould like to include in your evaluation			
r your electricity use [ask your utility			-
Conversion Factors 🕀 : 🖪			



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



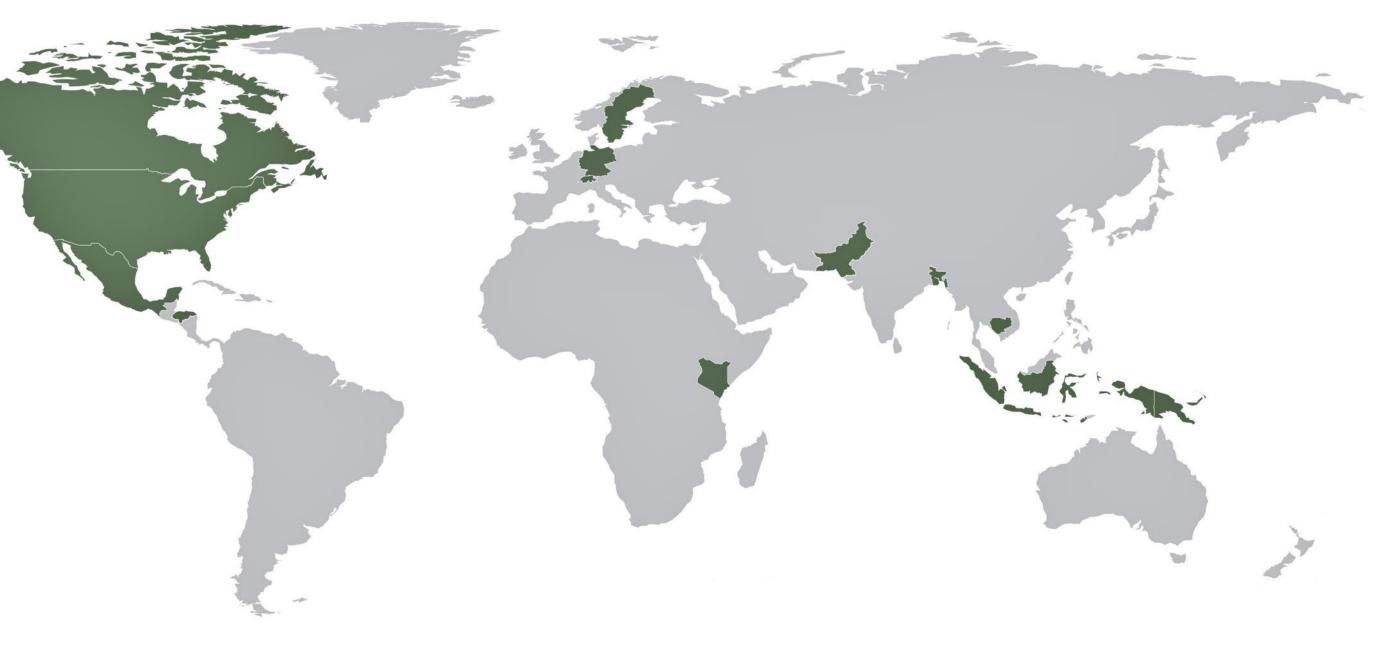




Methods: Implementation

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



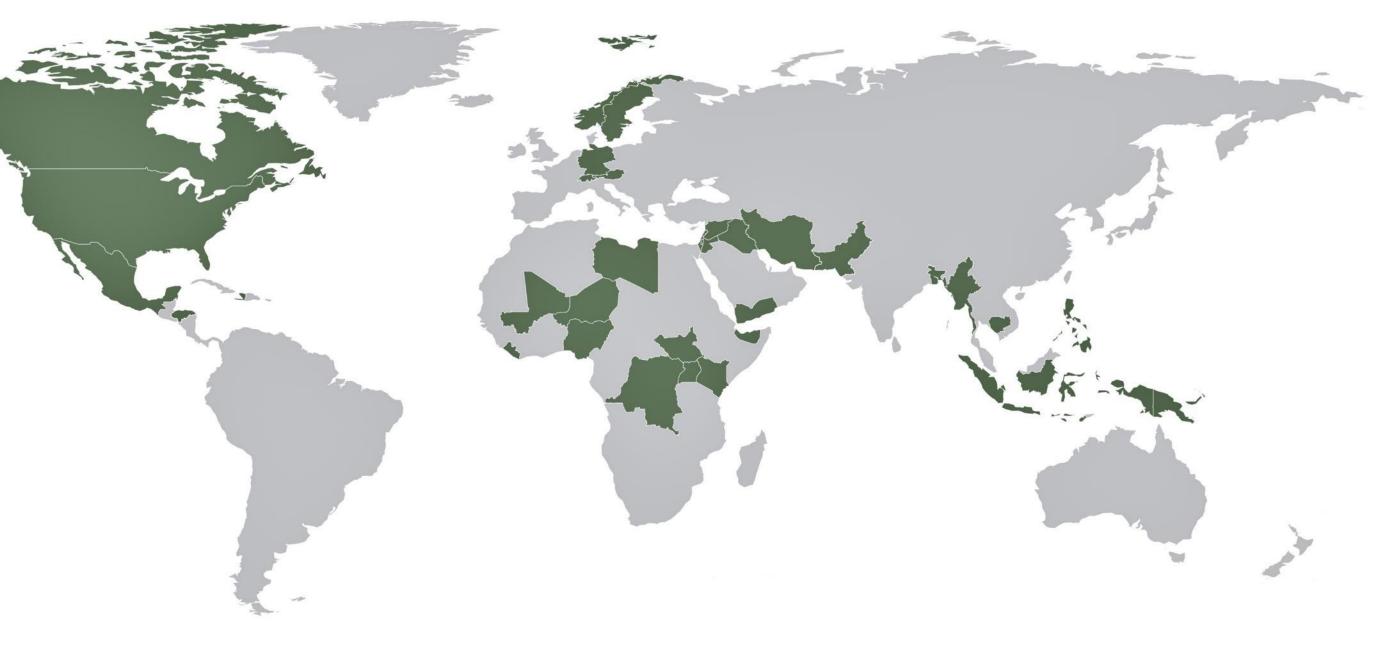




Methods: Implementation

- 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







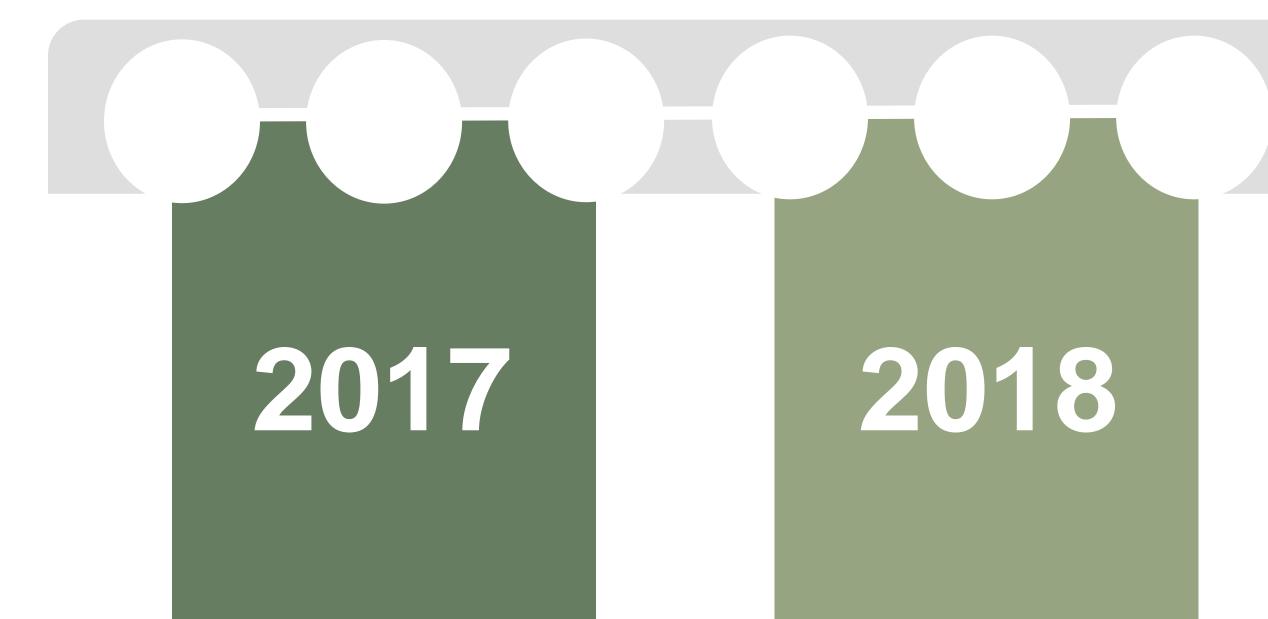
Methods: Timeline

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

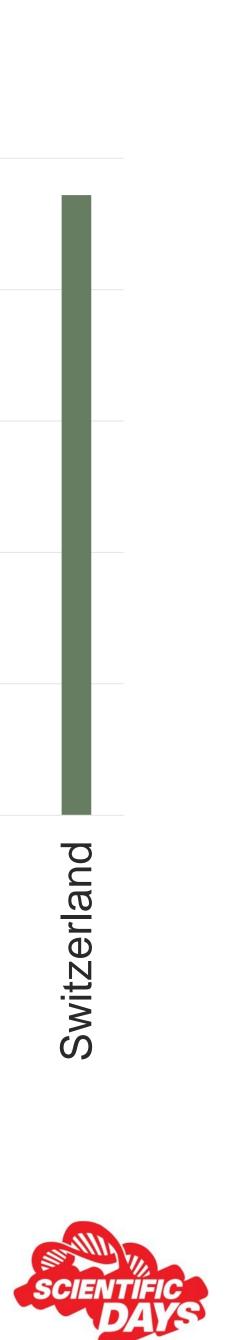
100,000 10,000 1,000 100

10

1



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





Emissions levels

varied significantly

across the 14 sites

100,000 10,000 1,000 100

10

1



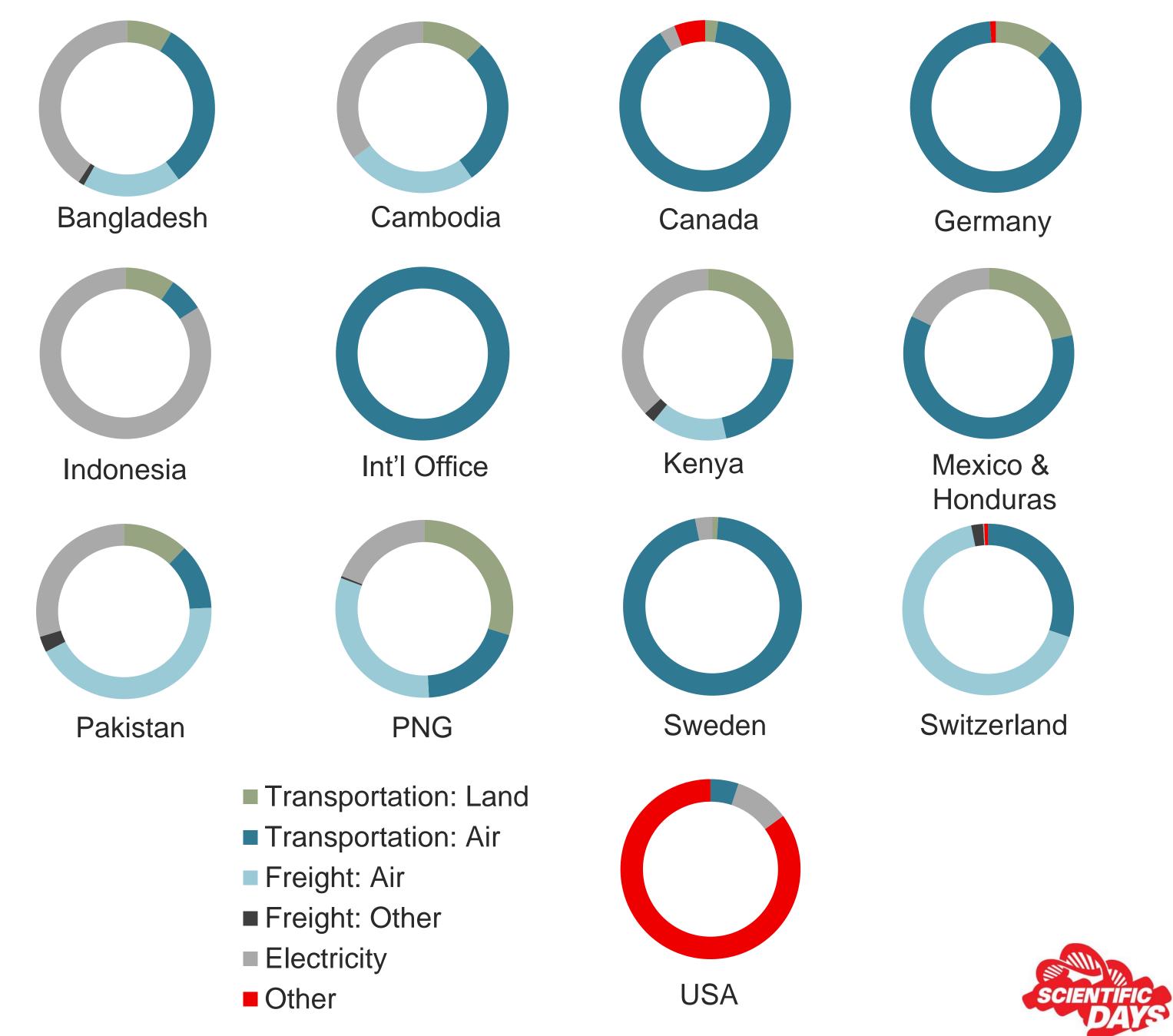
												V
Int'l Office	Cambodia	Sweden	Indonesia	Mex & Hon	Pakistan	Germany	BNG	Bangladesh	Kenya	Canada	NSA	Switzerland





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 CO₂e 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:

- Teams & colleagues in all 14 pilot & early adopter sites
- Art Blundell, Tyler Christie & the Climate Smart MSF team
- Steven Cornish, Operational Center Geneva
- Joe Belliveau, MSF Canada
- Marpe Tanaka, Anna Jordan & Holly Baker (Scientific Days)
- Transformational Investment Capacity Secretariat



