CYCLONE DINEO REPAIR WORKS
CASE STUDY

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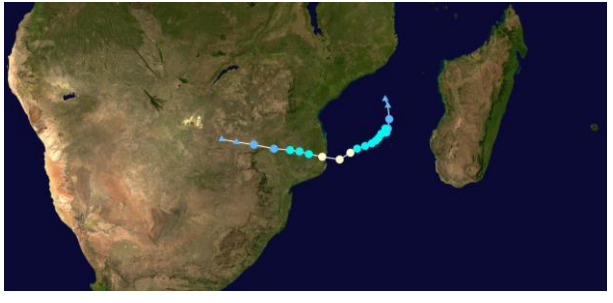
16/10/17

CYCLONE DINEO

Cyclone Dineo hit Mozambique on the 15th of February 2017

Around 20,000 homes were destroyed and approximately 130,000 people affected.

Responding to disasters like this makes up the great majority of CARE's impact & reach.



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RESPONSE

After an initial response with food, emergency shelter and other basic relief items, focus moved to repairs to schools and health centres.

CARE International UK deployed a shelter specialist to Mozambique to support – later followed up by a further visit.

We couldn't find a suitable Portuguese speaking engineer at short notice – so undertook a rapid tender process for engineering support in the UK.

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AIMS & REQUIREMENTS

The intention was to get procurement and construction underway within the timescale set by some very short-term emergency funding, without compromising on the design standards.

To do this we needed:

- The ability to visit the project locations
- The ability to work flexibly within the ever-changing context of an emergency response
- Ability to provide adequate minimum service within an extremely limited budget – max £10,000
- Ability to produce documentation in Portuguese

RESULTS & LESSONS

- Buro Happold were able to be very responsive and flexible by utilising a large team
- Work was only done when CARE gave confirmation to proceed, as the list of buildings to be repaired kept changing.
- CIUK played a minor role ensuring good understanding between CARE Mozambique & Buro Happold – but most communication was direct. Changes and gaps in CARE's staffing meant much potential and actual confusion. CIUK was only able to mitigate this somewhat.
- Donors changed the goalposts somewhat, expanding the scope of work and timelines.
- Assumptions that local contractors could interpret typical details provided proved wrong, and UN Habitat undertook a secondary detailed design stage.
- **The approach achieved its main objective of delivering a rigorous structural design and getting procurement & construction underway.**

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FEEDBACK FROM CARE MOZAMBIQUE

"I would say, mostly, it was the prompt response and deployment that was critical to show to the Donor and Local Communities our professional structure and response capacity."

"The quality of the design works, despite not enough for this specific local UN-HABITAT standards, was also positive in the sense of an international concept of structural design was delivered and combined with others for the introduction and understanding of the local government and communities."

"Important to recall that, as part of an unconventional pilot project, still not yet fully developed and experimented by the UN until CARE´s setting of the example, BH and ourselves were the first to implement and deal with a large scale resilient roof rehabilitation and at same time get the real costs and deal with the necessary adjustments and corrections on drawings, specifications and quantities"

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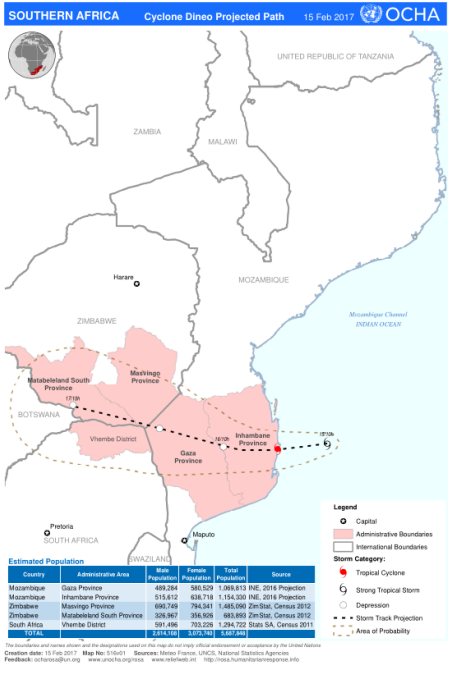
SCOPE AND DAMAGE



Estimated Population

Country	Administrative Area	Male Population	Female Population	Total Population	Source
Mozambique	Gaza Province	489,284	560,529	1,049,813	INE, 2016 Projection
Mozambique	Inhambane Province	515,612	638,718	1,154,330	INE, 2016 Projection
Zimbabwe	Masvingo Province	690,749	794,341	1,485,090	ZimStat, Census 2012
Zimbabwe	Matabeleland South Province	326,967	356,926	683,893	ZimStat, Census 2012
South Africa	Vhembe District	591,496	703,226	1,294,722	Stats SA, Census 2011
TOTAL		2,614,108	3,072,740	5,687,848	

The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.
Creation date: 15 Feb 2017 Map No: 516v01 Sources: Meteo France, UNOS, National Statistics Agencies
Feedback: ocharoso@un.org www.unocha.org/roso www.reliefweb.int http://roso.humanitarianresponse.info

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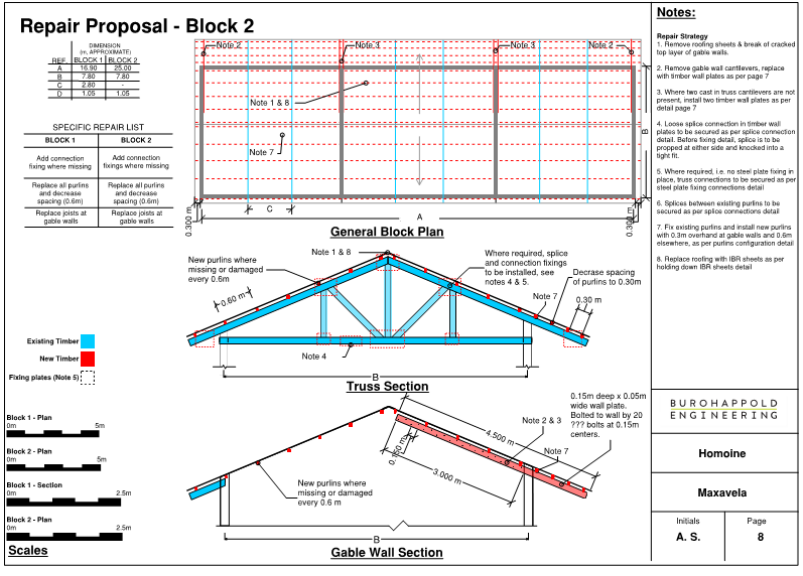
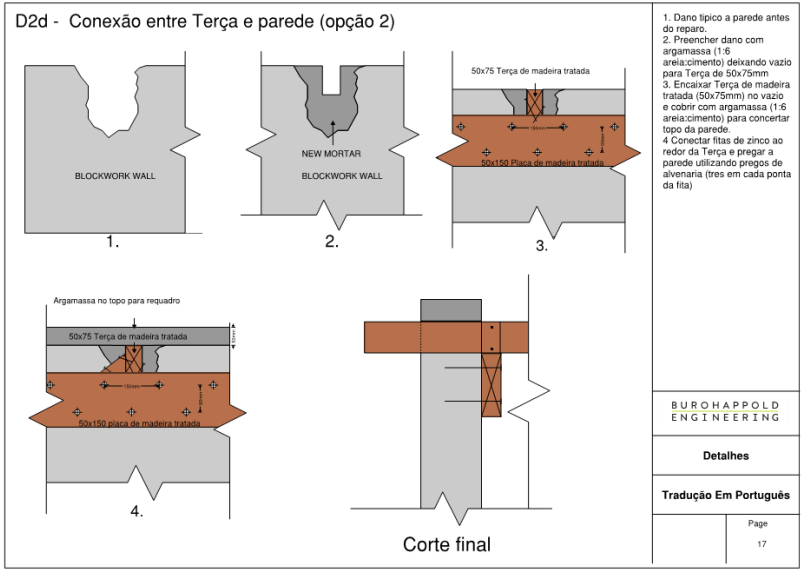
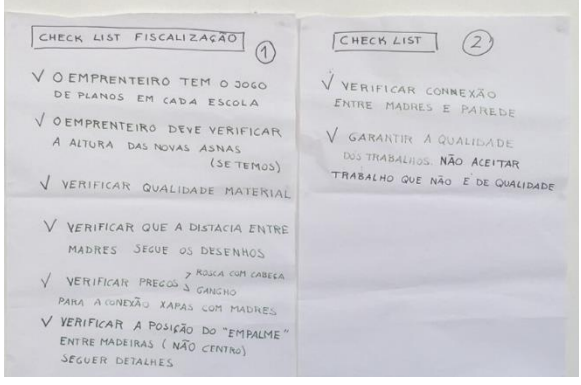
REPAIR STRATEGIES







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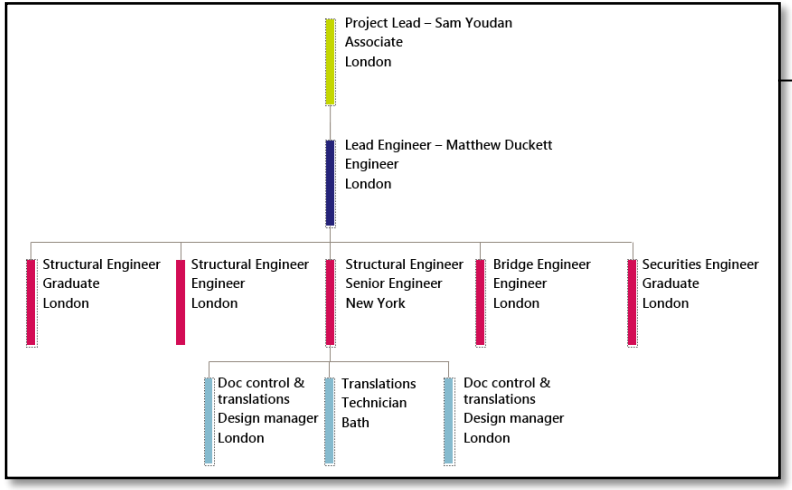
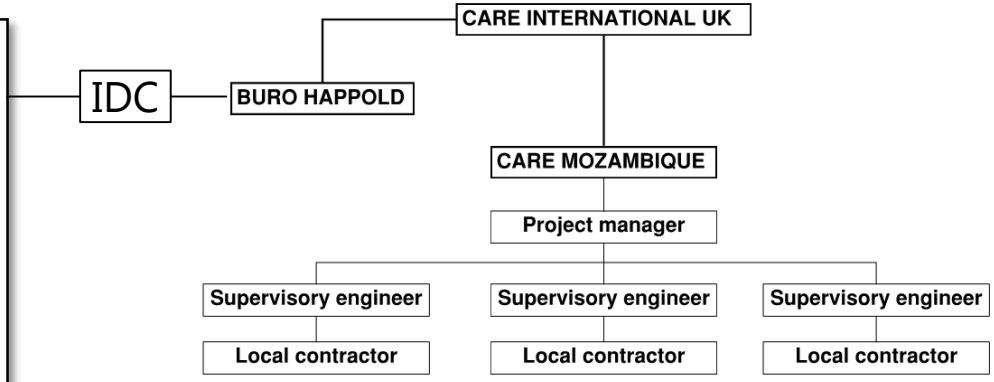
IMPLEMENTATION AND TIMELINE





	DATE	2017 FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG
CYCLONE HIT	FEB 15th							
BH ENGAGED	MARCH 12TH							
FIELD VISIT	APRIL 4th-20th							
REPAIR STRATEGIES + BOQs ISSUED — JANGAMO	15 Classrooms ISSUED APRIL 26th							
REPAIR STRATEGIES + BOQs ISSUED — HOMOINE AND MORRUMBENE	85 Classrooms ISSUED MAY 16th							
REPAIR STRATEGIES + BOQs ISSUED — 4 HEALTH CENTRES	ISSUED JUNE 30th							
TENDERING	JULY							
CONSTRUCTION	FROM EARLYAUGUST							

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PROGRESS

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CARE/BURO HAPPOLD COLLABORATION

- Collaboration enabled quick response and cost saving
- CARE tendered within 5 months of the disaster
- Facilitated by existing CARE infrastructure
- Enabled CARE to shift response

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HOW CAN THE PRIVATE SECTOR HELP, AND WHAT IS NEEDED TO UNLOCK THE POTENTIAL?

What we can bring:

- BuroHappold “Share Our Skills” Scheme – average 200 person days per year
- Passionate people who want to make a difference
- Breadth and depth of expertise
- Understanding of how projects are built

What do we need:

- Local knowledge/framework/infrastructure
- A partner/client who can appreciate/understand how we can work….and get the best from us

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