



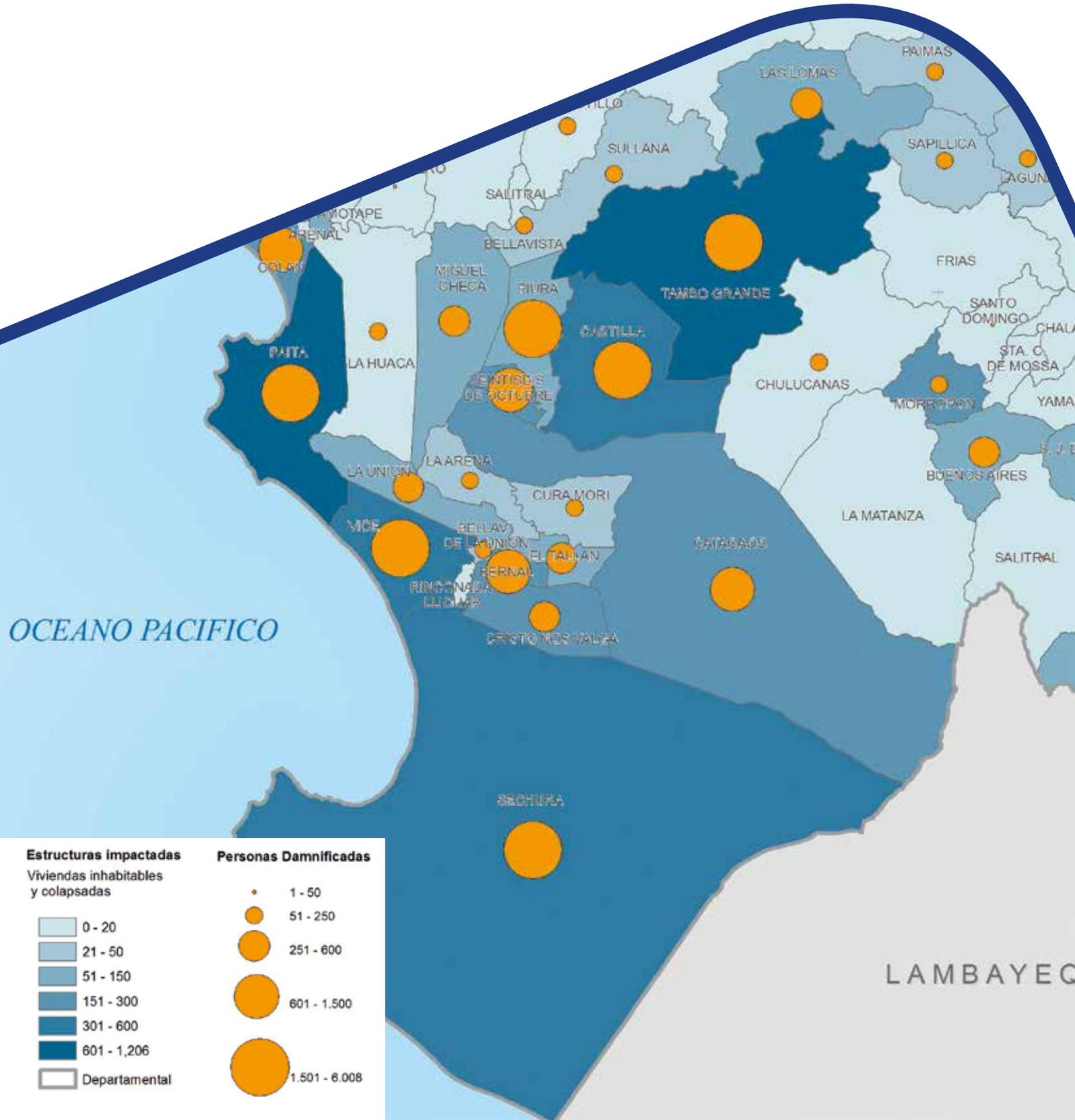
MAP ACTION



A Review of 2017



With thanks to Esri UK for its support in producing this publication and for its long-standing partnership with MapAction.



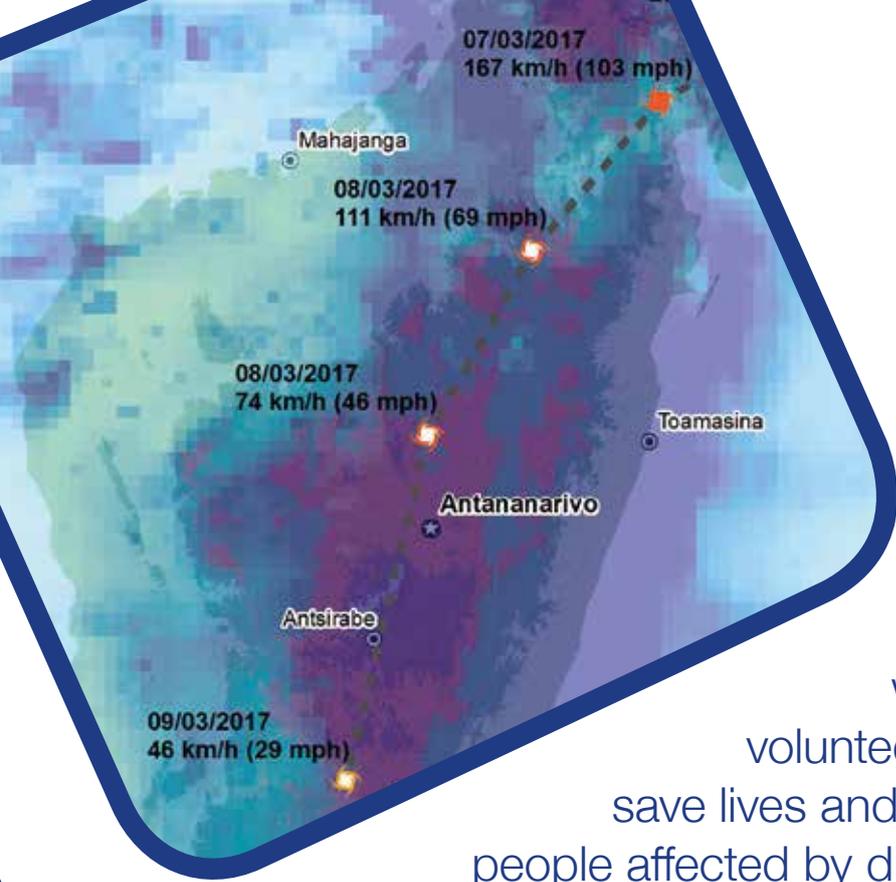
Estructuras impactadas
Viviendas inhabitables y colapsadas

- 0 - 20
- 21 - 50
- 51 - 150
- 151 - 300
- 301 - 600
- 601 - 1,206

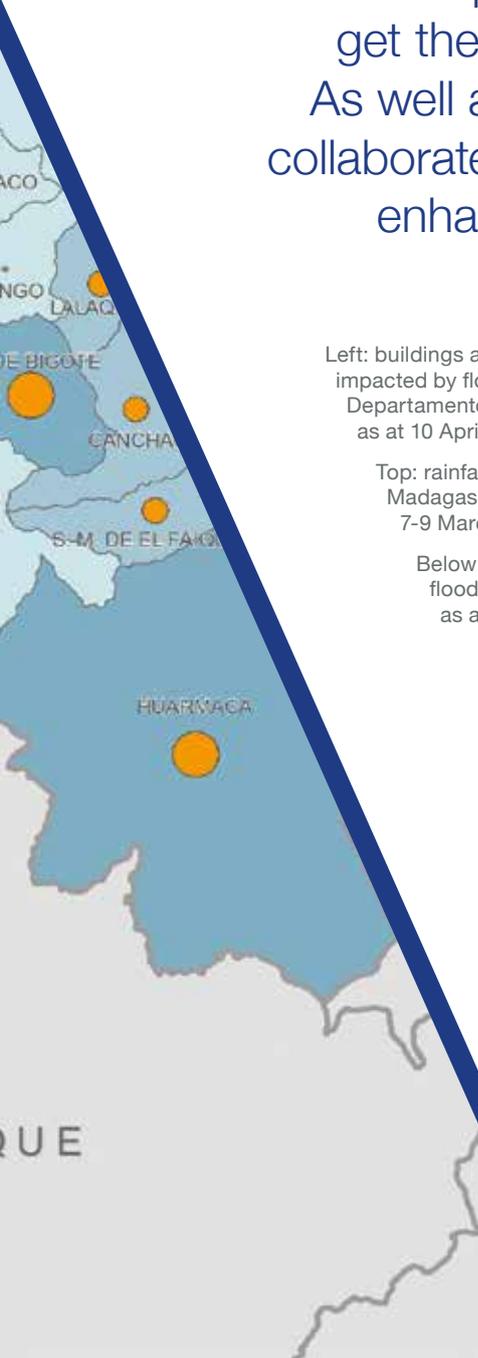
Departamental

Personas Damnificadas

- 1 - 50
- 51 - 250
- 251 - 600
- 601 - 1,500
- 1,501 - 6,008



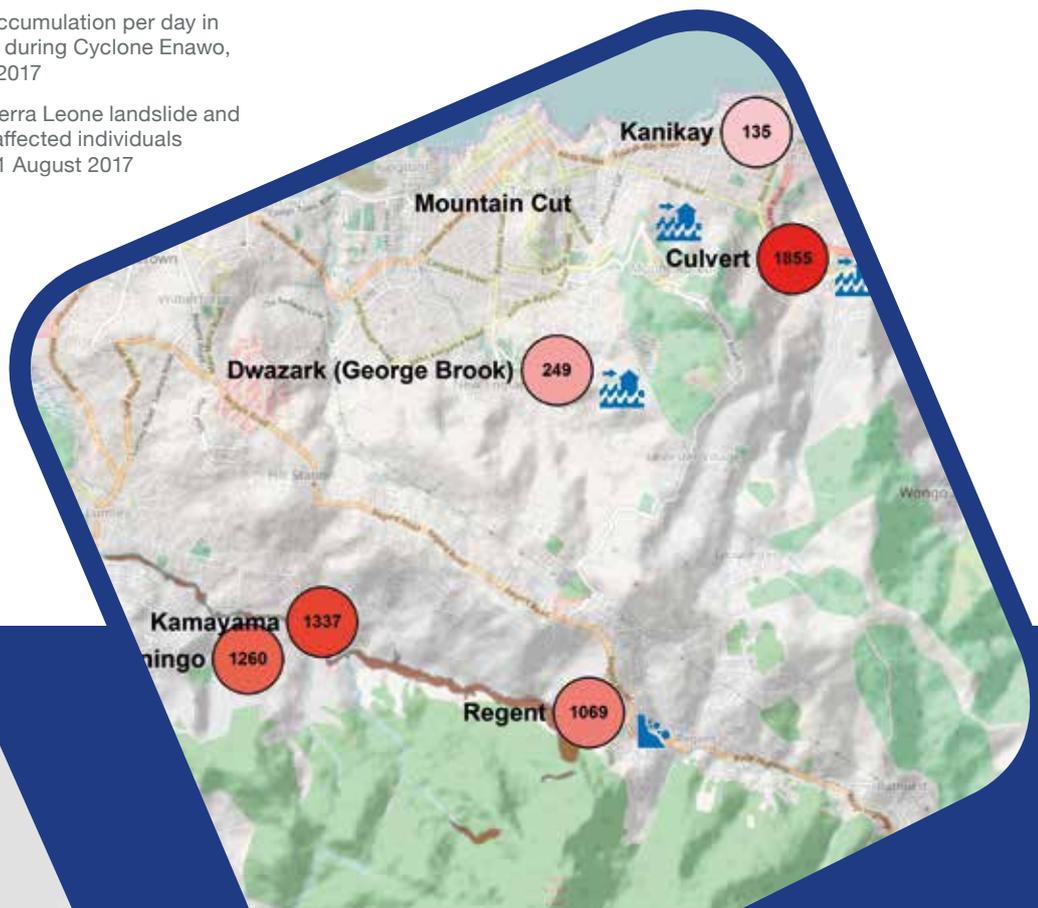
MapAction is a humanitarian mapping charity that works through skilled volunteers. Our mission is to save lives and alleviate suffering for people affected by disasters by helping to get the right aid to the right places more quickly. As well as responding rapidly to emergencies, we collaborate with humanitarian partners to help them enhance the speed and effectiveness of future disaster responses.



Left: buildings and individuals impacted by flooding in Departamento de Piura, Peru as at 10 April 2017

Top: rainfall accumulation per day in Madagascar during Cyclone Enawo, 7-9 March 2017

Below: Sierra Leone landslide and floods, affected individuals as at 21 August 2017





Message from our
Royal Patron



2017 marked my tenth year as Patron of MapAction. Over the past decade, demand for MapAction's help in providing crucial geographic information to humanitarian response teams has grown; its usefulness and impact have become more widely understood, and the expertise and reliability of its team well known.

Sadly, the need for MapAction's volunteer teams is as great as ever, with the number of emergencies and major climate events seeming to occur around the world with increasing frequency and severity. In the second half of 2017 we witnessed a particularly destructive Atlantic storm season, with Hurricanes Maria and Irma causing widespread destruction across the Caribbean. MapAction volunteers were there, informing the response from the earliest possible moment. As well as rapid response, MapAction has built upon its crucial work in disaster preparedness and resilience to help some of the world's most vulnerable communities.

One aspect of MapAction that I find particularly commendable is its ability to have such a powerful impact for what is, in fact, a relatively small organisation. It does so because its work informs decisions made at the very heart of humanitarian crises, and because it shares knowledge and expertise with other organisations in order to positively impact situations, even when MapAction volunteers can't be present.

I'm proud to continue to give my patronage to this unique, innovative and agile organisation. I hope you will also be inspired to support its vital and valuable work.

Letter from our Chairman

MapAction's 2017 was characterised by the word 'partnership'.

To my mind, this is excellent as we are an organisation that exists for and because of a great many organisations and individuals. I'm regularly delighted and reassured to see our members being so open to new ideas and working with others. Knowing MapAction, I have every confidence that ethos will continue.

Partnerships with the organisations and individuals that fund our work are every bit as important as those we forge in the response, preparedness and skill-sharing work that we undertake, and often our funding partners are also operational ones. 2017 saw some crucial new partnerships in several areas of our work.

The context in which we work continues to evolve. How to bring international and local efforts together effectively is a key debate for disaster preparedness and response activity and a growth in complex and climate-driven emergencies is challenging traditional response systems. Recent events have also brought into sharp focus the importance of safeguarding vulnerable people affected by humanitarian emergencies, a duty of care we take extremely seriously.

Our team strives to learn from every response and challenge, continually evolving new and better ways to provide support, through a growing range of partners. The sudden influx of Rohingya refugees from Myanmar into Bangladesh in November was MapAction's first emergency response with the World Food Programme (WFP), and was conducted with the willingness to adapt to both the partner and the situation that typifies MapAction teams.

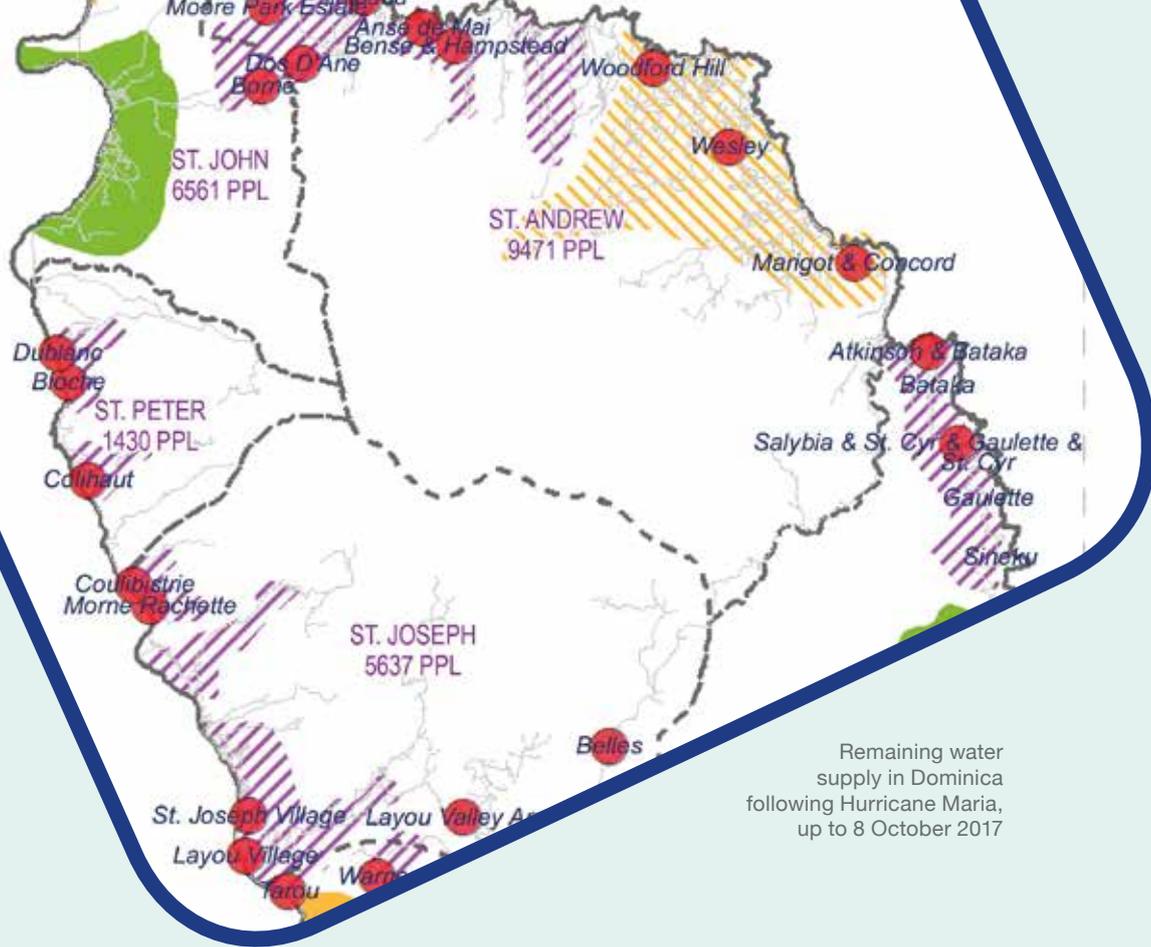
Floods, wildfires and a terrible Caribbean hurricane season along with several ongoing complex and protracted crises resulted in one of our busiest ever years for disaster response. There were 12 emergency deployments, three preparedness missions and training and remote mapping support delivered in 34 countries.

As I enter my third year as MapAction's Chair, I continue to be inspired by the commitment, professionalism and expertise of our volunteers, and the generosity of our supporters. It's a testament to how important our work is that so many people give so much of themselves to it. Thank you. I hope you continue to journey with us, to wherever we may be needed.



A handwritten signature in blue ink that reads "Nigel P. Press".

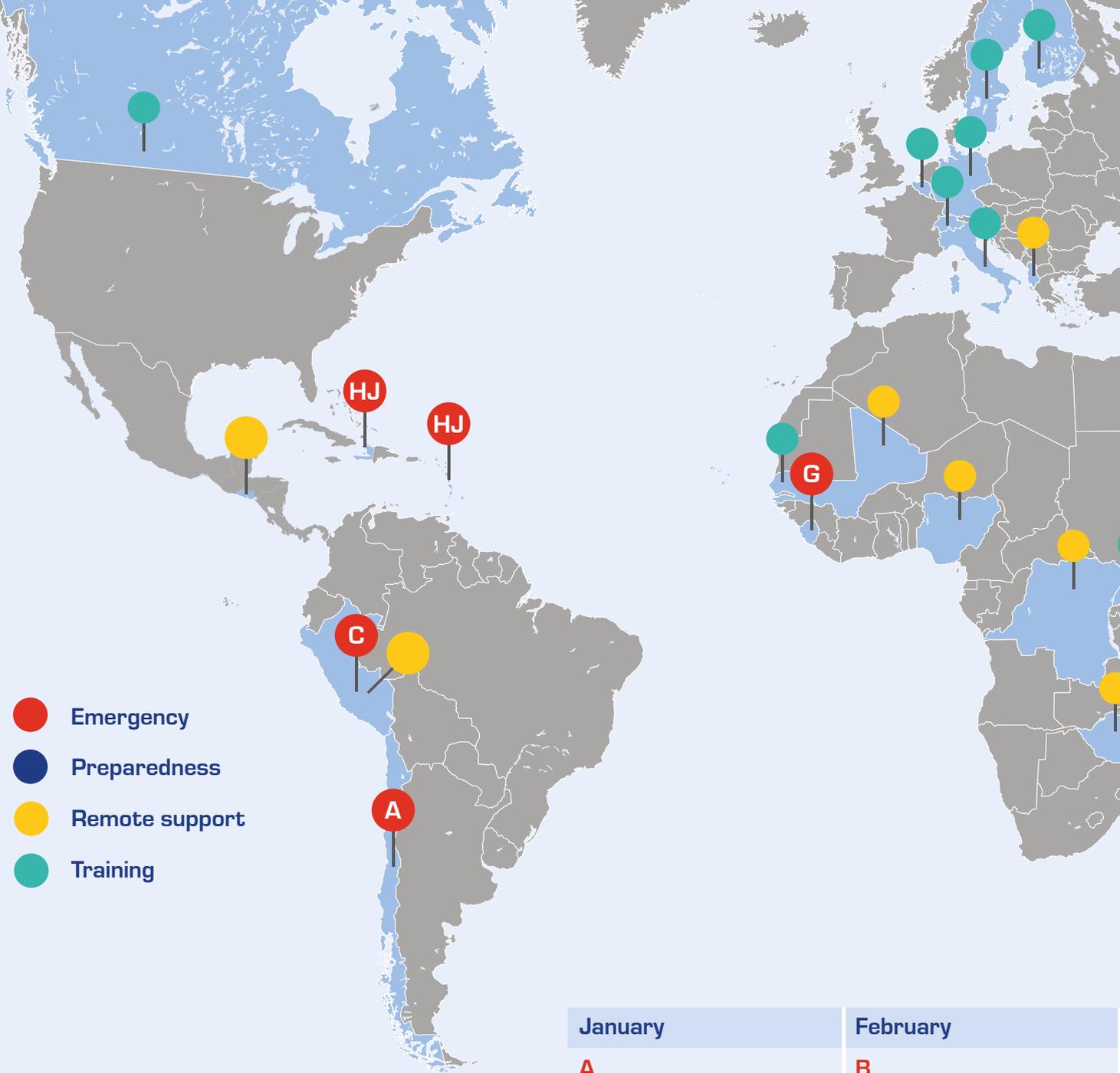
Nigel Press Chief of Trustees



Remaining water supply in Dominica following Hurricane Maria, up to 8 October 2017

In 2017, MapAction's team produced more than 270 maps that helped humanitarian teams respond to and prepare for emergencies in 34 countries.





- Emergency
- Preparedness
- Remote support
- Training

During 2017, MapAction's team dedicated 581 person days to disaster response, preparedness and training activities around the world.

*Barbados, British Virgin Islands, Dominica, Haiti, Turks & Caicos Islands.

	January	February
	A	B
Country	Chile	Madagascar
Event	 Wildfire	 Cyclone
	August	September
	G	H & J
Country	Sierra Leone	Caribbean*
Event	 Landslide	 Hurricane

Our global impact



March	April	May	June
C	D	E	F
Peru	Fiji	Vanuatu	East Africa
 Floods	 Preparedness	 Cyclone	 Population movement

	October		November
I	H & J	K	L
Nepal	Caribbean*	Papua New Guinea	Bangladesh
 Preparedness	 Hurricane	 Preparedness	 Population movement

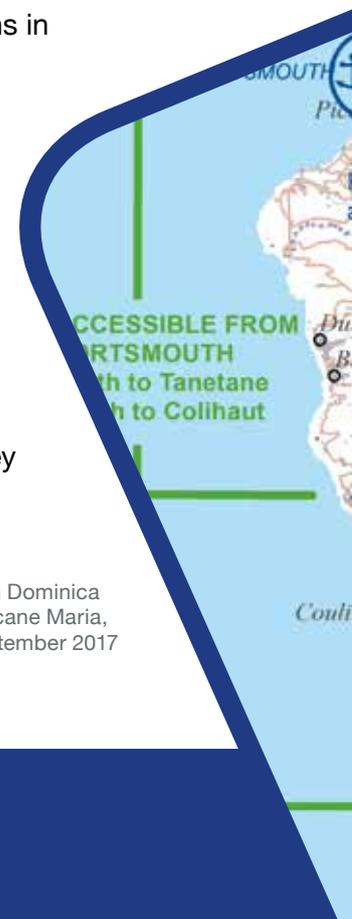
Disaster response

MapAction deployed 12 times in 2017.

As well as sudden onset disasters such as floods (Peru), landslides (Sierra Leone) and wildfires (Chile), we mobilised to help with complex, long-term emergencies including the displacement of the Rohingya population from Myanmar. In a year of severe storms, many deployments involved hurricanes and cyclones affecting islands including Madagascar in March, Vanuatu in May and large parts of the Caribbean from September. Thanks to our constant monitoring of potential emergencies, we were able to respond extremely quickly, with our teams sometimes arriving before predicted storms made landfall.

2017 demonstrated the strengths of MapAction's volunteer model. We have a large team of professional geographical information systems (GIS) and information management experts, whom we train to work in humanitarian response situations as highly skilled volunteers. With so many to select from, we can often send uniquely well suited personnel. In August, torrential rains in Freetown, Sierra Leone, led to a devastating mudslide resulting in the loss of nearly 500 lives, with 3,000 more people made homeless. A three-person MapAction team was requested to join the responding United Nations Disaster Assessment and Coordination (UNDAC) team. The team leader already knew Sierra Leone from the Ebola response, whilst the other two volunteers had specialist professional expertise in topographical slope analysis and mudslides, so were able to help assess risk of any further slides.

Across all responses our core aims remained the same - providing vital and timely information to our partners in easily understood formats, so they can minimise the impact of disasters on the people affected.



Humanitarian access in Dominica following Hurricane Maria, as at 21 September 2017

“ I would like to personally express my sincere gratitude and appreciation for the excellent work of the MapAction team. They developed high quality products that were appreciated at all levels, including the Prime Minister. They adapted to the context, taking initiatives and finding creative solutions to support the overall work of UNDAC. ”

Sergio Da Silva

UNDAC team leader in Dominica



Caribbean storms

The depth afforded by MapAction's volunteer model was seen in the responses to Hurricanes Irma and Maria in the Caribbean, with 10 team members deploying over six weeks, in support of the UK Department for International Development (DFID), UNDAC and the Caribbean Disaster Emergency Management Agency (CDEMA). MapAction had personnel present in Barbados (CDEMA Regional Centre), the British Virgin Islands, Haiti, Dominica and the Turks & Caicos Islands, with assessment trips to Anguilla and Antigua.

A further team member was deployed to provide longer-term assistance via our Transition Team. This new facility enables MapAction to meet partner requests for sustained support, with expert volunteers remaining in the affected country for extended periods on a paid basis.

Disaster preparedness

MapAction continued to use its experience of emergency disaster mapping and information management to help responders around the world prepare communities that are vulnerable to disasters to build their own capacity to respond. We work with country teams to understand which data and maps can be most helpful, sharing MapAction's knowledge of what has worked in different contexts and learning from their experiences.

In 2017, MapAction worked with the World Food Programme (WFP) to train key local personnel in both Fiji and Papua New Guinea in readiness for a disaster striking, as sadly often happens to both countries. We also provided remote mapping support to help build disaster resilience in Nigeria, Pakistan, Yemen and Zimbabwe.

MapAction joined the exciting 'Missing Maps' project in 2017, which aims to map the most vulnerable places in the world, in order that international and local NGOs and individuals can use those maps and data to better respond to crises affecting those areas. We worked in partnership with WFP and local volunteers to organise a Missing Maps 'mapathon' in Kathmandu, Nepal. With 24,000 buildings mapped during the six hour event, many more than expected, it was a great success. Around 50 enthusiastic volunteers from the local mapping community took part and further mapping work has since been happening in different parts of Nepal.

“ It was such a delight having MapAction representatives at the 8th ASEAN Emergency Response and Assessment Team (ERAT) induction course in Thailand. Their comprehensive explanations and experiences will be valuable for the participants in future deployments. ”

Adelina Kamal

Executive Director,
Coordination Centre for
Humanitarian Assistance (AHA Centre)



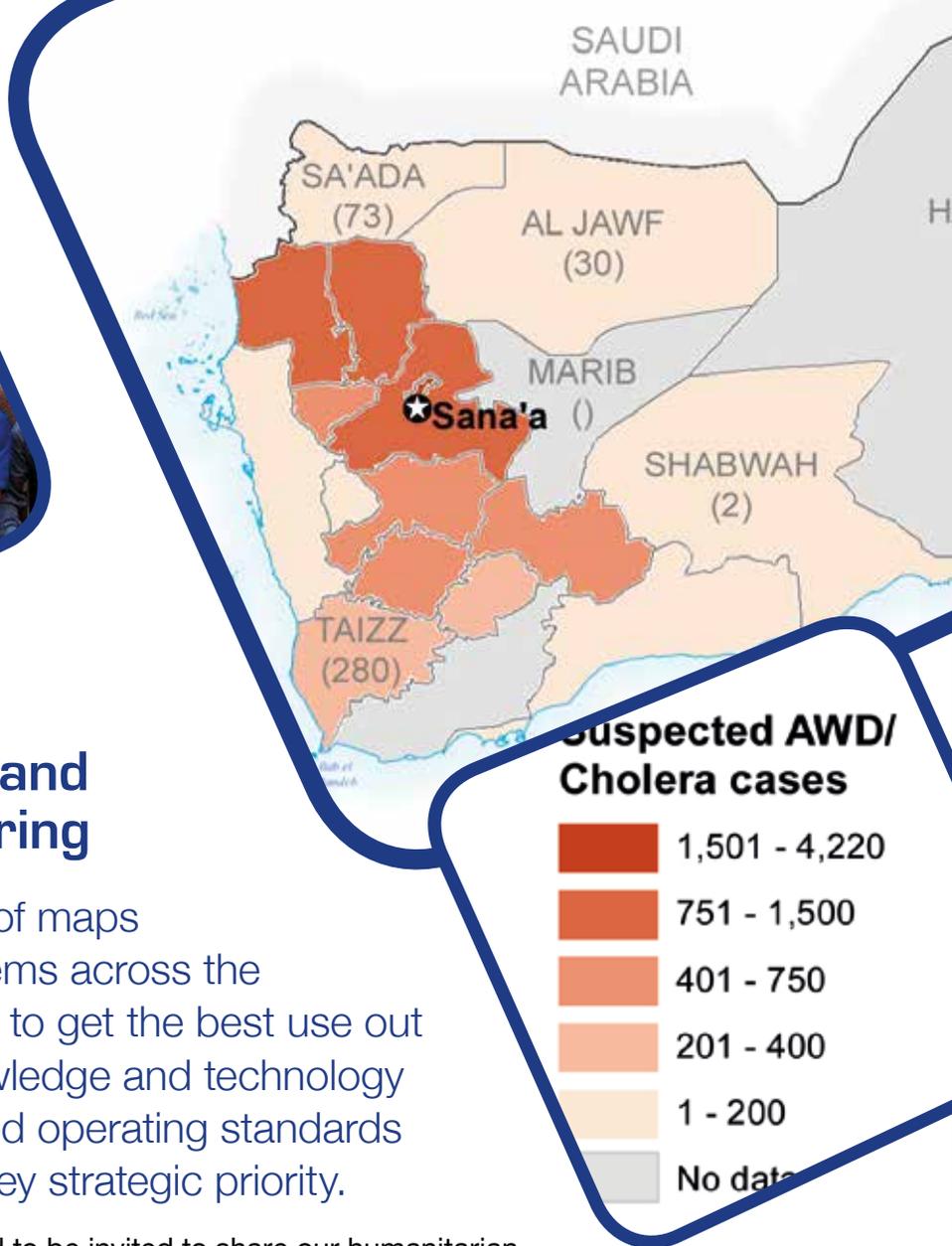


Sectoral skills and standards sharing

Supporting the use of maps and geospatial systems across the humanitarian sector, to get the best use out of the available knowledge and technology and to nurture shared operating standards and practices, is a key strategic priority.

We continue to be privileged to be invited to share our humanitarian mapping and information management knowledge, as well as to learn from and build relationships with other humanitarian organisations. During 2017, MapAction either hosted or participated in 18 external training simulations, courses and conferences worldwide.

MapAction was again invited to participate in the United Nations Committee of Experts on Global Geospatial Information Management (UNGGIM), with official observer status. These meetings provide a perfect opportunity to network and exchange ideas with different national and international organisations, to advocate for better quality and sharing of data during emergency responses and to look for potential supporters to help us achieve our mission.



Above: cholera cases in Yemen reported between 27 April and 11 May 2017

Our Volunteers

MapAction's exceptionally committed team of highly skilled and trained volunteers is ready to respond to emergencies anywhere in the world at very short notice, as well as leading much of our training, disaster preparedness, technical and organisational development work.

Our mapping volunteers are expected not only to be available for a two-week deployment at least once every two years, but also to attend seven out of 12 monthly training weekends each year, frequently camping in any weather.

In 2017, a total of 27 MapAction volunteers deployed to 12 emergency missions in 12 countries, with two of these missions covering wider, multi-country regions (East Africa and the Caribbean).

Twenty-five MapAction volunteers also either led training sessions for other humanitarian organisations, spoke at conferences or provided remote mapping support to our partner agencies and governments in different parts of the world. Twelve volunteers worked on software development and on developing MapAction's IT policies and administration. Our expert volunteer-based approach makes MapAction's work exceptionally cost-effective, and our membership structure means that without them, MapAction would be nothing.



“ I see Katharina's contributions to MapAction as helping to further your charity's objectives, which I strongly endorse. Her involvement also brought the benefit of that experience and expanded knowledge back to the workplace, so it's been win - win. ”

Dr Colin M Harris (PIEMA)

Director,

Environmental Research & Assessment (MapAction volunteer employer)



Karen Pinkerton

A senior scientist focused on flood risk data management at the Scottish Environment Protection Agency, Karen went on her first MapAction assignment to the Turks and Caicos Islands in September as part of our response to Hurricanes Irma and Maria. As well as creating detailed maps of Irma's impact across the whole region, Karen advised responders on the hazards likely to be caused by Maria so they could prepare before it reached land.



Dr Joanne Robbins

Jo is a weather impacts research scientist working at the Met Office who develops applications that forecast high impact weather events and other natural hazards. In August, Jo was part of a three-person MapAction team in Sierra Leone helping UNDAC respond to a large landslide and flash floods. Jo's professional expertise in landslide forecasting and meteorology made her input particularly valuable.



James Wharfe

James is a GIS analyst/programmer at Norfolk County Council. In October, he travelled to Bangladesh for his first assignment with MapAction to help WFP meet the needs of around 700,000 Rohingya refugees from Myanmar.



Partnerships and acknowledgments

Every year sees MapAction rely upon so many people and organisations: from our exceptionally dedicated team of volunteers, to those employers who continue to release them for humanitarian work at short notice; from the national, regional and international humanitarian agencies that host, support and protect our teams on missions, to those who invite us to provide them with training and mapping advice, ensuring that the inputs we make have the greatest possible impact, and the many individuals, companies, community groups, fundraisers, trusts, foundations and government funders that support us.

Without the inputs from all of these groups and more, MapAction could not do what it does, and we thank every single one of them. That is why we are always very keen to hear from organisations and people interested in working with us or supporting our work, and those who are already doing so.

We would like to use this opportunity to recognise and thank the organisations that have supported their staff to undertake missions as MapAction volunteers in 2017:

- Amec Foster Wheeler
- Aon Benfield
- Arup
- Astun Technology
- British Antarctic Survey
- Dr Foster
- Dundee City Council
- Environmental Research & Assessment
- Historic Environment Scotland
- Hylex
- Norfolk County Council
- Subsea Technology & Rentals
- The Environment Agency
- The Met Office
- The Scottish Environment Protection Agency



Institutional and operational partners

In 2017, we expanded our skill and knowledge sharing activities thanks to a major new grant from the Office of U.S. Foreign Disaster Assistance (OFDA), enabling MapAction to reach out to international, regional, national and local organisations worldwide, to help develop their capacity to use geospatial information systems in disaster response and preparedness activities. We started a new European Commission Civil Protection and Humanitarian Aid Operations (ECHO) funded project in partnership with independent humanitarian information provider ACAPS.

MapAction also entered into a new four-year funding partnership programme with DFID, a long-standing MapAction donor, to fund many of our emergency missions and ensure we are ready to respond when needed. 2017 was the final year of a three year grant programme with the Government of the Netherlands Ministry of Foreign Affairs, supporting crucial funding flexibility, and we were delighted that the grant was extended into 2018. Autumn's Caribbean hurricanes required our teams to work in close collaboration with CDEMA. MapAction also built on work with the Association of Southeast Asian Nations (ASEAN) AHA Centre.

With special thanks to:

- Our Royal Patron, Prince Harry
- The European Commission
- The Ministry of Foreign Affairs of the Netherlands
- UK Department for International Development
- Office of U.S. Foreign Disaster Assistance
- The Anson Charitable Trust
- The Calleva Foundation
- The Dulverton Trust
- The Fulmer Charitable Trust
- The G. C. Gibson Trust
- The Inchcape Foundation
- The Tietz Foundation
- Inner Wheel
- Rotary Clubs across the UK
- The Scottish Hydrographic Society
- Arup
- BP
- Ordnance Survey
- thinkWhere
- Claus Budelmann
- Farhad Vladi
- Jörg Pilawa
- All members of MapAction Deutschland e.V.
- Sherry Buchanan, William Spurgin and the John Younger Trust
- Stella Schmadl

Financial review

Several new multi-year grants enhanced financial stability amidst a picture of growth in operations. MapAction's model of specialist volunteers delivering services, supported by a small support staff team, continues to deliver sustainable value for money.

Expenditure

Total expenditure in 2017 was £1,143,863, up from £836,044 in 2016. It should be noted that this included £356,861 which was received from EU ECHO and immediately transferred to be spent by the Norwegian Refugee Council (NRC)/ACAPS under the terms of a joint project. Excluding that amount, MapAction's expenditure was £787,002, much more in line with 2016 and the underlying trend.

Expenditure on charitable activities increased during the year, from £723,817 in 2016 to £1,068,695 in 2017. MapAction continues to monitor and manage routine expenditure well, although the nature of the organisation's work means it can be difficult to accurately predict mission funding requirements.

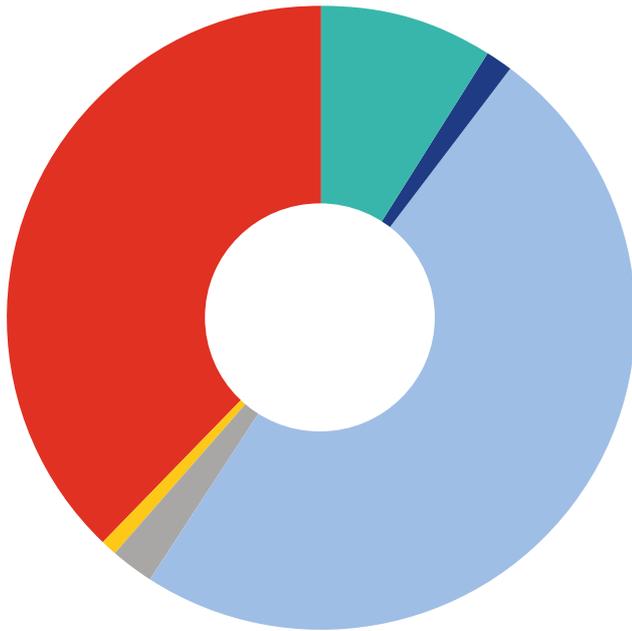
Income

MapAction's income increased to £1,097,155 in 2017, from £575,586 in 2016, thanks to a greater level of restricted income under a few major grant-funded programmes. It is expected to be maintained at close to this level in 2018. Going forward, there will be an increased focus on raising unrestricted income.

As at 31 December 2017, total funds stood at £591,666 compared to £643,352 in 2016. This represented a net deficit of £47,779, which was lower than budgeted. £531,046 was unrestricted compared to £639,352 in 2016. Increased investment in fundraising and marketing should see subsequent years hit balanced budgets.

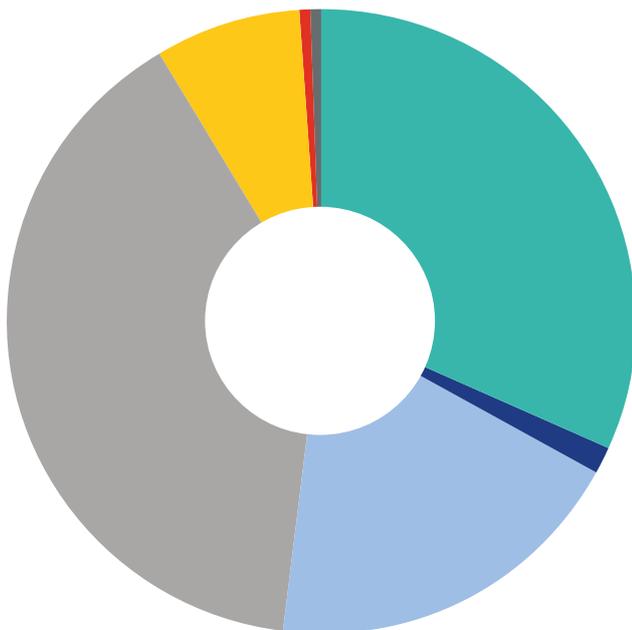
“ We are delighted that our major funders demonstrated their commitment to MapAction in 2017 with new packages of support extending into and beyond 2018. ”

Liz Hughes
Chief Executive



Income 2017

Trust and private donors	£160,368
Corporate donors	£23,726
Government and institutional donors*	£859,353
Field operations	£38,176
Other income	£14,868
Interest received	£664
TOTAL	£1,097,155



Expenditure 2017

Disaster response	£318,791
Disaster preparedness	£15,314
Capacity building	£189,080
Development projects	£394,188
Fundraising	£75,168
Governance**	£7,387
Monitoring & evaluation	£2,800
TOTAL	£1,143,863

*This figure includes £356,861 paid to NRC as part of a joint grant from EU ECHO.

**Governance is carried out by an independent Board of Trustees, ensuring accountability. Annual reports and accounts are submitted to the Charity Commission for England and Wales (registered charity number 1126727).

Looking ahead

Liz Hughes

Chief Executive



“ Our focus on partnerships in 2017 reflects not only a fundamental aspect of our way of working, but also the increasing importance of collaboration across the humanitarian sector; as resources fail to keep pace with demand, it’s becoming ever more crucial to amplify them by sharing and working in partnership with others. ”

The context in which we operate is continually evolving, creating new challenges and opportunities to improve our responses. The UN Office for the Coordination of Humanitarian Affairs (OCHA), a key MapAction partner, estimates that in 2018 there will be 128 million people needing urgent, life-saving assistance around the world*.

Complex emergencies continue to force large numbers of people to migrate in uncertain or dangerous circumstances, and recent weather events in the Horn of Africa, the Caribbean and the Pacific leave us in no doubt that climate change is dramatically changing how people live. Meanwhile, advances in technology are opening up new opportunities to improve the speed and impact of our work.

That MapAction continues to be seen by many in the sector as a ‘go-to partner’ for mapping and information management expertise suggests that we continue to move in the right direction. In 2018, we will continue to build on our existing partnerships, particularly at regional and national levels, as well as forging new ones, to help strengthen the effectiveness of humanitarian responses globally.

In the latter part of 2017, we added to our staff team in the areas of training for our members and partners, and communications with our supporters, partners, and





Overview of landslide and floods in Freetown, Sierra Leone, 19 August 2017

the wider world. We also took steps to increase our resourcing of technical innovation and monitoring and evaluation of our work, to continuously improve the way we do things. This gives us a very sound platform to extend and enhance our activities in 2018 and beyond.

2018 also sees the planned review of MapAction’s organisational strategy, as we come to the end of the five-year plan we defined in 2014. This gives us a great opportunity to consider new ways to bring information management to humanitarian responders as efficiently and effectively as we can, as well as to review and build on our achievements. It will require us to reflect on ways to assist in complex and often inaccessible contexts, and to provide new technical solutions to do this.

The unparalleled dedication and expertise of our volunteers, supported by an equally dedicated and experienced staff team, is one constant that provides an extremely strong basis for this process and for all our future activities. Whilst the humanitarian context continues to challenge us all to find new ways to meet people’s needs, I am positive that the MapAction team will continue to identify the right ways to make an effective contribution.

*UN OCHA’s Global Humanitarian Overview 2018

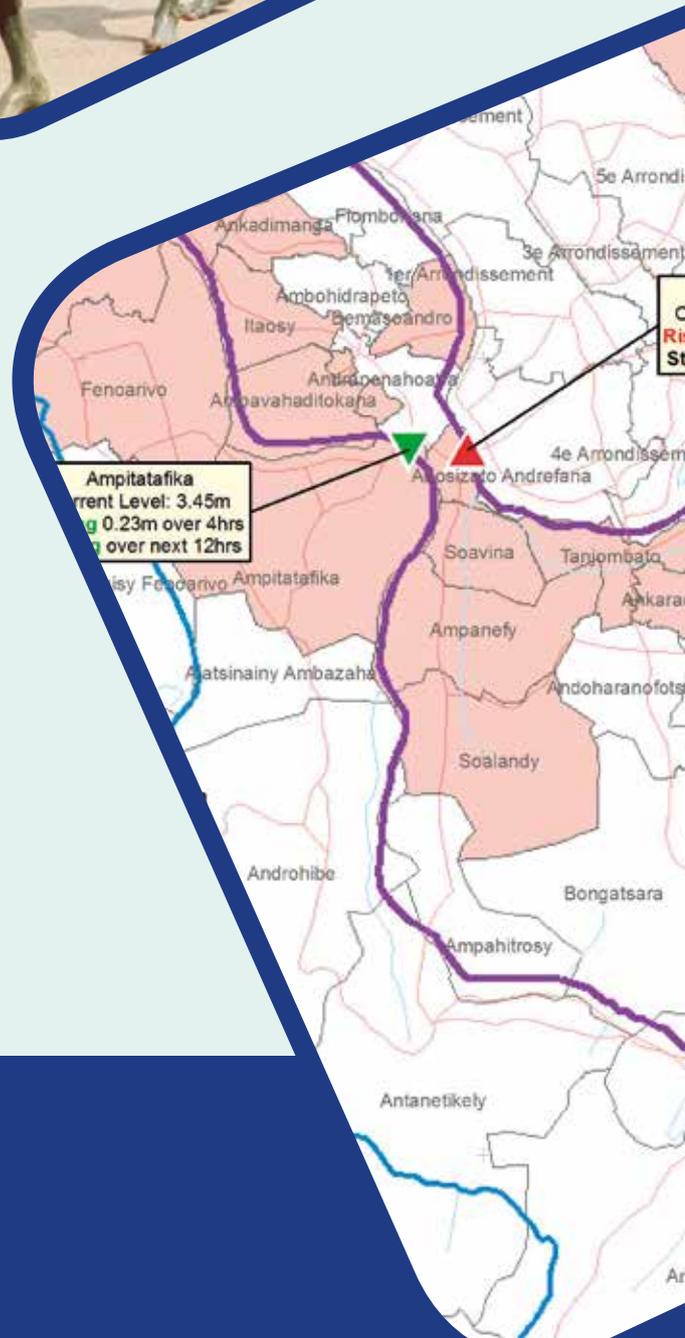
To be part of this journey, please get in touch.
Call **+44 (0) 1494 568 899** or email **fundraising@mapaction.org**



Photo credits

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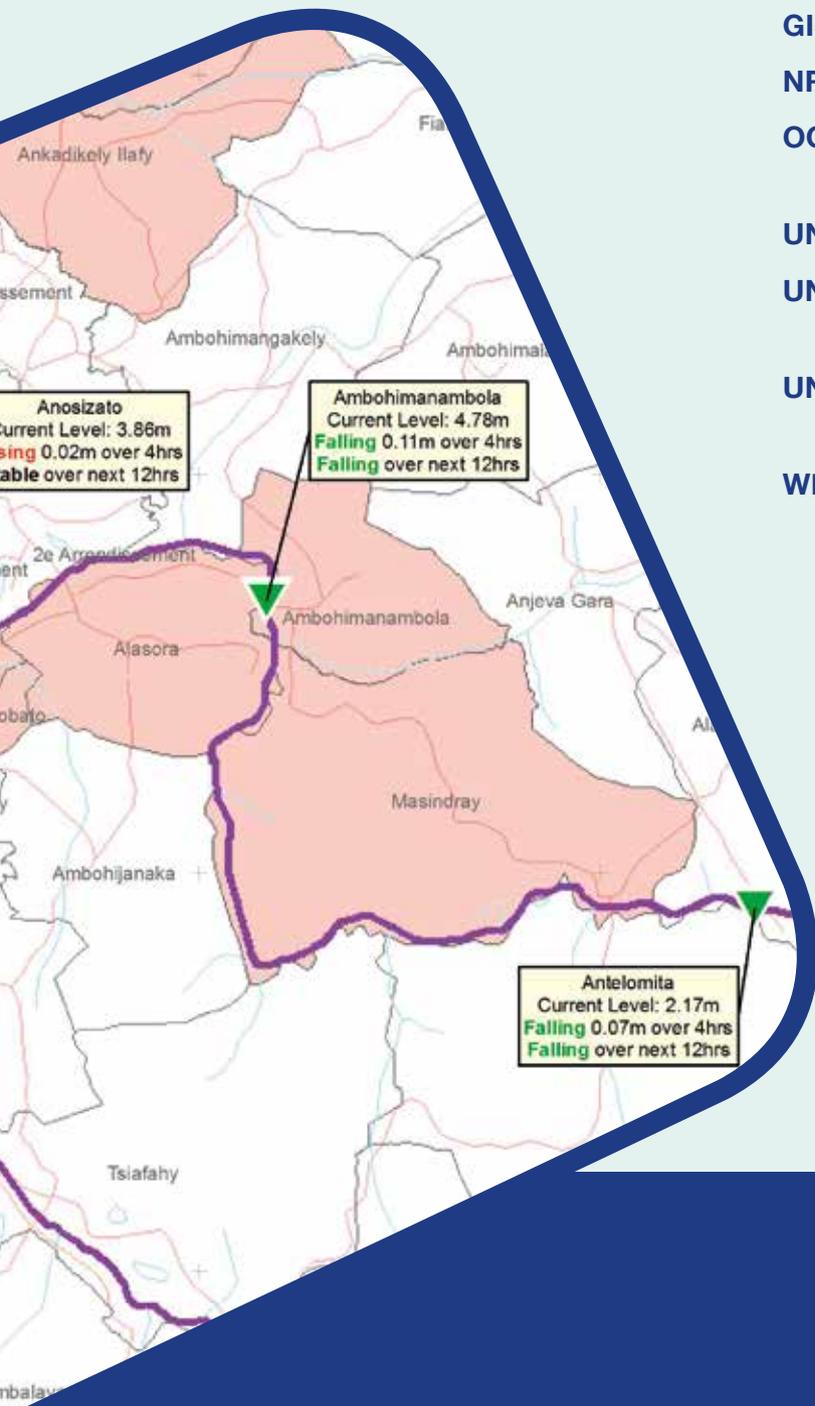
Cover	Russell Watkins/DFID
6	James Wharf
9	Rodrigo Rodrich/Practical Action
10	NOAA Environmental Visualization Laboratory
13	Alan Mills
14	Below: Jonathan Gatward
15	Knut Kjærkleiv/UNDAC
19	Above: Jonathan Gatward Below: Ben Parker/IRIN
20	Alan Mills
21	Left: Alan Mills Right: Saikat Mojumder/WFP





Glossary

AHA Centre	ASEAN Coordinating Centre for Humanitarian Assistance
ASEAN	Association of Southeast Asian Nations
CDEMA	Caribbean Disaster Emergency Management Agency
DFID	(UK) Department for International Development
ECHO	European Civil Protection and Humanitarian Aid Operations
GIS	Geographical information system
NRC	Norwegian Refugee Council
OCHA	(United Nations) Office for the Coordination of Humanitarian Affairs
UN	United Nations
UNDAC	United Nations Disaster Assessment and Coordination
UNGGIM	United Nations Global Geospatial Information Management
WFP	World Food Programme



Flooding in Antananarivo, Madagascar, following Cyclone Enawo, as at 10 March 2017

For more information about how you can support MapAction's work, please call us on **+44 (0) 1494 568 899** or email **fundraising@mapaction.org**

“ My sincerest gratitude to the MapAction team, particularly for its flexibility and professionalism. Once again, MapAction has demonstrated its added value to the UNDAC system. ”

Jesper Holmer Lund
Chief, Emergency Services Branch
UN OCHA

Map (right): humanitarian access in Dominica following Hurricane Maria, as at 24 September 2017



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