



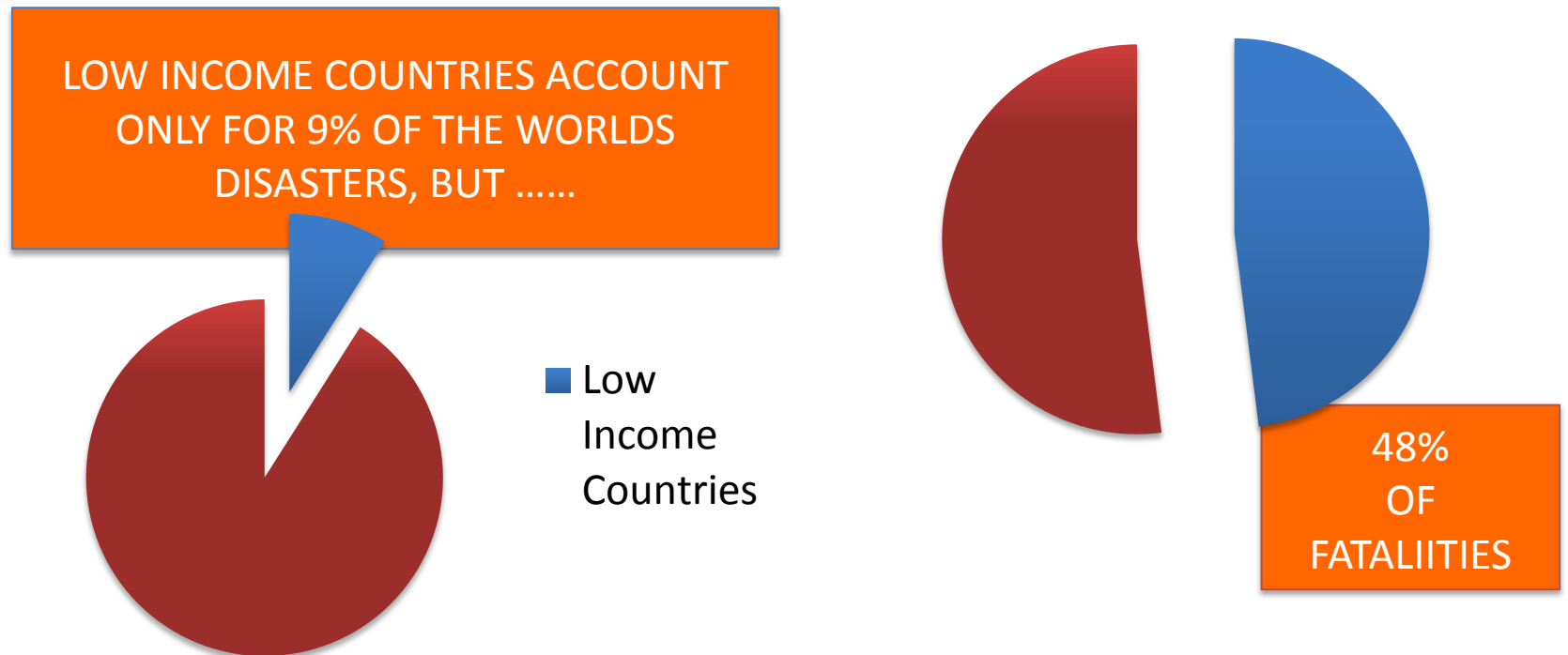
The Critical Role of Emergency Telecommunications

**AIDF Africa Summit
Addis Ababa, 2/02/2016**

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DISASTERS AFFECT EVERYONE

but they impact poor and vulnerable the most



- ❖ 2000 to 2015, 1.3M lives lost and over 3.2B affected by natural disasters.
- ❖ Economic losses from disasters estimated at \$2.1 trillion



ITU AT A GLANCE

ITU-D

Vital role in policy, regulation, and legal frameworks development. Implementation of ICT projects and capacity building activities.



ITU-R

Vital role in global management of the radio-frequency spectrum and satellite orbits



Radio Regulations

ITU-T

Vital role in developing international standards defining elements in the interoperability of ICT global infrastructure.





ITU approach to Emergency Telecom

- Alert the population before, during and after the disaster
- Constantly train responders
- Convey information necessary for important decision-making during all the phases
- Coordination during the interventions between the different actors

Saving Lives



KEY ACTIVITIES OF ITU

Development and Review of National Emergency Telecommunication Plans

Deployment of Emergency Telecommunication Equipment for preparedness, response and reconstruction.

Human and Institutional Capacity Building through workshops, conferences and various forums.

Forging Stakeholder Partnerships as a form of resource mobilization.

Project Design and Implementation (Early Warning Systems, Remote Sensing, etc)

ITU Emergency Assistance

ITU provides:

- Satellite Mobile Phones (on loan)
- Satellite Terminals (on loan)
- **Training** on Equipment if needed
- **Airtime**
- **Freight** to and from the country

ITU Framework for Cooperation in Emergencies (IFCE)

Technology Partners

- Satellite Operators and Service Providers
- Land Earth Station Operators
- Telecom Operators
- GIS and Remote Sensing Operators
- Radio Communication Equipment Providers

Financial Partners

- Governments
- Private Sector
- Development Banks
- Regional Economic Groups
- Philanthropic foundations
- International Organizations

Logistics Partners

- International Couriers
- Air-Transport Operators
- National Airlines
- International Organizations

Partnerships



GRAND DUCHY OF LUXEMBOURG
Ministry of Foreign Affairs

Directorate for Development Cooperation



Innovation Areas

Big data to track epidemics

- The Ebola App focuses on sharing precise information, locations and focal points related to Ebola with the public and organizations

Eyes in the sky

- Use of drones to monitor post-disaster situation in unreachable areas
- Instant transmission of Helicopter Forward-looking Infrared images to radios in Police cars

M2M

- Use of Machine-to-Machine communication in collecting, processing and creating scenarios in disaster situations

UGANDA



- A sensors placed in the river;
- A solar-powered sirens adjacent to the river, with 10 mile radius
- A solar powered Control Centre at the District headquarters with backup computers to monitor the performance of the sensors and siren system.
- Once the water levels reach a certain threshold on the sensor, the siren is automatically activated.
- Staff at the control center also use the siren system to broadcast messages in English and Lunyole, the local language, to guide residents to safely evacuate.



**ICTs and
Emergency
Telecommunications
Save Lives
Thank you**