



**SAVING LIVES**

26-28 January 2016, Kuwait City, Kuwait

# **EMERGENCY TELECOMMUNICATIONS**

## **GET - 2016**

**Dr. Cosmas ZAVAZAVA**  
Chief of Department,  
Projects and Knowledge Management,  
ITU



1964-2007: Heat waves and droughts cut cereal output nearly 10%. (Nature, 2016)



**Sea Level Rise 225mm (1880-2013)**

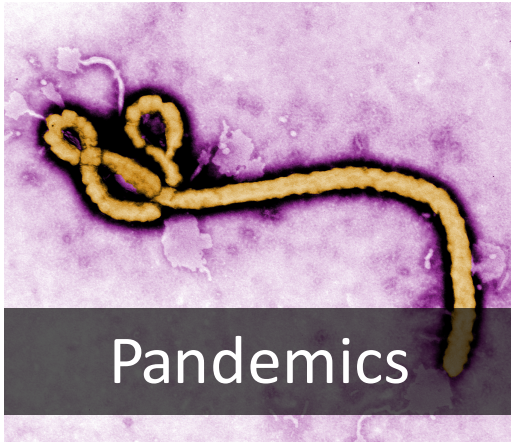
**Estimated economic losses by 2050 = 1 trillion \$ a year. (Source: NASA, 2016)**



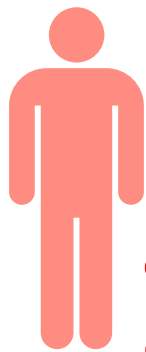
**2015 Was Hottest Year in Historical Record**



# 20-YEAR REVIEW SHOWS 90% OF DISASTERS ARE WEATHER-RELATED



# IMPACTS (2000-2015)



1.3

**MILLION**

LOST LIVES



3.2

**BILLION**

AFFECTED



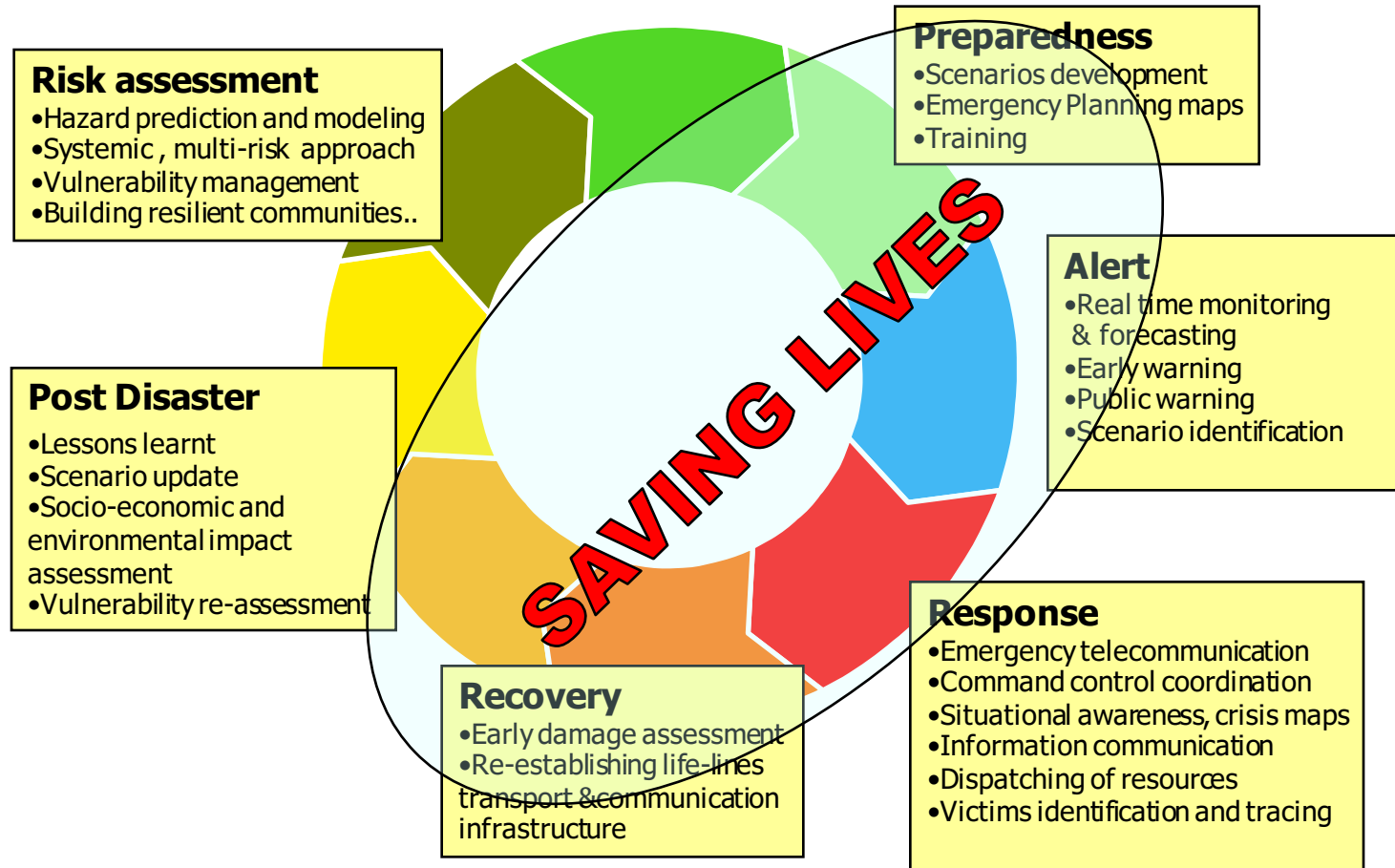
2.1

**TRILLION**

ECONOMIC LOSS (USD)



# ITU APPROACH: ICT FOR DISASTER RISK MANAGEMENT



# ITU KEY OPERATIONAL ACTIVITIES



**POLICY, LEGAL AND  
REGULATORY  
FRAMEWORKS**



**DESIGN NATIONAL  
EMERGENCY  
TELECOMMUNICATION  
PLANS**



**SETTING UP EARLY  
WARNING SYSTEMS**



**CAPACITY BUILDING**



**DEVELOPMENT OF ICT  
APPLICATIONS FOR  
EPIDEMICS (EBOLA,  
DENGUE FEVER, BIG  
DATA)**

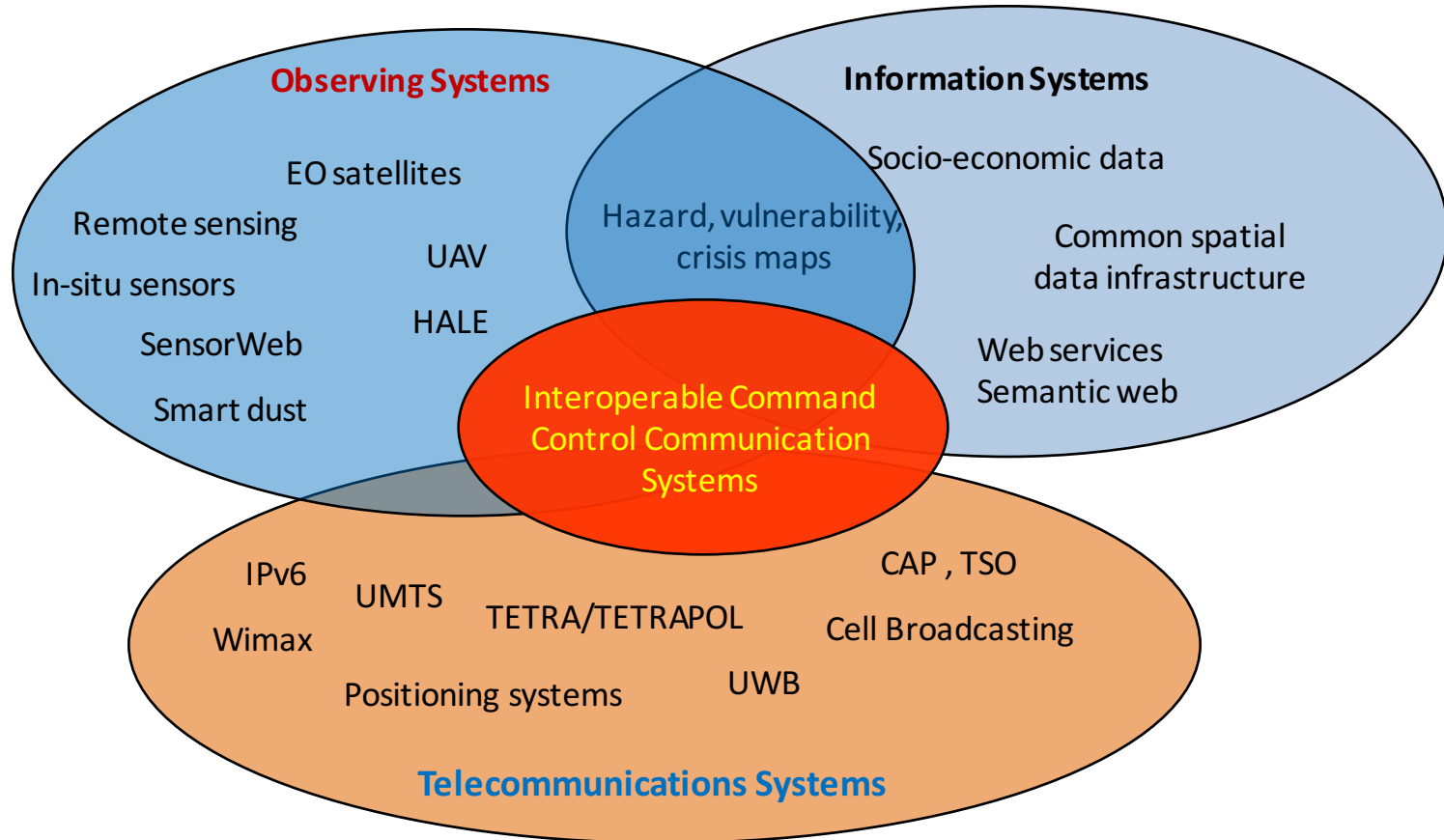


**DISASTER RESPONSE**





# HYBRID TECHNOLOGIES







# 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

# POWER OF PARTNERSHIPS

QUALCOMM



الثريا  
THURAYA

inmarsat



中华人民共和国工业和信息化部  
Ministry of Industry and Information Technology of the People's Republic of China



iridium

Azercell



Terre Star  
Networks



UNOSAT  
satellite imagery for all

cnes  
CENTRE NATIONAL D'ÉTUDES SPATIALES



FedEx  
Express

AIRBUS  
GROUP

etc  
EMERGENCY TELECOMMUNICATIONS  
CLUSTER

emergency.lu



GOO GROUP ON  
EARTH OBSERVATIONS

KYRGYZTELECOM  
joint stock company



ROHDE & SCHWARZ

STC  
الاتصالات السعودية



Government of Canada  
Gouvernement du Canada

Întreprinderea de Stat  
Centrul Național  
pentru Frecvențe Radio

adpc Asian Disaster Preparedness Center  
Safer communities and sustainable development through disaster risk reduction

Canada  
Industry Canada  
Industrie Canada



"National Telemedicine Agency"  
Research-and-Production Union



Holy Family Hospital  
Bethlehem  
An Institute of the  
Order of Malta

WGET  
COLLABORATION  
Working Group  
on Emergency  
Telecommunications  
IASC

Knowledge to Lead  
unitar  
United Nations Institute for Training and Research



# MINISTERIAL VISION...?



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