# **iridium**<sup>®</sup> Everywhere

#### **ICTs in Disaster Response**

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### Overview

- Role of ICTs in disaster management
- Advantage of satellite networks
- Regulatory considerations: M2M
- Policy Recommendations

## Iridium

A vital, global communications provider of mobile voice and data services via 66 in-orbit satellites

- Serving 900,000 subscribers
- Key Applications: handsets, machine-to-machine (M2M), maritime, aviation, government, emergency & remote voice and asset tracking
- Building Iridium NEXT constellation. Two successful launches of 20 satellites
- New constellation will deliver expanded capacity and higher data speed capabilities
- Global Coverage

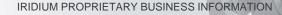




#### Historical Usage of Iridium for Disaster Recovery

Evervwhere

- Taiwan Earthquake (1999)
- September 11 (2001)
- Asian Tsunami (2004)
- Hurricane Season in US and Caribbean (2005)
- Pakistani Earthquake (2005)
- Hurricanes Gustav, Hanna and Ike (2008)
- Tropical Cyclone Aila (2009)
- Zimbabwe Floods (2009)
- Haiti Earthquake (2010)
- Japan Earthquake (2011)
- Hurricane Sandy (2012)
- Nepal Earthquake (2015)
- Ecuador Earthquake (2015)
- Hurricane Harvey, Irma, Maria (2017)







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## **Role of ICTs in disaster management**

- Essential in preparing and preventing for disasters
- Vital in mitigating their impact on communities at risk

ICTs can improve information sharing, resource allocation, communication, and collaboration among emergency services. Specifically, they can help:

- **DETECT** needs earlier and predict crises better
- ENABLE greater scale, speed and efficiency of response and assistance delivery
- ENHANCE the specificity of resource transfers to match needs of communities at risk
- INCREASE accountability and transparency
- **OFFER** new platforms for training or raising awareness



# **Advantages of Satellite Networks**

- Reliability
- Autonomy
- Geographic coverage
- Cost-effective
- Interoperable





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#### **Regulations: Facilitate not Inhibit**

- Are traditional regulatory frameworks inhibiting disaster response?
- Example: M2M applications
  - Range of solutions for: environmental monitoring, disaster detection, early warning
  - Emerging solution for disaster response that doesn't fit traditional regulations
- Regulatory review an essential part of disaster risk reduction





### Recommendations

How to best leverage ICTs in emergency scenarios? Preparation

- Develop disaster management plans
- pre-position emergency equipment
- Training
- Regulation
- Simplified licensing procedures in emergency situations
  - No customs/import restrictions
  - Reduce licence fees
  - Relax local gateway requirements

Collaboration

- Partner with industry
- Encourage collaboration among ICTs





# Thank you



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