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World Food Programme

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# The Role of the Regulator in Disaster Management Tabletop Simulation Exercise



*Hlekiwe Kachali & Ria Sen*

# *What is a Simulation Exercise (SimEx)?*



<http://etc.ch/3eDD>

**To connect to Direct Poll and vote online: <http://etc.ch/3eDD>**

# *Goal of this SIMEX*

*To demonstrate the role of telecommunications regulators in different parts of the disaster management cycle*

*Luscious*

*Luxurious*

*Lovely!*



# *The situation*

- We are currently in declared tropical cyclone (TC) season.
- The Lovely Weather Service (LoWS) has been monitoring an area of low pressure located several hundred kilometres off the Lovely group of Islands.
- This morning, LoWS has officially classified the system as *Tropical Cyclone Uti*.
- TC Uti is tracking eastward at about 25 km/h.
- Lovely has *2 mobile network operators*, i) *Lovely Link* and ii) *Lokal Telekom*

# *Your role: regulator*

1. Connect to the voting app/site
  - use QR code or website link provided
2. Read the question and multiple choice responses
3. Answer the question based on the scenario and on your own perspective and understanding
  - there are no wrong answers
4. We'll have a brief discussion following each question & answer
5. Need clarification? Ask the exercise controller!

# Supporting information

- ICT country profile
- Telecommunications features map
- Connectivity maps
- SOP for emergency telecommunications disaster response



\*\*\*SIMULATION EXERCISE ONLY\*\*\*

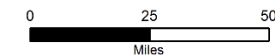


## Lovely Islands

### Country Overview

#### Humanitarian Features

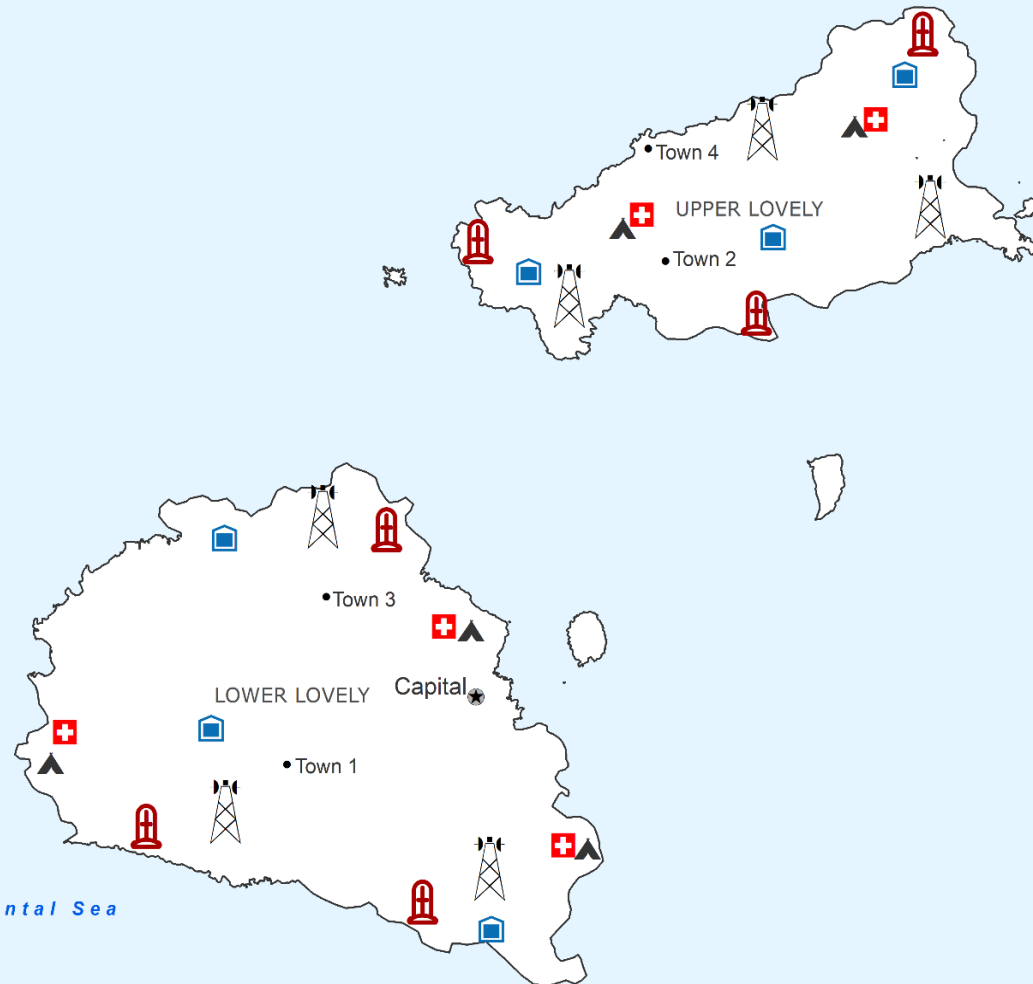
- ★ National Capital
- Major Town
- 📶 Mobile network operator
- 🚒 Siren Systems
- 🏠 Warehouse
- 🏥 Clinic
- ⚓ Shelter



\*\*\*SIMULATION EXERCISE ONLY\*\*\*

North Continental Sea

South Continental Sea



# Telecommunications and humanitarian features



# *Lovely Weather Service (LoWS) advisories*

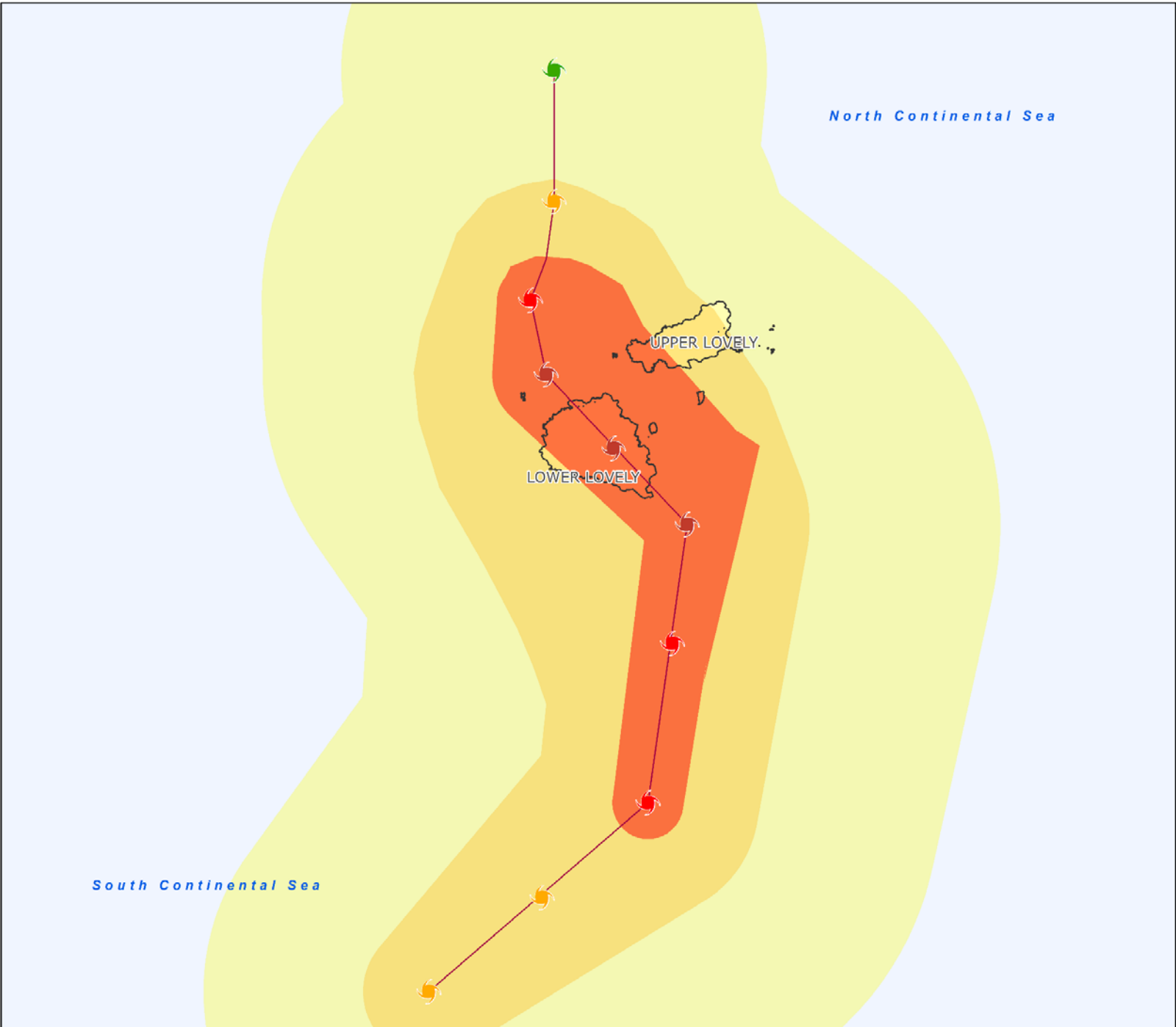


## ➤ LoWS advisory 1



- TC Uti rapidly strengthened over past 24 hours and has grown into a Category 4 cyclone with 225 km/h winds.

## ➤ LoWS advisory 2

- TC Uti will soon make landfall on Lower Lovely and is headed for Upper Lovely.



**\*\*\*SIMULATION EXERCISE ONLY\*\*\***








**ITU**




**Lovely Islands**

**Tropical Cyclone Uti**

Wind speed

-  < 110 km/h
-  110 - 185 km/h
-  185 - 240 km/h
-  > 240 km/h

Wind buffers

-  120 km/h
-  90 km/h
-  60 km/h

0 25 50  
Miles

**\*\*\*SIMULATION EXERCISE ONLY\*\*\***

*Tropical Cyclone Uti*

Tracking Map

# PREPAREDNESS PHASE

The international NGO Border Telecommunications has been tracking TC Uti. They called the Ministry of Development and would like to donate 2-way radio equipment to be used by the community.

The 2-way radio equipment uses the frequency band allocated for emergency telecommunications.

You:

- a) allow the donation/use of the equipment as is
- b) request for the equipment to be re-programmed before donation to use a different frequency
- c) ask Border Telecommunications to donate the equipment to the regulator instead
- d) ask Border Telecommunications to donate other equipment



<http://etc.ch/3eDD>



*Results*

\*\*\*SIMULATION EXERCISE ONLY\*\*\*



### Lovely Islands

#### Network Coverage

*Pre Tropical Cyclone Uti*

- ★ National Capital
- Major Town
- ⌘ Mobile network operator
- 🚒 Siren Systems

\*\*\*SIMULATION EXERCISE ONLY\*\*\*

\*\*\*SIMULATION EXERCISE ONLY\*\*\*



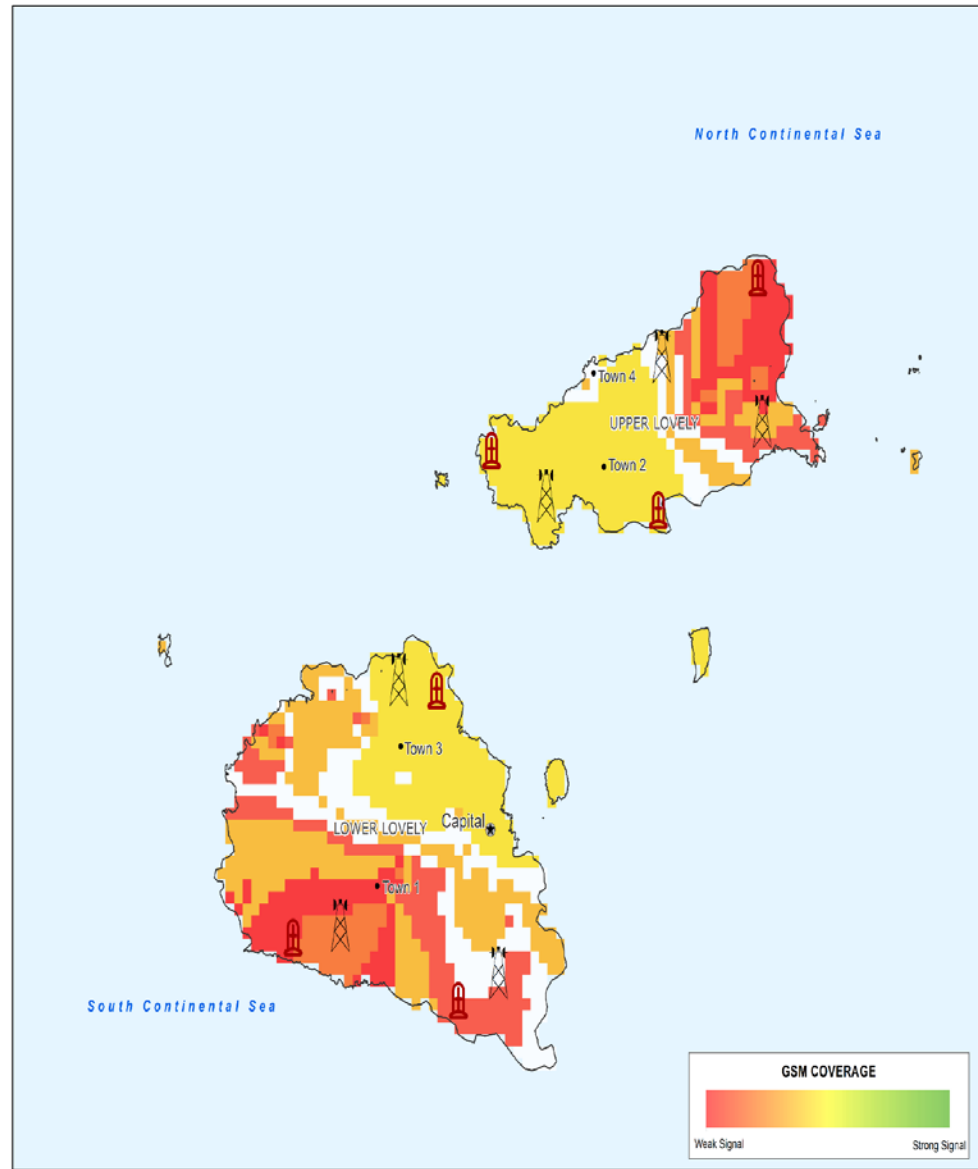
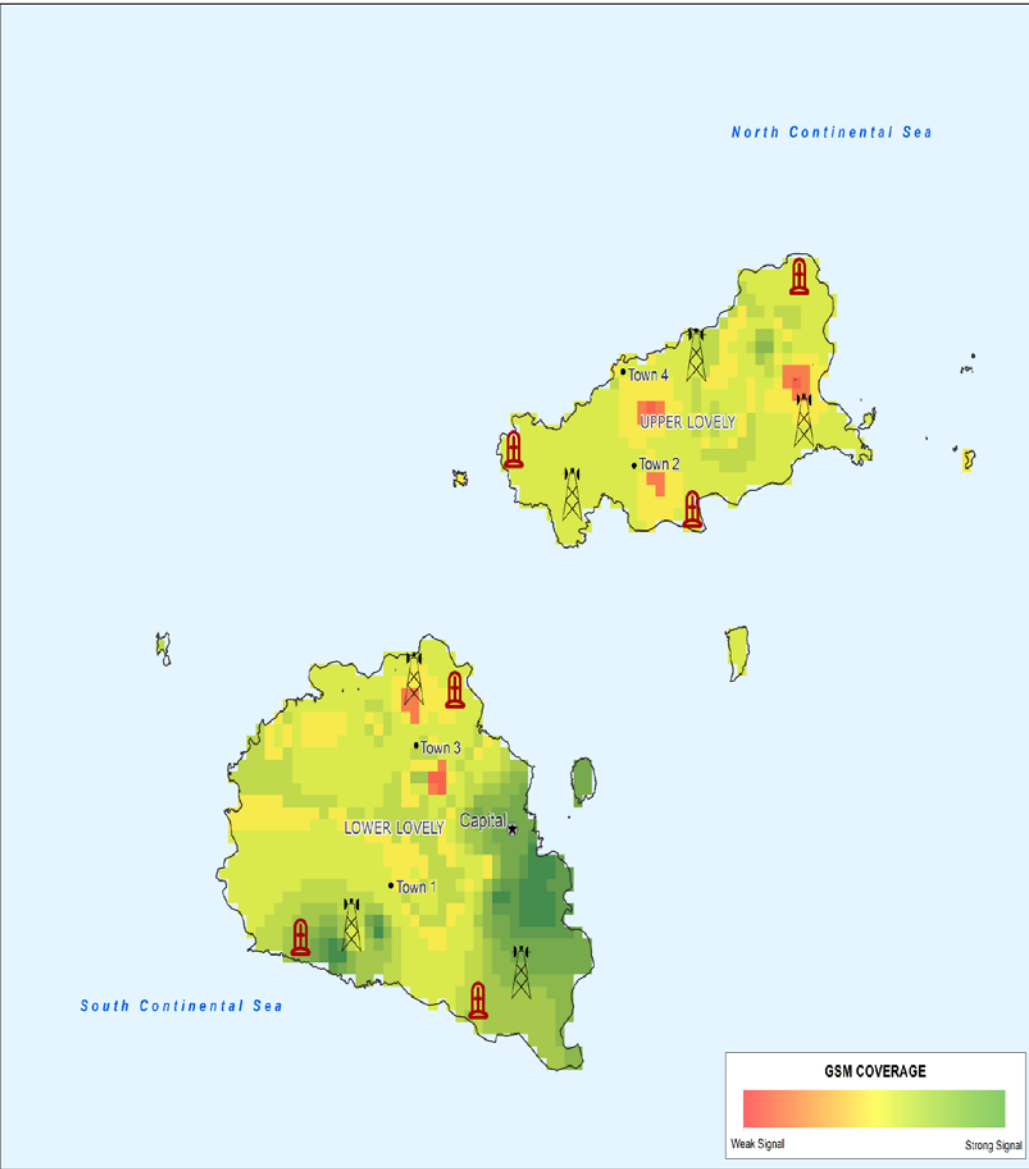
### Lovely Islands

#### Network Coverage

*Post Tropical Cyclone Uti*

- ★ National Capital
- Major Town
- ⌘ Mobile network operator
- 🚒 Siren Systems

\*\*\*SIMULATION EXERCISE ONLY\*\*\*



*Before*

*After*

## Tropical Cyclone Uti Network Coverage

# IMPACT PHASE

Based on the infrastructure damage assessment information, you have decided to use satellite communications to restore service.

Satellite operators have donated capacity.

However, Lovely's telecommunications regulations do not allow for uplink transmission.

Should you:

- a) relax the regulations in this instance
- b) decline the capacity donation
- c) accept the donation but only under current regulations
- d) propose another solution



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*Results*

# RESPONSE PHASE

The affected population has moved to an area with 95% Lovely Link mobile coverage.

The national disaster management office wants to send urgent SMS messages to the affected population.

You realise that Lokal Telekom customers will not receive the SMS broadcast.

You:

- a) ask Lokal Telekom to build new towers faster
- b) regulate/allow local roaming
- c) regulate tower and site-sharing
- d) advise Lovely Telekom to increase their market share by selling new SIM cards to Lokal Telekom customers



<http://etc.ch/3eDD>





*Results*

# RESPONSE PHASE

Among **the** affected population **are those who are** deaf, blind or cannot read.

To ensure access to information for all, you advise authorities to:

- a) send relief messages by SMS only;
- b) send relief information via multiple channels;
- c) rely on the community to relay relief notifications to deaf and/or blind people;
- d) use multiple channels and send notifications in written, audio and visual formats



<http://etc.ch/3eDD>



*Results*

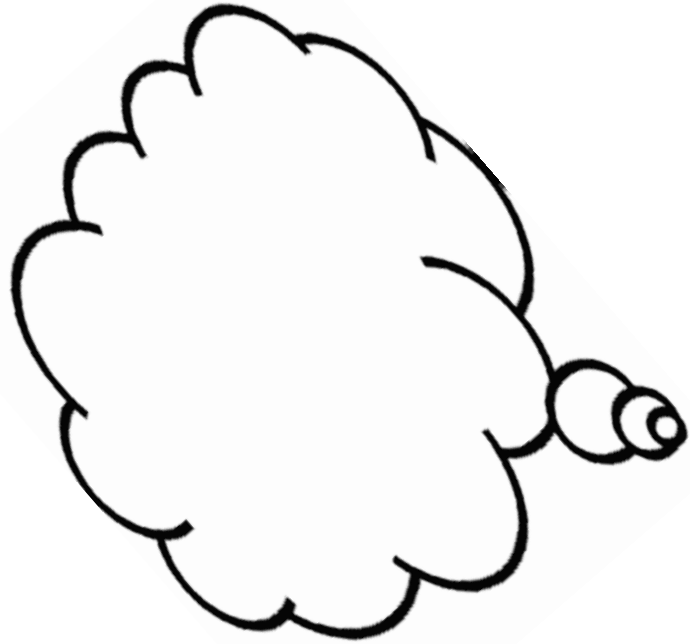
# *Bonus*

Does your country have a National Emergency Telecommunication Plan (NETP)?

- a) yes
- b) no



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- Considering the scenario, make one suggestion from a regulatory perspective, to improve emergency telecommunications.
- Which phase(s) does the suggestion apply to?



**EMERGENCY TELECOMMUNICATIONS**

— C L U S T E R —