



Reliable Communications in Disasters



Abdel Aziz El_Bassiouni, Ph. D.
Business Development Director, TeleTech

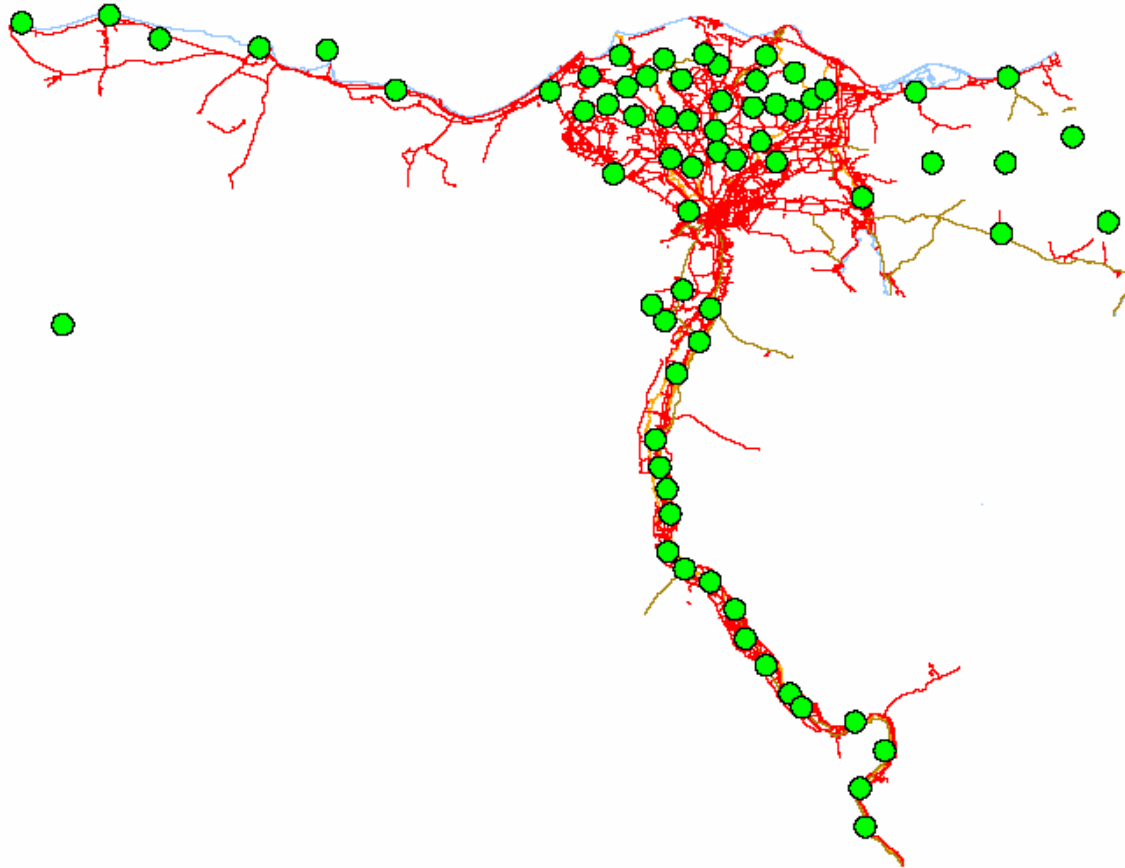
Agenda

1. Reliable Communication Systems surviving Disasters.
 - 1.a Fixed Wireless Telephony
2. Fast Deployment of Communication Systems in Disaster Areas.

Reliable Communication Systems surviving Disaster



Cdma2000-1x Nation wide footprint



Reliable Comm. Systems surviving Disasters

Microwave Connectivity between discrete sites to minimize damage effects of floods, fires and Earthquakes.

Multiple SDH Rings each with 1+1 protections.

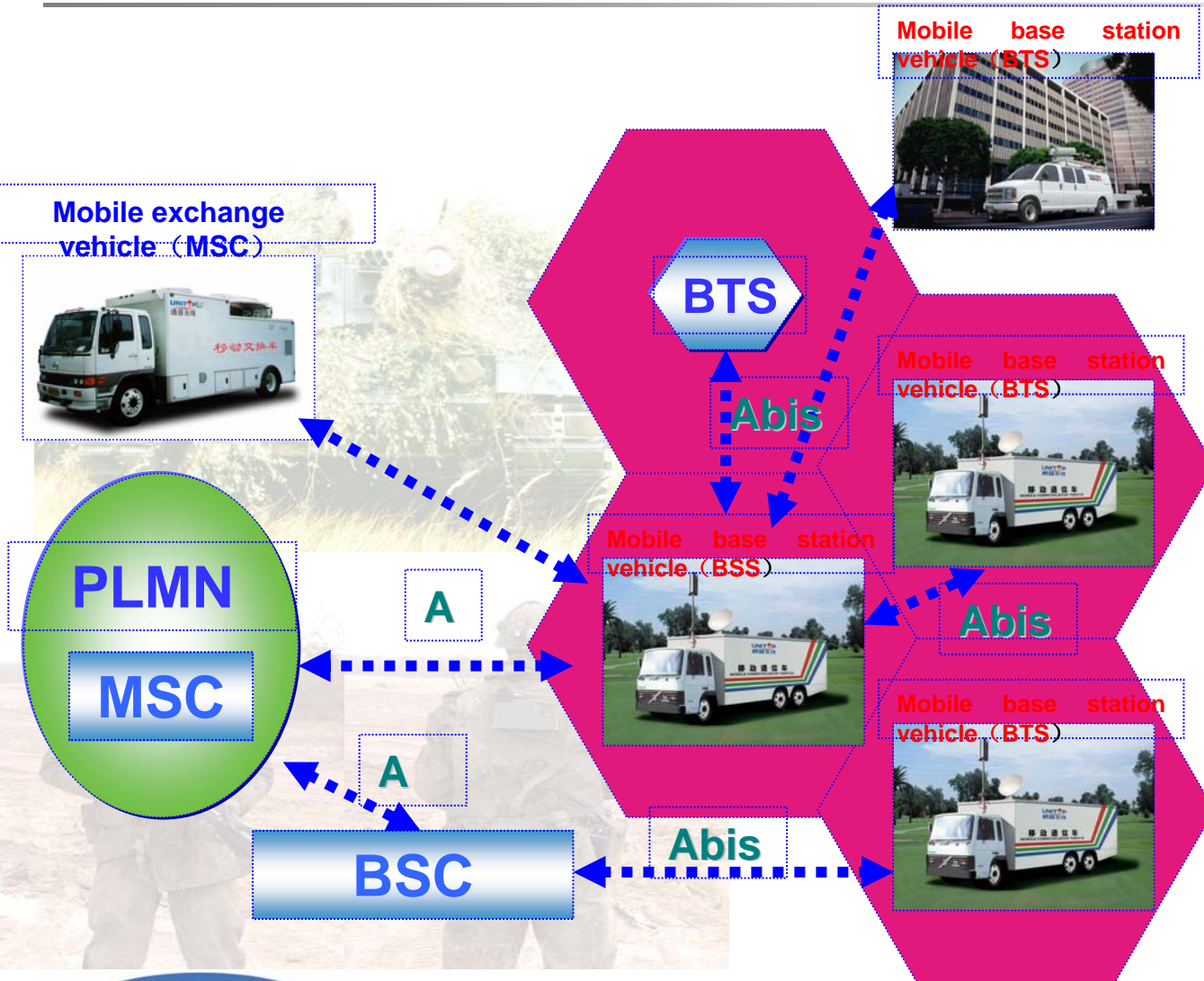
Will be promoted to IP connectivity with multiple routing schemes.



Fast Deployment of Communication Systems in Disaster Areas



Emergency Mobile Communications Vehicle



Mobile base station vehicle (BTS)



Mobile exchange vehicle (MSC)



Mobile base station vehicle (BTS)



Mobile base station vehicle (BSS)

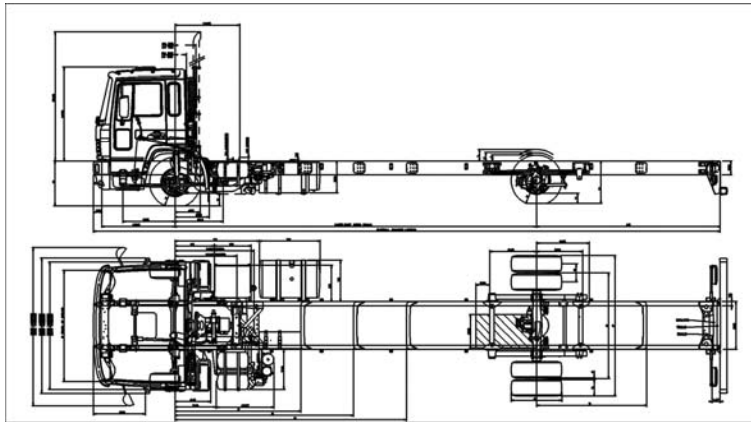


Mobile base station vehicle (BTS)

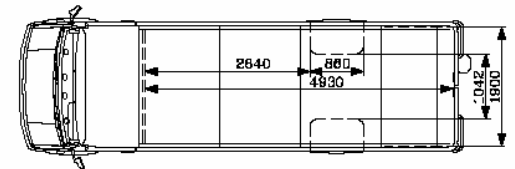
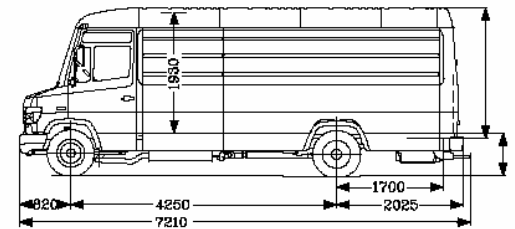
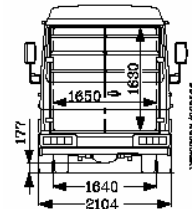
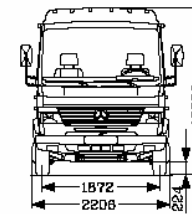


Vehicles: Design and Choices

VOLVO FL6E



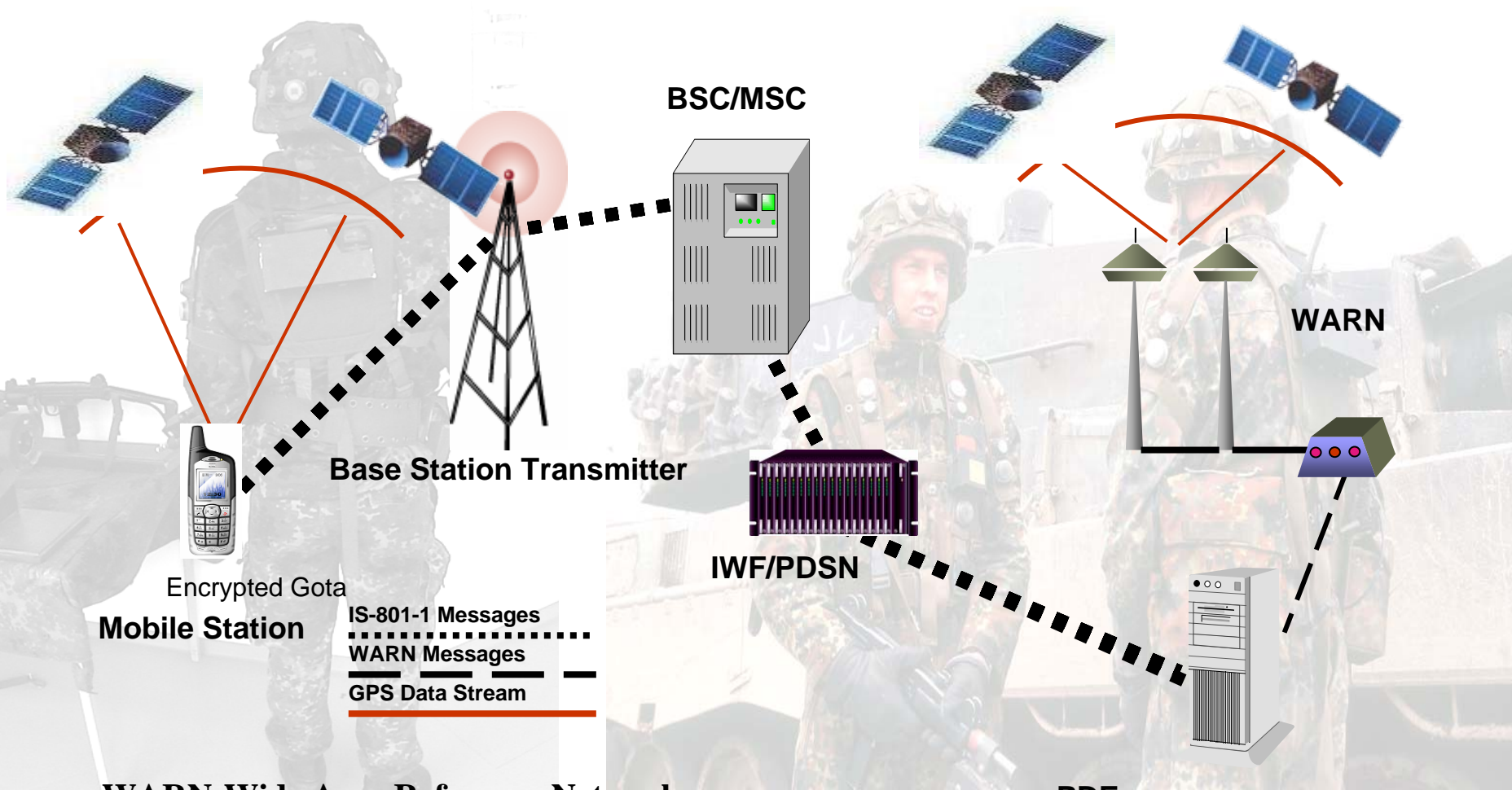
Benz 815d



Services supported in Disasters

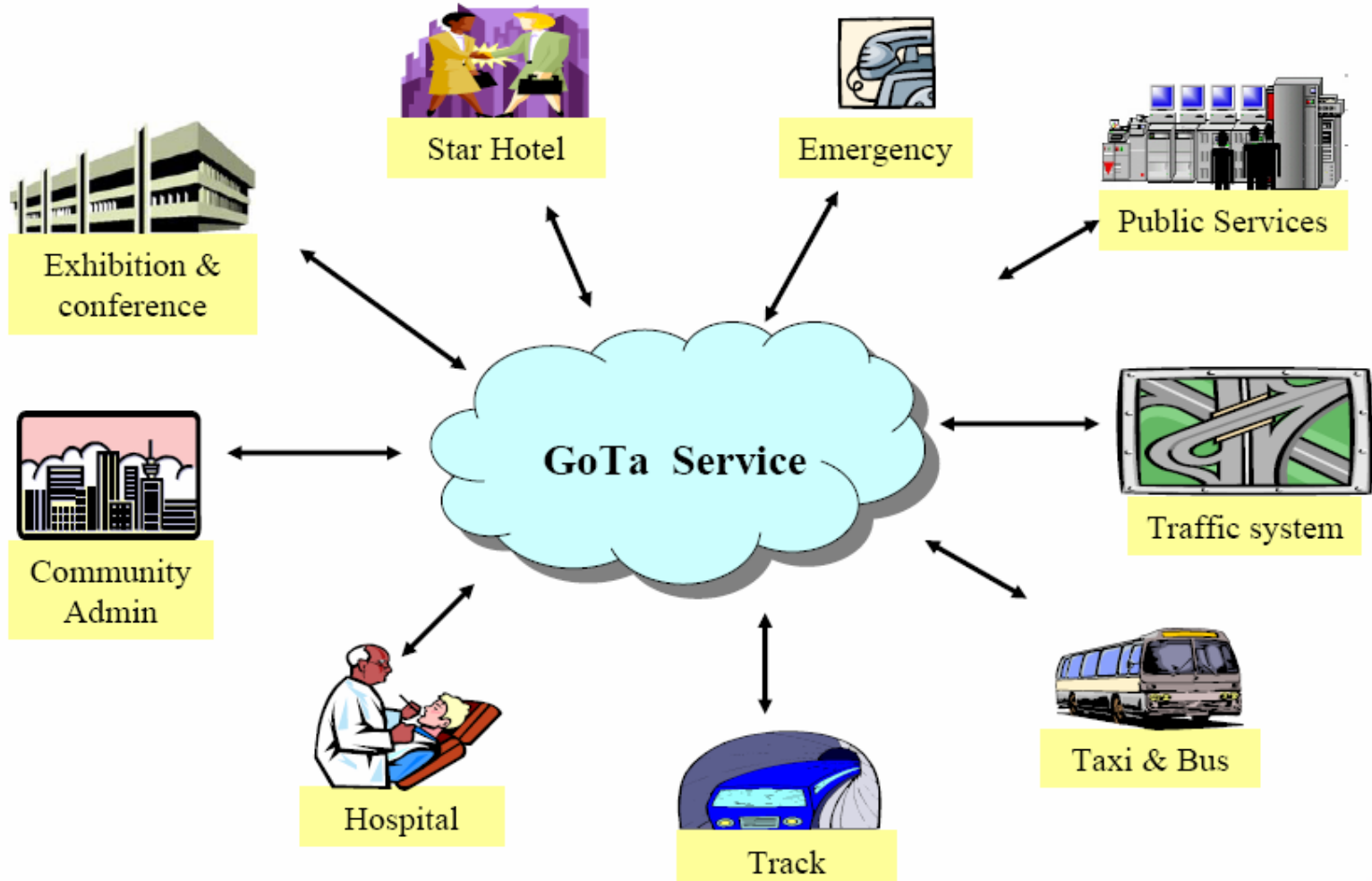
1. Telephony.
2. Push_to_Talk on Cellular (PoC).
3. Video Conferences during rescue operation.
4. Telemedicine in Disaster Areas.

Location_based Service in Disasters

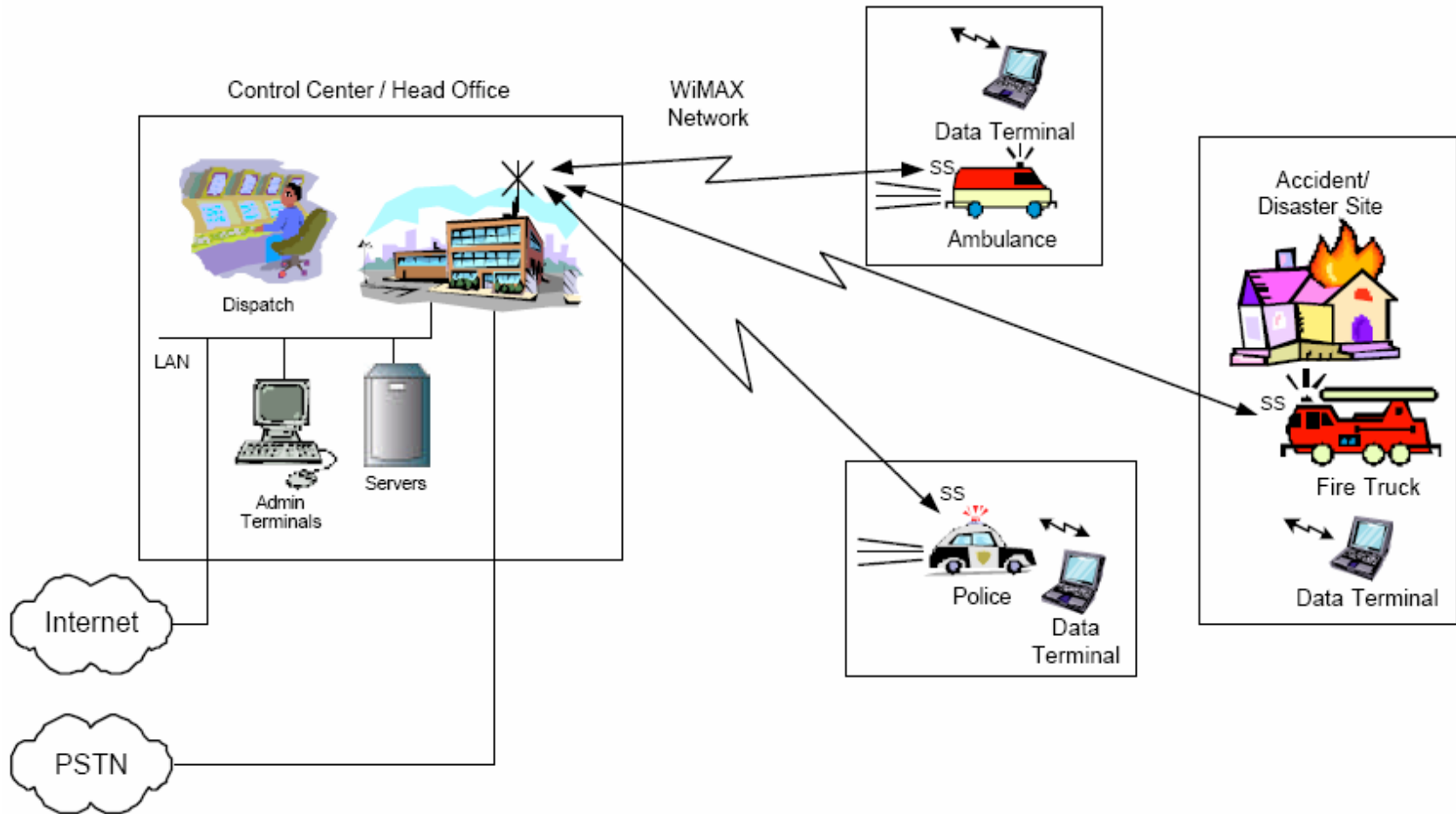


WARN: Wide Area Reference Network
PDE: Position Determination Entity

PTT Applications



Public Safety via WiMAX



Alert

Delta Area is nearly at sea level and is subjected to completely disappear in the Mediterranean Sea due to Global warming. We have to be ready now to deal with this expected disaster.



Thank You



Abdel Aziz El_Bassiouni, Ph. D.
Business Development Director, TeleTech
abassiouni@teletech.com.eg