ITU/ESCAP Regional Workshop
APAC

Building secure societies
Mr. Ola Stensby
Agenda

- **Ericsson Response**, introduction
- Government Home Networks
- GHN Transportable Network
- GHN Portable Networks
- Emergency Response Systems
- Terminals
Saving lives in an emergency..

- Availability
- Interoperability
- Methodology
- Proactive and coordinated response
- Communications for voice and data
Why commercial technology

GSM/W-CDMA – the most deployed mobile communication technology in the world

Population in GSM markets without coverage
- 1,900

Population within GSM coverage, but with no subscription
- 2,000

GSM users
- 2,100

World population ~6B

Sources: GSM Association

- GSM the world's largest mobile standard
- 1 Million New subscriber/day
- Offers full roaming capabilities
Government Home Networks (GHN)

Concept overview

GHN Core

- Public Services
- Shared Services
- Agency Specific Services

GHN Radio
- GSM/WCDMA

GHN Subscriptions

Roaming Agreements

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ERICSSON
National roaming enables

- **Reduce Cost**
  - Investment can be <1% of the cost of building own radio network coverage
  - Reducing OPEX drastically

- **High network availability and coverage from day one**

- **Always best Connected**
  - Possibility to access through the operator with the best local capacity

**Leverage on already existing Infrastructure**
GHN Transportable Network

- QuicLINK™
  - One autonomous WCDMA network in a box
  - Possible cluster several QuicLINK™

- COTS GSM/WCDMA Transportable Network
  - Semi-Permanent solution
  - GSM and/or WCDMA enabled
  - Autonomous core and radio coverage

**Ericsson Response** for years in humanitarian relief operation service
GSM R11 container with EriTac transmission system
QuicLINK™

- Autonomous WCDMA network
- High mobility and Rapid deployment
- Automatic clustering with up to 10 QuicLINK™ units

WCDMA 2100 and 1900
Weight 50kg
Max 50’000 subscribers
Up to 70 simultaneous voice calls
Up to 7 packets data calls (64 kbps)
Up to 32 HSPA active users
(5 Mbps downlink, 2 Mbps uplink)
Characteristics Data Capacity
5 seconds over different bandwidths

- **Downlink 2 Mbit/s**
  - Image size 1.25 MByte

- **Downlink 384 kbit/s**
  - Image size 0.24 MByte

- **Downlink 12 kbit/s**
  - Image size 7.5 kByte

- **Downlink 5 kbit/s**
  - Image size 3.1 kByte

Image transfer is possible with all bandwidths, however the spectrum of purposes differs.
CoordCom™ Emergency Response System

Multi organization, multi site total integrated command and control center for Public Safety or national security
CoordCom™ Emergency Response

- System integration
- Multi-agency environment & Workflow development
- Full interoperability with free geographical sites
Rugged Handsets
Some of the vendors

- **Phone**
  - Nokia
  - Sagem
  - Benefon

- **PDA/Phone**
  - TDS
  - Symbol
  - Login
  - Panasonic

- **Laptops/Tablets**
  - Panasonic Toughbook
  - Getac
  - Handheld

Available on the commercial market..!