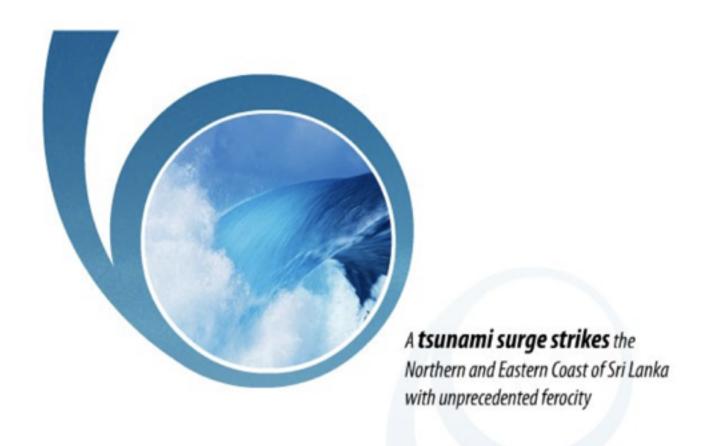
DEWN – Disaster & Emergency Warning Network

GSM Based Disaster Alerting



Harsha Purasinghe: CEO – Microimage

26 DECEMBER 2004



Within minutes the devastation engulfed the Southern and South Western coastal areas of the Island





An **early Warning** would have saved lives... that warning never reached those who needed to know

Could **GSM** fill that **critical** need for an **intelligent** but ubiquitous **delivery mechanism for national disaster warning?**

An instant warning which would be

- » Effective in alerting citizens at day or night
- » Immune to Communication Network Congestion
- » Comprehensible in terms of local dialect
- » Directed to specific location or person or equally applicable for mass dissemination



Can GSM be used to save lives?



R&D on GSM Family of Tech

Cell Broadcasting

LBS Tech

Java/Symbian/Microsoft

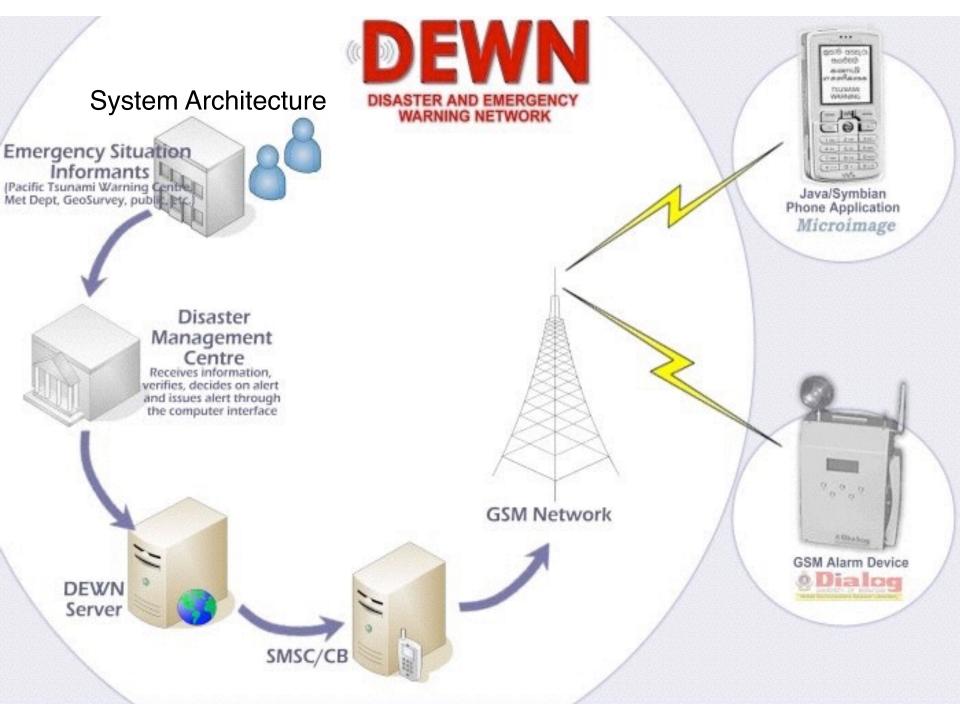
SMS

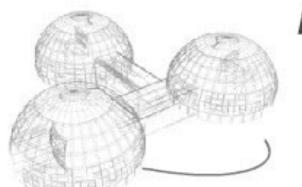
Birth of DEWN

Disaster & Early Warning Network Solution

World's First GSM based Early Warning Solution







System Execution Flow

Step 3

Disaster warning dissemination



JAVA/Symbian/ Microsoft Handset



Standard GSM Handset



GSM DEWN Alarm Device

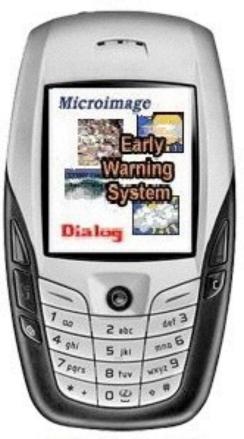


JAVA/Symbian/Microsoft Handset

System **Architecture**







Microimage

- » Terminal resident warning application
- » Customizable and situation specific presentation
- » Downloadable over GPRS at no cost
- » Special Alarm Tone



GSM DEWN Alarm Device

System **Architecture**



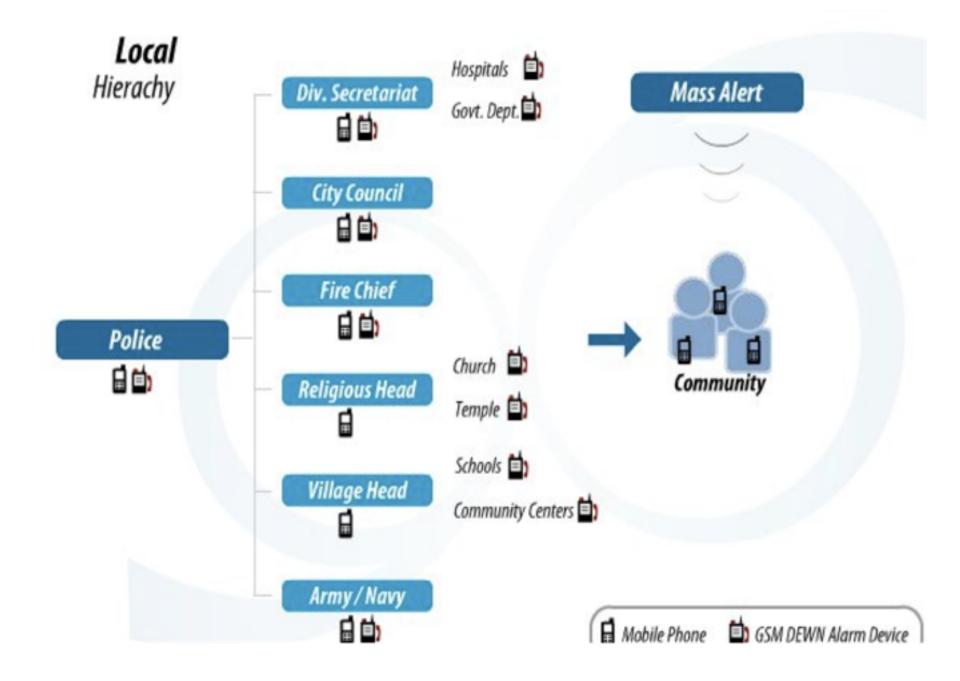


The GSM activated remote alarm is an electronic device that can be used for emergency warning purposes.

- » Multiple wake up measures
- » Power source compatibility
- » A Back up power up to 10 hrs standby
- » Multiple alarm interfaces (TV, Radio...)







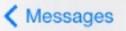
DEWN implementation in Sri Lanka



Officially handed over to the Government Disaster Management Centre in February 2009. DMC can now use DEWN for public warning in Sri Lanka.

DEWN - Today

•••• Dialog 4G 6:19 pm



DMC

Contact

1 56% ■

50-60kmph at times.

Yesterday 7:17 am

Met weather forecast,15th June, sea areas may rough and winds speed could increase up to 60kmph around sea areas from CBO to TRC via KKS and Matara to Pothuwil

Today 6:22 am

16th June;

0600hrs:Met:Sea areas from Matara-Potuvil via H'tota & from colombo-Trinco via Mannar & Jaffna will be rough & wind speed can be up to 60kmph at times

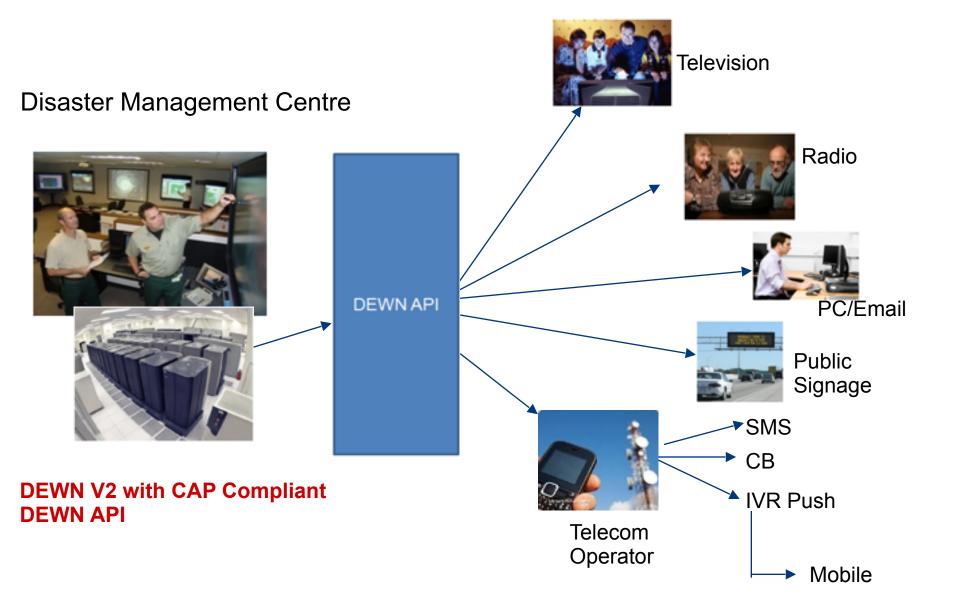
Text Message

Send

DEWN Future

- System Upgrade & Improvements
- DEWN API CAP Compliant
- DEWN Smartphone App

DEWN API



DEWN Smartphone App

- Notification of Alerts & Warnings
- Notification Feed with Filtering
- Disaster/Weather/Traffic Alerts/Warnings
- Location Specific Alerts
- Multilingual
- Nearest Exit/Evacuation Points
- Audible Alarm for Disaster & Emergency Warnings
- Short Audible Tones for Alerts

Thank You