By

Advanced Info Service Plc. (AIS)

Contents

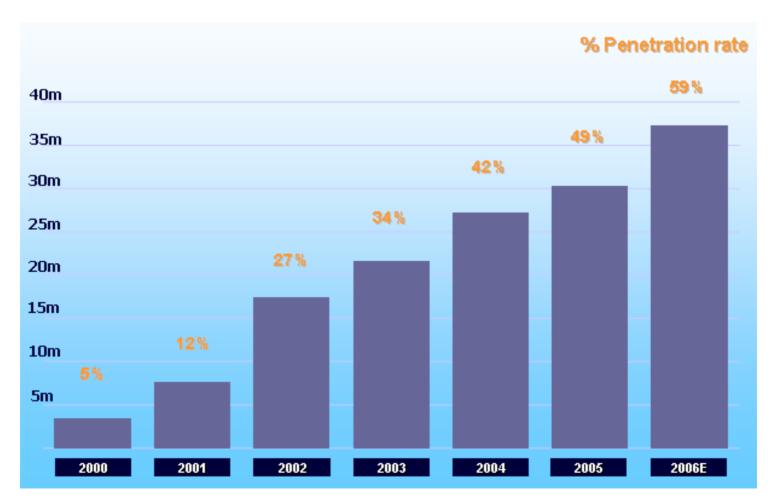
- AIS Company Profile
- Mobile Cellular in Thailand
- Mobile Cellular for Disaster Warning and Relief

AIS Company Profile

- 0 1986
 - Advanced Info Service Plc. (AIS) was established to run a computer rental business.
- 0 1990
 - AIS was awarded a concession by the Telephone Organization of Thailand (TOT) to operate a nationwide 900MHz cellular network
 - Launched its first cellular service with 900 MHz analog cellular system
- 0 1994
 - Launched new digital cellular service with GSM 900 MHz system
- 2000
 - Installed base stations in all 795 districts of Thailand
- 0 2001
 - Acquired Digital Phone Co., Ltd. (DPC) shares and became the operator who operate both 900MHz and 1800 MHz mobile cellular network.

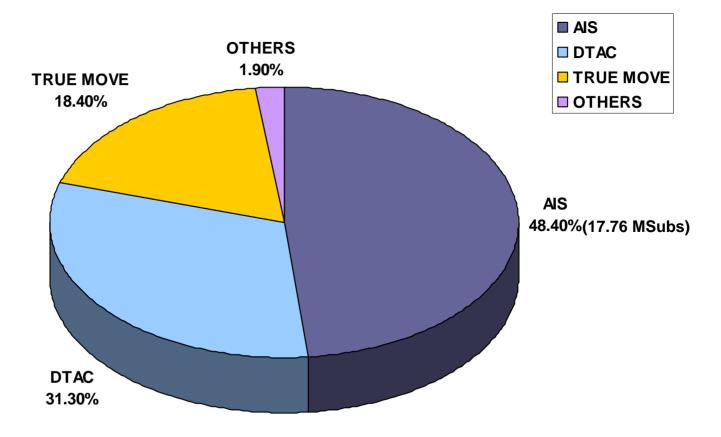
Mobile Cellular in Thailand

Mobile Penetration Rate in Thailand



Mobile Cellular in Thailand

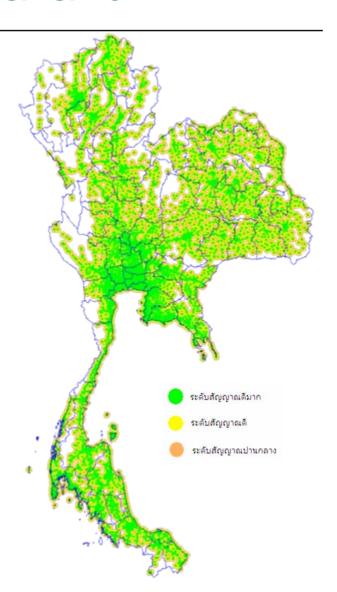
Mobile Cellular Market Share in Thailand



Mobile Cellular in Thailand

AIS Network Coverage

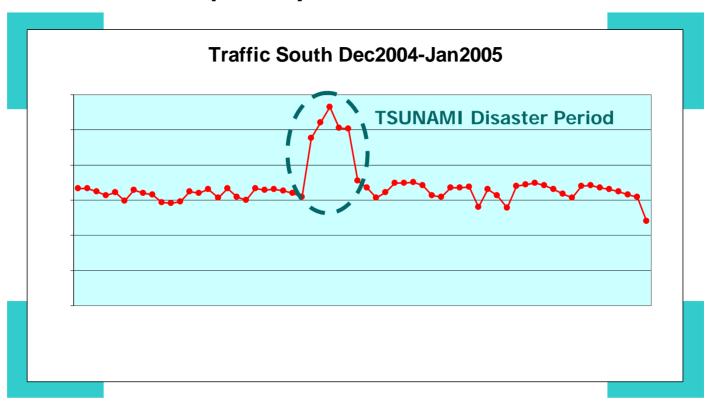
- Nationwide Network Coverage
- ~11,000 Base Stations



- Why do we need to discuss about mobile cellular for disaster warning and relief?
 - Large no. of mobile subscribers
 - Large network coverage area
 - Personal communication

- What did we experience on our mobile cellular network during disaster?
 - High no. of call congestions in the disaster area
 - Loss of Mobile coverage due to loss of network elements
 - Restart of switching network element due to the high usage attempted.
- O How to cope with these situations?

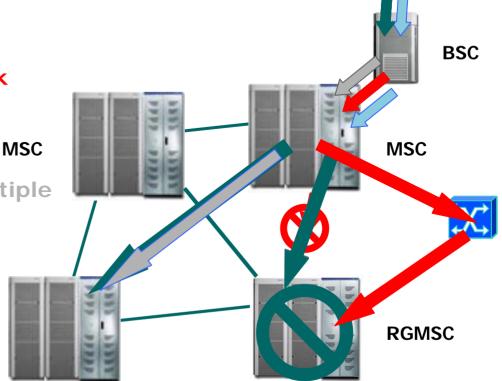
Network Capacity



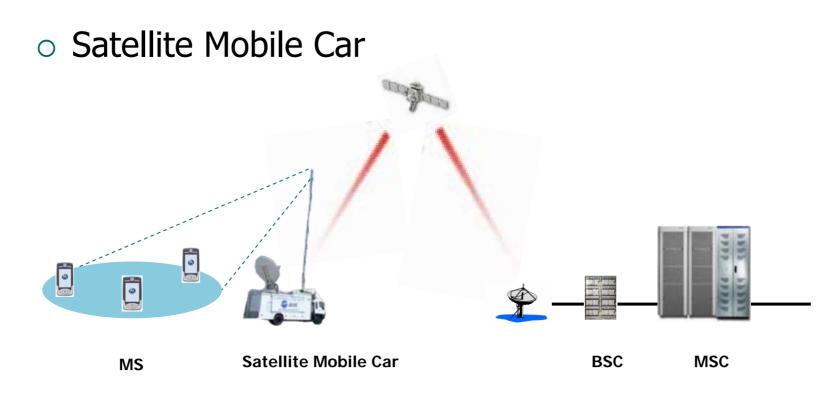
Build spared network capacities in the potential disaster area.

 Network Design and Management strategy

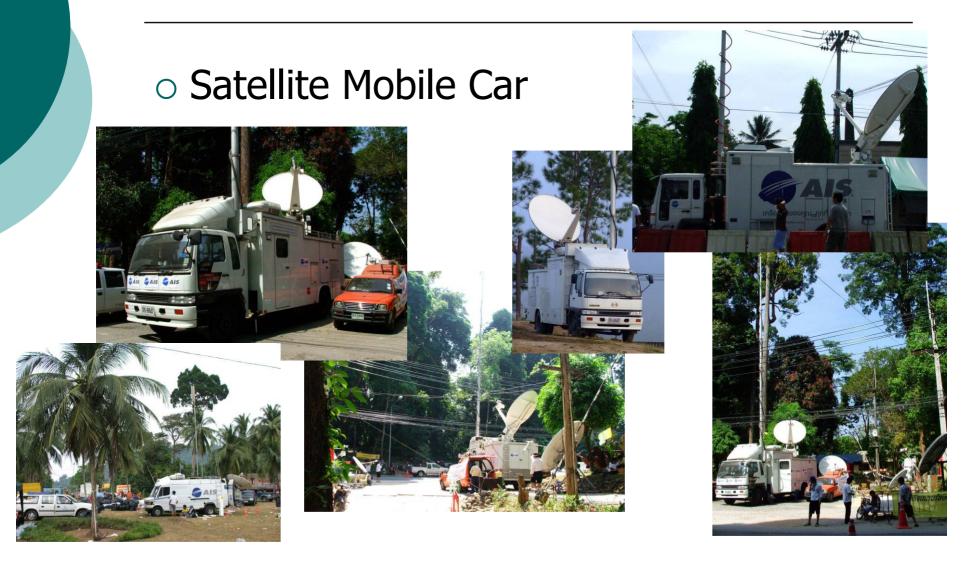
- 1. Transmission redundancy
 - Transmission Ring network
 - Alternated Transmission Media
- 2. Traffic load sharing
 - Load sharing between multiple Switching Nodes
- 3. Node redundancy
 - -N+1



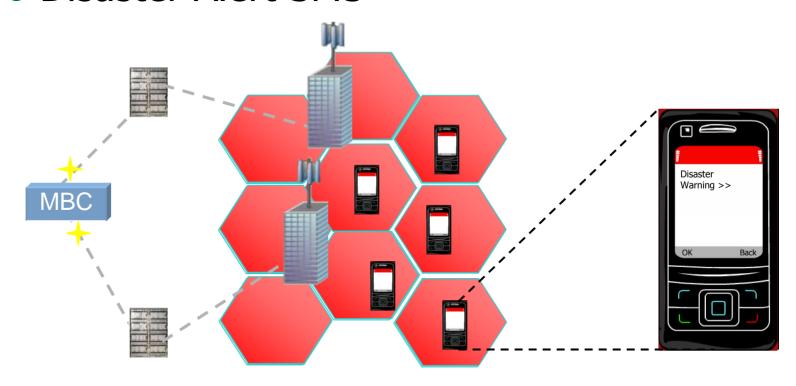
RGMSC



- Fast recovery of base station coverage
- Easy way to increase the network capacity in the spot area



Disaster Alert SMS



Sending SMS to Mobile User when there is a disaster event or warning.

Thank you

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