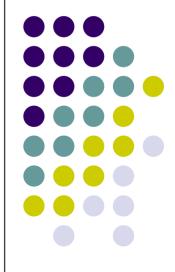


Disaster Communications in Lao P.D.R

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Outlines:

- 1. Country profile
- 2. Disaster threats in a country
- 3. National agencies dealing with DC/DM
 - 1. Department of Posts & Telecoms
 - 2. Department of Roads
 - **3. Department of Meteorology and Hydrology**
 - 4. National Disaster Management Office
- 4. Strategies and Initiatives
- 5. Challenges and areas of assistance required



1. Country Profile



- Name of a Country: Lao People's Democratic Republic
- Population: 5,6 millions (2005) (80% live in rural areas)
- Area: 236,800 Km2
- Provinces: 17
- Districts: 142
- Rivers & Streams: 18 (including Mekong river)
- GDP: US\$ 350 (2005)
- Tele-density: 18 per 100 inhabitants (2006)



2. Disaster Threats in a country

- Main Disasters:
 - Floods
 - Mountainous flash flood
 - Soil erosion



3. National Agencies dealing with DC/DM



- Department of Posts & Telecoms, MCTPC – Radio Spectrum Management Division
- 2. Department of Roads, MCTPC Waterway Administration Division (WAD)
- 3. Department of Meteorology & Hydrology Ministry of Agriculture & Forestry
- 4. National Disaster Management Office (NDMO) – Ministry of Labour & Social Welfare

3.1 Department of Posts & Telecommunications

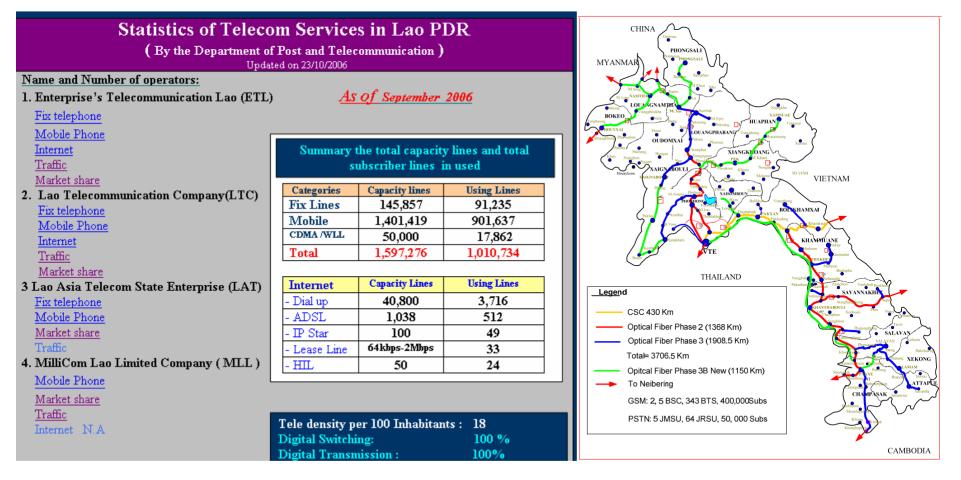


- Responsible for frequency allocations and frequency assignments to radio communication services including PPDR
- Key regulatory framework that has been taken into consideration:
 - National Table of Frequency allocations and assignments
 - Resolution 646 (WRC-03) PPDR
 - ITU-R M.1637 (2003) Global cross-border circulation of radiocommunication equipment in emergency & disaster relief situations
 - Frequency harmonization for PPDR (406.1-430 MHz, 440-470 MHz, 806-824/851-869 MHz, 4940-4990 MHz, 5850-5925 MHz)
- A frequency band 4940 4990 MHz has been endorsed for PPDR applications

3.1.1 Telecommunications infrastructure and Statistics



ETL Optical Fiber Existing & New



3.1.2 Telecommunications infrastructure & Statistics (Cont'd)



- Fibre optic networks are expanding and covering 15 provinces
- Mobile Telephony has been increasing rapidly
- More than 90% of districts have access to telecommunication services nation-wide
- Telephone density reaches 18% in 2006

3.2. Waterway Administration Division (WAD)



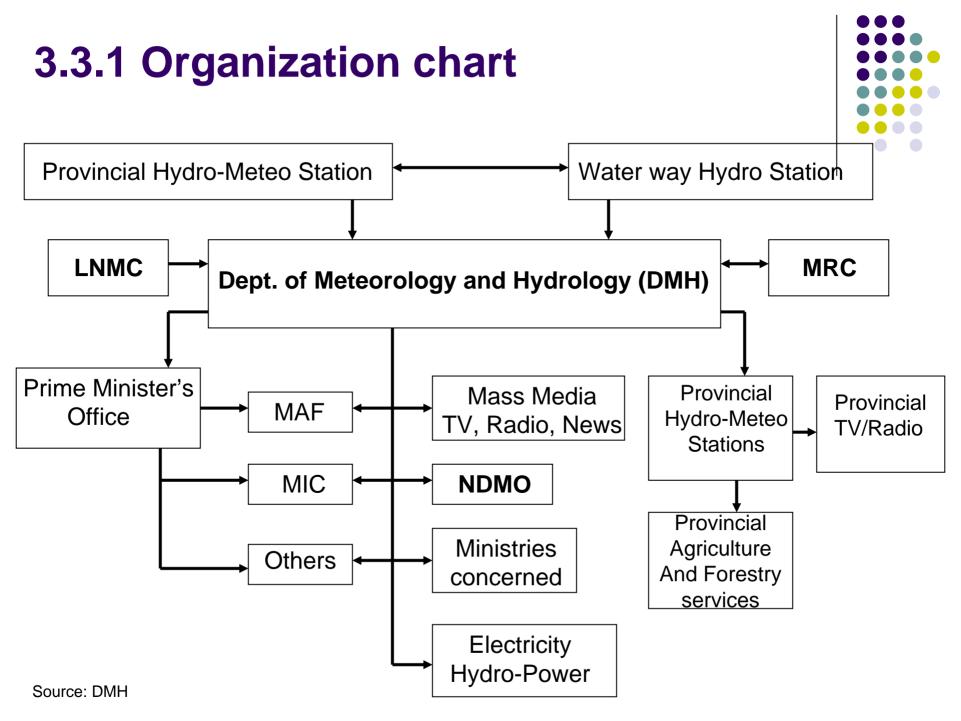
- There are 53 hydrologic and 18 rainfall stations under WAD's responsibility
- WAD collects data from provinces by radiotransceiver, telephone, fax, email, telemetry system
- WAD disseminates data to DMH and MRC by means of telephone, fax, email, telemetry system
- The flood forecasts of the Mekong mainstream station are updated every day during flood season (<u>http://ffw.mrcmekong.org/overview.htm</u>)
- WAD distributes forecast data updated by MRC to provincial offices and relevant agencies

3.3. Department of Meteorology and Hydrology (DMH)

- 53 Meteorological networks and stations nation-wide
- 33 stations are using transceiver radio VHF SSB
- 20 stations are PSTN (fax and telephone)
- A C-band Doppler weather radar and HRIT satellite receiving equipment via MTSAT located in Vientiane

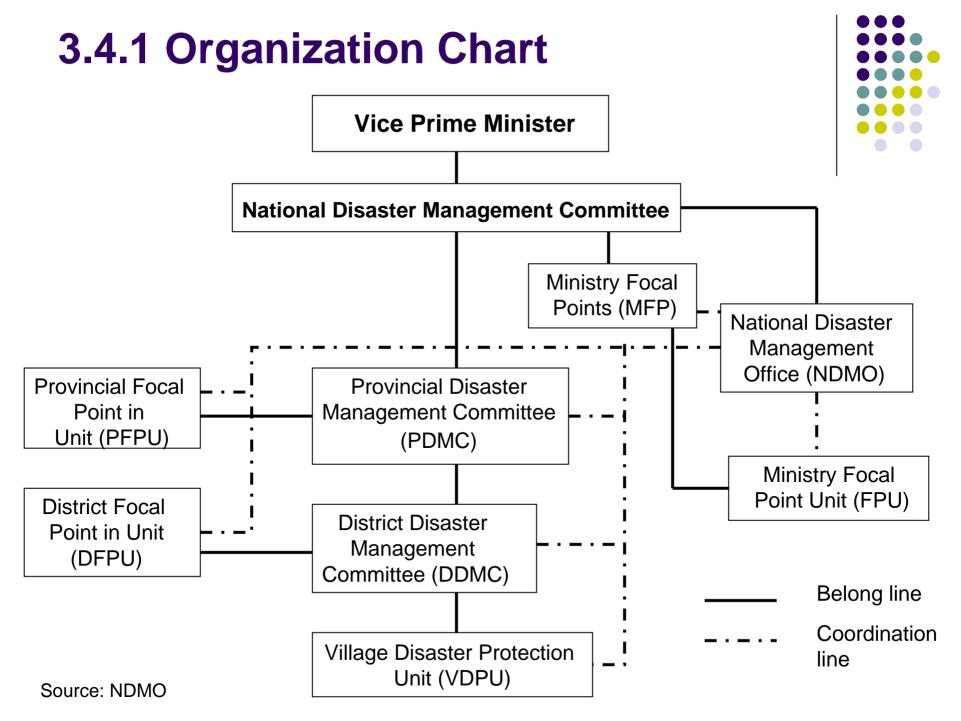


• Dedicated telephone line is used to connect to Global Telecom Systems for regional and global data exchange



3.4. National Disaster Management Office (NDMO)

- NDMO is playing a vital role in DM
- 91 offices are located at district level
- 100 representatives are present at village level
- Youth, Woman and Trade Unions are actively participating in DM



4. Strategies and initiatives



Work progress

- The Government has recognized the importance of DM
- DPT is supporting and approving APT & ITU recommendations regarding PPDR discussing in various regional and international forum and conferences subject to national policy and in accordance with NTFA
- 2 decrees have been approved and signed by PM and Minister of Labour and Social Welfare

4.1 Strategies and initiatives (Cont'd)



- There is a national strategic plan for DM in Lao P.D.R from 2003 – 2020
- This plan is an integration part of national policy on economy growth and poverty eradication and graduation from LDC status by the year 2020
- Two provinces namely Savannakhet and Khammouan have already set and implemented their own strategies according to the national strategic plan for DM
- Most meteorological stations are at district level
- Most NDMO representatives are at district and village levels

5. Challenges and areas of assistance needed



• Challenges:

- No clear policy on the use of frequency bands identified for PPDR in ITU-R M. 1637
- No law and regulation on PPDR, especially with respect to considering a) and b) of Resolution 646 (WRC-03)
- Harmonization of frequency bands for PPDR
- Lack of skilled personnel in representative offices at district and village levels
- Lack of radio and telecommunications equipment e.g. computer, Internet ect.
- Budget constraints to implement the government's policy and guidelines

5.1 Challenges and areas of assistance needed (Cont'd)

• Assistance:

- Consultancy on PPDR issues
- Capacity-building at different levels
- Regulatory frameworks for PPDR
- Budget assistance to raise public awareness and other activities necessary
- Modern early warning systems/equipment





Thank you!