Mainstreaming DRR and Climate Change Adaptation in Local Development Planning Processes Lessons and Experiences from Sri Lanka

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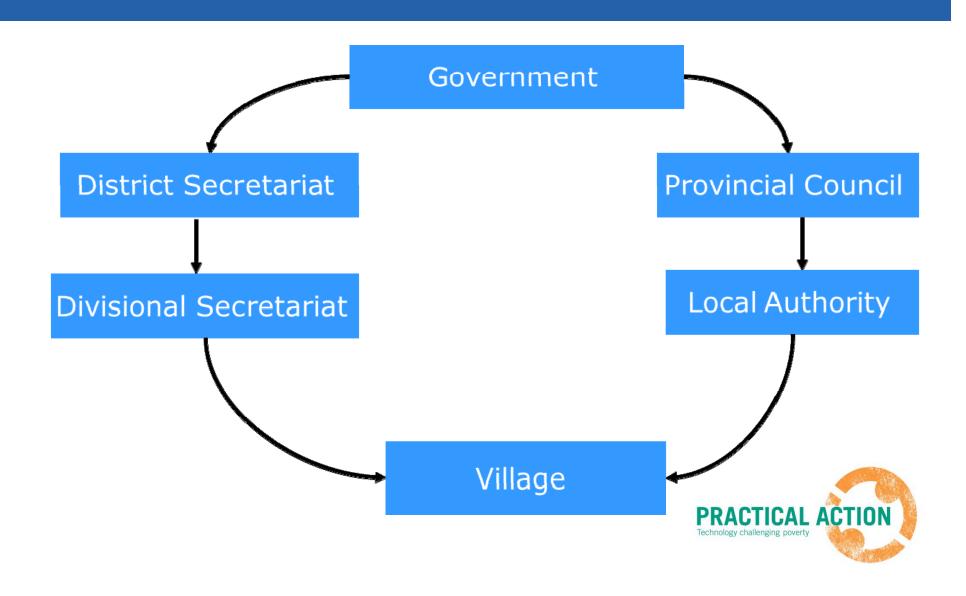


Background

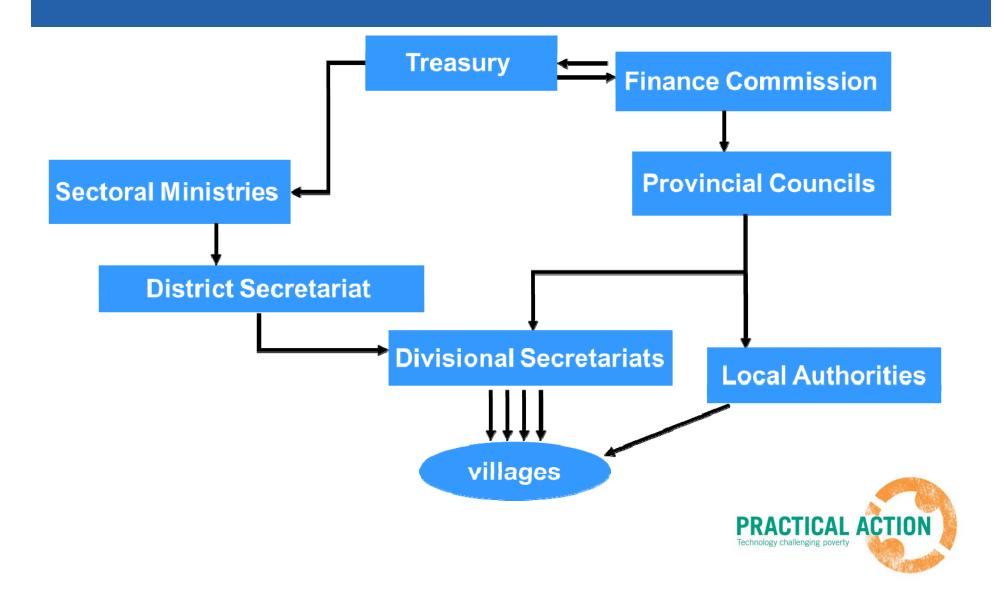
- Community should take the leadership for DM but, financial allocations for development functions are with authorized bodies
- Time contribution from the poor communities to DM activities (two aspects; meager contribution and getting excluded)
- In practice, CBDM was not community owned or led but characterized by varying degrees of community participation

- Community has no legal powers to dictate terms for disaster mitigation
- Community is with limited technical know-how for long- term disaster mitigation measures
- Development functions have been decentralized or devolved among different authorities
- Disaster and climate information is hardly used in decision making
- Local governments are key players that are tasked with provisioning essential services and take important role on relief and rescue

Local Planning at Crossroads



Institutions



Flood Mitigation in Wanduruppa



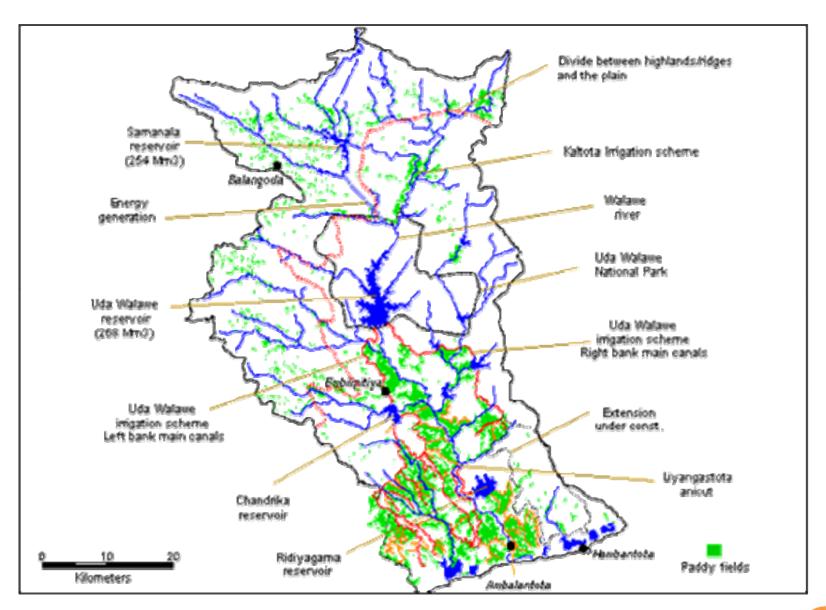
Implementation Strategy

- Lead Planning Agency Urban Development Authority
- Technical Expertise Disaster Management Centre,
 Department of Irrigation, Coastal Conservation Department,
 Agricultural Department, Agrarian Services Department,
 community flood mitigation committee
- Stakeholders Affected Community, District Secretariat,
 Divisional Secretariats (Hambantota, Ambalantota), Central
 Environment Authority, Department of Wildlife Conservation,
 Forest Department, Pradeshiya Sabha, Land Use Planning
 Department, other Civil Society Organizations
- Technical Facilitation Practical Action



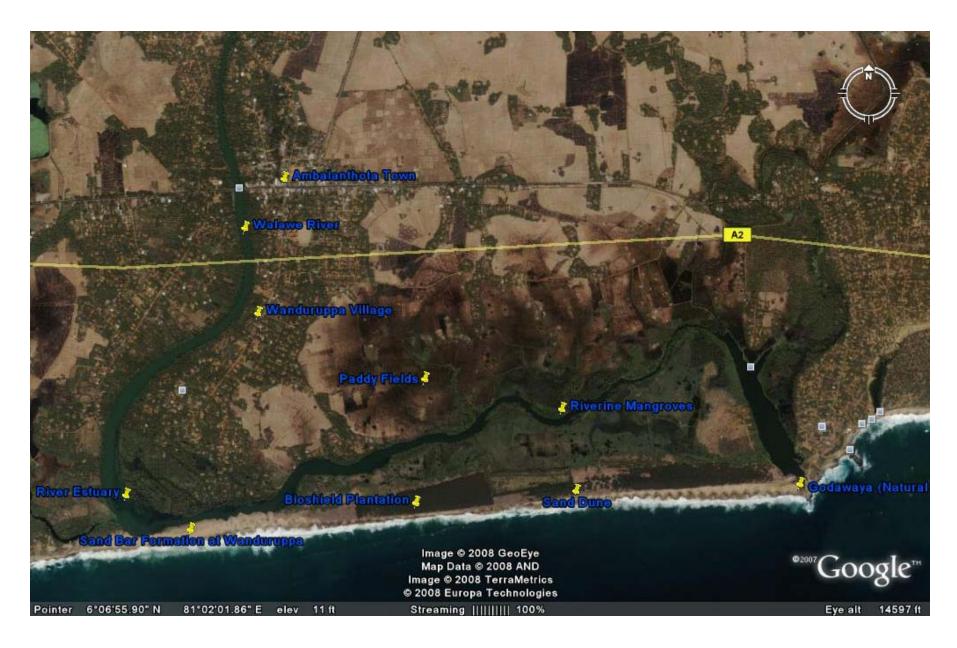




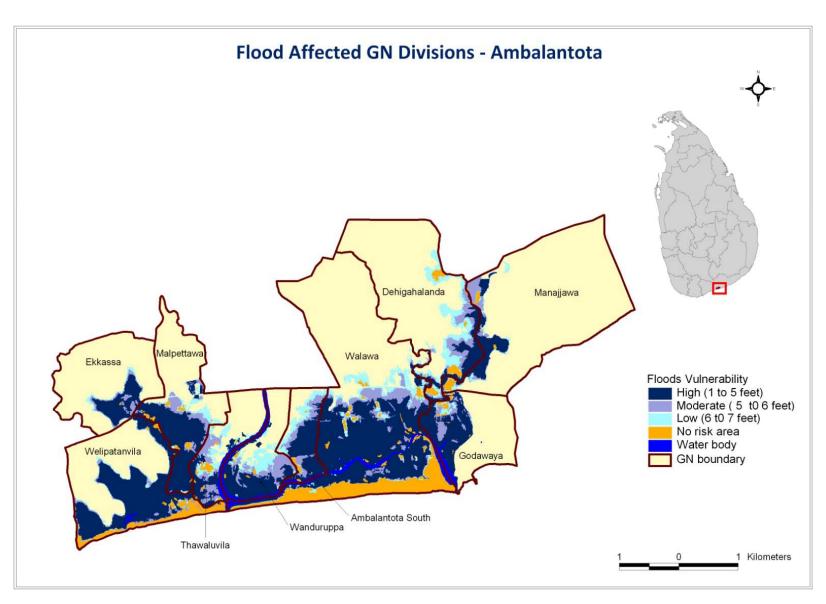




Satellite Image of Walawa River Mouth



Vulnerability Context Flood affected area and GN Divisions



Vulnerability Context: Numbers





- 10 GN divisions are frequently affected by floods (10 15 times per year)
- More than 480 houses are at risk
- More than 2000 acres of paddy lands affected
- Annual crop loss due to flood is approx. Rs. 48 million

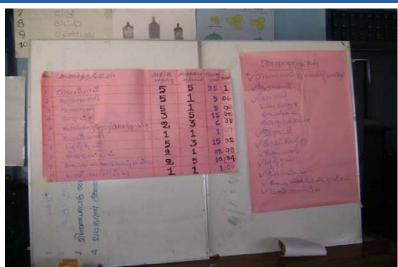
Solutions - Risk reduction measures

- Short term: Disaster Preparedness and Response Mechanism (at Village Levels).
- Mid term: Setting up Flood mitigation Mechanism (at Divisional Level).
- Long term: Disaster risk Sensitive Land Use Planning and Implementation (at Local government level)



Participatory Planning





Participatory Hazard prioritization



Divisional level stakeholders discussions





Village level committee discussions

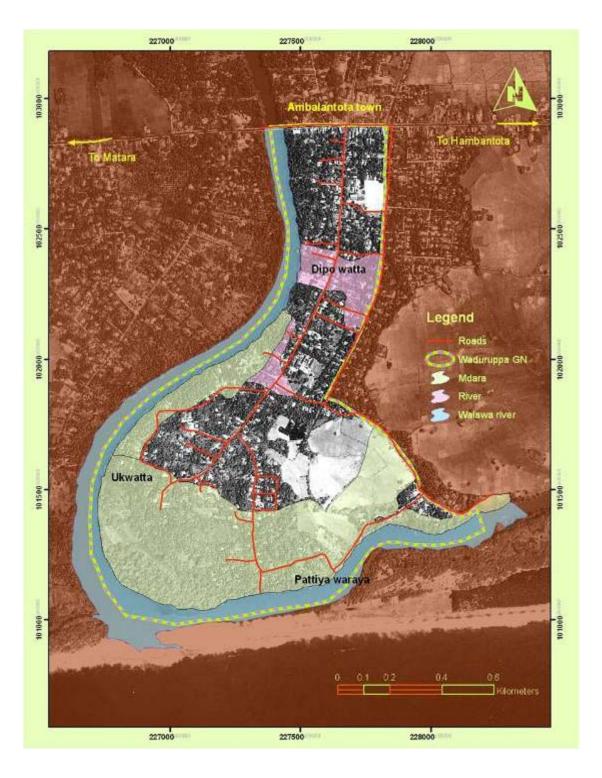


Installation of flood gauges





Effective flood mitigation mechanism

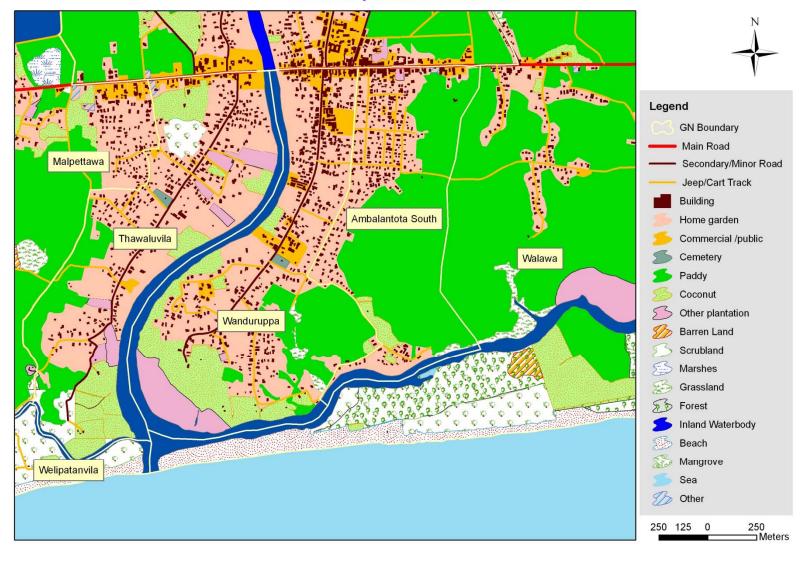


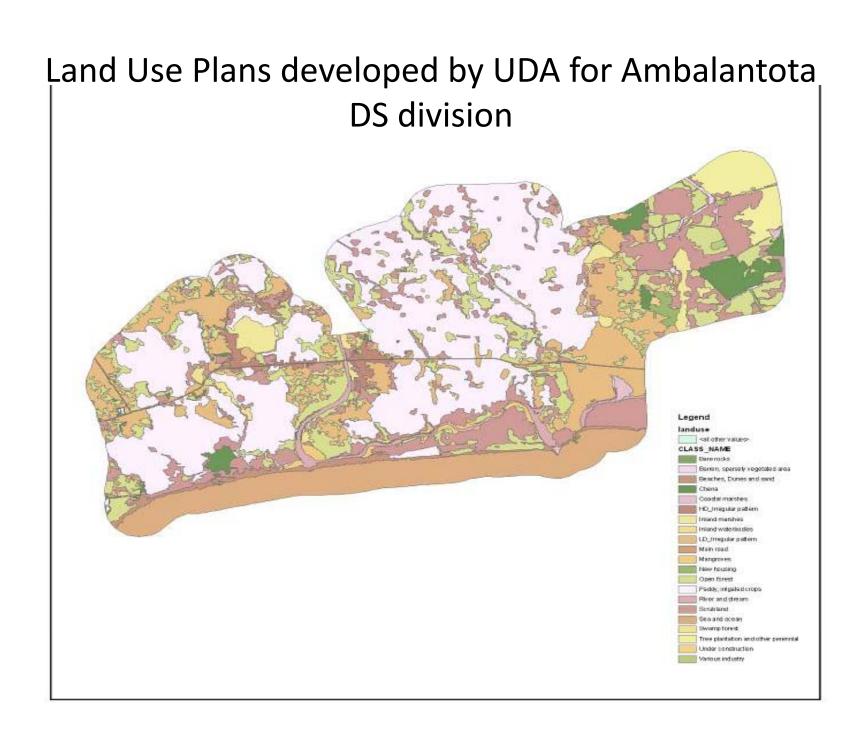
Participatory Hazard map of Wanduruppa GN division

Flood affected area due to river flood

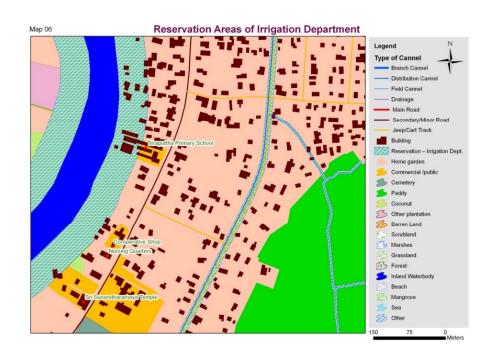
Urban floods due to drainage issues

Landuse pattern of the area



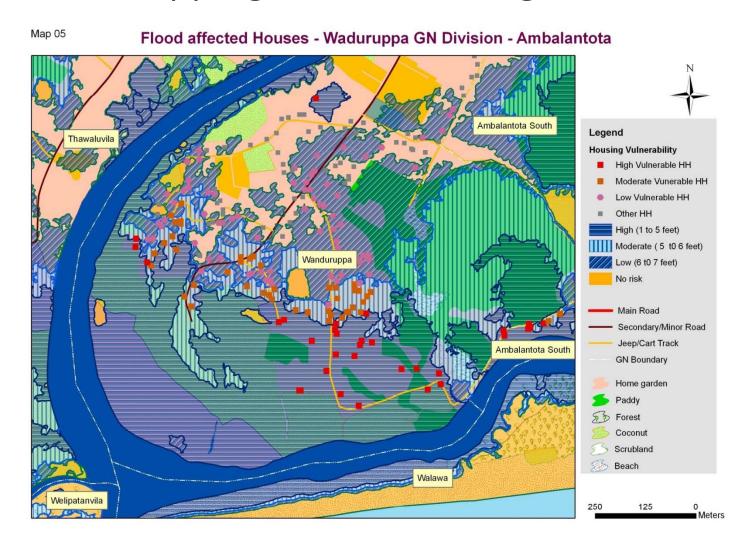


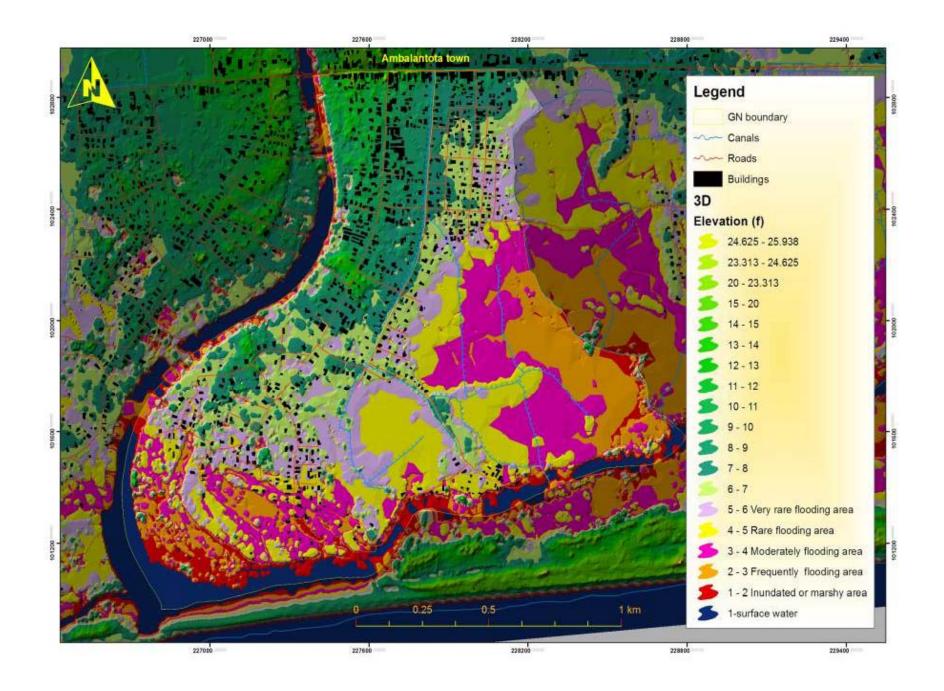
Sectorial Planning





Mapping flood risk using elevation data





Developing guidelines

- Guidelines are developed based on the risk zonation (Building codes, setback regulations)
- Scenarios developed to address the Climate change variations of river flow
- Enforcing and adherence of the guidelines by Divisional Development Committee (DDC) which is legally accepted as a development decision making body
- Livelihood development plan of the Ambalantota, Disaster Preparedness Plans
- Incorporation of the guidelines into the Ambalantota Area Development plan of the UDA
- Feedback loop established UDA, LG, Community work together in making the decisions

Outcomes

- Effective Flood mitigation; avoided crop loss appx 48 million/yr and other livelihoods such as fisheries
- Significant social benefits for men, women and children
- 52 families in the high risk zone are to be relocated
- Constriction of drainage canals near school and hospital premises (50 lakhs)
- Land value has been increased in the area
- Additional livelihoods promotion; handicrafts, eco tourism, flood resistant crop varieties



THANK YOU

