

Some important considerations in the development of micro level plans

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**Dr R Gopichandran
Director, Vigyan Prasar, India
&
Dr Kirit N Shelat (IAS Retd)
NCCSD, India
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Framework

- 1. Micro level planning is gaining importance in national initiatives on agriculture related mitigation and adaptation**
- 2. Academic and research initiatives that guide policies, plans, programmes and projects will benefit from a snap shot of important considerations highlighted by some major initiatives on the development of micro level plans**
- 3. The snap shot presented relates to mainstreaming ecological and economic imperatives of climate resilient / efficient agriculture aligned with adaptation needs of the farming communities.**
- 4. The content is eclectic and presents all relevant sources to enable easy access for further work.**

A Green Economy perspective (FAO 2012: Ref 1)

- Concerted and coordinated involvement and action of all stakeholders through a long term perspective needed to achieve food security goals – How?
- Simultaneously tackle impacts of changes in resource quality due to climate change
 - Aridity
 - Evapo-transpiration
 - Displacement of crops etc
 - **Variability & Onset of changes**
- **“How and to what extent agriculture and food systems can contribute to climate change mitigation without compromising food and nutrition security?”**
- **Efficiency & resilience**

Addressing challenges: Africa (AMCEN 2011: Ref 2)

- Conceptual grouping of limits and barriers to adaptation
- Recap of Multi – criteria analysis of UNFCCC 2008
- Adaptation Decision Matrix & Screening of Adaptation options
- Risk Management cycles
- Mainstreaming adaptation at the project level
- **Address mal-adaptation**

India NATCOM II 2012 (Ref 3)

- **Gaps & Constraints / Details / Possible approaches**
- **National Mission for Sustainable Agriculture**
 - **Transform Indian agriculture into a climate resilient production system through**
 - **suitable adaptation and mitigation measures (crops and animal husbandry).**
 - **Research and development**
 - **Absorb improved technology and best practices,**
 - **Create physical and financial infrastructure and institutional framework,**
 - **Facilitate access to information and promote capacity building.**

NICRA

(Venkateswaralu et al 2012: Ref 4)

- Action Plan for 100 Vulnerable districts with technological options from
 - several consultations / revisions. consultations across eight Zonal Project Directorates located in the country and involved farmers.
 - Considered available basket of technologies believed to help alleviate effect of climatevariability on agriculture
 - Constraint analysis

XII 5 Year Plan preparations India (Ref 5)

- Cumulative neglect over the past periods in terms of institutional development, support systems, availability of appropriate inputs, credit, market access, agricultural research and extension
- **Decentralized and local institutional capacities**
- **paradigm shift needs 'Block/Taluk/Mandal' as a unit for programmatic action as it is a manageable unit for planning-implementation**
- **Convergence of various programs and human resources into a new framework.**
- **Framework of deliverables at the Block / Panchayat level, role of block resource agency / District level / National level**

FAO 2011 Linkages to food security (Ref 6)

- Parameters of Conservation Agriculture
- Autonomous and Planned adaptation

Agro-ecology, including exposure, sensitivity & adaptive capacity (Ref 7)

- Planning for climate change and variability
- Sustainable water use and management
- Soil management
- Sustainable crop / farming systems & livestock management
- Capacity building and stakeholder organisation.
- Community based adaptation

- Hanoi Meeting FAO 2012 (Ref 8)
 - Framework for CSA strategy & investment proposal
- CCAFS: African Small holder focus (Ref 9)
 - Institutional innovations in (African) small holder carbon projects
 - Policy issues: Land tenure, Gender, Carbon rights, Landscape processes
- Report to European Commission Directorate General for Agriculture and Rural Development (REF 10)
 - Risk and Opportunity prioritization across agro – climatic zones

- **Triple dividend for Small holders (IISD Jo-Ellen Parry & Jessica Boyle 2012: Ref 11)**
 - **Food security**
 - **Improved adaptive capacity**
 - **Reduced emissions**

- **USEPA (2012) Ref 12**
 - **Guiding principles / Goals & strategic actions**
 1. **Integrated Water Resources Management (IWRM)**
 2. **Adaptive Management**
 3. **Collaborative Learning and Capacity Development**
 4. **Long Term Planning (i.e., multi-decadal time horizon)**
 5. **Water-Energy Nexus**
 6. **Systems & Portfolio Approach**
 7. **Cost of Inaction**
 8. **Environmental Justice**
 9. **Performance Evaluation**
 10. **Mainstreaming Climate Change into Core Programs**

- **CCAFS Business Plan 2012 (Ref 13)**
 - **Integration for decision making**
 - **Progressive adaptation**
 - **Climate risk management**
 - **Pro poor mitigation**
- **Planning Commn 2012 Decentralized Planning (Ref 14) & Natl Water Mission 2009 Govt of India (R15)**
 - **Importance of decentralized planning**
 - **Convergence at the local level through institutional mechanisms**
- **IGIDR WP-2012-014 (Ref 16)**
 - **Focus on small farmers**
- **UNDP, IUCN, UNEP, WE DO 2009 (Ref 17)**
 - **Training Manual on Gender and Climate change**

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- Ref 3 Ministry of Environment & Forests, Government of India. 2012 India Second National Communication tothe United Nations Framework Convention on Climate Change. 310p.
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- Ref 5 Report of the XII Plan Working Group on Natural Resource Management and Rainfed Farming. November 15, 2011. 70 p.
- Ref 6. Aziz Elbehri, Alexandre Genest and Mary Burfisher 2011 Global Action on Climate Change in Agriculture: Linkages to Food Security, Markets and Trade Policies in Developing Countries. 82 p. FAO. ISBN 978-92-5-107109-0.
- Ref 7 Clements, R., J. Haggard, A. Quezada, and J. Torres 2011. Technologies for Climate Change Adaptation – Agriculture Sector. X. Zhu (Ed.). 192 p. UNEP Risø Centre, Roskilde,2011
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- Ref 12 USEPA 2012 National Water Program 2012 Strategy: Response to Climate Change. Public Comment Draft. 108 p.
- Ref 13 CCAFS Business Plan 2012.
- Ref 14 Report of the Working Group on Decentralized Planning in agriculture for the XII Plan Prof. R S Deshpande, Director, ISEC, Chairman, Working Group & Prof. B Chakravarty, Head (CPME), NIRD Member - Secretary, Working Group Submitted to the Planning Commission, Government of India.
- Ref 15 GOVERNMENT OF INDIA MINISTRY OF WATER RESOURCES NATIONAL WATER MISSION Under National Action Plan on Climate Change. COMPREHENSIVE MISSION DOCUMENT Revised draft Volume – I.
- Ref 16 Mahendra Dev S Small Farmers in India: Challenges and opportunities WP-2012-014, IGIDR. 35 p.
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