

Bridging the gap between climate information supply and practical use in Bangladesh

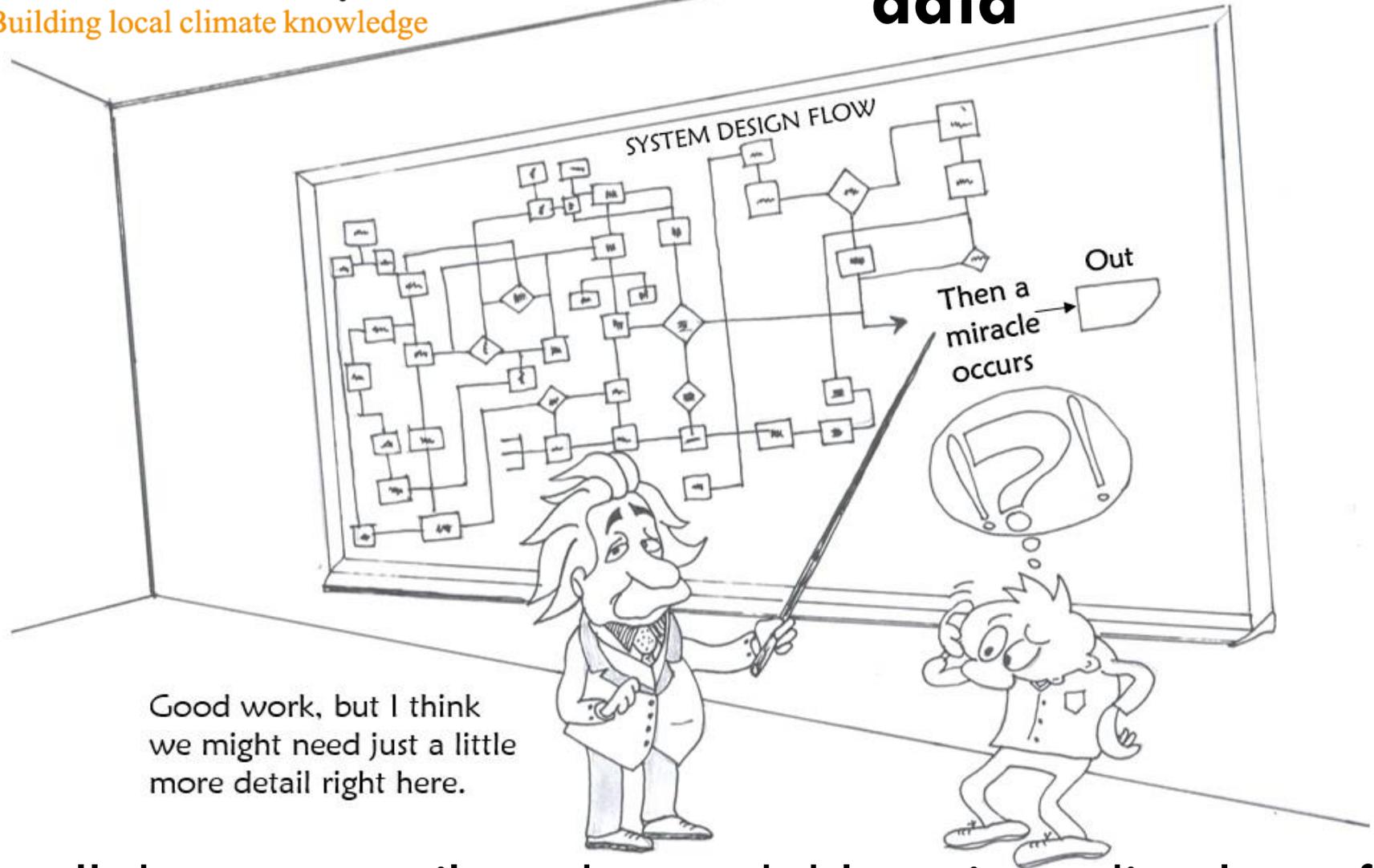


Towards a cross-sectoral Climate Services Academy

Timothy J. Krupnik

and many, many other colleagues and collaborators

Scientists generate a lot of data



Not all data are easily understandable or immediately useful for decision making

What are climate services?

“**Climate services** provide climate information to assist decision making by individuals and organizations. Such services require appropriate engagement along with an effective access mechanism and must respond to user needs.” (WMO)

“**Agricultural climate services** analyze climate information and develop information, communication processes, institutional arrangements to assist farmers and others in the agricultural value chain to: Decide what and when to plant, how and when to irrigate & fertilize, manage pests, mitigate production risks, etc.”



Science



CLIMATE CHANGE

From science to service

Climate services are crucial for successful adaptation to current and future climate conditions

By Lisa Goddard

“...any climate service must have a clear problem focus, build on good-quality observations, and consider climate across different time scales.”

Key principles of good climate services development

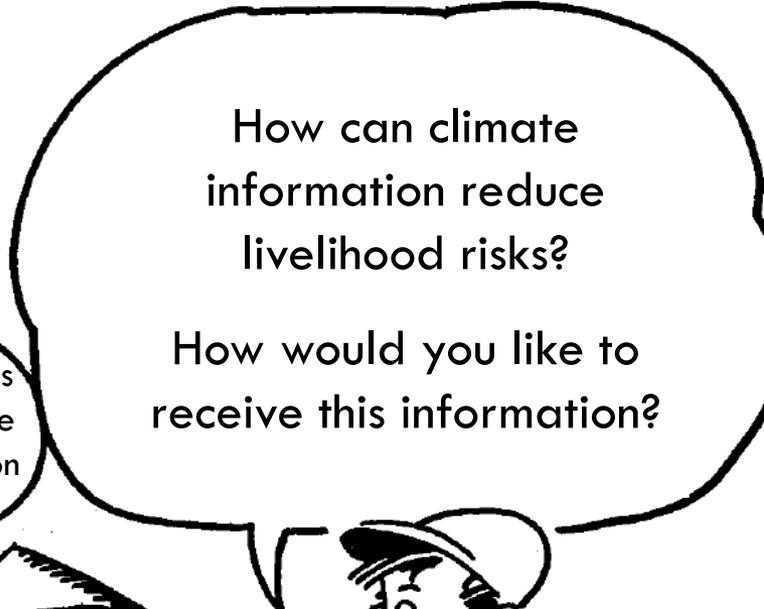
1. **Clearly define the role of climate in influencing decision making** (*don't make assumptions and understand user demand*)
2. **Know your data** (*and data quality*)
3. **Understand relevant time scales** (*not all climatic variables are equal*)
4. **Build awareness, educate and respond to stakeholders** (*overcome climate and forecasting misconceptions*)

Bridging the climate information gap



Bridging the climate information gap

Climate and yield =
$$\sum_{t=0}^t \left(\frac{x_t^2}{1 + x^2} \right)$$





Strategic alignment



Climate Services for Resilient Development (CSRSD)

Research for agricultural climate services in Bangladesh:

- Supporting BMD and DAE to extend relevant climate advisories and DSTs to farmers
- Services tailored to farmers' decision making frameworks and priorities
- Increasing short-, extended- and seasonal-range forecast skill
- Weather forecast based irrigation scheduling
- Wheat blast disease early warning systems
- Research product scaling: WB funded Weather and Climate Services project for Bangladesh

Research for climate services across South Asia:

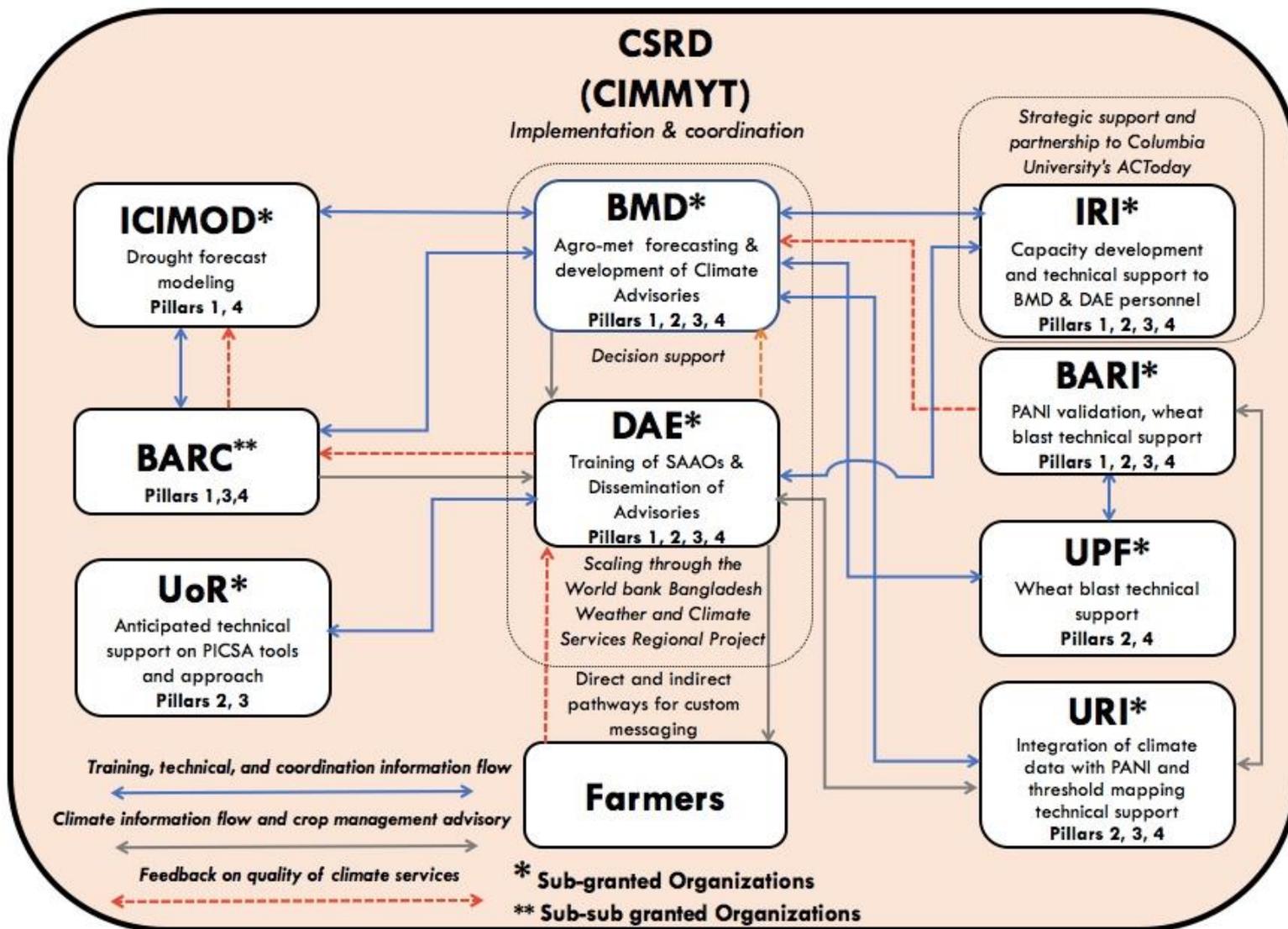
- Remote sensing based regional drought monitoring and forecasting
- Regional lentil disease forecasts and advisory systems

Capacity development for climate services across South Asia:

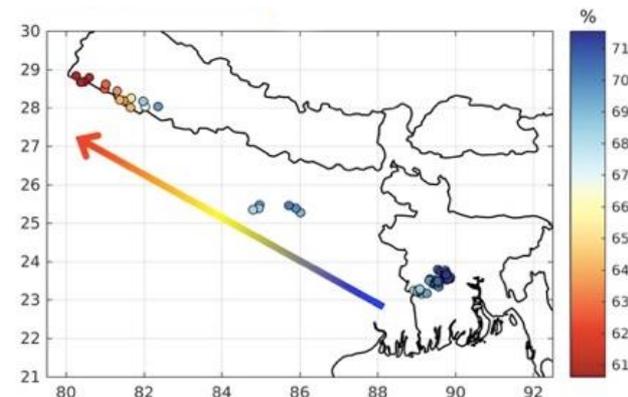
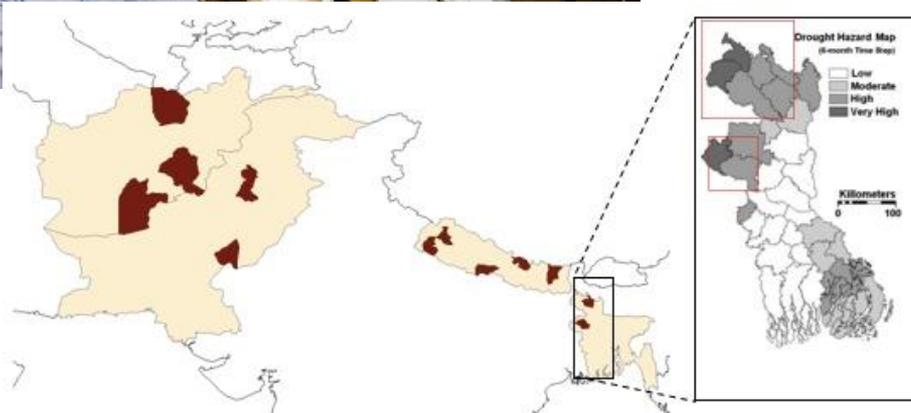
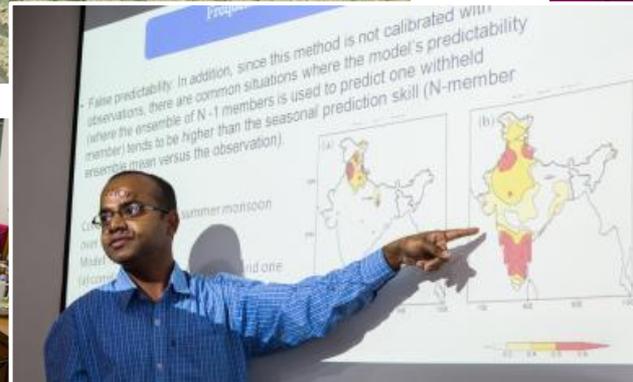
- Boosting technical skills to develop climate services use in the agricultural sector
- Supporting policy and technical discussions to increase sectoral use of climate services



Climate Services for Resilient Development (CSRD) in South Asia



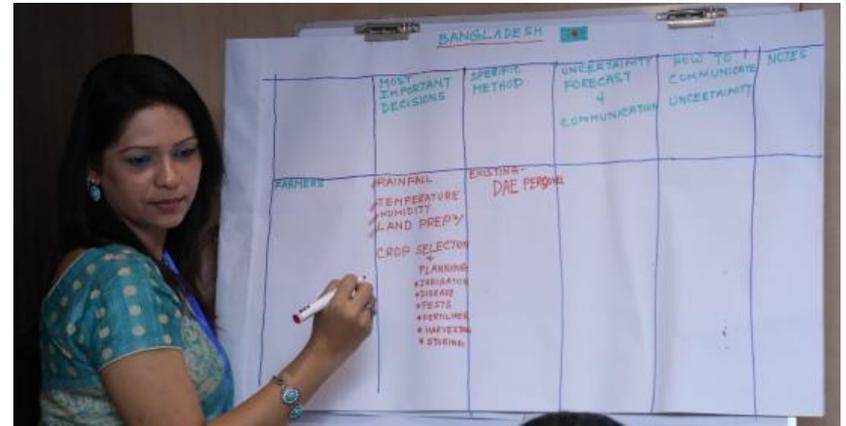
Climate Services for Resilient Development (CSRD) in South Asia



Participatory and Institutional Approaches to Agricultural Climate Services Development: A South and Southeast Asia Regional Technical and Learning Exchange (September 2017)



- > 65 participants from 11 countries and 28 organizations
- Interactive and hands-on
- First forum of its kind
- Cross-sector dialogue in agriculture: Met., research, and extension departments, NGOs, donors



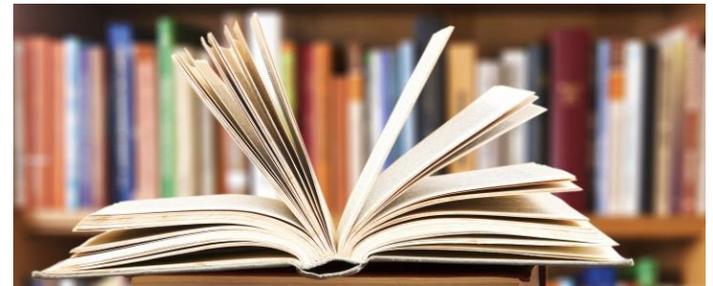
Moving forward: Towards a cross-sectoral climate services academy

- Multiple examples of climate or weather services projects in Bangladesh
- Additional cross-project coordination, in addition to technical educational and training required:
 - Localization of climate information
 - Use of models, decision support tools, etc.
 - Comprehensive technical training
 - Support to under-represented sectors
 - Aquaculture and livestock
 - Nutrition and health
 - Insurance options
 - Disaster preparedness



Launching Bangladesh's first-ever climate services academy!

- A forum for climate information sharing and decision-maker learning
- Develop new climate service initiatives
- Technical support, learning and communication Increase sharing and use of climate information
- Foster climate services in under represented sectors
- Courses, and potentially degree or certification programs
- Any other ideas?



YOU are the Climate Services Academy!

We look forward to your participation, ideas, input, and partnership!





RESEARCH PROGRAM ON
Climate Change,
Agriculture and
Food Security



CSRD is aligned with the Climate Change, Agriculture and Food Security CGIAR research program



East Africa



West Africa



Latin America



Southeast Asia



South Asia



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Priorities and Policies
for CSA

Climate-Smart
Technologies and
Practices

Low Emissions
Development

Climate Services and
Safety Nets

Gender and Social
Inclusion



Climate-Smart Agriculture



Climate-Smart Villages



Capacity Enhancement



Planning, Monitoring, Learning and
Evaluation