

The future of African weather forecasting: What are the priorities for international funding to build capability and capacity?

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Role of weather/climate services and needs

- **Operationality** :
 - Collect data in real time : maintenance, technology,
 - Regular forecast (bulletins)
 - Provide services to sectors heavily climate dependent
- Assessment of **needs** in climate information services by sectors (ages, location, genders, ...) : agriculture, fisheries, livestock, health, ...
- **Tailored to the needs of beneficiaries** : coproducing climate information
- **Delivering** climate information and services (communication channels)
- **Monitoring and evaluating** the use and effectiveness of climate information and services by beneficiaries and improvement (dynamic)
- **Sustainability** : profitability (at least cost recovering) : PPP

Delivery climate information at local scale



CHANNELS OF DISSEMINATING CLIMATE INFORMATION

END USERS, Government

- CLPA (**fishermen**)
- ORGANISATIONS PAYSANNES (**Farmers**)
- GTP
- FAO (appli mobile)
- Naatal Mbay (**Private**)
- DPM/DPSP – HASSMAR
- DPC (**disaster risk**)
- Comités de Veille (St-Louis et Mbour) (**fishermen**)

Community Radios

- Radios nationales
- Emissions
- URAC (**114 radios**)
- REJAQUES
- PRESSE ECRITE

Early Warning System

- Alertes SMS et **VOCALES**: pêcheurs (CLPA), organisations paysannes, CNGI, services techniques (pêche, croix rouge, Enda NRJ, FAO, Ministères...)



Online Media

- Site web ANACIM: www.anacim.sn
- Application Mobile: Rechercher [ANACIM](#) Sur [Google Play Store](#)
- Portail web du Cadre National des Services Climatiques
- Email

TV Bulletin

- Participation aux émissions TV
- Infos Météo dans les émissions TV Yeewoulen(TFM), Sen Show(SEN TV), Kinkeliba (RTS) et RDV

Partnering with private (JOKALANTE) on delivering voice messaging

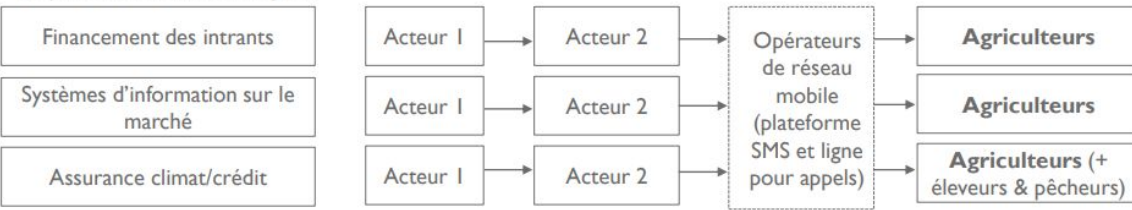
Dalberg study of PPP potential

Les deux modèles économiques les plus prometteurs peuvent s'appuyer sur différents types d'acteurs le long de la chaîne de valeur

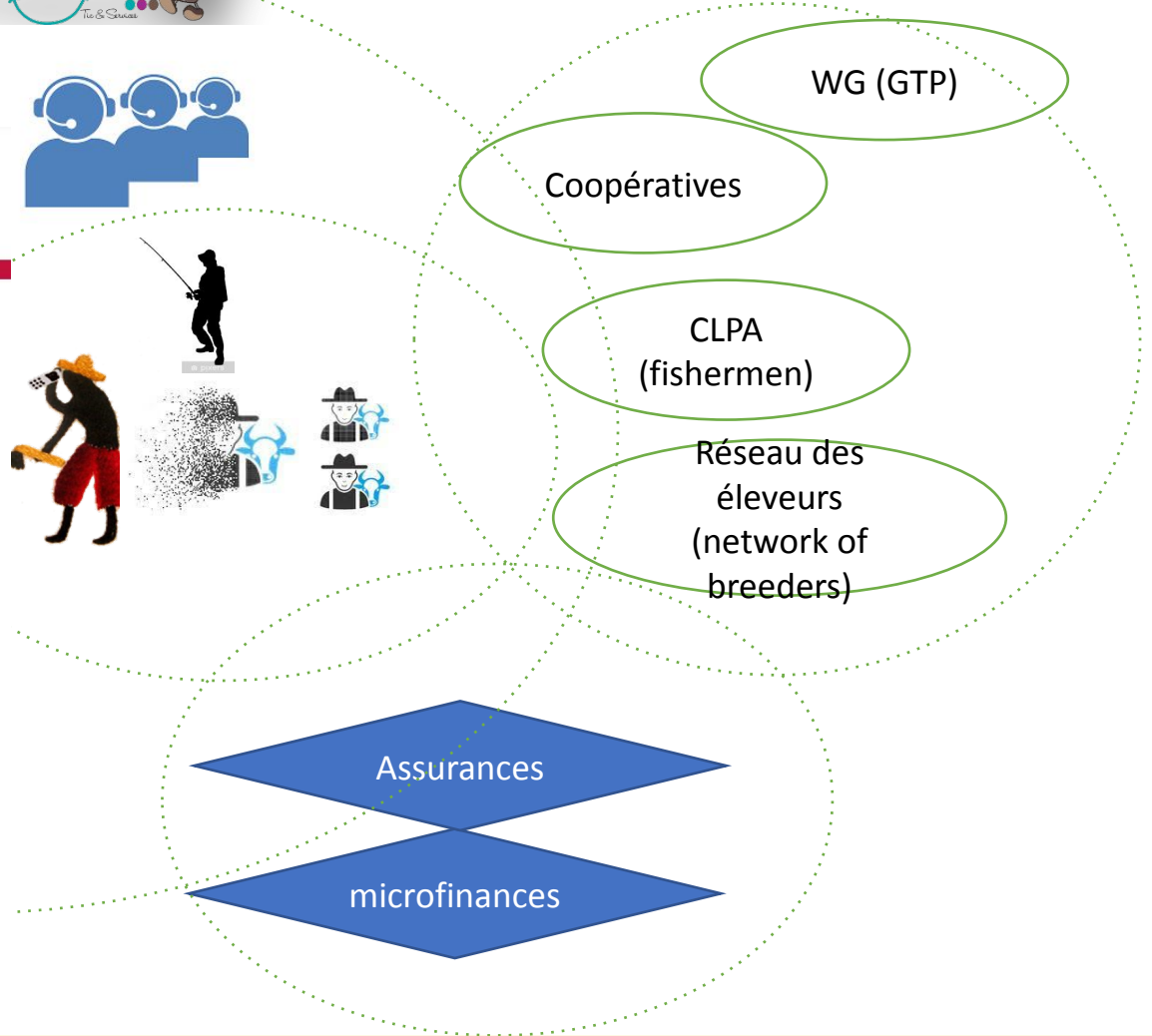
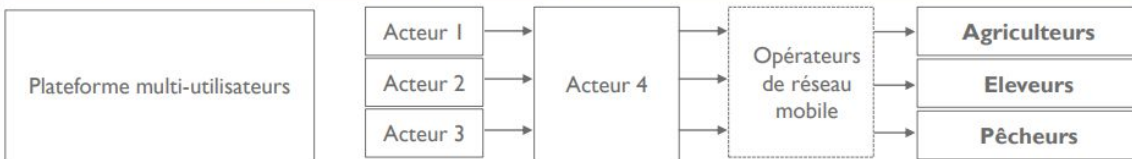


[BM10] Intégration - Dissémination des SIC en association avec un service existant pour accroître la valeur ajoutée à l'utilisateur final et réduire les coûts de transaction

Exemples de services auxquels les SIC peuvent être associés/intégrés :

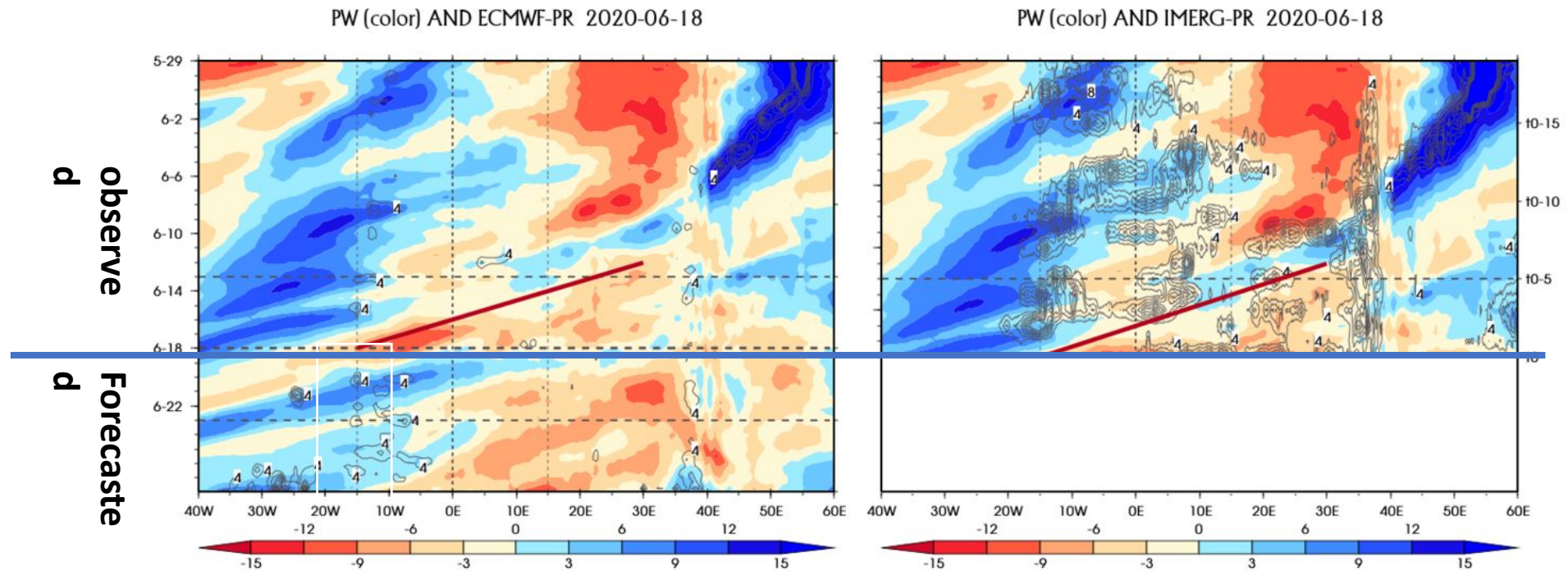


[BM9] Plateforme intégrée : Plateforme technique à mettre en place pour disséminer les SIC, accompagnés de conseils à chacun des trois groupes cibles afin de mutualiser les coûts



Access to new technology : example of using S2S

Long range forecast using 2 weeks leadtime forecast



To answer to the question PRIORITIES

Adapted or edited from “What resources does your institution need to carry out sustainable African led-testbeds?”

1. Coordination and management

- Engineer/PhDs/Political meteorologist to director of NHMs (job is management)
- Plan and Vision : demand driven, clear and reachable (what, when and how)

2. Human resources:

- Qualified staff and building capacity (plan on capacity building)
- Lacking capacity : marketing, communication ...

3. Resources and infrastructures :

- Internet connectivity (lots of stuffs on the web) and computers
- High-performance computation,
- Building and offices (attractiveness)

4. Funding:

- Sustainable funding : government, partners, products, marketing

Example of Few actions in our Vision at ANACIM

1. Improve the observing system

- Use national adaptation plan to acquire more instruments (% in each CC project)
- Renovating two stations per year with internal budget
- Use projects (area bound) to acquire AWS
- Use project overheads to renew instruments (barometer, thermometers by 2021)

2. Put in place a business model with private partners

- Train (increase awareness) user groups (farmers, fishermen, decision making) on CIS
- Collaborate with private (startup) to develop voice messaging and phone app
- Include climate information in services (package) sold/proposed to users (fertilizer and seeds producers)
- Law on : “Rules and guidelines on the Role, Operation and Management of CI providers/stakeholders”

3. Maintain and improve CIS

- Operational forecasting at finer scale (NWP)
- Monitoring and evaluation of any services (project) : added values + feedback
- Creating MWG (GTP) in all districts by 2025 (35/46)
- Impact base forecast

4. Numerical Weather Prediction

- Train staffs on NWF: researcher, forecaster and supports (hard and soft wares)
- Infrastructure : DELL computer,
- Research : tuning, validating, new products