



Funded by
the European Union



GEORGIA
FinExCoop



AFD
AGENCE FRANÇAISE
DE DÉVELOPPEMENT

Romain Vidal, Chief of Project, BRL

“Use of smart agriculture technologies for State and policy purposes for land and water management”



Funded by
the European Union



GEORGIA
FinExCoop



AFD
AGENCE FRANÇAISE
DE DÉVELOPPEMENT

Develop sustainable agriculture and improve
water management

–

A major challenge for Georgia



©Ilia Kunchulia, GFA



Funded by
the European Union



GEORGIA
FinExCoop



AFD
AGENCE FRANÇAISE
DE DÉVELOPPEMENT

What are the constraints facing decision-makers in agriculture and water management? – Perspectives from BRL as an irrigation service provider and BRLi as an engineering company supporting the preparation of rural development projects

- Smart agriculture technologies from the State's perspective:
 - ➔ Make the best use of land and water
 - ➔ Address the new constraints of the changing environment
 - ➔ Support policymaking
- **Accurate, timely, and comprehensive information** is required for guiding the conception, implementation, monitoring, and evaluation of agricultural and water policies



Funded by
the European Union



GEORGIA
FinExCoop



AFD
AGENCE FRANÇAISE
DE DÉVELOPPEMENT

- **Need multiple information to:**

- Know the territory (agricultural land use and dynamic, type of cropping systems, state of resources (soil, water, forest...), type of farms, etc.)
- Plan projects and interventions
- Monitor and evaluate impacts
- But the strong need for information often **lacks of reliable and timely basic data** and suffers from weak financial and material resources.



Funded by
the European Union



GEORGIA
FinExCoop



AFD
AGENCE FRANÇAISE
DE DÉVELOPPEMENT

- **Private traders usually have access to better and more information than public systems.**
 - ➔ Some private farms and service providers with sufficient capacities to make the best use of smart technologies (access to the information, implementation)
 - ➔ Public players making a limited use and promotion of smart technologies despite the strong interest in addressing the constraints of resources, needs in information and impacts at local and regional level.
- In the south of France, awareness has grown in recent years of the importance of working at different scales to deal with climate change impacts and economic transformation of rural areas.



Funded by the European Union



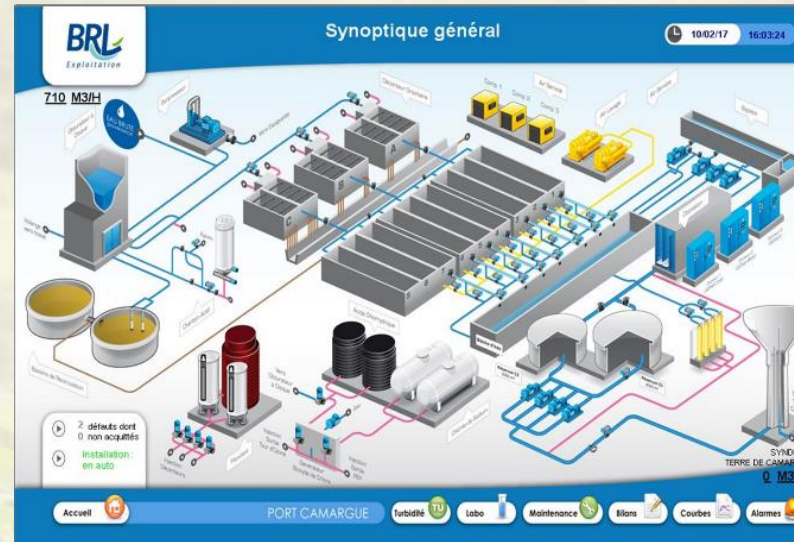
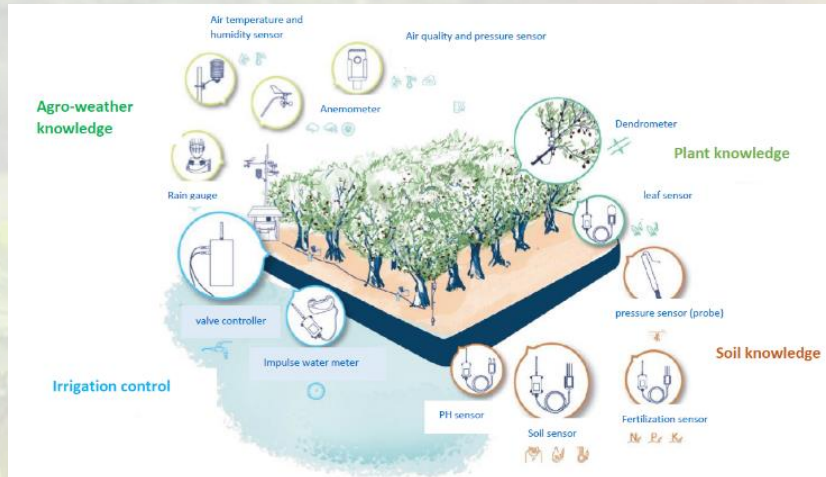
GEORGIA FinExCoop



AFD AGENCE FRANÇAISE DE DEVELOPPEMENT

Combine smart technologies at the farm's level...

... and at the irrigation system's level





Funded by
the European Union

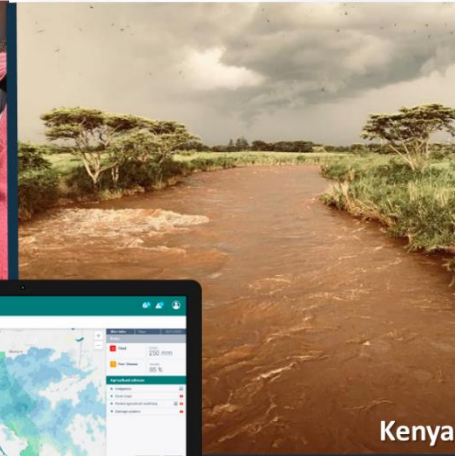
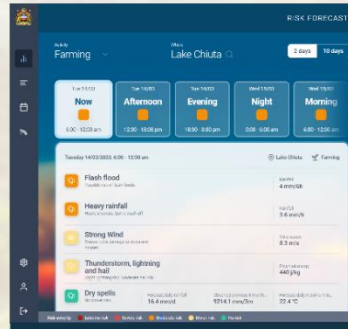


Make the best use of technologies to understand where the challenges are and how to address them

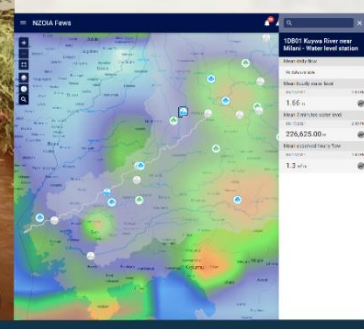
Make both in situ and spatial data reliable on a given territory by comparing and coupling them

From Big Data to Smart Decision

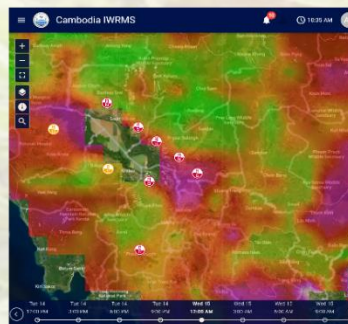
Knowing last mile weather forecasts, adapt your activities according to the risk severity level.



By anticipating extreme climate risks, save precious time in the distribution of alerts and save lives.



Build a resilient action plan at regional scale by assessing the seasonal hydric stress.



Make the right decisions for the operational management of hydraulics works.



Funded by
the European Union

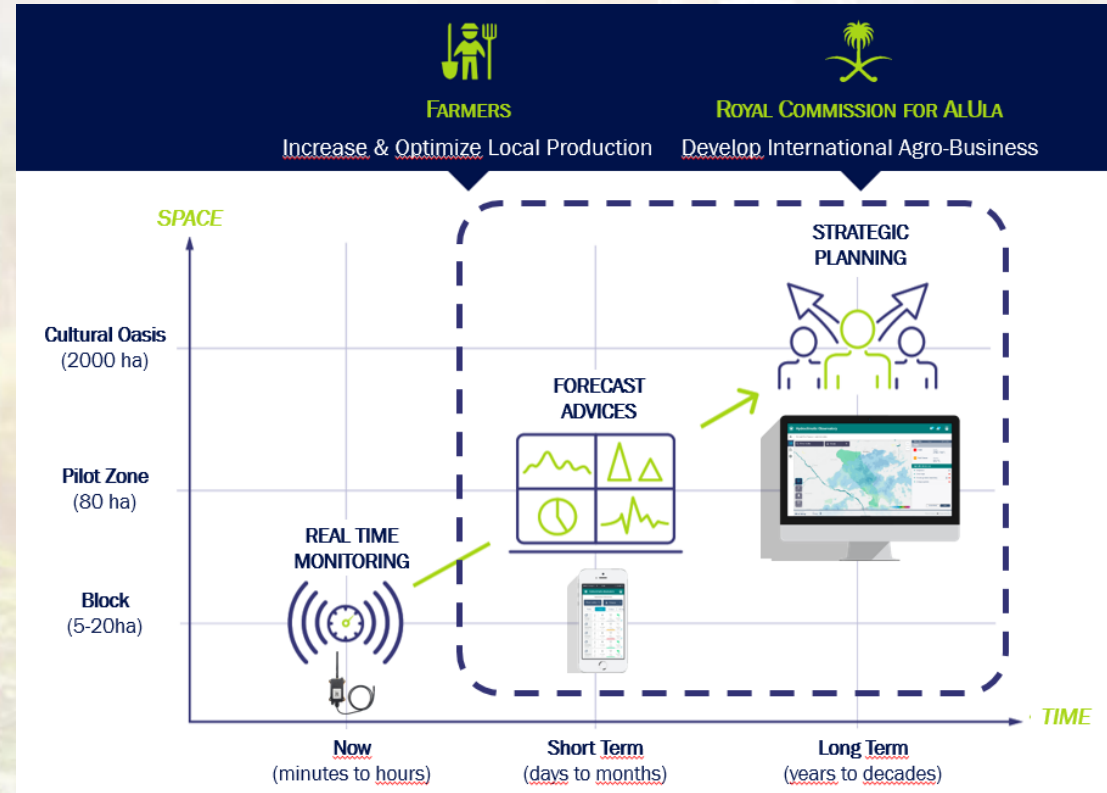


GEORGIA
FinExCoop



AFD
AGENCE FRANÇAISE
DE DEVELOPPEMENT

Be able to consider different spatial and
time scales for strategic planning





Funded by
the European Union



GEORGIA
FinExCoop



AFD
AGENCE FRANÇAISE
DE DÉVELOPPEMENT

Challenges – Fill the gap between

1. technical analysts and policy-makers
2. theory and practices

- The challenge is not so much to produce reliable data as to use it
- Combining different scales of thought and action is essential to anticipate and manage the impacts of the adoption of smart agriculture technologies. “Smart” is relative and depends on where you stand.
- Maximizing the positive impacts of smart agriculture technologies requires “smart” farmers and policymakers.



Funded by
the European Union

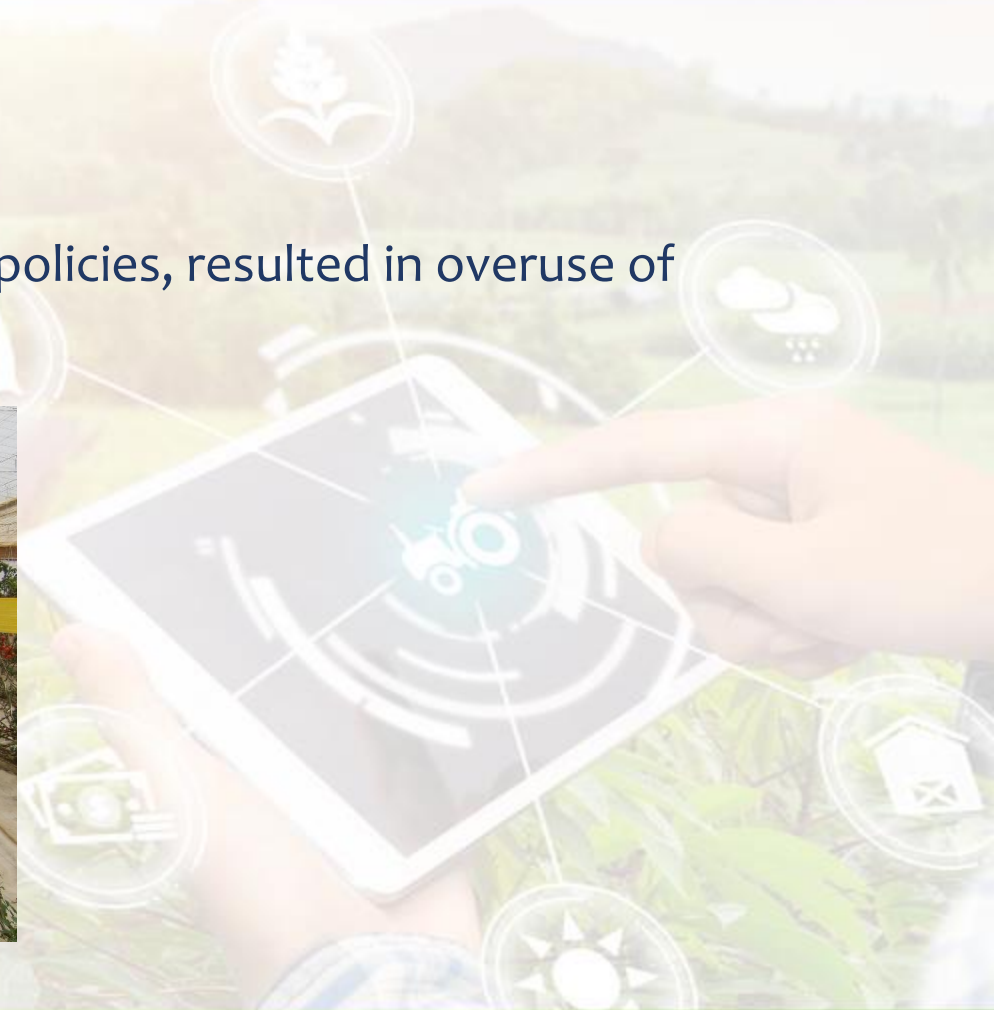


GEORGIA
FinExCoop



Study case

Development of micro irrigation in Morocco, supported by public policies, resulted in overuse of water and increase of water conflicts





Funded by
the European Union



GEORGIA
FinExCoop



AFD
AGENCE FRANÇAISE
DE DEVELOPPEMENT

THANK YOU FOR YOUR PARTICIPATION!
გმადლობთ მონაწილეობისთვის!