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Giorgi Khuroshvili

Agronomist, Georgia

"Launching a system of phytosanitary control in Georgia for fruit production. Lessons from the EU experience of a network of small-scale climatic stations integrated into a common analytical platform"

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Launching a system of phytosanitary control in Georgia for fruit production

Observation on the phytosanitary protection of apple and pear orchards in Georgia :

→ Many chemical interventions are carried out but do not always give satisfaction and sometimes parasitic losses are important.

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WHY?

- Generally, because the farmer does not apply the right product at the right time because he lacks information on the development of the parasite.

- The reduction of usable chemical molecules, the application of increasingly strict specifications for export, and societal pressure make the use of pesticides very limited and complicated.

Consequences:

- To evolve in their profession and face the challenges of tomorrow farmers must benefit from technical assistance and exchanges on their practices

Interested in setting up metro stations in the FinExCoop Project

- Determine with metro data and specific software like Rimpro how parasites such as scab or carpocapse and other pathogens evolve and know when and how to intervene.

Goals:

1) Better phytosanitary products efficiency = less intervention

- Environmental protection
- Less residues on fruit
- Less resistance to parasites
- Saving money

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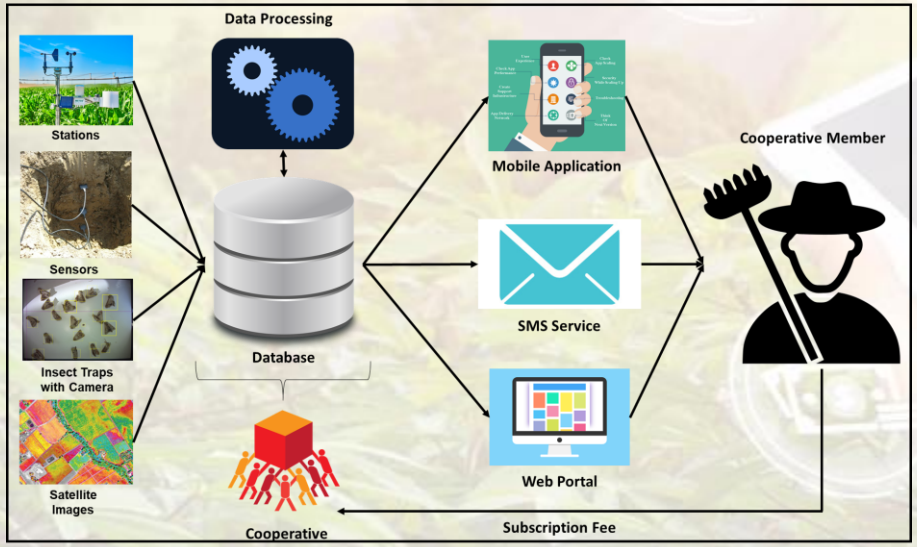
Interested in setting up metro stations in the FinExCoop Project

2) build a cooperation between farmers on the basis of a subject that directly interests them.



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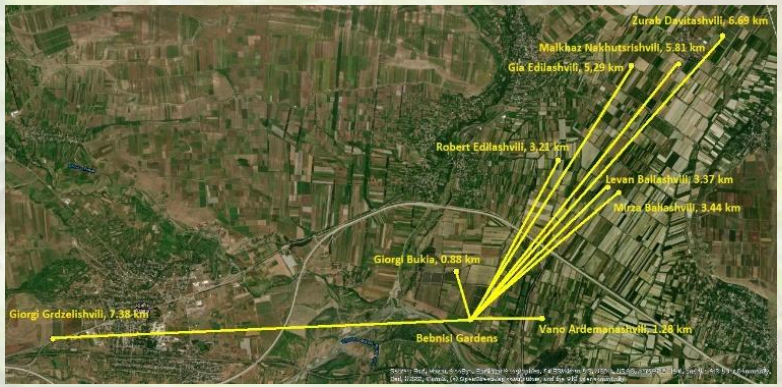
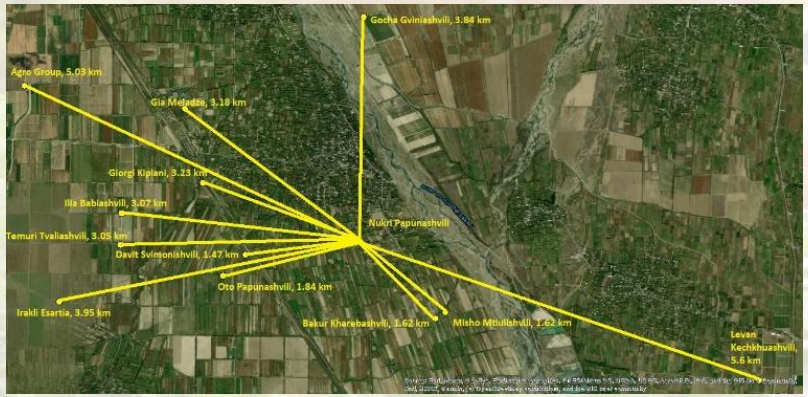
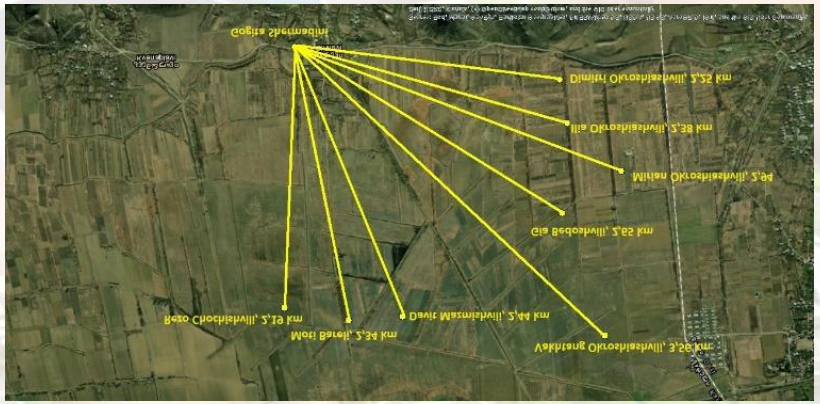
- Establishment of the weather stations:

Installation in spring 2022 of 3 weather stations where about thirty farmers with similar climatic conditions can use information







- Total area of orchard concerned: 300 hectares.
- 2 technicians to interpret the data to transmit it to the farmers and answer their questions
- Installation in conjunction with codling moth's pheromone traps in the orchards.

The results:

- 21 technical flashes sent throughout the season.
- Many information meetings with farmers to explain the interpretation of the data.
- General satisfaction of farmers who felt more secure in their phytosanitary protection practices.

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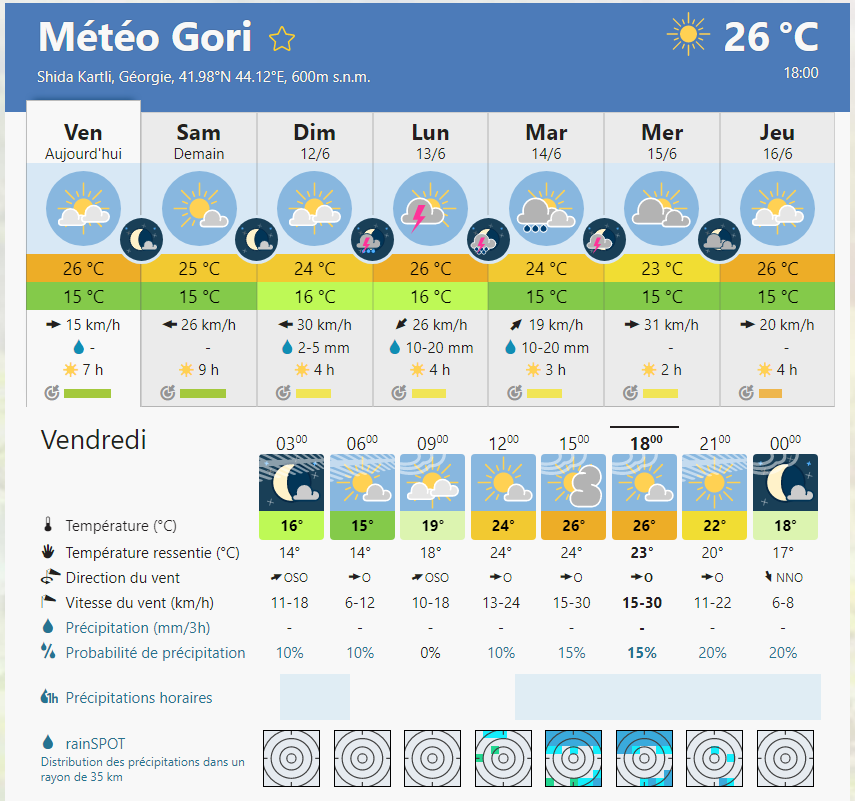
Flash n° 10 FinExCoop 10/06/2022



Météo Gori ☆ — 26 °C — 18:00

Shida Kartli, Géorgie, 41.98°N 44.12°E, 600m s.n.m.

	Ven Aujourd'hui	Sam Demain	Dim 12/6	Lun 13/6	Mar 14/6	Mer 15/6	Jeu 16/6
	26 °C	25 °C	24 °C	26 °C	24 °C	23 °C	26 °C
	15 °C	15 °C	16 °C	16 °C	15 °C	15 °C	15 °C
	15 km/h	26 km/h	30 km/h	26 km/h	19 km/h	31 km/h	20 km/h
	-	-	2-5 mm	10-20 mm	10-20 mm	-	-
	7 h	9 h	4 h	4 h	3 h	2 h	4 h

Vendredi

	03⁰⁰	06⁰⁰	09⁰⁰	12⁰⁰	15⁰⁰	**18⁰⁰**	21⁰⁰	00⁰⁰
Température (°C)	**16°**	**15°**	**19°**	**24°**	**26°**	**26°**	**22°**	**18°**
Température ressentie (°C)	14°	14°	18°	24°	24°	**23°**	20°	17°
Direction du vent	OSO	O	OSO	O	O	**O**	O	NNO
Vitesse du vent (km/h)	11-18	6-12	10-18	13-24	15-30	**15-30**	11-22	6-8
Précipitation (mm/3h)	-	-	-	-	-	**-**	-	-
Probabilité de précipitation	10%	10%	0%	10%	15%	**15%**	20%	20%
Précipitations horaires								
rainSPOT Distribution des précipitations dans un rayon de 35 km								

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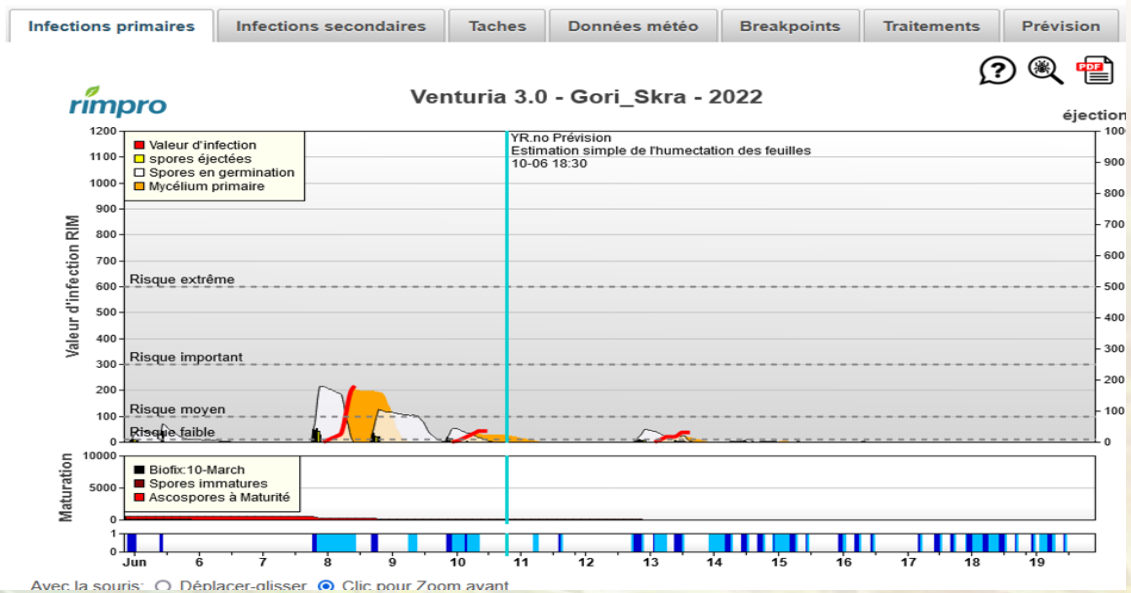

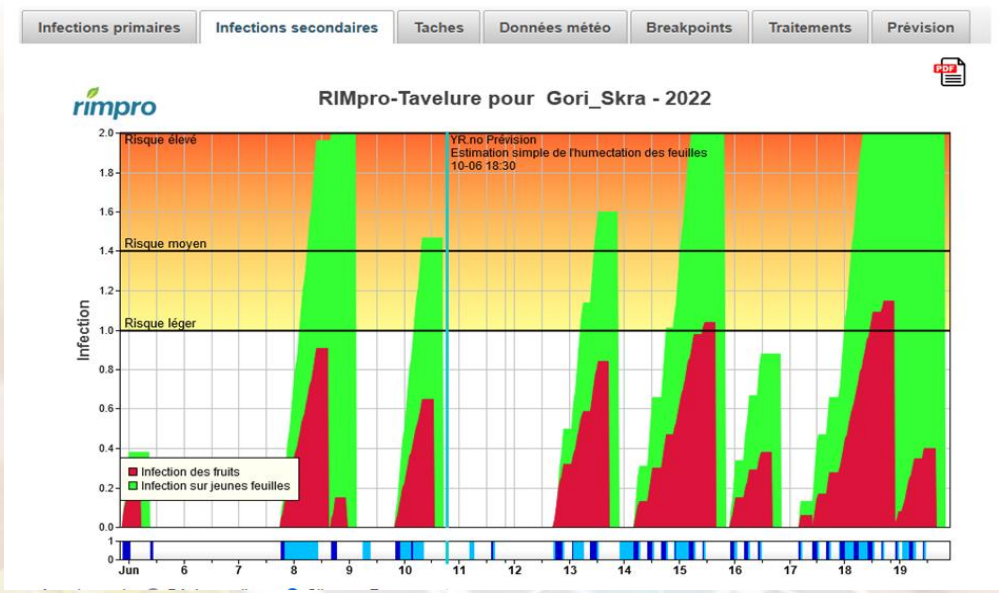

Spotless orchards: A slight risk of primary contamination is still possible from June 13th. Certainly, the last treatment for primary contaminations There a possibility to spray Monday morning …

As a precaution, it is better to treat this risk with a penetrating product because of the heavy rains announced to add a contact product.

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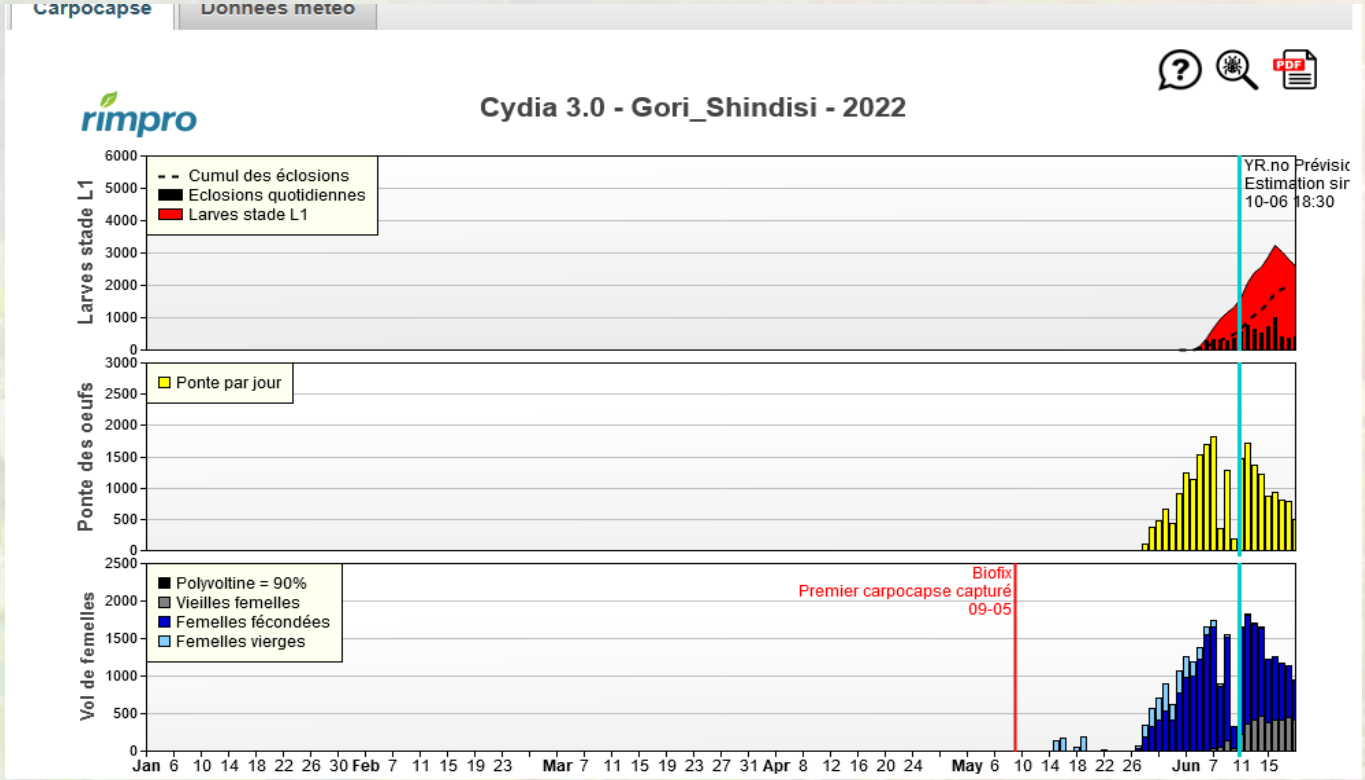
Codling moth
Flash n° 10 Finexcoop 10/06/2022



Most of the traps exceeded the intervention threshold on June 8.

It is necessary to ensure protection next week if need for renewal use a larvicide.

Conclusion:

The decision support software has become necessary to help farmers better manage phytosanitary protection challenges in the future.

It is absolutely necessary that Georgian producers can in the future have access to this information in order to be able to correctly evolve their practices within the framework of sustainable agriculture.

If we take the example of France, all the fruit growers are linked to this information either through a private technical service, their membership in a cooperative, or through chambers of agriculture.

In addition, a network of weather stations is connected to an organization financed (Polleniz) by the State which centralizes the information and redigest a newsletter approximately every week made available free for all, on the internet (BSV).

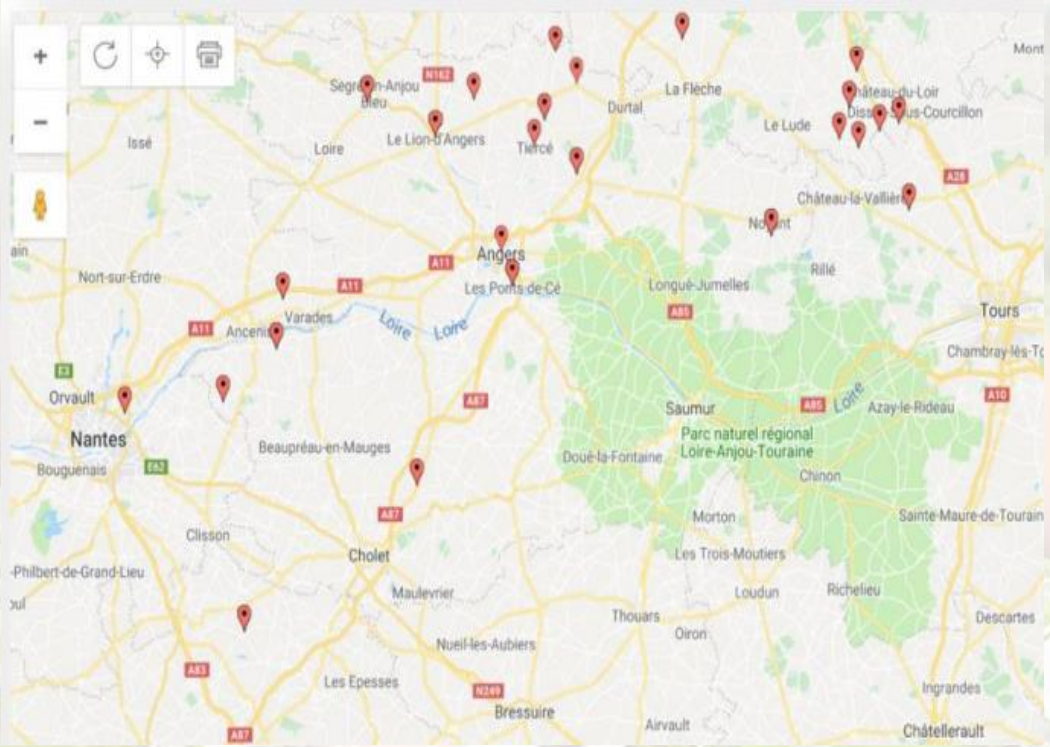
Focus on arboriculture in Pays de la Loire

3rd fruit production region in France
Mainly apples (217,000t) and pears (16,000t).

Weather stations are distributed throughout the territory and the data are retransmitted on the BSV.

35 plots are monitored by 11 observers and 162 traps are recorded by technicians or producers every week.

The information is sent on Friday to write the BSV at the beginning of the following week. Attention the BSV does not mention the products that can be used, It concretely helps farmers better anticipate risks and adapt your protection methods.



Conclusion

- This analytical platform is now essential for the proper development of phytosanitary practices in France. This type of initiative should be developed in Georgia.
- FinExCoop did this last year on a small scale, and we immediately saw the positive benefits that it could represent for farmers.

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THANK YOU FOR YOUR PARTICIPATION!

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