With your horse,

take part in a national participatory scientific research project on equine piroplasmosis and its vectors

PirOGO Tick

Equine piroplasmosis in France: vectors and genetic diversity of its agents, diagnostics and vaccinal application 2019-2025 L. Malandrin - A. Agoulon



Libe Éga Frat

École Nationale Nantes Atlantique Vétérinaire, Agroalimentaire et de l'Alimentation

RÉPUBLIQUE FRANÇAISE Liberté Égalité Fraternité

ifce 🕲 🟌

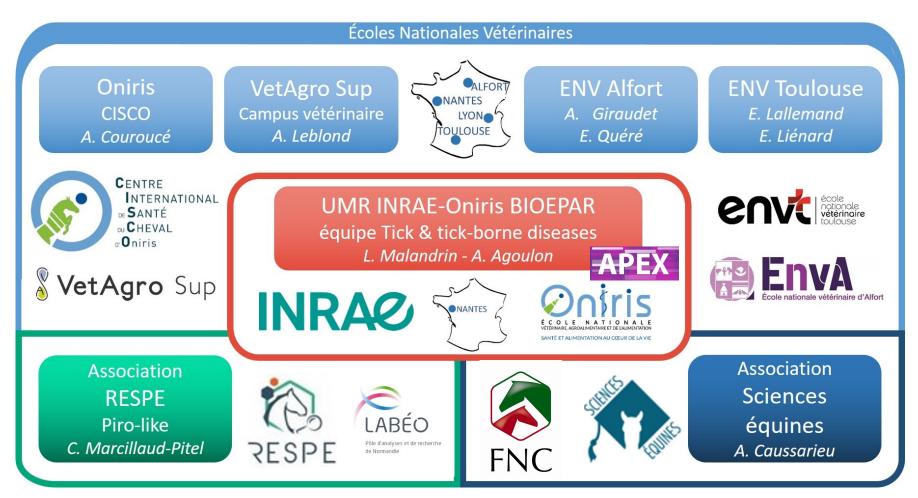
institut français du **cheval** et de l'**équitation**







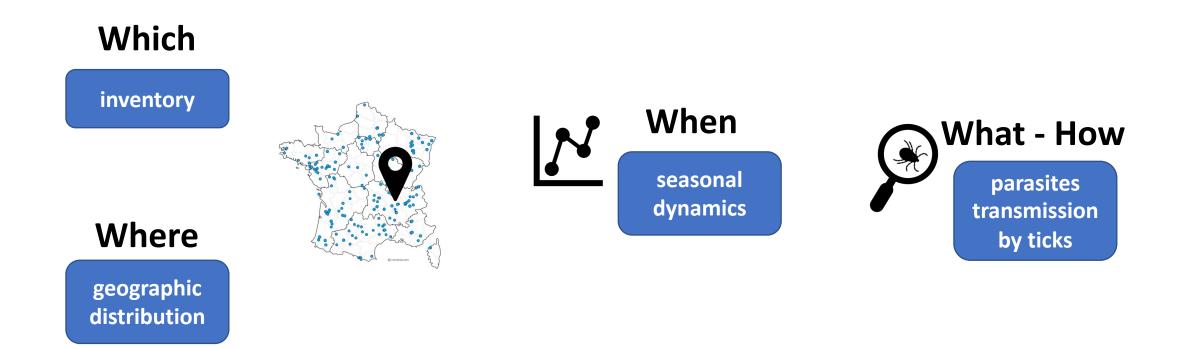
A national network of partners





First research action

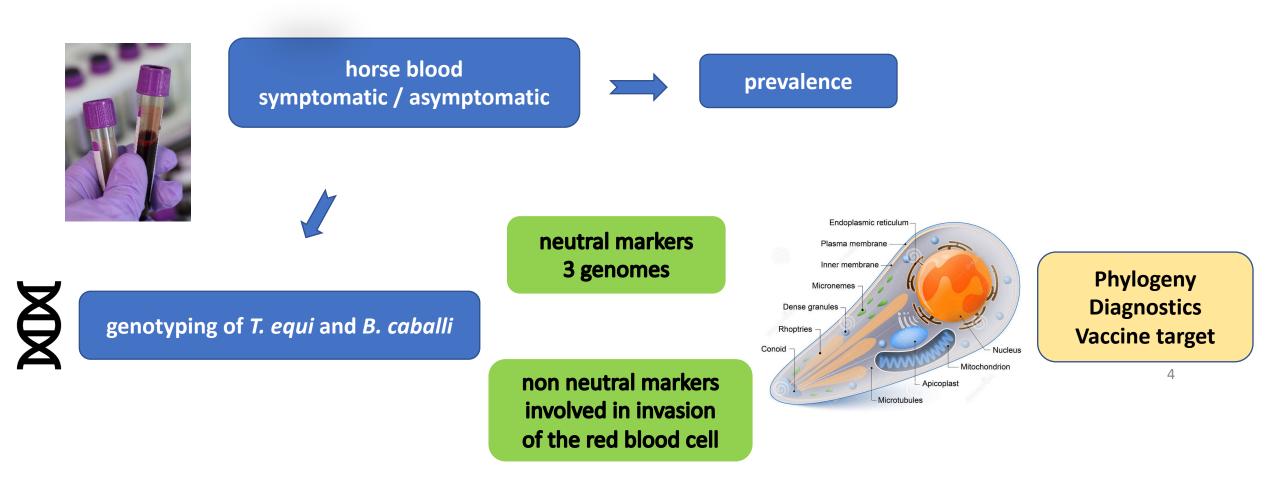
Ticks on Equids in France and parasite transmission





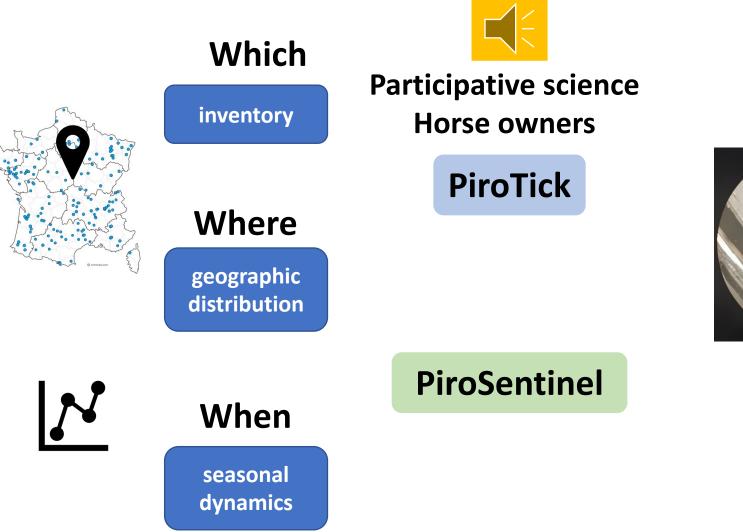
Second research action

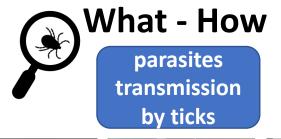
Parasites: genetic diversity and genotyping





Ticks on Equids in France and parasite transmission



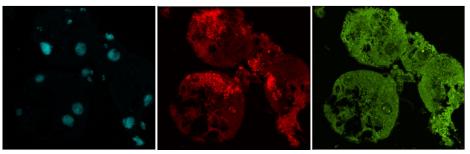




Tick dissection

Salivary glands

Ovaries



Microscopy of Salivary glands Parasite localisation by FISH (Fluorescent In Situ Hybridization)





What owners have to do?

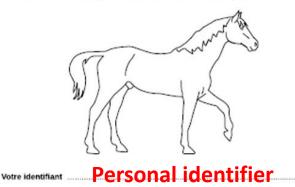


Fiche de signalement pour votre tique, à joindre à votre envoi

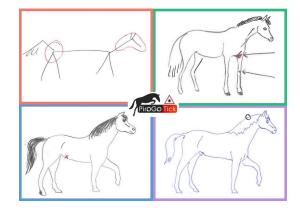
- Votre tique Date de collecte

Localisation sur le cheval (entourez la zone sur le schéma ci-dessous)

Plusieurs tiques ? Si vous le pouvez indiquez leurs emplacements sur le schéma par des numéros et individualisez-les pour l'envoi en notant le numéro sur chaque. Merci.



Vous choisissez vous même votre identifiant. Conservez-le, il sera à rappeler sur toute correspondance pirogotick@inrae.fr. Plus important, il vous permettra de retrouver, sur le site web www.pirogotick.fr, lidentification de la tique que vous avez envoyée. Cet identifiant sera visible par tous donc vérifiez qu'il ne permette pas à quelqu'un d'autre de vous identifier pour garder votre anonymat, ce qui est préférable.



PiroTick

NO PRINTER !!!! There is a way anyway !! Personal drawings from participants

- **1- Remove the tick**
- 2- Complete the form
- 3- Send it







PiroTick

What do the researchers do ?

Tick species identification

Version 201 Version 201</

Results on website

www.pirogotick.fr



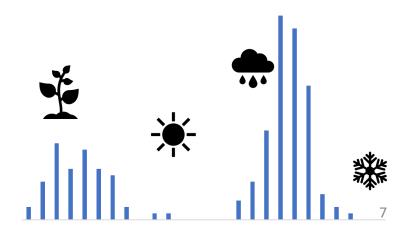
Personal confidential identifier



Tick species mapping



Seasonal observation







What owners have to do?

Complete the questionnaire and receive collection material



🗆 oui



Check the presence of ticks weakly



Remove and store the ticks in tubes containing alcohol

PiroSentinel



Complete the collection form



Ship when box is full







What do the researchers do ?

Tick species (Identification and counting

Questionnaires and collection forms' analysis

 PSID
 Debute

 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image: Debute
 Image

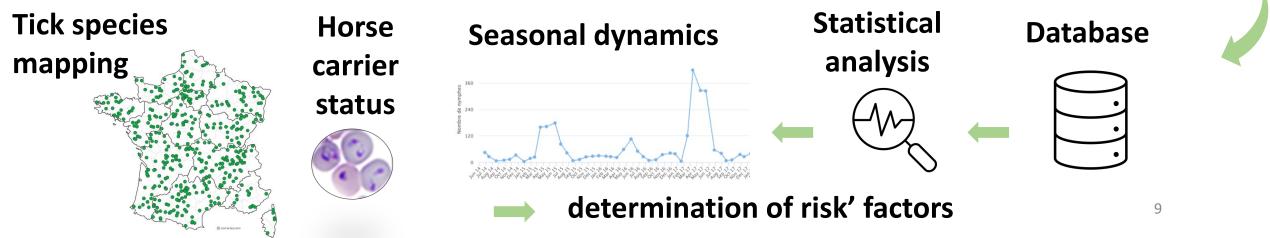
Blood analysis

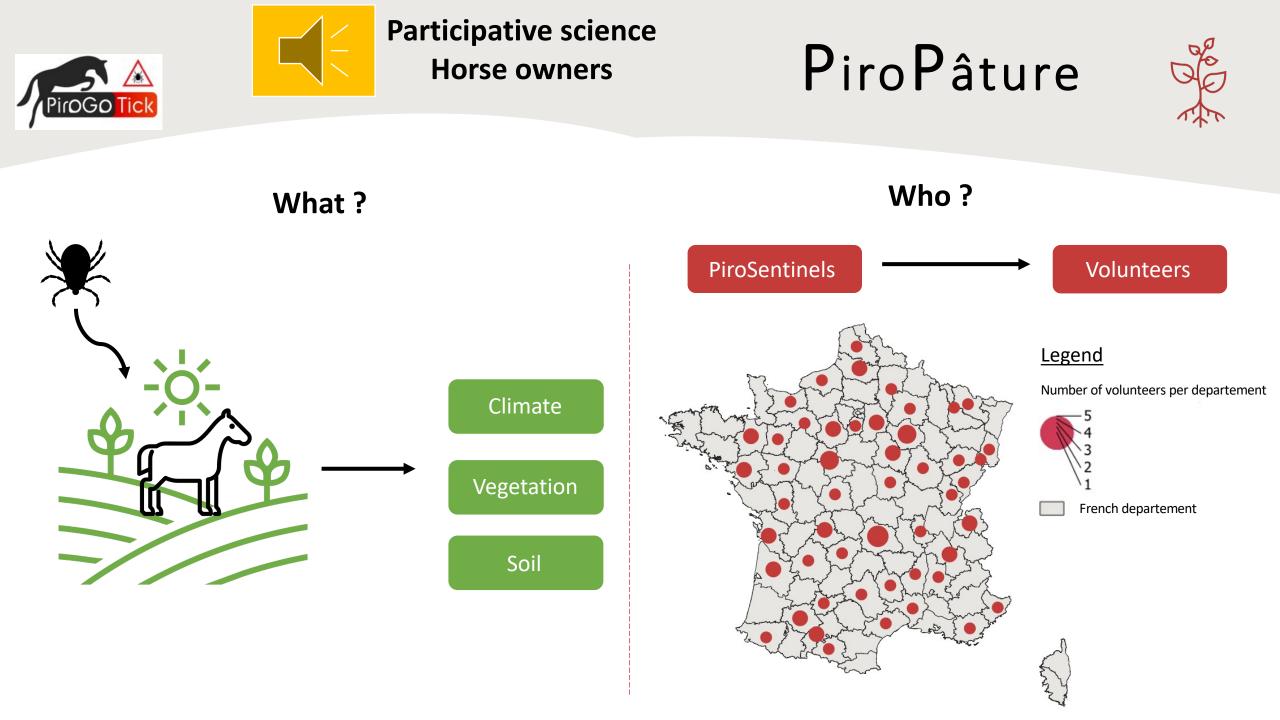
PiroSentinel

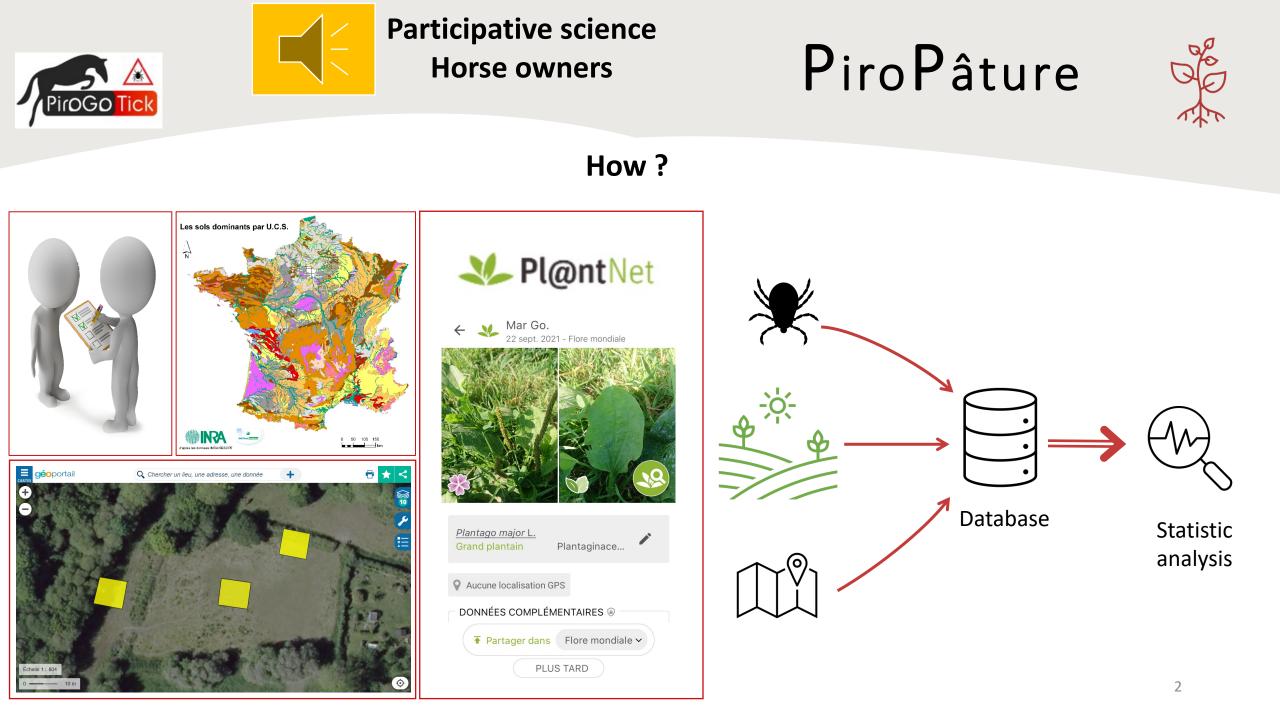


Results on website www.pirogotick.fr





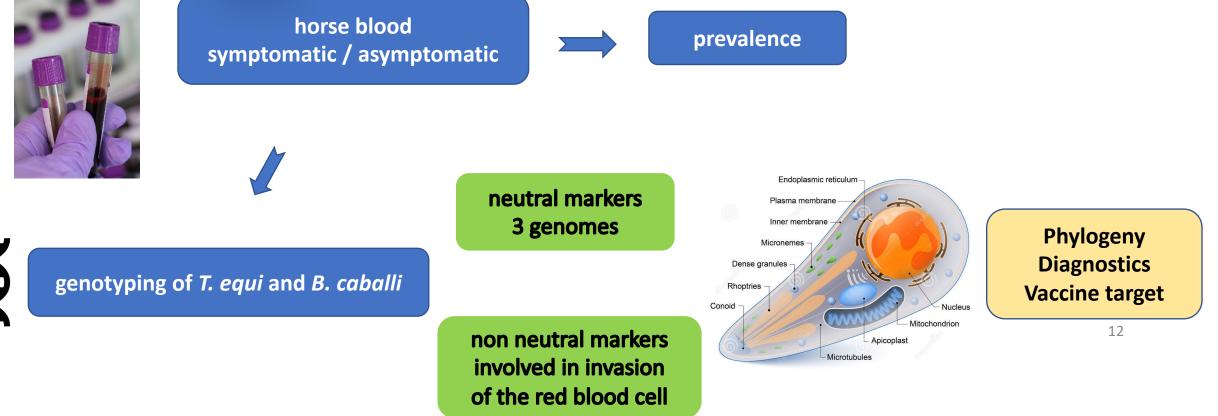






Second research action

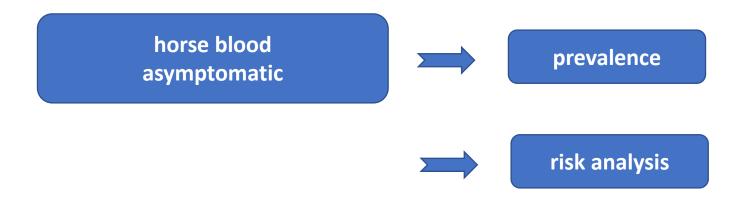






PiroQuest

Participative science - Horse owners



Alexandre Muzard Veterinary Thesis