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A new French organization based on multi-partner platforms for a more efficient and integrated surveillance on the food chain: a two years' experience on *Salmonella*

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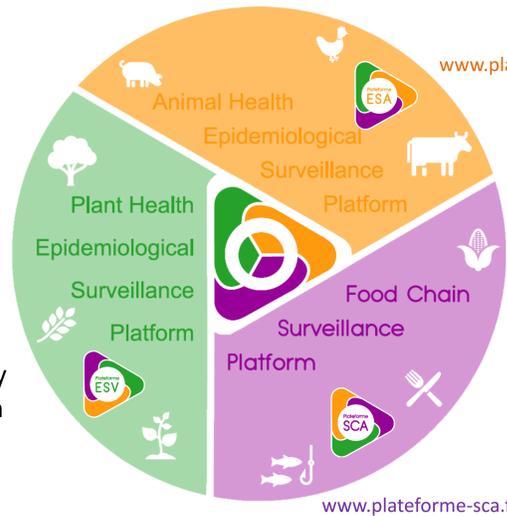
CONTEXT

France has recently set up a **new organization based on collaborative epidemiological platforms**, strengthening the link between private and public stakeholders in charge of ensuring food safety. The first two years of work focused notably on prevention of *Salmonella* contamination, data sharing and data quality.

www.plateforme-esv.fr

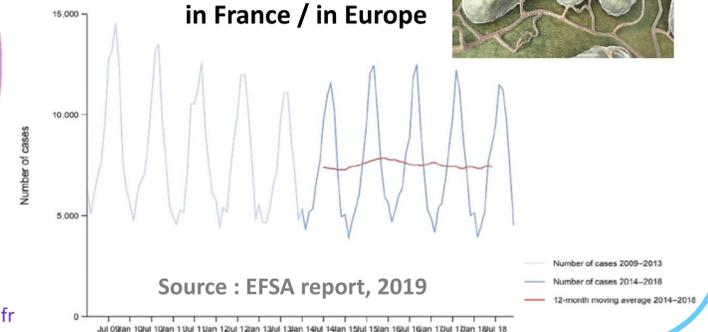
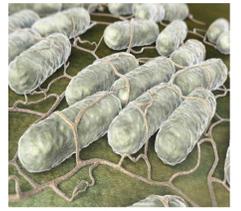
A FRENCH PLATFORMS' FRAMEWORK

- A shared governance with public and private stakeholders
- Platforms' values : consensus, collaboration, interdisciplinary
- Transversal approach across human, animal and plant health and their shared environment
- Operational and multisectorial applications (One Health)



A SALMONELLA NON-TYPHOIDAL BURDEN

The most frequently reported cause of foodborne outbreak with known origin in France / in Europe



FRENCH PLATFORMS OBJECTIVE

To **evolve** the national *Salmonella* surveillance system ... to **share** more useful data, for action in surveillance, risk management and/or risk assessment

TWO WORKING GROUPS (WG) IMPLEMENTED

By ESA and SCA steering committees

2017

2018

2019

2020

2021

A practical handbook for the dairy sector (1st WG)

An integrative surveillance reinforced across cattle, pig and poultry sectors (2nd WG)

Next step : Implementation of...

For WHO ?

- Dairy cattle breeders in "raw milk" sectors
- Veterinarians in connection with dairy farms
- Technicians involved in breeding
- Producer groups / associations
- Companies ensuring the collection of raw milk and / or the manufacture of raw milk cheeses
- Companies distributing these cheeses
- Bodies, doctors and organizations related to human health

5 steps

- Cow's milk production
- Milk collection
- Milk processing
- Dairy products retails/sales
- Human health

3 levels

- Routine
- Reinforced
- Investigation

15 technical sheets



- ✓ Objective
- ✓ Methodology of surveillance (case definition, monitoring methods)
- ✓ What information to share
- ✓ When to switch between levels



Salmonella spp surveillance on bovine raw milk cheese manufacturing sector

Conceptual and operational approaches all along the food chain

- Share of experience and skills
- Evaluation of surveillance
- Collective proposal for a new system for *Salmonella* surveillance

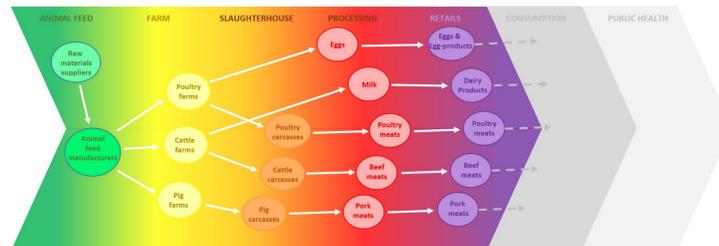


Figure : Representation of the implicated actors according to the production sector and step of the food chain (2nd WG)

Five phases :

1. Inventory / System in place

18 French networks / 41 actors, with ≠ intensity of interactions (interprofessions, professional organizations, federations, associations, technical centers, administrations, health institutions)

2a. ...of collaborations on surveillance by EcoSur (M. Bordier et al, 2019)

2b. ...of monitoring networks (volunteering) by OASIS (P. Hendriks et al, 2011)

4a. Design of sanitary and operating indicators
Collect of > 300 000 data / 7y.
from 6 networks' databases
-> high heterogeneity between databases

4b. Learning situation on a multisectorial contamination by S. Kedougou
design of procedures for future investigations

5. Recommendations

On strategy, tools, training, communication

3. Yes !
How to improve data collection and circulation of useful information ?
Collective definition of...
... What is useful for Whom ?
... Data flow and targeted exchanges
2. Evaluation
3. New system ?
4. Proof of concept

at national level
A stable and transversal WG with an operational action plan
+
at national & regional level
Targeted WGs on specific sector



CONCLUSION

This new French platforms' framework has recently enabled a integrative approach to improve *Salmonella* surveillance, to strengthen interactions and communication between stakeholders and to achieve greater consistency in the implementation of follow-up actions. This approach aimed at being generic and projectable to other contaminants and monitoring systems.

References

- Bordier M., Delavenne C., Nguyen DTT., Goutard FL., Hendriks P. (2019). One Health surveillance: a matrix to evaluate multisectoral collaboration. *Front. Vet. Sci.* 6(109):1-12.
- Hendriks P., Gay E., Chazel M., Moutou F., Danan C., Richomme C., Boue F., Souillard R., Gauchard F. and Dufour B. (2011). Oasis: An Assessment Tool of Epidemiological Surveillance Systems in Animal Health and Food Safety. *Epidemiol Infect* 139(10):1486-96.

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