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Classical swine fever in wild boars - France -



September 2014

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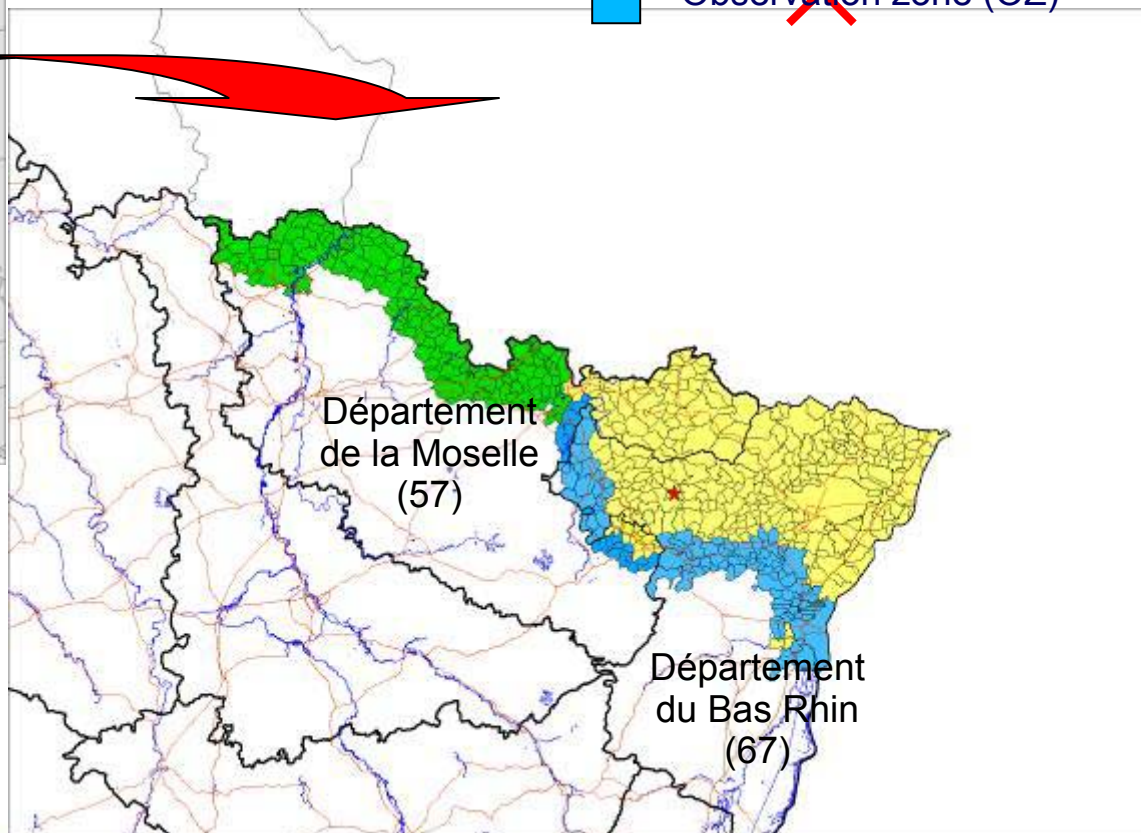
Zones under restriction



2012 - 2013

« Reinforced observation zone » (ROZ)
(after the lifting of the « Infected zone », on 1.01.2012 -
Decision 2011/743/UE)

-  Infected zone (IZ)
(Decision 2004/832/CE)
-  Surveillance zone (SZ)
-  Observation zone (OZ)



Scheme of surveillance



2013

January → October
(ROZ / SZ)

Game shooting :

PCR) all wild boars
ELISA test) all ages

Boars found dead :

PCR
ELISA test

November → December
(ROZ)

Game shooting :

ELISA tests on animals < 40 kg / 6-24 months

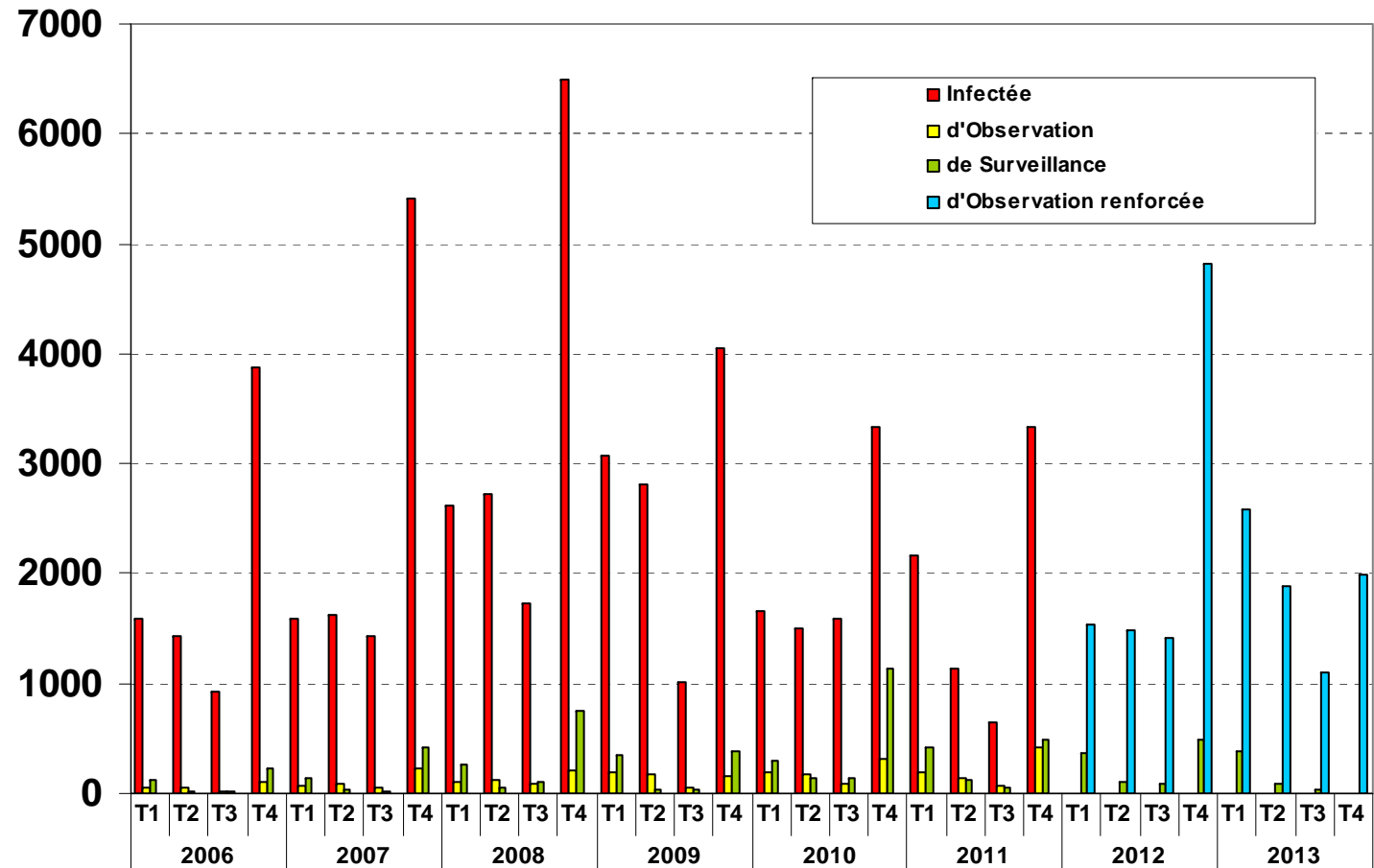
If ELISA test + :
→ new sero (ELISA and VSN)
and PCR tests

Boars found dead :

PCR
ELISA test



Sampling from the game shooting

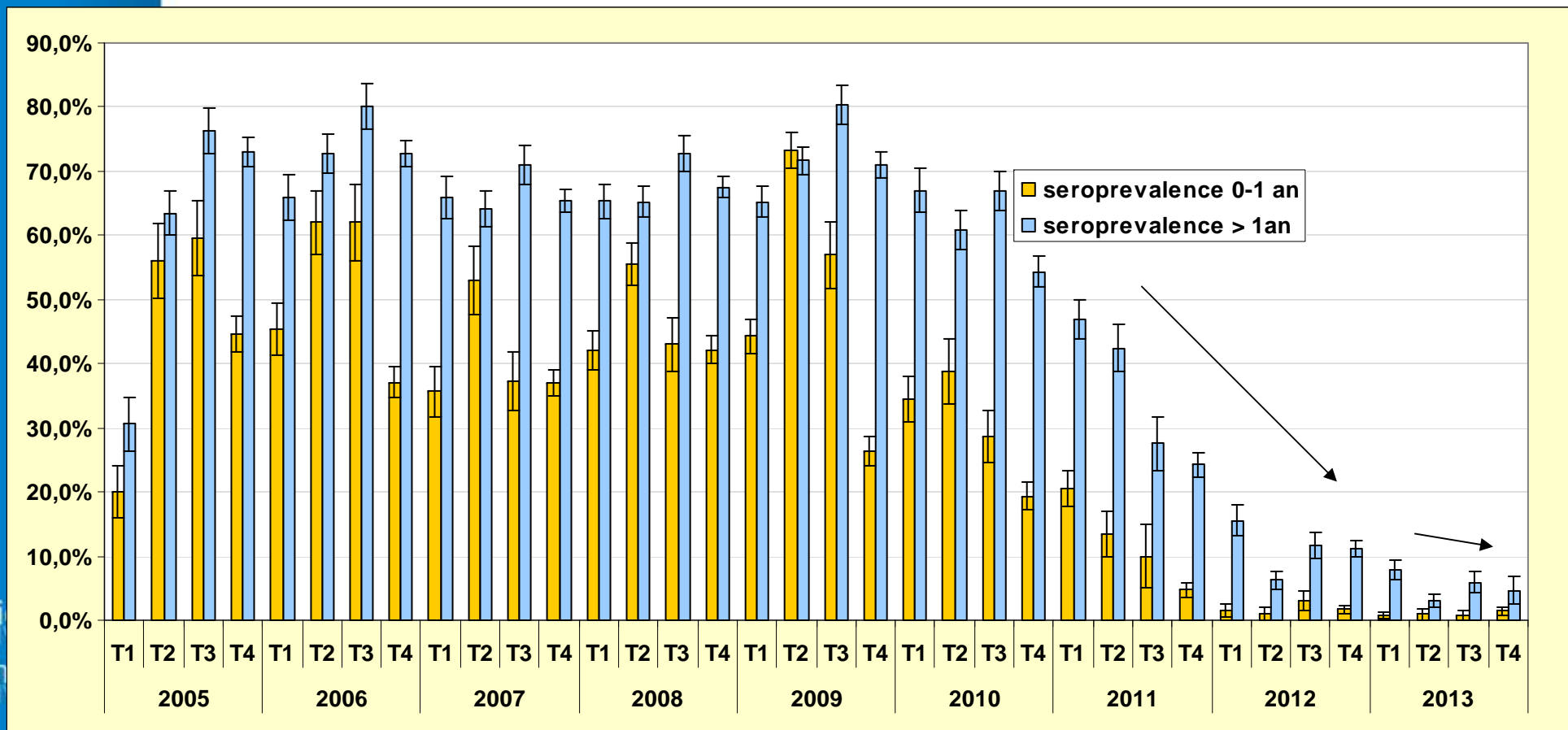


	2006				2007				2008				2009				2010				2011				2012				2013							
Infectée	15	14	92	38	15	16	14	54	26	27	17	65	30	28	10	40	16	14	15	33	21	11	63	33												
d'Observation	50	48	13	10	70	93	57	22	10	11	87	21	19	18	56	15	19	17	82	31	18	13	76	42												
de Surveillance	12	24	17	23	13	31	26	41	26	52	10	74	34	43	35	38	30	14	14	11	42	11	60	49	36	11	83	48	37	93	38	3				
d'Observation renforcée																									15	14	14	48	25	18	11	19				



Sero-prevalence evolution in « *Infected zone* » and « *Reinforced observation zone* »

→ *Linear decreasing since oral vaccination stopped (30.06.2010)*



Conclusions (surveillance on shooting game)

- **Last positive PCR in December 2012 : not confirmed**
- **Decreasing of the seroprevalence in 2013-2014**
- **Confirmation of positive serological tests on young animals by Anses – T4 2013**
- **In the heart of the ROZ**





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PROGRAMME OF CAPTURE, MARKING AND RECAPTURE (2013-2014)

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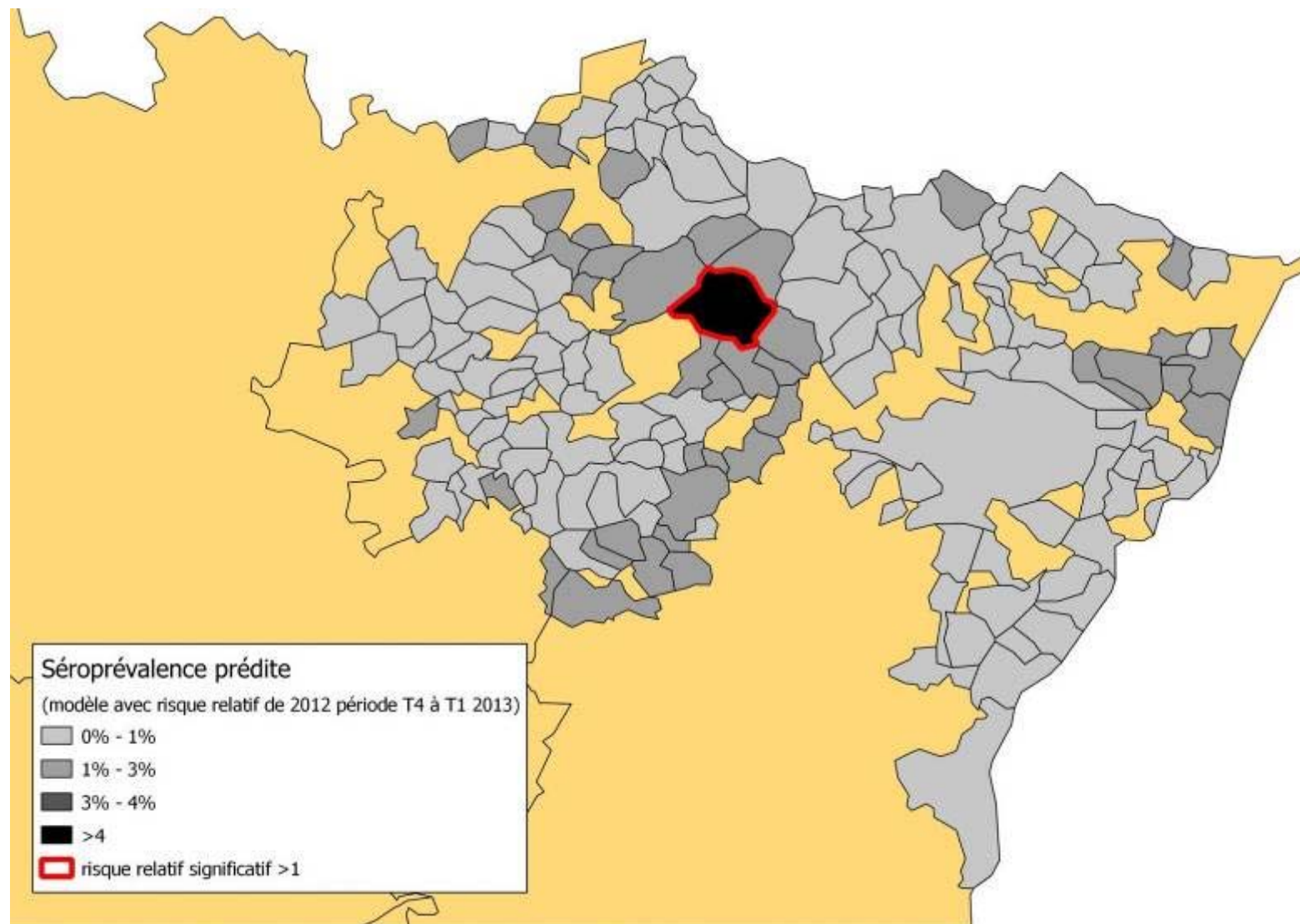
2012-2013



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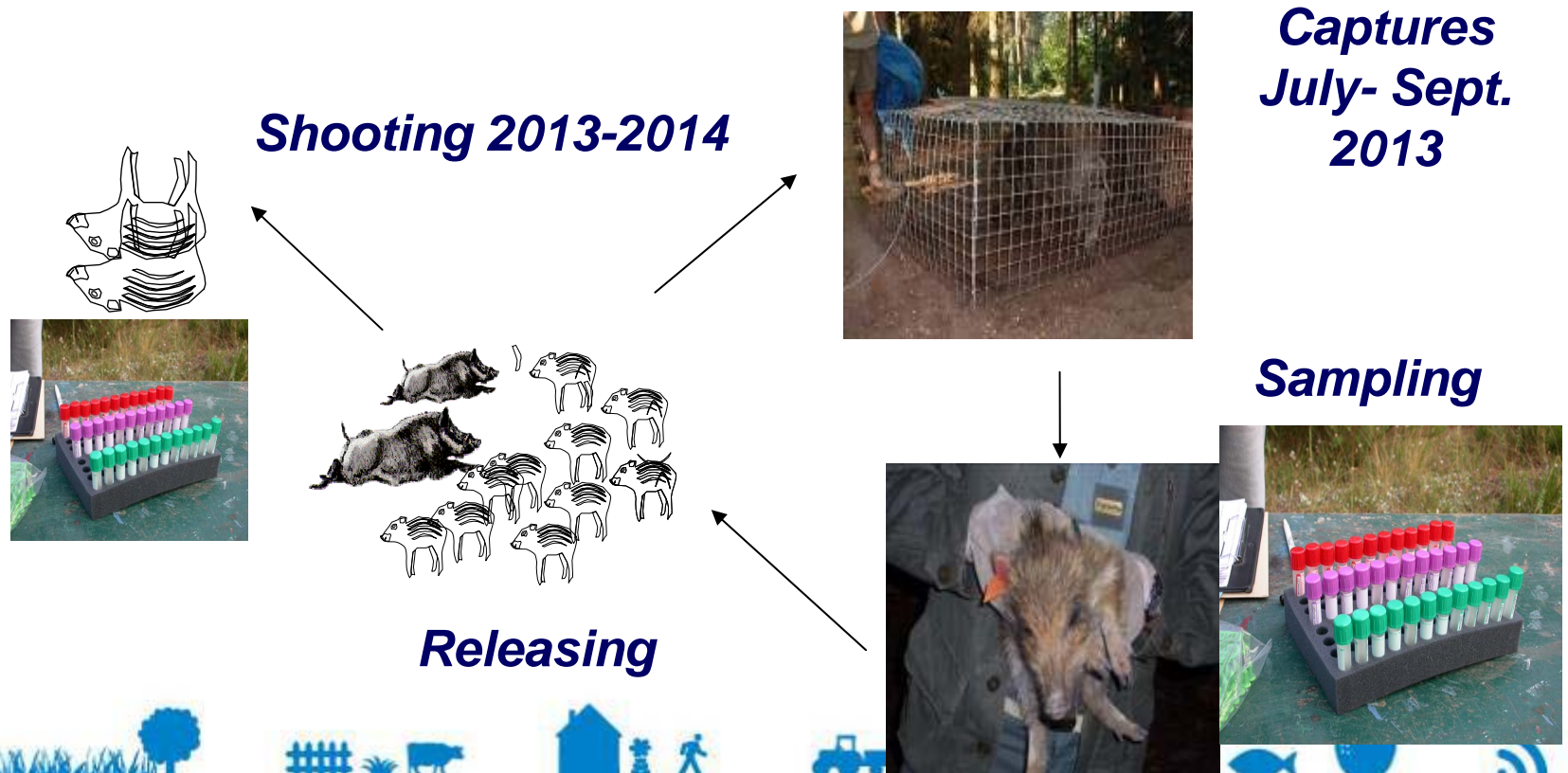
Study of the individual antibodies kinetic

- Goals:
 - Hypothese 1: persisting maternal antibodies due to a vaccinal context
 - Hypothese 2: active sero-conversion of the piglets by CSF virus contact
- ➔ *Follow-up of the antibodies kinectic and of the virus in one at-risk area*
- Implementation:
 - Serological & virological analysis sérologique on ~100 animals recaptured ~3-4 times between July and September
 - Clinical and immune monitoring
 - Final recapture by shooting former captured animals



Protocole

- 4 separate weeks of “feeding”, between July & September
- Capture and marking of “family groups” (piglets and sub/adults)
- Weekly recaptures, between July & September



Between July & Sept. 2013:



134 animals marked

192 captured once

58 recaptured (from 1 to 4 times)



68 males

66 females



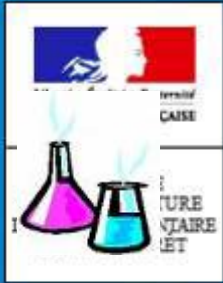
107 piglets

19 sub-adults

8 adults (7 sows)

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Results:



- **11 / 134 animals** (3 groups) with antibodies anti-CSF: **10 piglets** of 2-4 months and **1 sow** > 30 months
- Antibodies **no longer detectable** in 5 / 10 piglets recaptured between mid- and late August
- 2 piglets **found ill** but non contaminated by CSF
- 40 animals **retested** (after shooting)



Shooting Sept. 2013 / January 2014



- 40/134 animals retested by shooting (~30%)
 - 31 known results: 1/31 ELISA+ and VSN -
 - 5 animals not sampled et 4 unknown results
 - ➔ 8/10 positive young animals turned to be negative
- Shooting of animals > 20km place of capture



Conclusions



1. No evidence of circulation of the virus
2. Active surveillance of shot animals:

Very low seroprevalence in 2013 (1,4 % animals < 1 month, 6% animals 1-2 years old)

3. How to continue the study?

Surveillance of identified animals ?

4. Perspective for the surveillance?

*Active surveillance on animals shot (in 2014) ?
Passive surveillance on animals found dead ?*





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***Thank you for your
attention***



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