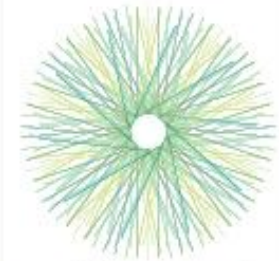
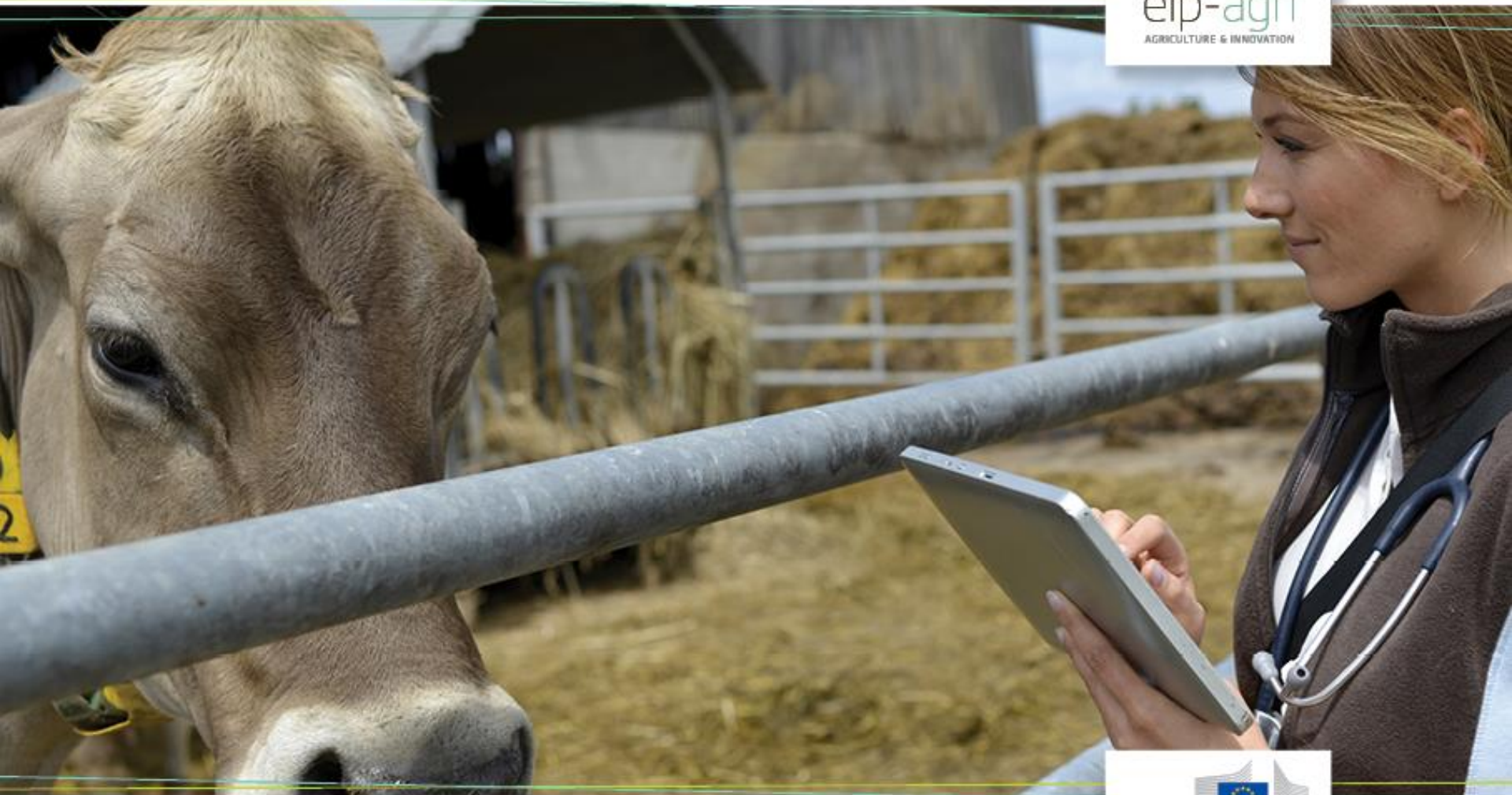


EIP-AGRI Workshop 'Biosecurity at farm level: challenges for innovation'

22-23 January 2015 – Brussels, Belgium



eip-agri
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BIOSECURITY IN SPANISH FARMS; QUICK UPDATE + INNOVATIVE APPROACH FOR RODENTS CONTROL

Carlos Piñeiro

DVM, MSci, ECPHM Diplomate

WORKSHOP "BIOSECURITY AT FARM LEVEL – CHALLENGES FOR INNOVATION"
BRUSSELS, 23RD JANUARY 2015



Content

- Current situation
- Rodents impact on farms
- Classic approaches to control
- A new alternative that works



- 🔴 Major and growing concern in the Spanish sector
- 🔴 Good improvement in the last years
- 🔴 More professional structures because of the concentration of the sector
- 🔴 Main concepts related to :
 - ❑ Fencing
 - ❑ Visitors control
 - ❑ Pests
 - ❑ Quarentine well understood
- 🔴 Still room to improvement in familiar farms

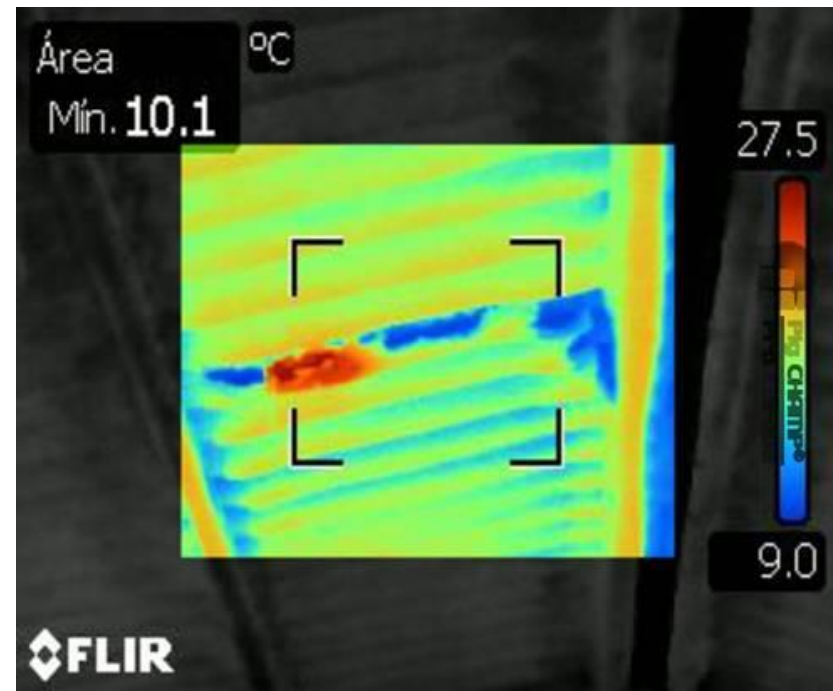
Rodents control, becoming more important; Why control them? (I)

- **Feed contaminated and consumed.** A rat can contaminate 10 times the amount of feed it eats with its droppings, urine and hair. A colony of 100 rats will consume over one tone of feed in one year.
- **Biosecurity.** Rodents are recognised as carriers of approximately **45 diseases**, including salmonellosis, pasteurellosis, leptospirosis, swine dysentery, trichinosis, toxoplasmosis and rabies.



Rodents control, becoming more important; Why control them? (II)

- **Damage to buildings.** Mice and rats will damage wood and electrical wiring, which can be a fire hazard.
- **Destruction of insulation.** Many livestock and poultry facilities show serious deterioration within five years. Associated with this damage are costs for re-insulation, increased energy costs and poorer feed conversions by animals.




Rodents control

- Sanitation
- Rodent-proof construction
- Population reduction
 - Trapping
 - Toxic baits.
 - 90 % anti coagulants.
 - Remember : all products are toxic to other animals



A new system for depopulation

 Rodents attracted by a natural non-toxic bait

 Captured when try to eat

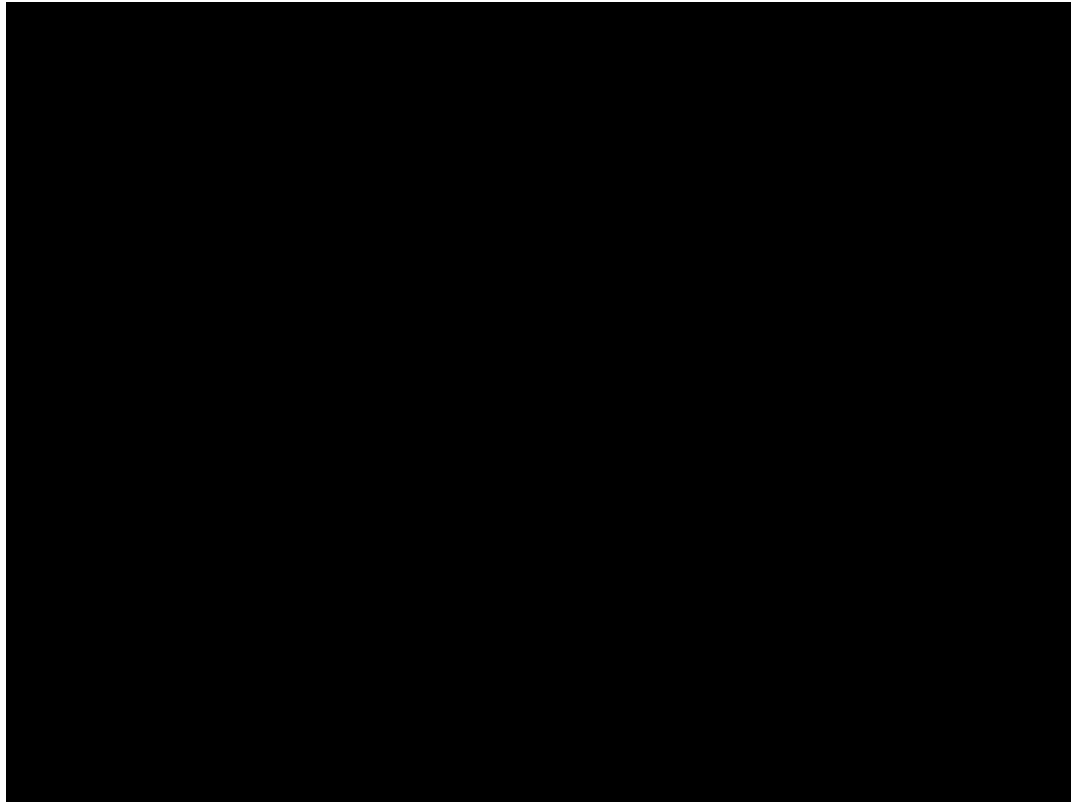
 Highlights:

 NO poison at farm

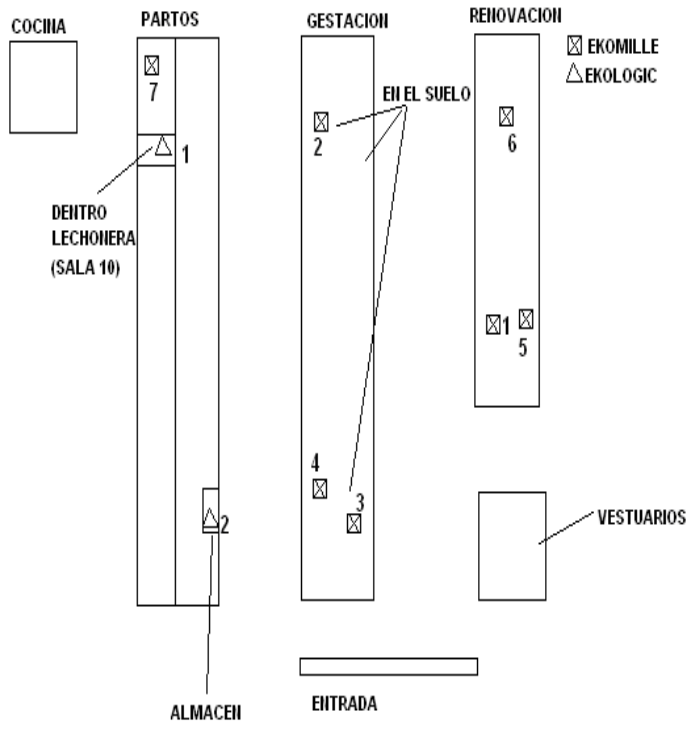
 NO rats' cadavers on farm



Tested on Swine Research Farm; Aguilafuente, Segovia in 2013

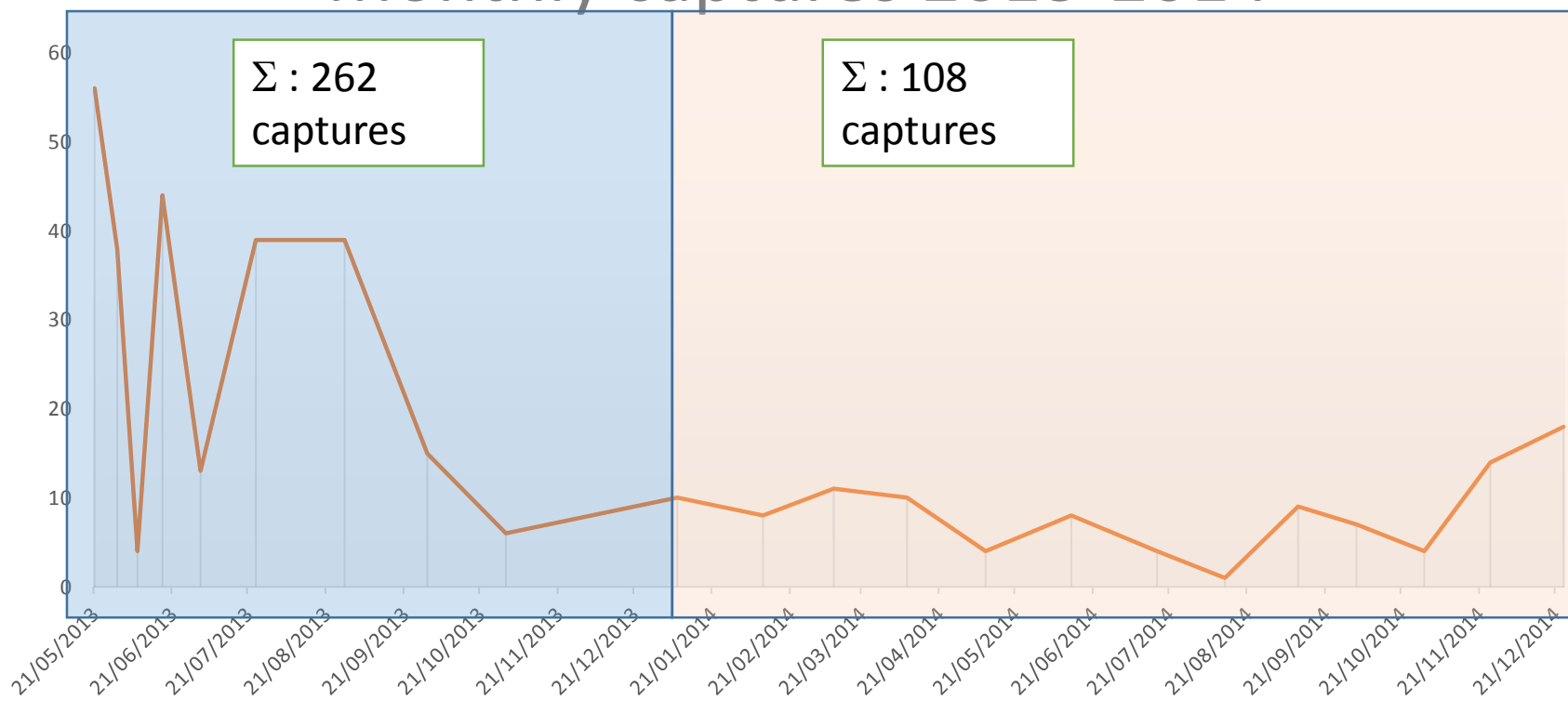


GRANJA CENTRO EXPERIMENTACION



Tested on Swine Research Farm; Aguilafuente, Segovia in 2013-14

Monthly captures 2013-2014



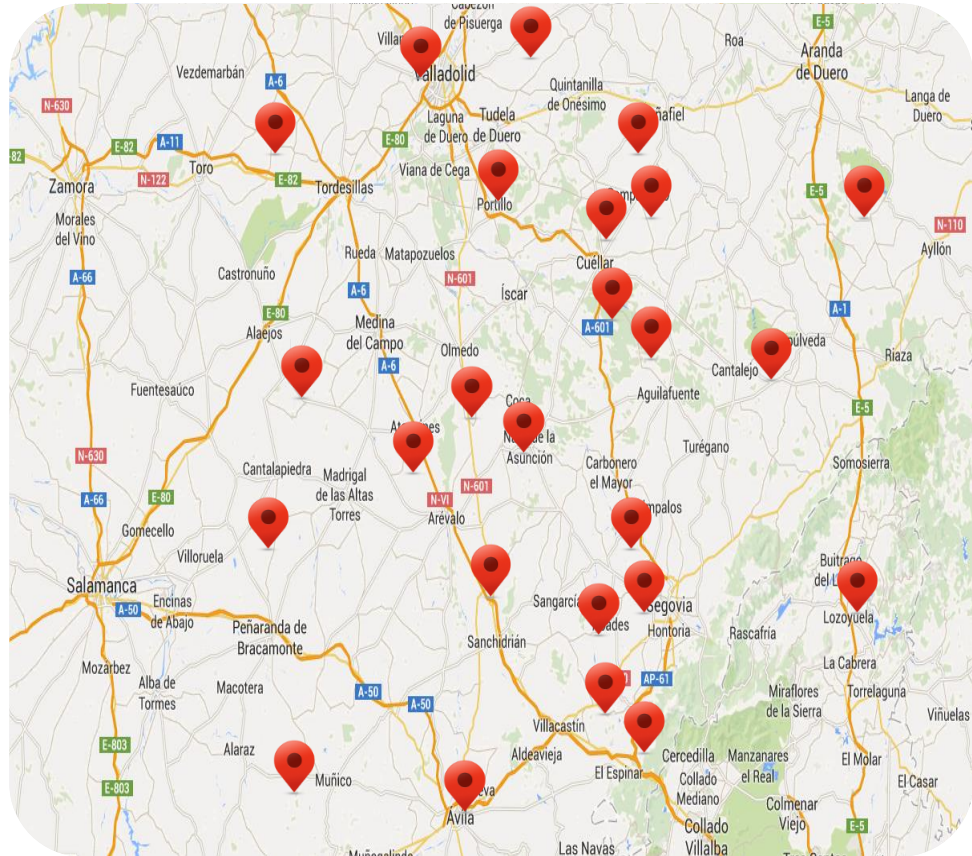
Results 2013-14 : Experimental Farm + Network of cooperating farms

A total of :

-  *59 farms*
-  *480 trapps*
-  *70177 rats*



+



Conclusions

- 🌐 Biosecurity keep on being a major concern
- 🌐 Good applied research sometimes needs a catalyst!
- 🌐 There are new effective alternatives for rodents control that work at farm level
- 🌐 Important advantages in terms of:
 - 🌐 Not use of toxic baits
 - 🌐 No cadavers
 - 🌐 Numeric control of captures

carlos.pineiro@pigchamp-pro.com

