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SaniTRAX

**Real-time monitoring of disease prevalence, incidence and associated antibiotic use on commercial farms.**

▶ Cristina Escudero, Veterinarian  
[cristina.escudero@pigchamp-pro.com](mailto:cristina.escudero@pigchamp-pro.com)



健康畜舎  
Healthy Livestock

23<sup>rd</sup> Jun 2022

**Health control**  
is traditionally deficient.

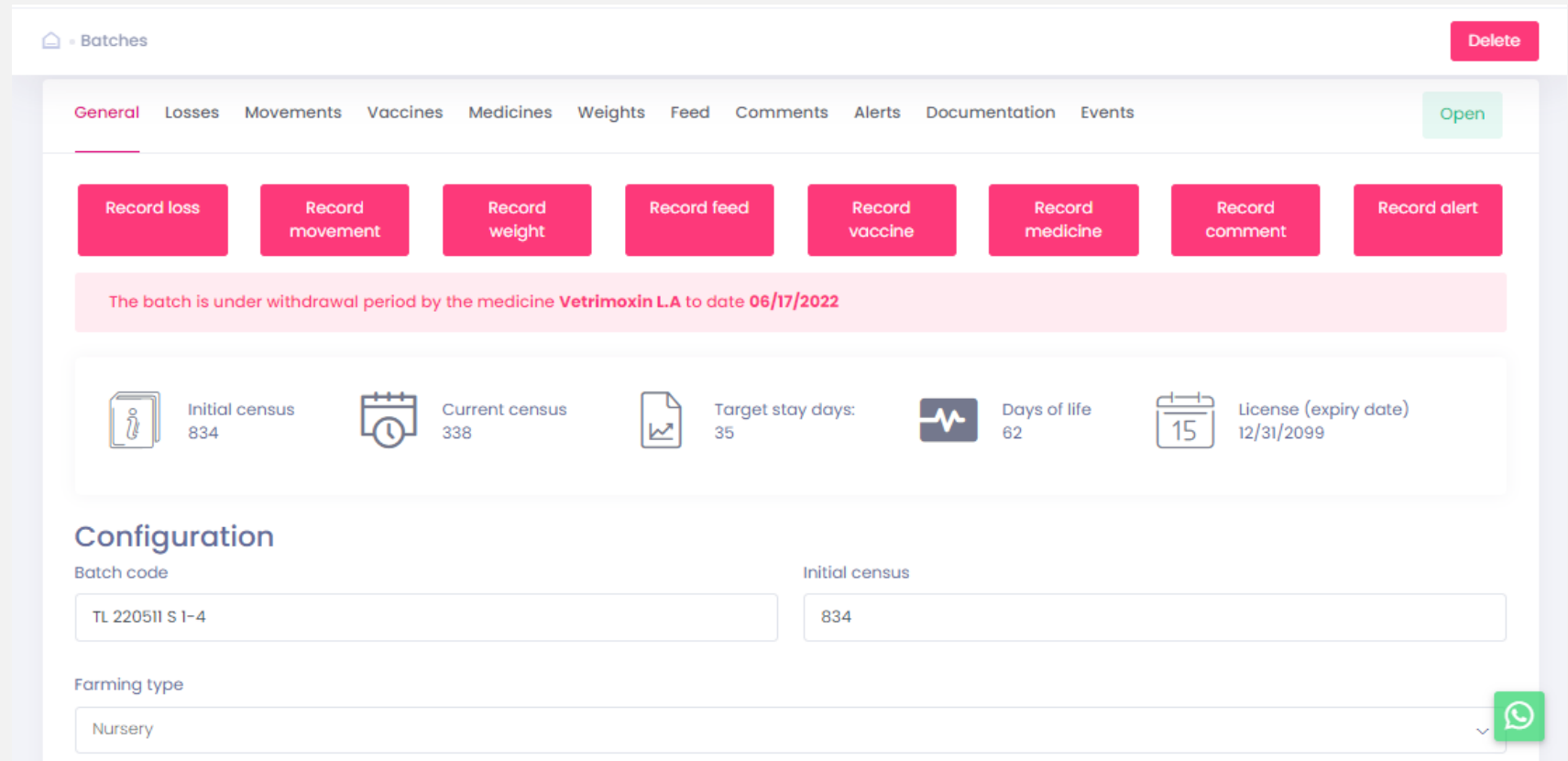
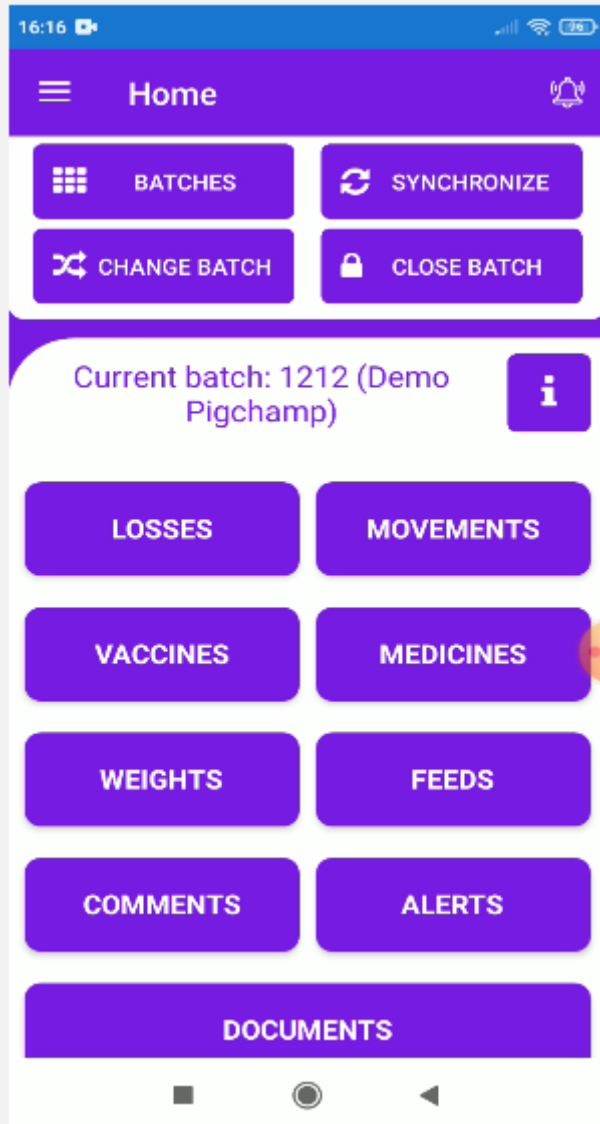
- **Mortality is the main KPI**, usually recorded at the end of every phase (nursery and grow-finish).
- Unusual description **by disease, age or both** at the same time.
- **Unusual automatic monitoring**, preventing a fast reaction to an alert or outbreak.
- No properly arranged libraries (pictures, videos, lab results).

**Antibiotics' use control**  
Very basic, at best.

- **Limited control**, traditionally focused on costs' control.
- Recently improved for legal reasons but mostly under **massive approach**.
- **Unusual quality recording** (route of administration, dosage, active ingredient or diseases controlled).
- **Not related with prevalence or incidence** of diseases.

# What is SaniTRAX?

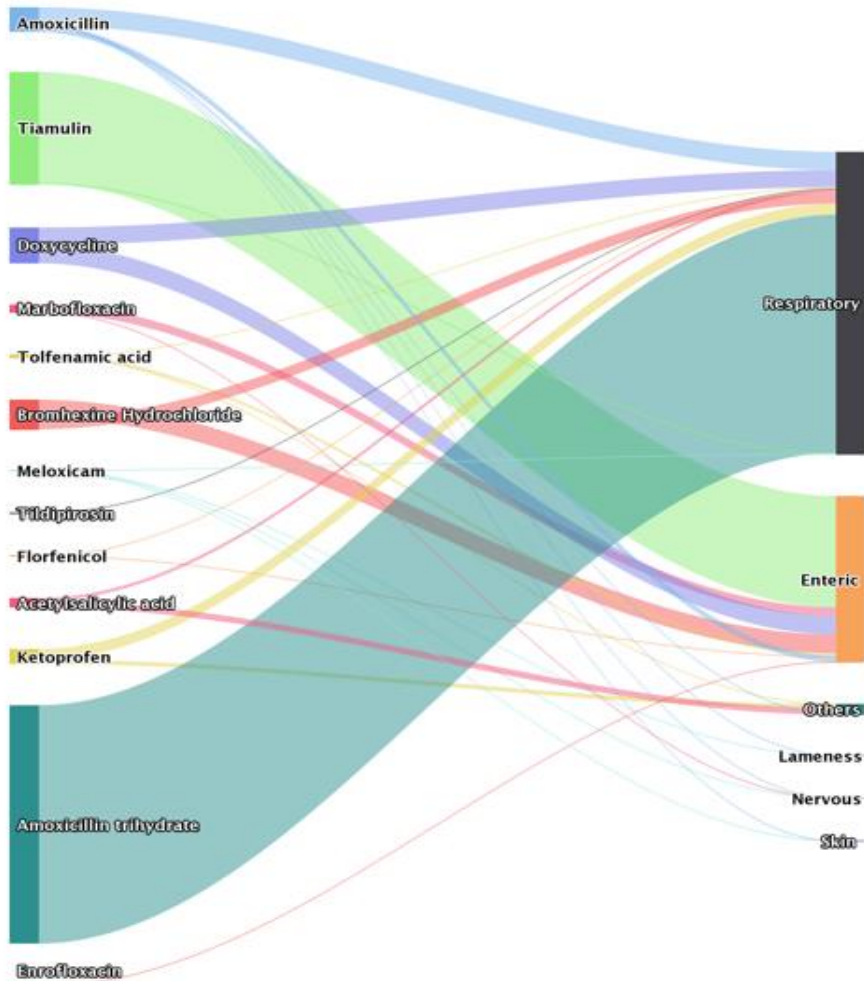
Platform for the control and monitoring of production and animal health in real-time. It includes the control of the use of medicines and vaccines with the continuous online support of expert veterinarians.





Information related to the consumption and distribution of medication and antibiotics.

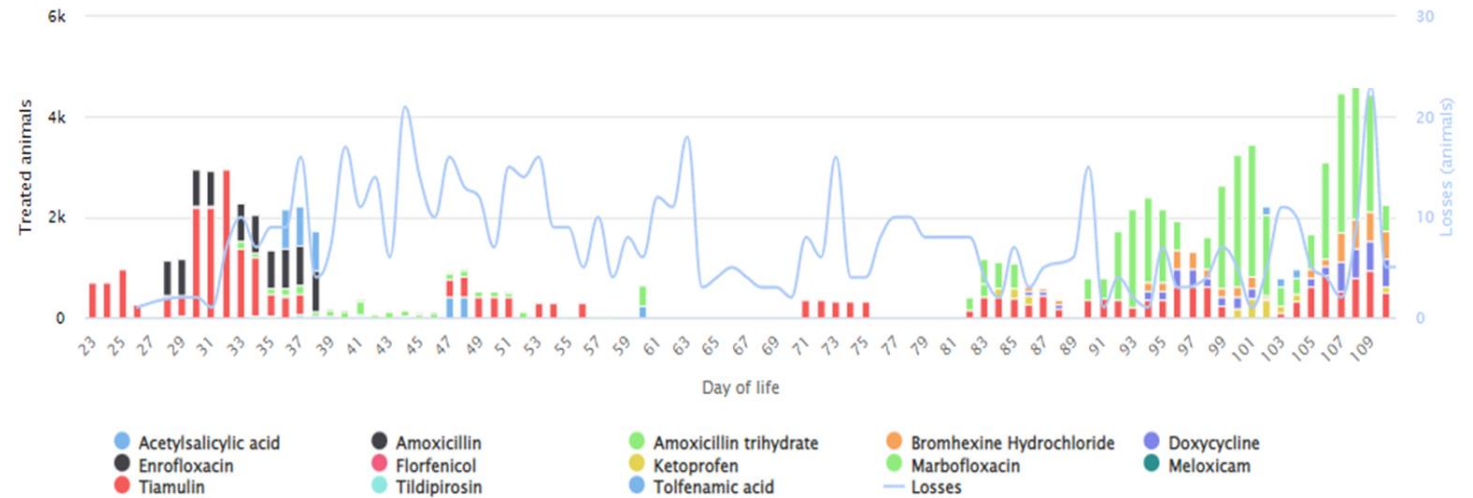
Distribution of use by disease



Total consumption and dosage ratio

Active ingredient	↑↓ Dosage ratio	↑↓ Situation
⊕ Amoxicillin	1.3	Overdosed
⊕ Tildipirosin	1.0	Correct
⊕ Tolfenamic acid	1.1	Correct
⊕ Tiamulin	0.8	Underdosed
⊕ Doxycycline	0.7	Underdosed

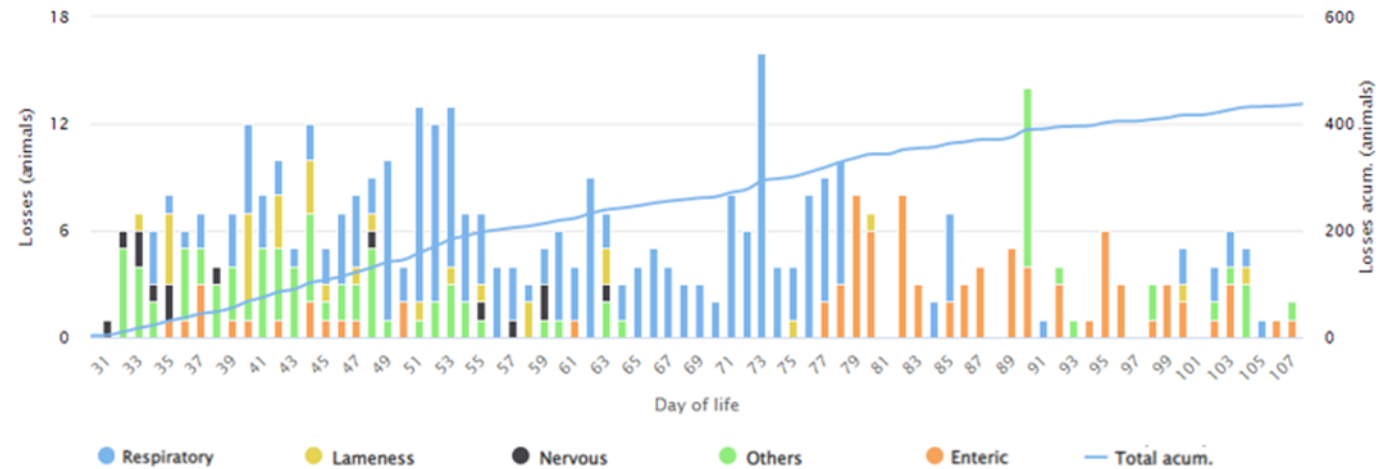
Time evolution of the number of animals treated by days of life



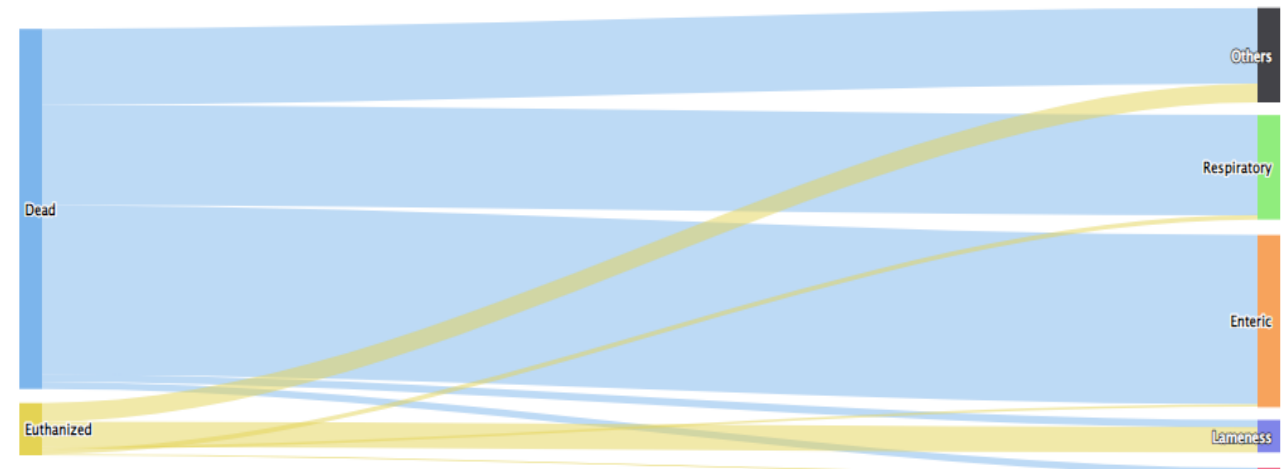


Information related to the distribution of mortality.

Over time distribution of mortality causes.



Distribution of losses by disease



### Conclusions and Implications

The use of a real-time platform can strongly support the decision-making process about health control and medicines use without physical presence on the farm. The user can know the incidence and prevalence of the pathologies present in the farm and its distribution over time.

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**Thanks for your interest.**

Cristina Escudero, Veterinarian  
[cristina.escudero@pigchamp-pro.com](mailto:cristina.escudero@pigchamp-pro.com)



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