

Gli *incontri* di **Suinicoltura**

WEBINAR

Giovedì 30 settembre 2021
ore 10.00 - 12.00

2^o
INCONTRO

 edagricole

“La porcilaia efficiente.
Ambienti, attrezzature
e materiali”

Sponsor:



Con il patrocinio di:



Un esempio di Precision Livestock Farming: monitoraggio in tempo reale della condizione respiratoria nei suini

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- Green Deal
- La Zootecnia di Precisione: principi
- Un esempio applicativo

Organizzato da:



Sponsor:



Le politiche principali del Green Deal

Dicembre 2019

#EUGreenDeal

Il Green Deal europeo mira a **migliorare il benessere delle persone**. Rendere l'Europa climaticamente neutra e proteggere il nostro habitat naturale farà bene alle persone, al pianeta e all'economia. Nessuno sarà lasciato indietro.

L'UE intende:



Diventare climaticamente neutra entro il 2050



Proteggere vite umane, animali e piante riducendo l'inquinamento



Aiutare le imprese a diventare leader mondiali nel campo delle tecnologie e dei prodotti puliti



Contribuire a una transizione giusta e inclusiva



Obiettivi



From Farm to Fork:

Our food, our health, our planet, our future

The European Green Deal

May 2020
#EUGreenDeal

Moving towards a more healthy and sustainable EU food system, a corner stone of the European Green Deal



Make sure Europeans get healthy, affordable and sustainable food



Tackle climate change



Protect the environment and preserve biodiversity



Fair economic return in the food chain



Increase organic farming



"The coronavirus crisis has shown how vulnerable we all are, and how important it is to restore the balance between human activity and nature. At the heart of the Green Deal the Biodiversity and Farm to Fork strategies point to a new and better balance of nature, food systems and biodiversity, to protect our people's health and well-being, and at the same time to increase the EU's competitiveness and resilience. These strategies are a crucial part of the great transition we are embarking upon."

Frans Timmermans, Executive Vice-President of the European Commission



The **use of pesticides in agriculture** contributes to pollution of soil, water and air. The Commission will take actions to:

- ✓ **reduce by 50%** the use and risk of chemical pesticides by 2030.
- ✓ **reduce by 50%** the use of more hazardous pesticides by 2030.



The **excess of nutrients** in the environment is a major source of air, soil and water pollution, negatively impacting biodiversity and climate. The Commission will act to:

- ✓ **reduce nutrient losses by at least 50%**, while ensuring no deterioration on soil fertility.
- ✓ **reduce fertilizer use by at least 20%** by 2030.



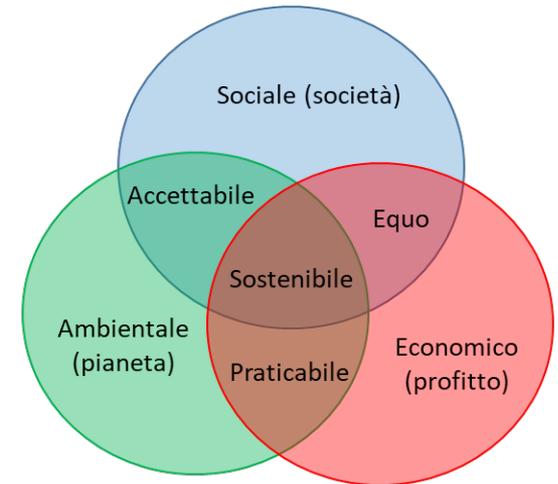
Antimicrobial resistance linked to the use of antimicrobials in animal and human health leads to an estimated 33,000 human deaths in the EU each year. The Commission will **reduce by 50% the sales of antimicrobials for farmed animals and in aquaculture by 2030.**



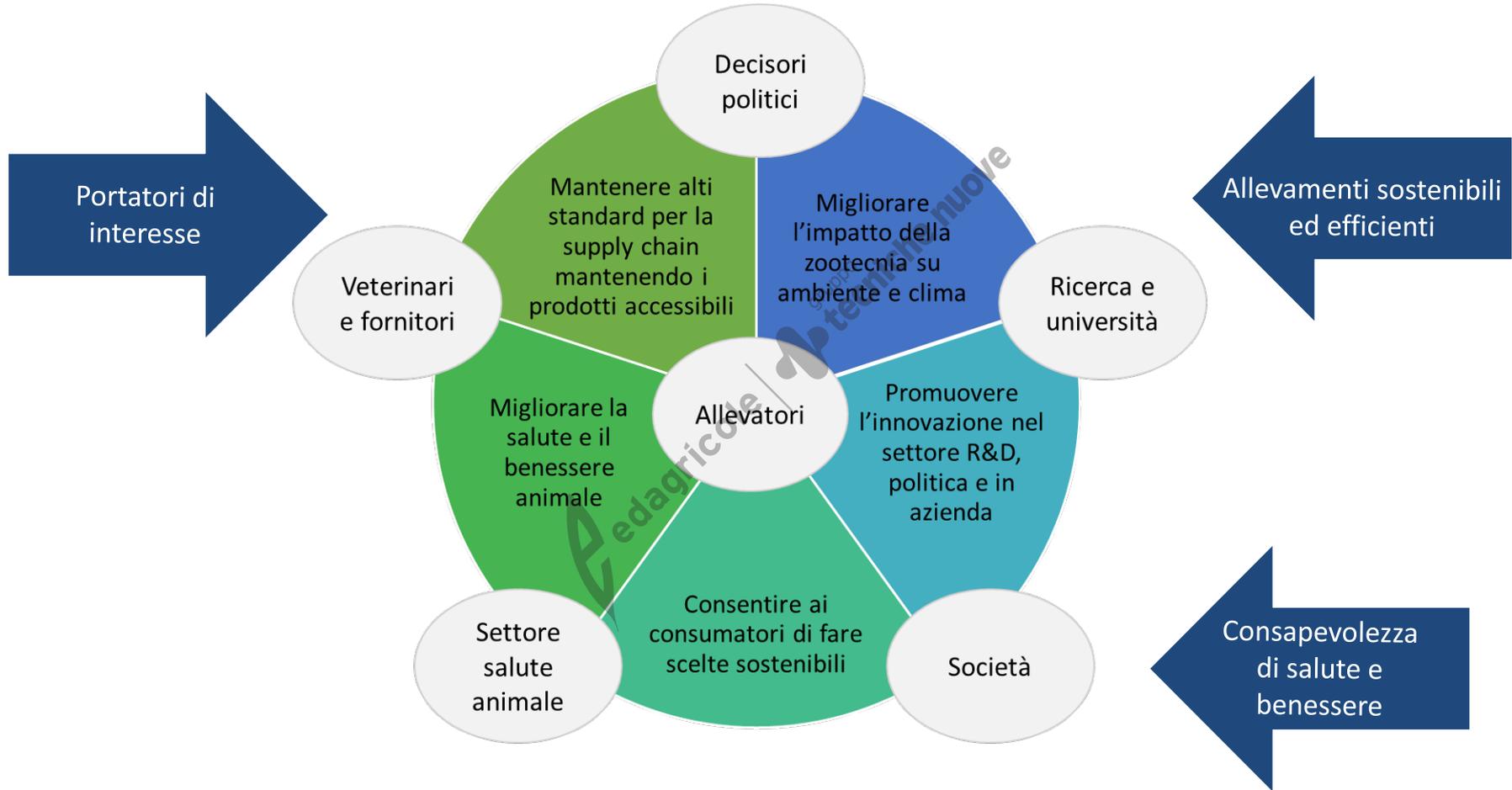
Organic farming is an environmentally-friendly practice that needs to be further developed. The Commission will boost the development of EU organic farming area with the aim to achieve **25% of total farmland under organic farming by 2030.**

Quali sono i principali problemi dei sistemi di allevamento

- Crescente domanda di **cibo**;
- Crescente domanda di **cibo e produzioni zootecniche sostenibili**;
- Bisogno di **progredire** rispetto alle condizioni di allevamento tradizionali, portando **innovazione, tecnologia ed efficienza** alle aziende;
- Bisogno di **progredire** rispetto al **benessere animale**, tenendo conto delle esigenze dei **consumatori**;
- I miglioramenti hanno **implicazioni produttive**, così come **ambientali e di salute e benessere animale**, portando anche benefici in termini **economici**



Quali sono i principali problemi dei sistemi di allevamento



Valutazioni di sostenibilità ambientale ed economica

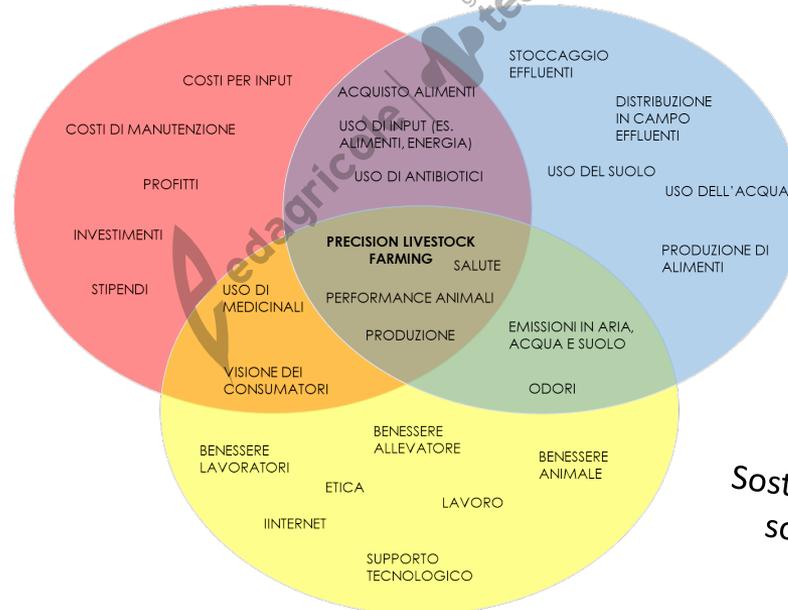
La Zootecnia di Precisione (PLF) può essere la chiave per raggiungere gli obiettivi dei 3 pilastri della sostenibilità → Supportare gli allevatori nel raggiungimento di una condizione equilibrata



Obiettivi:

Alta produttività, elevati standard di salute e benessere
&
Ridotti scarti, perdite, emissioni e costi non necessari

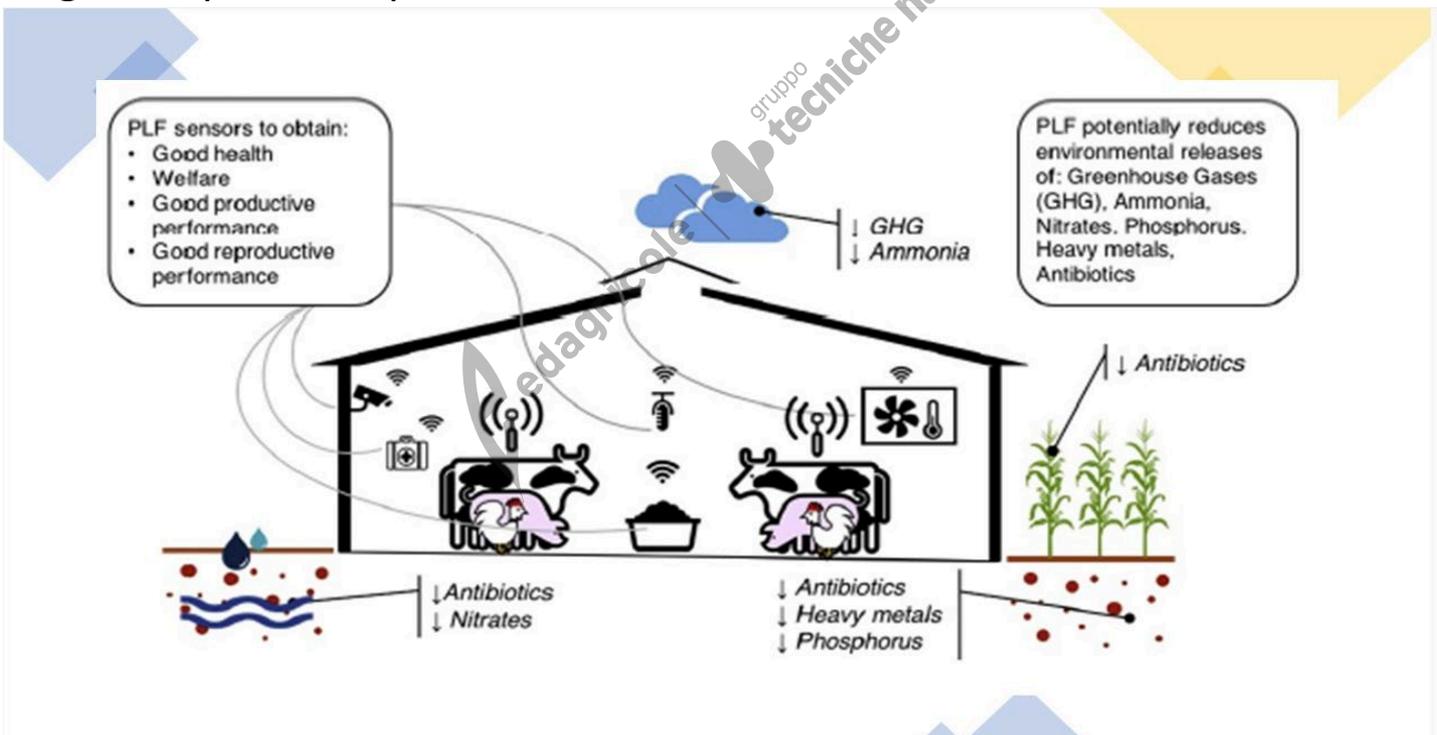
Sostenibilità
economica



Sostenibilità
ambientale

Sostenibilità
sociale

La zootecnia di precisione è il monitoraggio continuo, automatizzato e in tempo reale degli animali, con l'obiettivo di massimizzare il contributo individuale a beneficio della produttività, della salute, della gestione e del benessere dell'intera mandria. A tal fine, utilizza tecnologie avanzate come sensori, telecamere e microfoni, per raccogliere dati 24 ore su 24, 7 giorni su 7 e generare informazioni che possono contribuire a prendere decisioni migliori e più consapevoli.

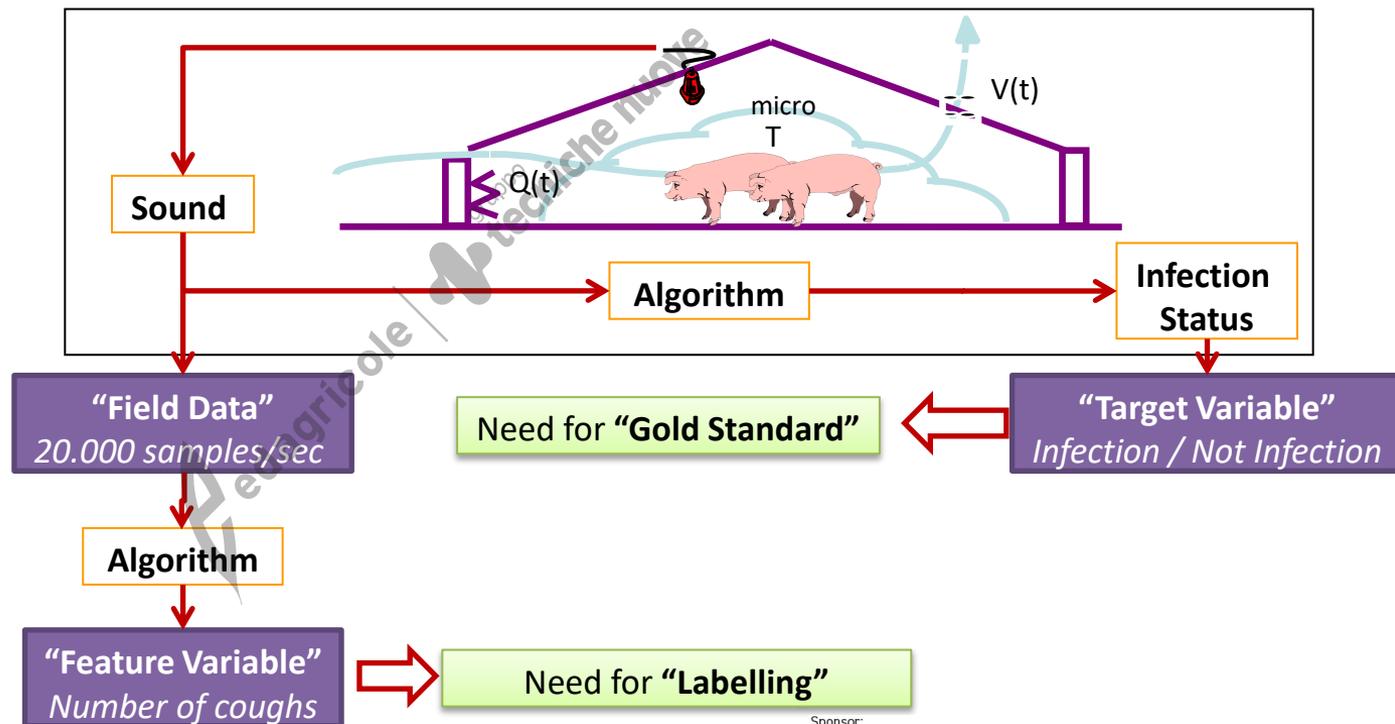


Da dove siamo partiti...

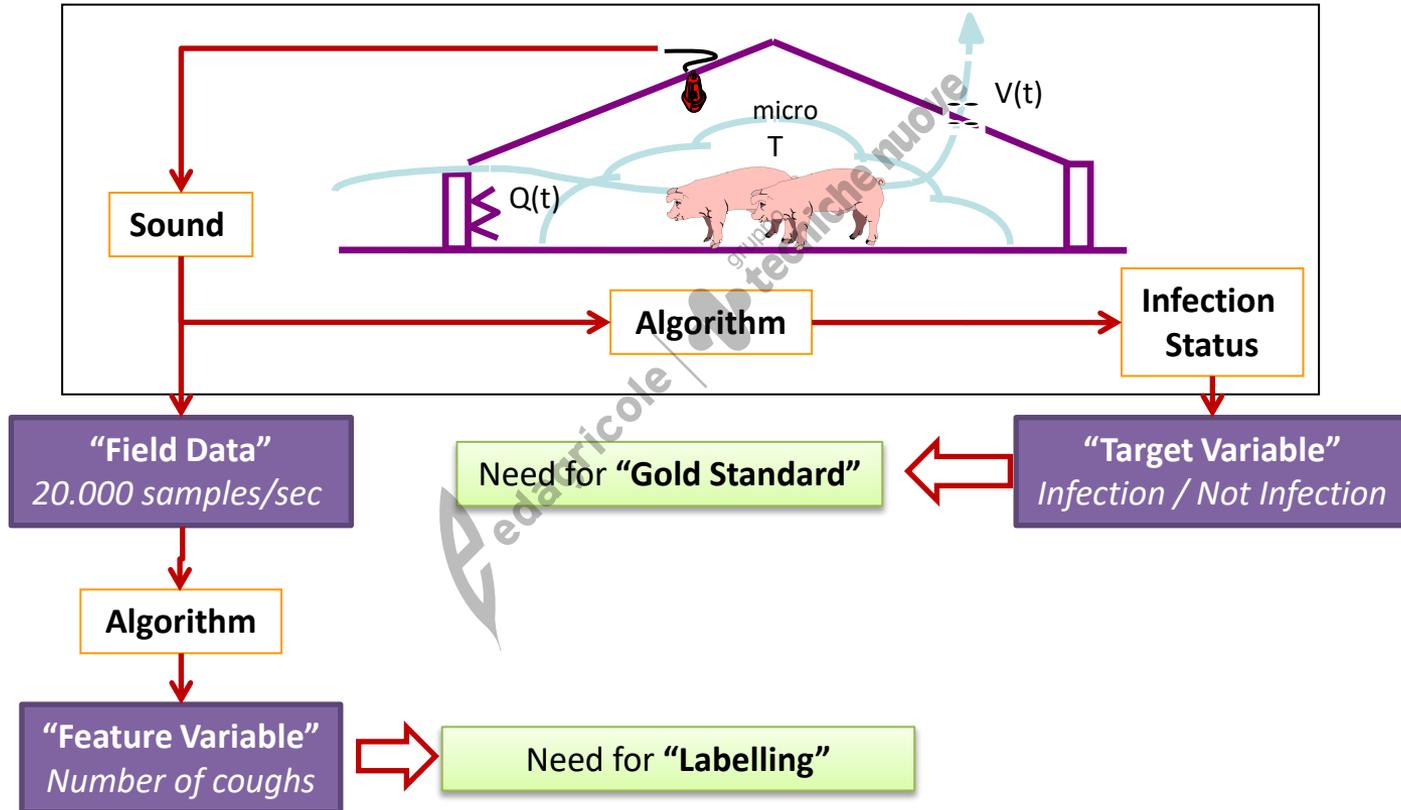
Sound



Main future application: Reducing the use of Antibiotics



Main future application: Reducing the use of Antibiotics



SoundTalks Monitoring Pack

Monitor

24/7 sound and climate measurement



Gateway

Collects data and sends the data to the cloud



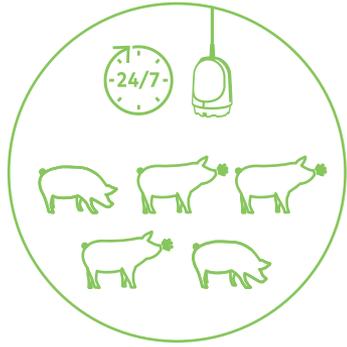
Mobile app

Fast overview for on the road

Web app

Live display of results and data from all the sites that you manage

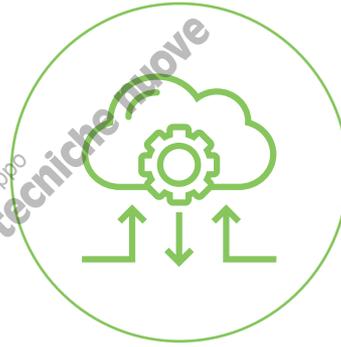
Come funziona?



Hardware



Algoritmi suono e ambiente



Cloud



Allevatore

Come funziona? SoundTalks Monitor



MONITOR

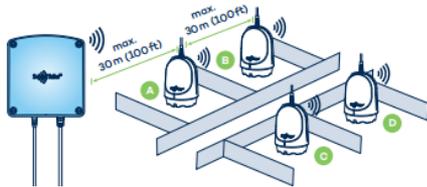
Un dispositivo contiene più sensori e un'unità di calcolo

Dispositivo permanente nel capannone

Gateway installato nel sito per la connessione Internet

Comunicazione WiFi tra dispositivi e gateway

E' possibile visualizzare più dispositivi nell'app



Copertura



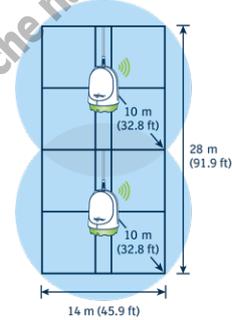
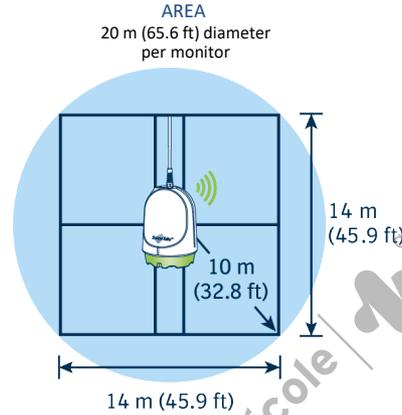
Area

+/- 20 m diameter

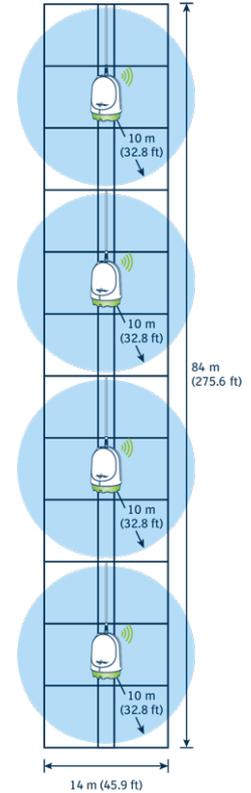


Animali

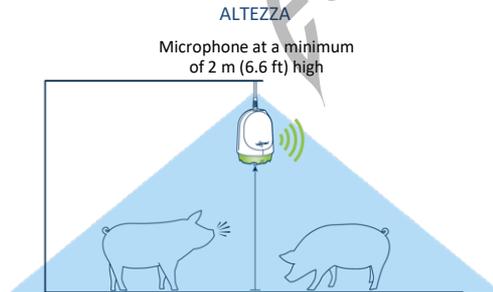
+/- 250 animali



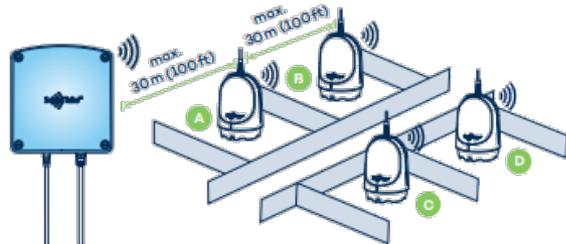
Copertura completa



Copertura parziale

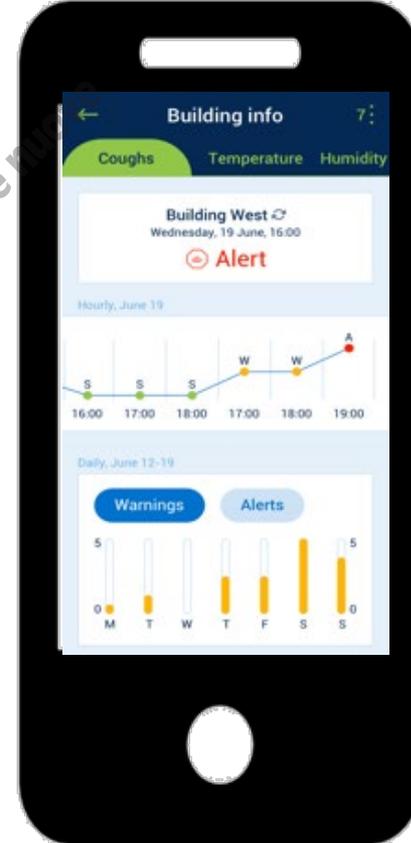
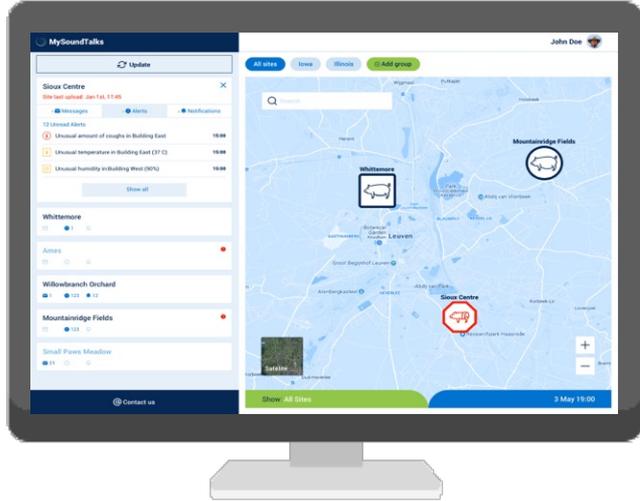


Monitor SoundTalks sul campo





SoundTalksWeb



gruppo
edagricole | tecniche

Update

Azienda 1



Conversations

Alerts

Notifications

1 Unread Alerts

Caution, Drop in temperature in Room 1 **01 Jun**

Caution, Room 1 is showing an increase in coughing **01 Jun**

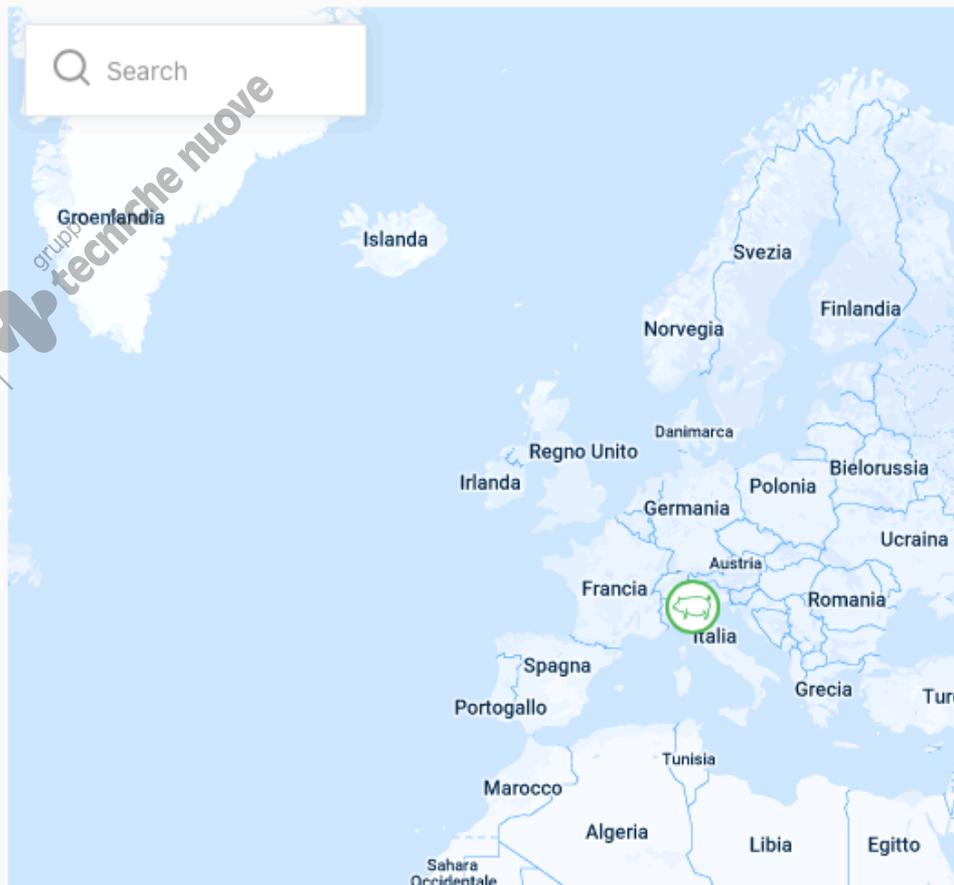
Caution, Drop in temperature in Room 2 **29 May**

Show all

All sites

Create group

Search



gruppo
tecniche nuove
Agricoltura



Dashboard

Conversations

Alerts

Notifications

Monitors

Show only: All Warning AlarmSensors: All Coughs Temperature Offline

Airspace	Title	Alert types	Time
House 1, Floor 1, Room 1	Caution, Drop in temperature in Room 1		01 Jun
House 1, Floor 1, Room 1	Caution, Room 1 is showing an increase in coughing		01 Jun
House 1, Floor 1, Room 2	Caution, Drop in temperature in Room 2		29 May
House 1, Floor 1, Room 2	Caution, Drop in temperature in Room 2		18 May
House 1, Floor 1, Room 1	Many monitors in Room 1 are offline		17 May
House 1, Floor 1, Room 2	Many monitors in Room 2 are offline		17 May



Dashboard

Conversations

Alerts

Notifications

Monitors

Use



Search

Show only:



All



Offline



Online

Monitor name	Airspace	Serial number	Installed	Last update	Status
	House 1, Floor 1, Room 2	MO203701-GPQRCZLG	23 Apr 2021	04 Jun 2021	Ok
	House 1, Floor 1, Room 1	MO203701-KDLGV5QT	23 Apr 2021	04 Jun 2021	Ok

1

50 Displaying 1-2 of 2 Monitors

Gateway name	Serial number	Installed	Last update	Status
	GA210501-HZ4V86ZN	23 Apr 2021	04 Jun 2021	Online

Dashboard

Conversations

Alerts

Notifications

Monitors

U

Environment information

Azienda 1 

Friday, 04 Jun, 10:05

 22°C

→ 9 km/h  54%

AccuWeather

Airspaces information

 **Coughs** ● Ok ● Warning ● Alarms

The day before yesterday 

Yesterday 

Now 

 **Thermal shock**



Monitors information

Airspace

🔍 Search

House 1, Floor 1, Room 1

📶 0

👤 0

House 1, Floor 1, Room 2

📶 0

👤 0

Coughs

Thermal shock

House 1, Floor 1, Room 1

Ok

Since Friday, 04 Jun, 01:20

Hourly, Jun 03 - Jun 04

● Ok ● Warning ● Alarm



Daily, May 29 - Jun 04



Update

Tomasini

Conversations Alerts Notifications

Environment information

Tomasini >

Tuesday, 20 Jul, 10:54

28°C
9 km/h 43%

Airspaces information

Coughs

Ok Warning Alarms

Thermal shock

The day before yesterday

Yesterday

Now



Monitors information

Airspace

Search

House 1, Floor 1, Room 1

0 0

House 1, Floor 1, Room 2

0 0

Coughs

Thermal shock

House 1, Floor 1, Room 1

Ok

Since Tuesday, 20 Jul, 04:10

Hourly, Jul 19 - Jul 20

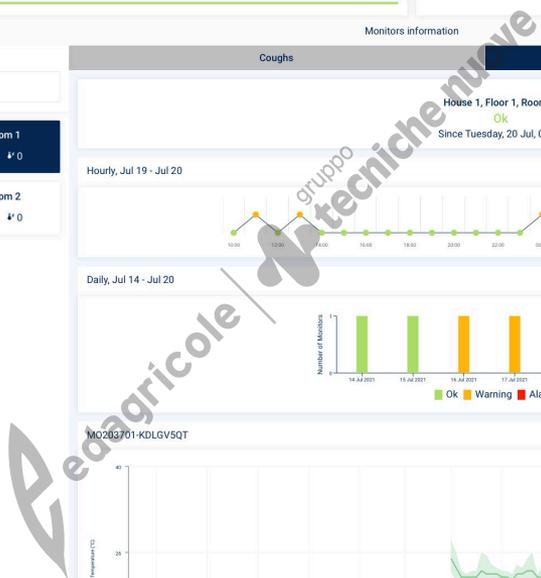
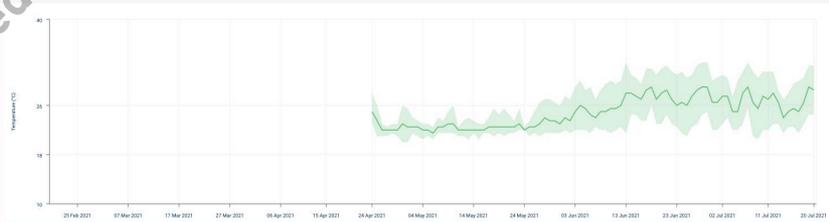
Ok Warning Alarm



Daily, Jul 14 - Jul 20



M0203701-KDLGV5QT



Airspace

House 1, Floor 1, Room 1

0 0

House 1, Floor 1, Room 2

0 0

Coughs Thermal shock

House 1, Floor 1, Room 1

Ok

Since Thursday, 03 Jun, 13:20



Airspace

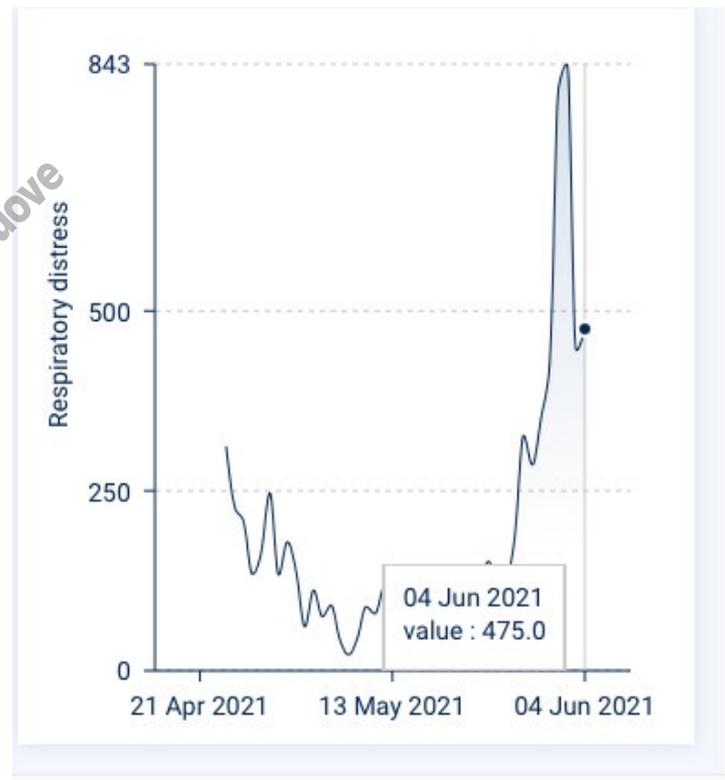
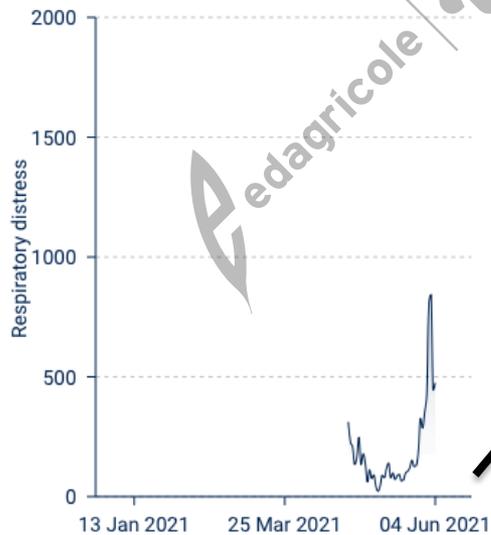
House 1, Floor 1, Room 1

0 0

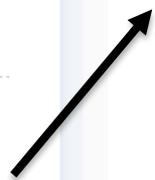
House 1, Floor 1, Room 2

0 0

Daily, May 29 - Jun 04



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House 1, Floor 1, Room 1

= 0

≠ 0

House 1, Floor 1, Room 2

= 0

≠ 0

House 1, Floor 1, Room 1

Ok

Since Saturday, 25 Sep, 10:50

C

Hourly, Sep 24 - Sep 25

● Ok ● Warning ● Alarm



Daily, Sep 19 - Sep 25



MO203701-KDLGV5QT



GRAZIE PER L'ATTENZIONE

