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ZOOPROFILATTICO
SPERIMENTALE
DELL'ABRUZZO
E DEL MOLISE
"G. CAPORALE"



30th CONFERENCE OF
WOAH REGIONAL
COMMISSION
FOR EUROPE



Ministero della Salute



World Organisation
for Animal Health
Founded as OIE

30th Conference of the Regional Commission for Europe

Catania, Sicily, Italy, 7 October 2022

Digitalisation of Veterinary Services

Best practices in Europe

Italy

National Information System for Pharmacosurveillance and electronic veterinary prescription

Ing. Luigi Possenti – Centro Servizi Nazionale

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National Information System for Pharmacosurveillance

A project of the **Ministry of Health**, which allows to manage the entire cycle of prescription, dispensing and administration of veterinary medicines and medicated feeds

The project aims to record into a centralized database information relating to the management of treatments in an electronic register, medicines stocks and inventories.



Ministero della Salute

ACCEDE

Sistema Informativo Nazionale della Farmacosorveglianza
Ricetta Veterinaria Elettronica

Ministero della Salute - Direzione generale della sanità animale e dei farmaci veterinari

Sistema Informativo Nazionale della Farmacosorveglianza per la completa digitalizzazione della gestione dei medicinali veterinari, dalla prescrizione da parte del Veterinario fino alla somministrazione agli animali, attraverso l'introduzione della ricetta veterinaria elettronica ... (continua)

Visualizza i dati di utilizzo del sistema...

Cerca e visualizza la ricetta
Visualizza la tua Ricetta Veterinaria Elettronica: attraverso tale funzionalità online è possibile cercare e visualizzare le proprie ricette...

App Mobile: cerca ricetta
Visualizza la tua Ricetta Veterinaria Elettronica: attraverso tale link è possibile installare l'app per cercare e visualizzare le proprie ricette...

Opuscolo informativo
Clicca per scaricare l'opuscolo divulgativo della Ricetta Veterinaria Elettronica realizzato dal Ministero della Salute

Pillole Video
Collana di tutorial sull'utilizzo della ricetta veterinaria elettronica

Dati di utilizzo del sistema

Digitalization of veterinary medicines

The main purpose of the project is the **complete digitalization** of veterinary medicines management (with introduction of electronic veterinary prescription), thus enabling an effective and efficient pharmacosurveillance action, health risk analysis, with the aim of protecting public health.



Why implement a new information system for pharmacosurveillance ?

To combat the phenomenon of antimicrobial resistance (AMR) by ensuring antimicrobial medicines are prescribed responsibly and preventing their overuse.

Monitoring antimicrobial usage in animals should aim at:

- facilitating control and intervention to ensure compliance with developed strategies and regulations on the use of antimicrobials;
- ensuring prudent use of antimicrobials;
- assisting in the interpretation of resistance-surveillance data;
- providing information for research in specific use conditions that govern selection and dissemination of resistant bacteria;
- providing vital information for risk assessment of resistance development at the population level



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Why implement a new information system for pharmacosurveillance ?

Simplify operations, through the "dematerialization" of legal obligations related to traceability of use of drugs in veterinary field.

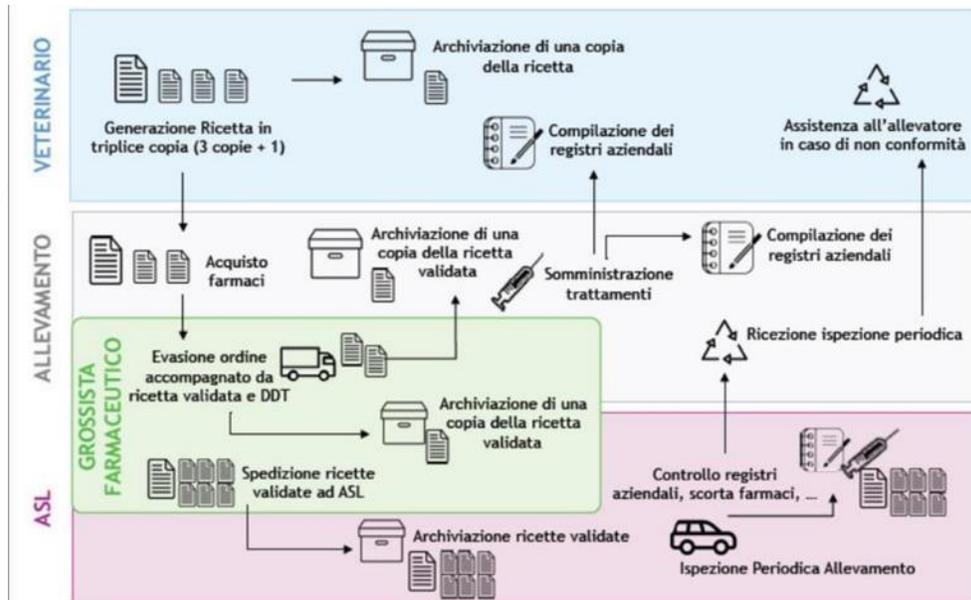


This is achieved with a complete record of all information, allowing all actors, including competent authorities, to have a real-time view of veterinary prescriptions and drug use on animals.

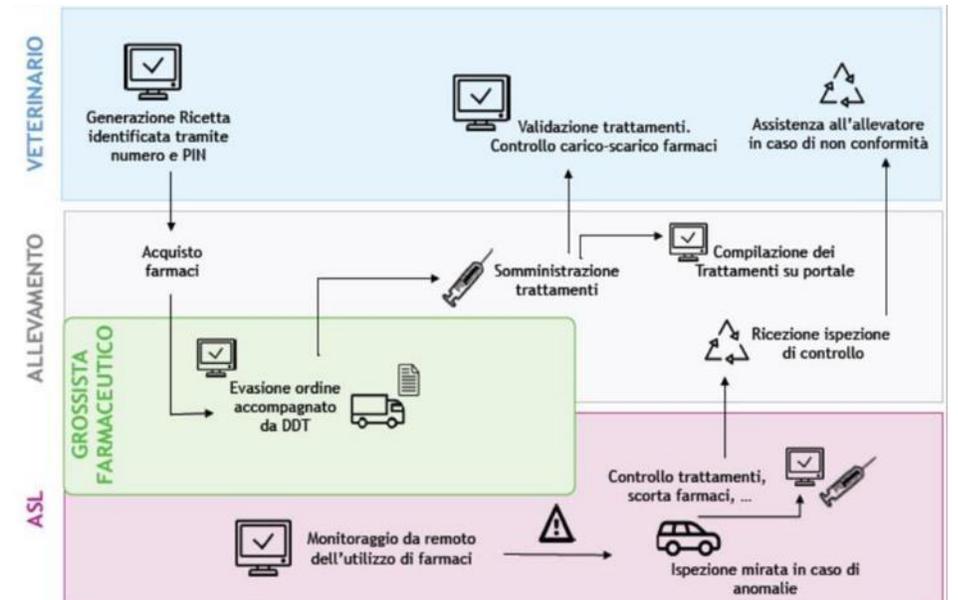
A new model for veterinary medicines management

The e-Prescription is not the simple transposition of the "paper prescription" into a "PDF file", but constitutes a substantial modification of the previous organizational model for the management of veterinary medicines, through the complete digitalization of the management of the distribution and use of veterinary medicines

Before



After



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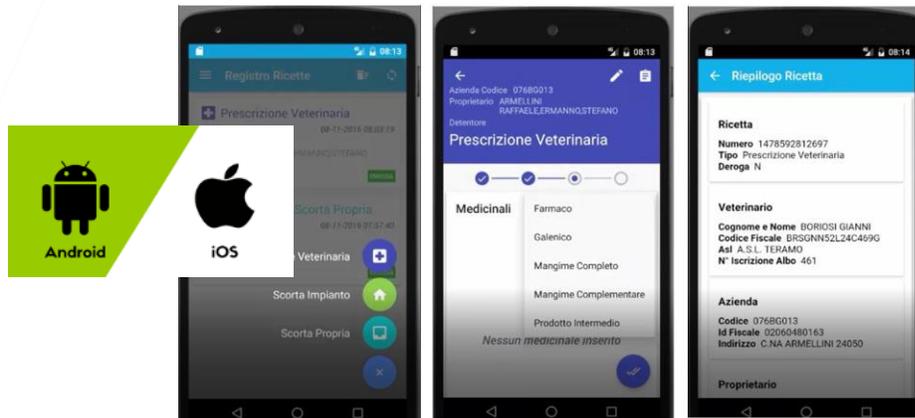
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Traceability of veterinary medicines



The veterinarian issues the veterinary prescription in electronic format using a normal PC connected to the Internet, or alternatively a mobile device (tablet or smartphone), through an application that simplifies and automates data entry.



Sistema informativo sulla tracciabilità del farmaco veterinario

farmaco 2.0.0

Utente: IZSAM REPARTO COVEPI (covepi_CSN)
Anno: 2017
Profilo: CSN - CSN

Registro Ricette

Ricetta Medicinali e Capi

Torna al Registro Vai al Prontoario

Se la RICETTA / INDICAZIONE TERAPEUTICA non è stata emessa è possibile aggiungere i MEDICINALI.
Dopo aver inserito un MEDICINALE, selezionarlo dalla tabella e aggiungere i corrispettivi CAPI cliccando sul pulsante **Inserisci Capo**

Ricetta Selezionata

Numero	Tipo Ricetta	Azienda Codice	Proprietario	Data Prescrizione
1510562635897	Prescrizione Veterinaria	0805221	PIANOVERDE DI SARTORELLI & BRC	13-11-2017

Medicinali e Mangimi

Elenco Medicinali:

Alc	Denominazione Farmaco	Confezione	Galenico	Quantitativo	Unità di msu	Tipo medicinale
102457013	ENTEROCOL	SACCO DA 25 KG		5		Farmaco
102821028	COLIFARM	SACCO DA 25 KG		2		Farmaco
103912022	NUFLOR 40 MG/G	SACCO DA 25 KG		4		Farmaco

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Capi e Tempi di Sospensione

Capi del Medicinale Selezionato

Specie	Sottocategoria	N° Capi	Sesso	ID Capo	Codice Box/Gruppo Animali	Deroga	Diagnosi
Nessun record da visualizzare							

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Electronic medicine prescription

Traceability of veterinary medicines

Once issued by the veterinarian, the ePrescription is available online, also on the smartphone of the owner, and can be traced by the respective identification number and a PIN code. The PIN, which changes from each ePrescription, allows to guarantee the right level of privacy in accessing the prescription data.



Alternatively, the pharmacy can retrieve the e-Prescription using the corresponding PIN and the ID of the prescription owner.

Traceability of veterinary medicines

Registration of administration

Trattamento										
Data inizio	Data Fine T	AIC Fam.	Fam. Prodotto	Piangime	Note	Posologia (Percentuale mangime rts)	Proprietario	Detentore	Azienda	
29-11-2017	29-11-2017	104001	MASTORANGE			1 tubo per quarto alla messa	MACCALI GUGLIE		1228G007	
29-11-2017	29-11-2017	104548	NOROSEAL			1 tubo per quarto alla messa	MACCALI GUGLIE		1228G007	
13-11-2017	13-11-2017	100402	RISPOVAL MARKER INATTIVAT			2 ml SC	SOC. AGR. NISOL		0408G011	
13-11-2017	13-11-2017	101350	CEPRAVIN			1 tubo per quarto all'asciutti	SOC. AGR. NISOL		0408G011	
12-11-2017	12-11-2017	101350	CEPRAVIN			1 tubo per quarto alla messa	DALMAGGIONI GI		1528G006	
12-11-2017	12-11-2017	104073	UBROLEXIN			1 tubo per quarto al di per 2	DALMAGGIONI GI		1528G006	
11-11-2017	11-11-2017	104276	FORCYL			10 ml / 160 kg SC 1 sola volta	SOC. AGR. NISOL		0408G011	
11-11-2017	13-11-2017	104089	FLORIKEM 300 MG/ML			1ML/20KG PV	SOCIETA AGRICCSOCIETA AGRICCO	065MND13	0538G046	
11-11-2017	11-11-2017	102257	DUPHAFRAL MULTI			10 - 15 ml/Capo sottocute o	SOCIETA AGRICO		0538G046	
11-11-2017	11-11-2017	102807	ALAMYCIN LA 300			10 ml/gle di peso vivo intrar	SOCIETA AGRICO		0538G046	

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Esporta Report

Registro delle scorte							
AIC Famiglia	AIC	Denominazione Farmaco	Confezione	Quantitativo	Unità di misura	Scade	
101350	101350041	CEPRAVIN	SCATOLA DA 100 SIRINGHE DA 8		PEZZO		

Visualizzati 1 - 1 di 1

Elenco Capi							
Specie	Sottocategoria	N° Capi	Sesso	ID Capo	Codice Box/Gruppo Animali	Deroga	Diagnosi
BOVINI	BOVINE	1	F	IT016990373199		N	Trattamento per asclicu
BOVINI	BOVINE	1	F	IT016990449645		N	Trattamento per asclicu

Visualizzati 1 - 2 di 2

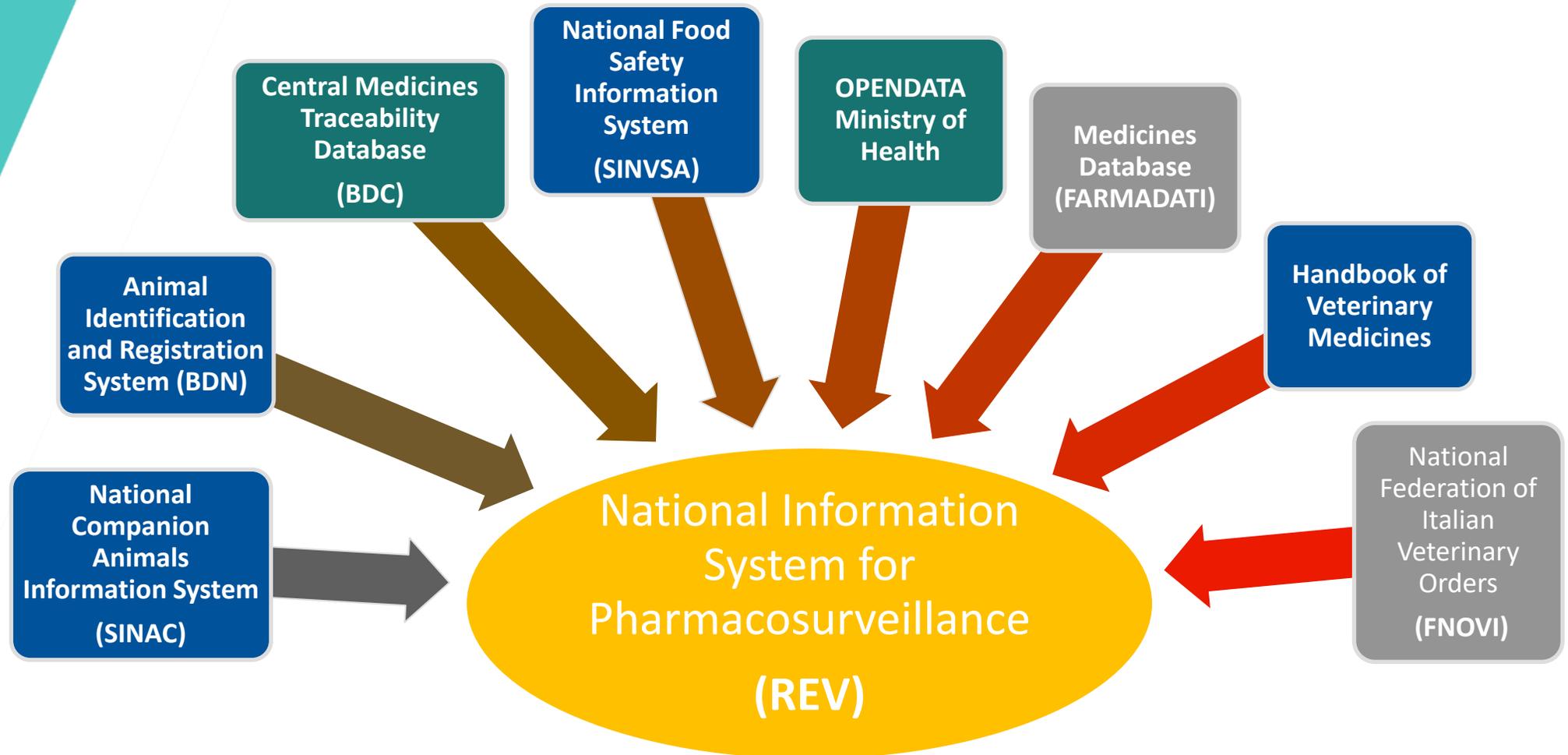
Tempi di Sospensione del Capo Selezionato		
Codice Alimento	Descrizione Unità	Tempo
Nessun record da visualizzare		

Visualizzati 1 - 0 di 0

The new system does not introduce new obligations or rules with respect to current legislative norms, indeed its purpose is to simplify and, where possible, reduce the burden on farmers and veterinary, reusing the information already available in other national information systems, and to facilitate the National Health Service in daily operations

Supporting focused and effective
AMR control strategies

Integration with other systems

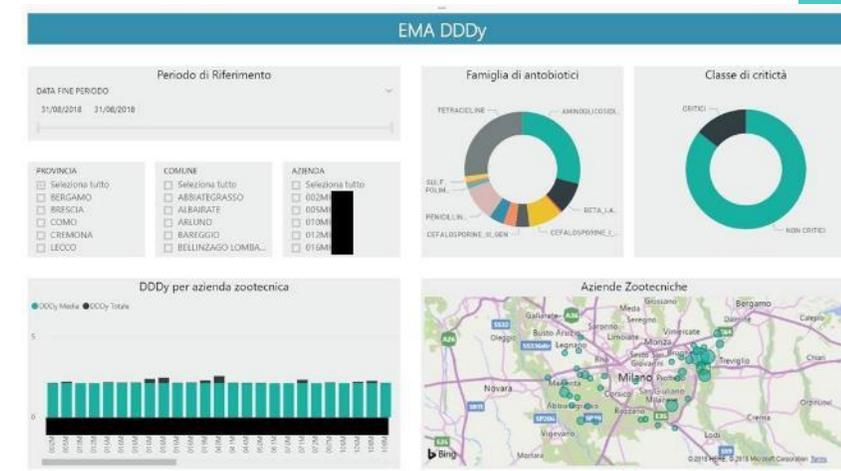
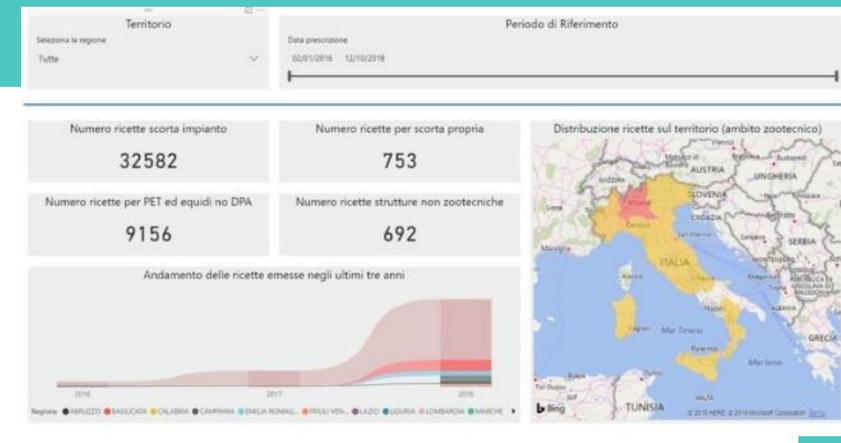


Integration and data analysis

Additionally to e-Prescription, the National Information System for Pharmacosurveillance foresees the digital management of:

- medicated feed;
- the loading and unloading register of medicinal products;
- the treatments register;
- the report of treatments in the ICA/FCI modules;

The system also includes **advanced analysis** and **reporting system** for the competent authorities



National pharmacosurveillance plan

art. 123, Reg. (EU) 2019/6

The system allows to plan the official control activities, based on risk analysis, in the structures that manage veterinary drugs with the exception of livestock farms.



Then record into the system the results of official controls carried out in these structures as:

- authorized drugs distributors for direct sale;
- pharmacies and parapharmacies;
- manufacturers of premixes for feed;
- veterinarians authorized to keep stocks;
- veterinary surgeries, clinics and genetic centers;

Verifica da Remoto							
	Data Controllo	Tipo	Criterio Selezione	Controllore	Esito	Destinatario	Provvedimenti Presc
ALLEVAMENTO MDP	27-09-2022	Ispezione	Regionale	BOSCARELLI FRANCESCO	FAVOREVOLE	017LI068 - SOCIETA' AGRICOLA CASONE DE	
VETERINARIO	27-09-2022	Ispezione	Altri Criteri	MARTELLI SARA	FAVOREVOLE	GIULIANI GIULIANA - GLNGLN59M46I085C	
DISTRIBUTORE	27-09-2022	Ispezione	Regionale	PACITTO LILIANA	FAVOREVOLE	DEL GIGLIO SNC DR.I MUSCEDERE LORENZ	
DISTRIBUTORE	27-09-2022	Ispezione	Regionale	PACITTO LILIANA	FAVOREVOLE	TSS S.R.L.	
DISTRIBUTORE	26-09-2022	Ispezione	Regionale	PACITTO LILIANA	FAVOREVOLE	DEL VIALE DI CORRENTE DI GIANFRANCO E	
DISTRIBUTORE	26-09-2022	Ispezione	Regionale	PACITTO LILIANA	FAVOREVOLE	PALLESCHI MARIA	
STRUTTURA	27-09-2022	Ispezione	Regionale	IACCHIA GIUSEPPE	FAVOREVOLE	TUTTO PER IL CANE DI GAZZOLI SIMONE -	
DISTRIBUTORE	27-09-2022	Ispezione	Regionale	DE SANTIS DANIELA	FAVOREVOLE	Farmacia Del Viale Del Dottor Francavilla	
DISTRIBUTORE	23-09-2022	Ispezione	Regionale	GAGLIANO GIOVANNI	FAVOREVOLE	Del Corso	
DISTRIBUTORE	17-02-2022	Ispezione	Altri Criteri	CICHERO TIZIANA	FAVOREVOLE	TINTI LUCA	

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+ Inserisci Controllo Ufficiale

National pharmacosurveillance plan

art. 123, Reg. (EU) 2019/6

The system also allows to verify, record and review the remote (on-line) control activities performed by competent authority on all livestock farms and other structures.

Since these controls exclusively checks the information present and recorded into the system, these do not provide a judgment of conformity or non-conformity, but simply an assessment to decide the need to perform an official on-site control, filling the fields "Completed" or "To be completed in loco"

Indicatori

Anno	Tipo Prescrizione	Azienda	Specie	Fine Attivita	Id Fisc. Proprietari	Proprietario	Id Fisc. Detentore	Detentore
2022	VETERINARIA	004720001	SUINI		00540000000	MARTINI S.P.A.		
2022	SCORTA	004720001			00540000000	MARTINI S.P.A.		

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Inserisci Controllo Remoto Scarica Indicatori

Farmaci Mangimi Galenici

Specie allevate nel periodo di riferimento

SUINI **Detailed data for a selected breeding farm**

Dettaglio Farmaci

Elenco dei farmaci ricettati nel periodo di riferimento, con indicazione del numero totale di ricette in cui il farmaco è stato prescritto e del numero di confezioni prescritte, fornite, sostituite e non fornite.
Il numero di capi (indicato solo nei farmaci da prescrizioni veterinarie) è calcolato sommando il numero di capi di tutte le ricette relative al farmaco.

Azioni	AIC	Denominazione	Confezione	Tipo	ATC/GMP	Categoria ATC	Principi Attivi	Antibic
Vedi Ricette	104025010	CORMICINA SOSPENSI	FLACONE DA 100 ML	FARMACO VETERINAR	QJ01RV01	ANTIBACTERIALS AND	BENZILPENICILLINA P	S
Vedi Ricette	102373026	METABOLASE FORTE	FLACONE DA 250 ML	FARMACO VETERINAR	QA11JC	ALIMENTARY TRACT A	ACETILMETIONINA, CI	N
Vedi Ricette	101116010	MONZAL	FLACONE MULTIDOSE DA 50 ML	FARMACO VETERINAR	QG02CA90	GENITO URINARY SYS	VETRABUTINA CLORIDE	N
Vedi Ricette	104220076	LONGOCILLINA LA	1 FLACONE IN PLASTICA DA 250 ML	FARMACO VETERINAR	QJ01CA04	AMOXICILLIN	AMOXICILLINA TRIIDR	S
Vedi Ricette	100178021	DINOLYTIC	5 MG/ML FLACONE 30 ML PER BOVINI-EQU	FARMACO VETERINAR	QG02AD01	GENITO URINARY SYS	DINOPROST	N
Vedi Ricette	100197033	IVOMEC	FLACONE DA 500 ML	FARMACO VETERINAR	QP54AA01	ANTIPARASITIC PRODI	IVERMECTINA	N
Vedi Ricette	101503011	IPOFAMINA	FLACONE DA 100 ML SOLUZIONE INIETTAB	FARMACO VETERINAR	QH01BB02		OSSITOCINA	N
Vedi Ricette	104321017	BAYTRIL INJECT	FLACONE 100 ML	FARMACO VETERINAR	QJ01MA90	ENROFLOXACIN	ENROFLOXACINA	S
Vedi Ricette	104120062	SUISENG	FIALA IN PET DA 50 DOSI (100 ML)	FARMACO VETERINAR	QI09AB08		VACCINO ADESINA FIM	N
Vedi Ricette	101558082	GABBROSTIM	FLACONE DA 40 ML	FARMACO VETERINAR	QG02AD94	GENITO URINARY SYS	ALFAPROSTOLO	N

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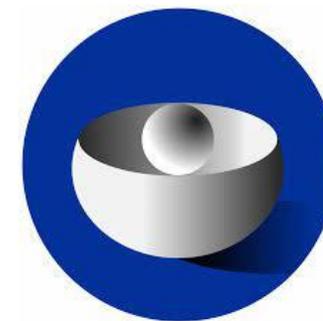
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Data Collection of antimicrobial medicinal products

The system is also used to collect and report, to international organization as WOAHA and EMA, both the sales and use volumes of antimicrobial products.

**Collection of Data on Antimicrobial Medicinal Products Used in Animals
– for EMA art. 57, Reg. (EU) 2019/6**



WOAH Annual Collection of Data on Antimicrobial Agents Intended for Use in Animals

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Some data about the System

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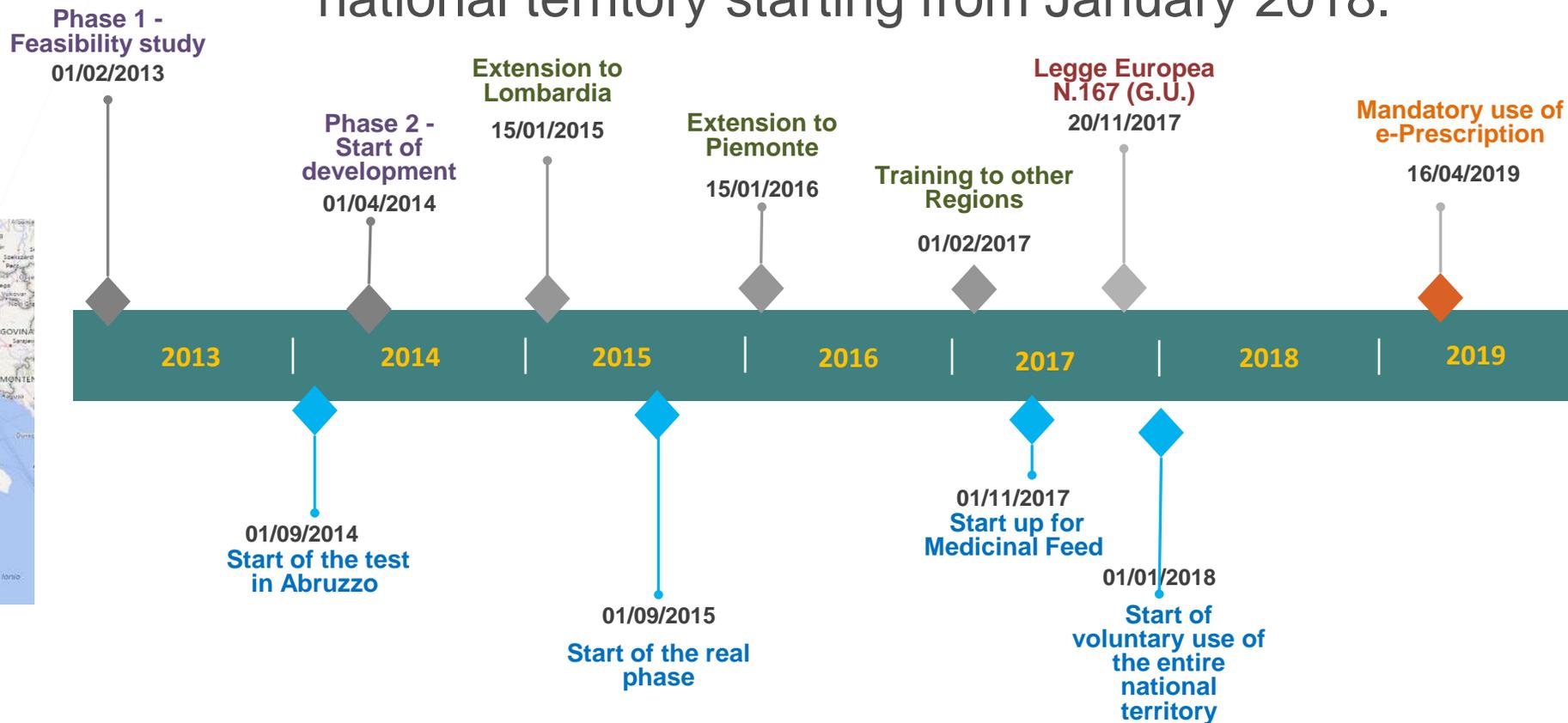
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The pilot project

Experimented in several Italian Regions from 2015, the system will be operational throughout the national territory starting from January 2018.



Use of the system from 2019

Every working day more than **20.000** users access into the system



24.153.078



No. ePrescription

71.718.239



No. of packages dispensed

25.014



No. of veterinarians who have compiled at least one ePrescription

128.285



No. of livestock farm that have at least one ePrescription

21.695

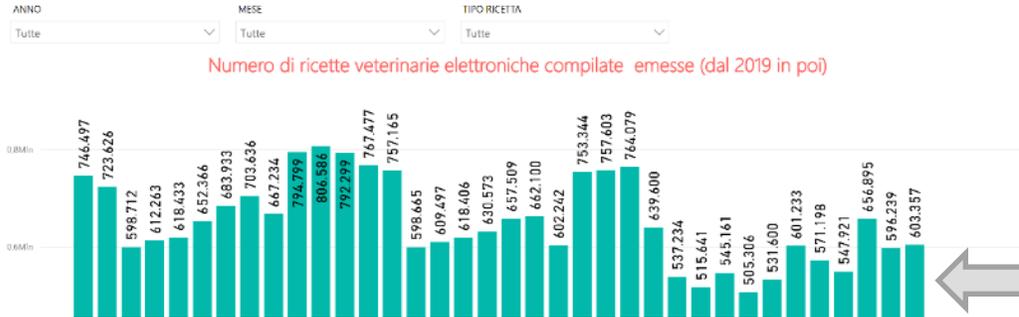


No. of Pharmacies, Drug-stores ... that have at least one ePrescription

197

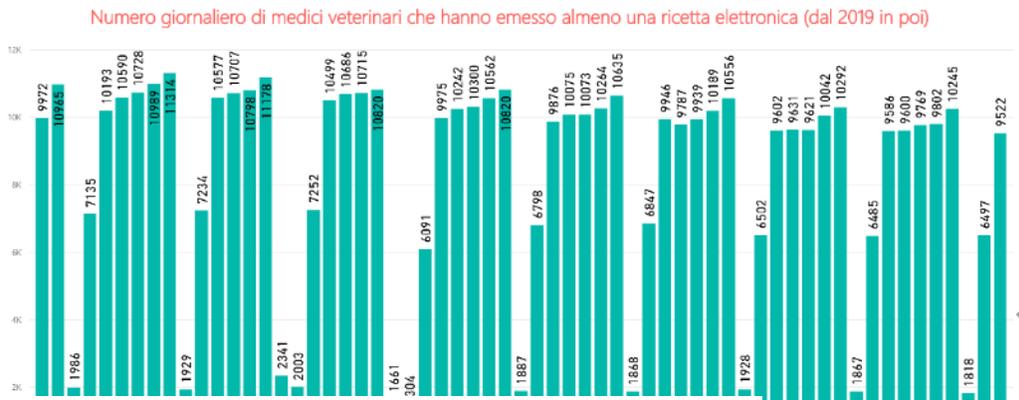


No. of Animal feed operators that have dispensed at least one ePrescription

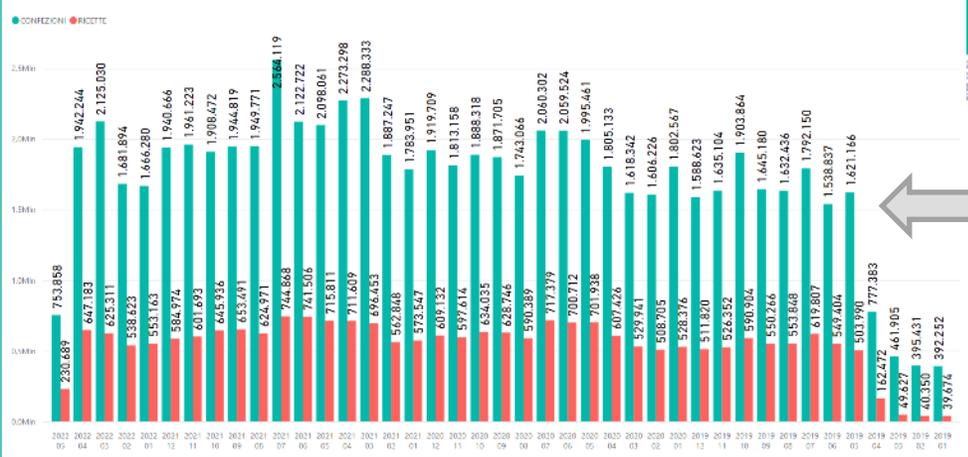


Some detailed data

About **600.000** ePrescriptions every month (more than **30.000** every day)



About **10.000** vets register an ePrescription every day



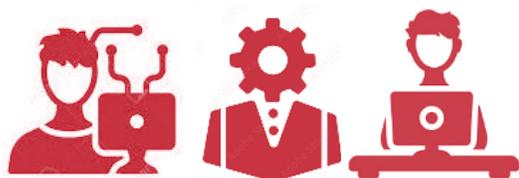
17.856.314 ePrescriptions for PETS

2.039.260 ePrescriptions for farm animals



Costs and sustainability of the system

Ministry of Health funds the project with about **2 Mln €** every year



Permanent Staff of IT Experts

Project Manager, Software Architect, Software Developers, Data Analyst, Database Administrator, etc.



IT infrastructures management

Servers, Storages, Database, Network, Devices, Power Supplies and all Datacenter Equipment maintenance, management and upgrading



Software development and procurement

Developing and procurement of new functionalities and support software for monitoring and security

Data Analysis

Advanced analytics, Business intelligence, machine learning



Software License

For operational system, database, monitoring and security



User Assistance

On line support for users and dedicated call-center by phone



Training

.Workshop, events,, resident and on-line training for users and operators



Technical Support

For Ministry of Health in working groups and in regulation and operational manual definition



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Thank you for your kind attention

Any question?

Ing. Luigi Possenti – l.possenti@izs.it – Centro Servizi Nazionale