



IZSAM G.CAPORALE
TERAMO



Collaborating Centre
for Veterinary Training, Epidemiology,
Food Safety and Animal Welfare

I&R of Dogs (establishment of a national database)

Third OIE Regional Workshop
Stray Dog population management for Balkan countries (SDB3)
Belgrade, Serbia – 13-15 June 2018





Oie Collaborating Centre
for Veterinary Training, Epidemiology,
Food Safety and Animal Welfare



World Organisation for Animal Health

GLOSSARY

“A core component of dog population control by the *Competent Authorities* is the **identification and registration (I&R)** of owned dogs.

I&R may be emphasized **as part of responsible dog ownership** and are often **linked to animal health programmes**, for example, mandatory rabies vaccination and traceability.

Registration of *animals* in a **centralised database** can be used to **support the enforcement of legislation** and the reuniting of lost *animals* with owners”

For the purposes of the Terrestrial Code:

ACCEPTABLE RISK

means a risk level judged by each Member Country to be compatible with the protection of animal and public health within its territory.

ANIMAL

means a mammal, bird or bee.

ANIMAL FOR BREEDING OR REARING

means a domesticated or confined animal which is not intended for slaughter within a short time.

ANIMAL FOR SLAUGHTER

means an animal intended for slaughter within a short time, under the control of the relevant Veterinary Authority.

ANIMAL HANDLER

means a person with a knowledge of the behaviour and needs of animals who, with appropriate experience and a professional and positive response to an animal's needs, can achieve effective management and good welfare. Competence should be gained through formal training and/or practical experience.

ANIMAL HEALTH MANAGEMENT

means a system designed to optimise the physical and behavioural health and welfare of animals. It includes the prevention, treatment and control of diseases and conditions affecting the individual animal and herd, including the recording of illness, injuries, mortalities and medical treatments where appropriate.

ANIMAL HEALTH STATUS

means the status of a country or a zone with respect to an animal disease in accordance with the criteria listed in the relevant chapter of the Terrestrial Code dealing with the disease.

ANIMAL IDENTIFICATION

means the combination of the identification and registration of an animal individually, with a unique identifier, or collectively by its epidemiological unit or group, with a unique group identifier.

ANIMAL IDENTIFICATION SYSTEM

means the inclusion and linking of components such as identification of establishments/owners, the person(s) responsible for the animal(s), movements and other records with animal identification.

ANIMAL TRACEABILITY

means the ability to follow an animal or group of animals during all stages of its life.

ANIMAL WELFARE

means how an animal is coping with the conditions in which it lives. An animal is in a good state of welfare if (as indicated by scientific evidence) it is healthy, comfortable, well nourished, safe, able to express innate behaviour, and if it is not suffering from unpleasant states such as pain, fear and distress. Good animal welfare requires disease prevention and veterinary treatment, appropriate shelter, management, nutrition, humane handling and humane slaughtering. Animal welfare refers to the state of the animal; the treatment that an animal receives is covered by other terms such as animal care, animal husbandry, and humane treatment.

ANTIMICROBIAL AGENT

means a naturally occurring, semi-synthetic or synthetic substance that exhibits antimicrobial activity (kill or inhibit the growth of micro-organisms) at concentrations attainable in vivo. Anthelmintics and substances classed as disinfectants or antiseptics are excluded from this definition.

FVE – UEVP – FECAVA position paper on stray dog control

“I&R are crucial.

**Identification alone is
not enough; it needs to
go together with
registration”**

Rafael Laguens, FVE president



PROMOTING VETERINARY LEADERSHIP IN STRAY DOG CONTROL IN EUROPE

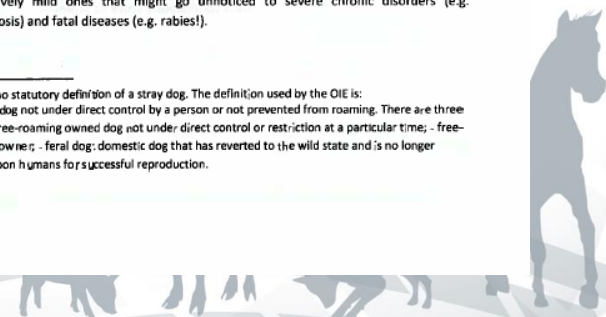
“EVERY DOG DESERVES A CARING OWNER”: THE VETERINARY VISION ON STRAY DOG MANAGEMENT

**FECAVA, the Federation of European Companion Animal Veterinary Associations,
UEVP, the Union of European Veterinary Practitioners, and
FVE, the Federation of Veterinarians of Europe**

CONSIDERING THAT:

- In several European regions, in urban as well as rural areas, large numbers of dogs stray freely. Although generally called “stray dogs¹”, distinct categories of dogs can be identified, such as dogs with an owner, dogs without an owner, dogs abandoned by their owner, dogs that were never owned, etc.
- These stray dogs can pose serious risks for animal health and animal welfare as well as for public health and welfare.
- A wide range of pathogens, influenced by region and habitat, can be hosted, carried around and transmitted to other animals and to people. Diseases that can be spread in this way vary from relatively mild ones that might go unnoticed to severe chronic disorders (e.g. echinococcosis) and fatal diseases (e.g. rabies!).

¹ Stray dog: There is no statutory definition of a stray dog. The definition used by the OIE is: Stray dog means any dog not under direct control by a person or not prevented from roaming. There are three types of stray dog: - free-roaming owned dog not under direct control or restriction at a particular time; - free-roaming dog with no owner; - feral dog: domestic dog that has reverted to the wild state and is no longer directly dependent upon humans for successful reproduction.





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The CALLISTO project

Suggests the development of systems for **identifying and registering** the most common companion animal species and establishing surveillance programmes **that capture data on zoonoses** that occur in these animals.



Compulsory I&R in EU countries

- Yes
- Yes, by 2016
- No
- only in some länder
- * but no database set up yet
- limited to commercial traded pets



Illegal puppy trade and I&R



**LA TRATTA E LE SOFFERENZE DEI CUCCIOLI
NATI NELL'EST E VENDUTI COME ITALIANI**
Dossier di approfondimento della campagna LAV - novembre 2008



PUPPY SMUGGLING THE SCANDAL CONTINUES

A follow up investigation into the illegal entry of dogs into Great Britain under the Pet Travel Scheme

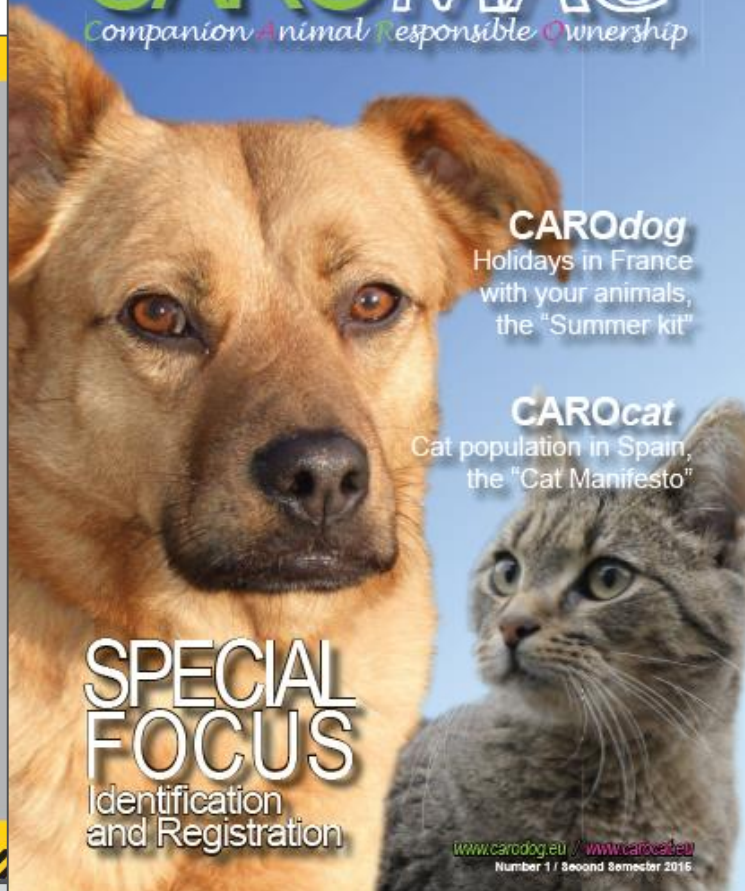


- FAKE PASSPORT
- FAKE MICROCHIP
- FAKE VACCINATIONS
- FAKE PULSE
- ENTRY INTO THE UK




CARO MAG⁹

Companion Animal Responsible Ownership



CAROdog
Holidays in France
with your animals,
the "Summer kit"

CARocat
Cat population in Spain,
the "Cat Manifesto"

SPECIAL FOCUS

Identification
and Registration

www.carodog.eu / www.carocat.eu
Number 1 / Second Semester 2016



THE PUPPY SMUGGLING SCANDAL



**EU DOG & CAT
ALLIANCE**

Calling for EU action to
build a better Europe for
dogs and cats

About the EU Dog and Cat Alliance

The EU Dog and Cat Alliance was launched in 2014. Our members are organisations from across the EU which are working to protect dog and cat welfare. Together we are calling for EU action to build a better Europe for dogs and cats.

The secretariat for the Alliance is provided by the UK charity and founding member, Dogs Trust, with a dedicated European Policy Advisor based in Brussels.



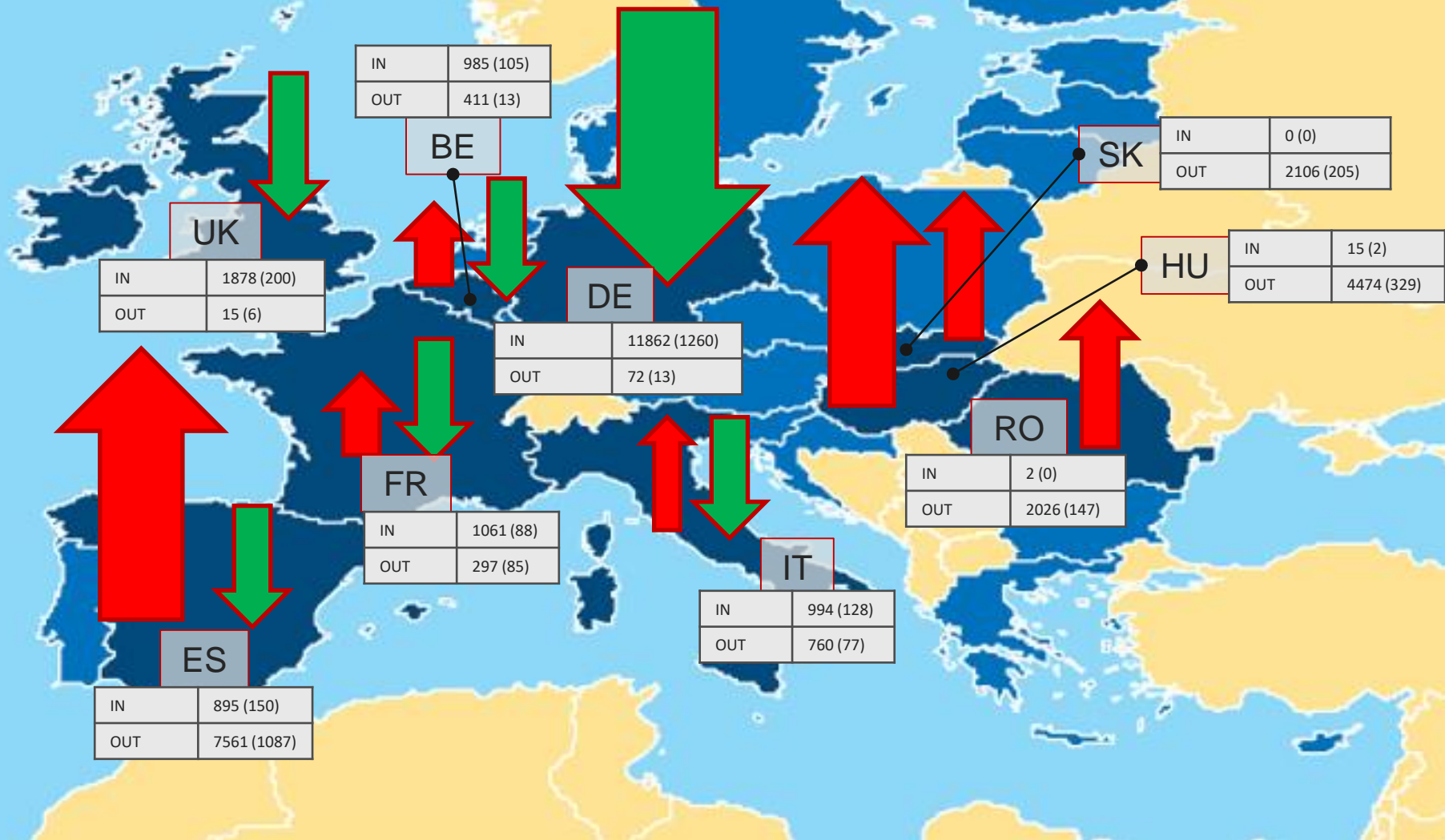
The Current EU Situation

There are around 61 million owned dogs and 66 million owned cats in the EU. Cross-border activities involving dogs and cats can therefore have a huge impact on human and animal health and welfare, consumer protection and the functioning of the internal market. Despite this, there is currently very little EU legislation to protect dog and cat welfare. This means that national standards can vary widely across the EU, with welfare issues arising as a result.

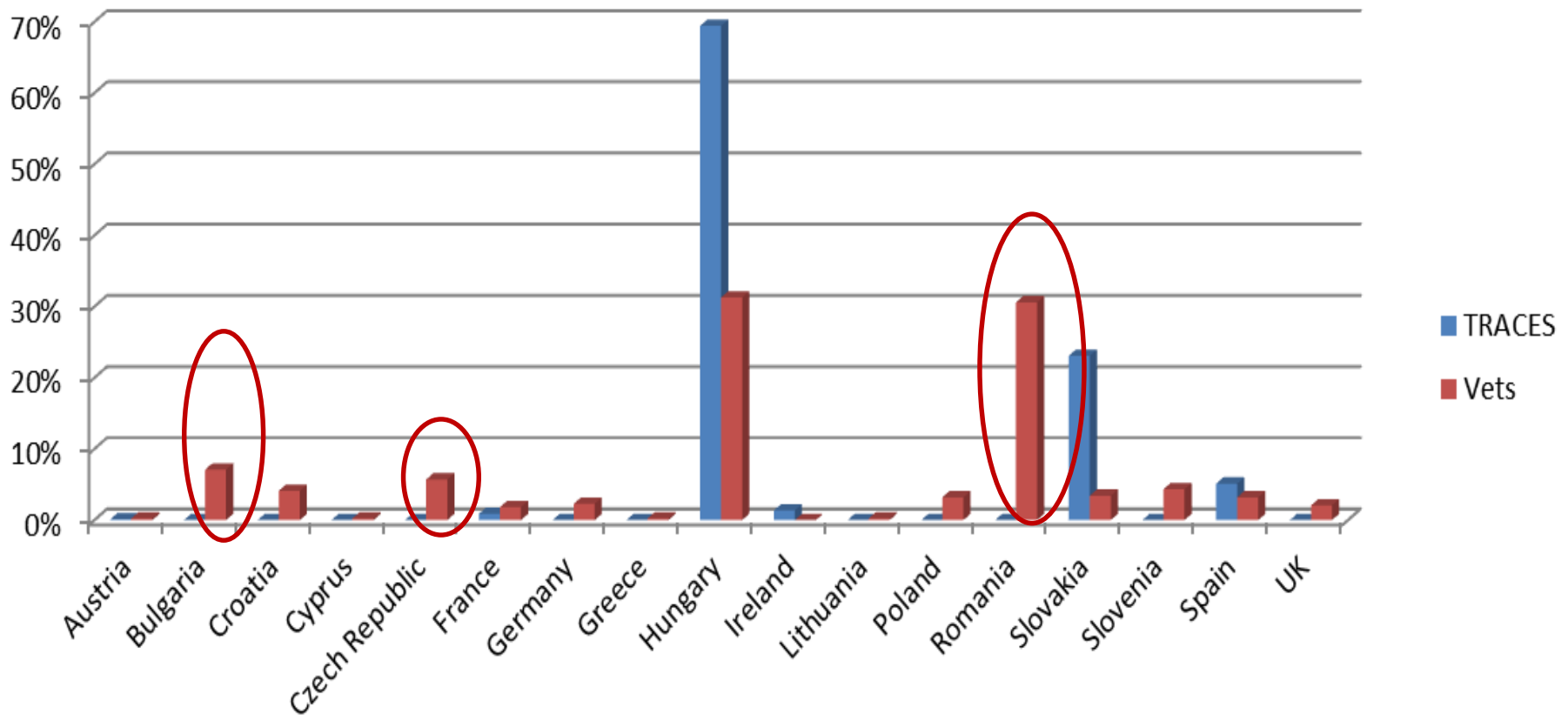
The EU only has competence to legislate in certain areas, such as consumer protection, public health or on the functioning of the internal EU market. The EU Dog and Cat Alliance therefore focuses on issues which can impact these areas, and which also affect the health and welfare of millions of dogs and cats in the EU.



Main origin and destination of dogs traded across the UE(2014)



Origin of dogs introduced in Italy (2014)



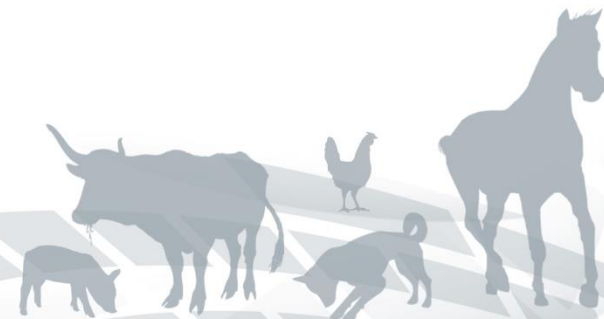
dei rispondenti, tutti i cani di provenienza estera erano accompagnati da passaporto. Per il restante 30%, le prevalenze di cani privi documenti restano comunque per lo più basse. Co-

spondenza tra l'età reale/presunta dell'animale e l'età dichiarata sui documenti ufficiali, confermando quanto emerso dall'indagine che ha coinvolto i servizi veterinari.

Repubblica Slovacca e Ungheria rivestono un ruolo fondamentale anche in questo caso, non si ha traccia ad esempio della Romania tra i Paesi coinvolti nelle movimentazioni com-

*“**Animal traceability** implies the identification of each animal by assigning a unique code number, the registration of this information in a database, and the record of the animal movements from birth to death”*

(Trautman et al., 2008)



I&R ensures animal traceability

- **Promotes responsible ownership** and **social responsibility** towards mistreated/abandoned/stray animals -> lower kennelling costs;
- Provides information about **population size, structure** and **demography**, and allows to communicate on this matter;
- Provides real time/reliable data on **health and welfare status** and history (i.e. vaccination, testing, spay/neuter, dangerous animals) at individual level;
- Is a basic tool for **disease** surveillance, control/eradication plans (2) **disease outbreak** and **disaster management** plans;
- **Protect consumers** by informing them on the real origin of animals (age, genetics, behavioural/health problems) and tracing the animals back to breeders/dealers;
- Linked to a **licensing fee** or **liability /Insurance schemes** may **incentivize + behaviours** (spay/neuter).



IDENTIFICATION AND REGISTRATION

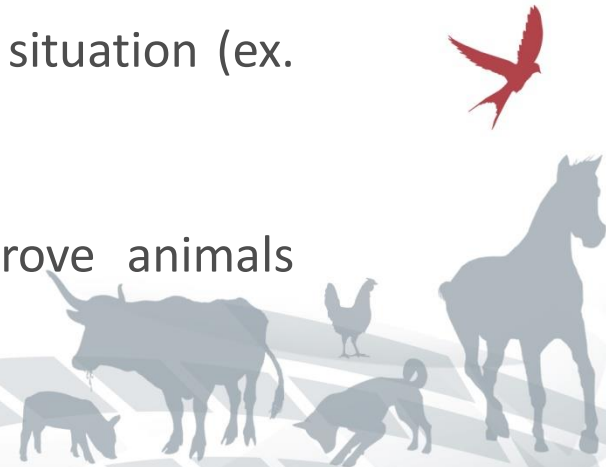
is compulsory for every dog in Italy

- Since 2005 electronic transponder (**microchip**) is the **only ID method** (no more tattoos)
- Since 2014 also compulsory for **cat breeders**, “**cat colonies**” and **catteries**



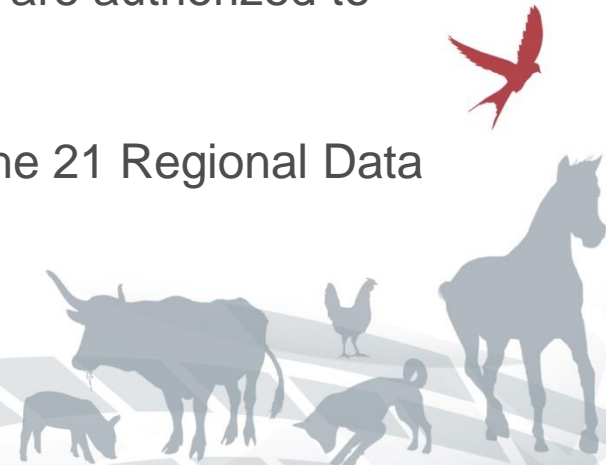
Why an I&R system?

- Provides **information about companion animals** (dogs, cats and ferrets) population for planning of any disease control program (ex. Leishmania) and stray dog population.
- The **collection of information** about the owner and holder, events (from birth to death) and health status its crucial in order to manage any emergency situation (ex. Central Italy earthquake 2017-18).
- Promotes **responsible ownership** to improve animals welfare and avoid pets abandonment.



Very good points.....

- **Microchip producers and distributors** should be **registered at the Ministry of Health** (assigning numerical series of electronic codes)
- **Microchips could be only sold** to Regional CAs, Local Health Units, accredited Private practitioners and Faculties of Veterinary Medicine
- **Only Official Vets** and **accredited Private Practitioners** are authorized to register dogs (within 2 months of age)
- An **National Information System** should dialogue with the 21 Regional Data base systems



.....but also weak ones

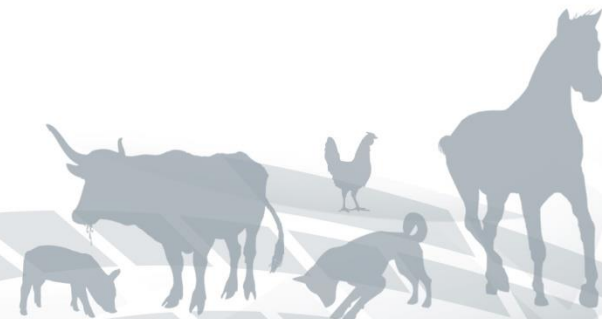
- **Only a subset of information** are transmitted to the national level (microchip/tattoo, sex, breed, date of birth and death).
- The national database is only a **list of pets codes** (not a full I&R system).
- The **full traceability data** are available only at regional level.
- Unable to define any statistical **Key Performance Indicator**



Italy snapshot

In Italy every region hosts its own pets registry (Law 281/1991), and these registers are not compatible among them.

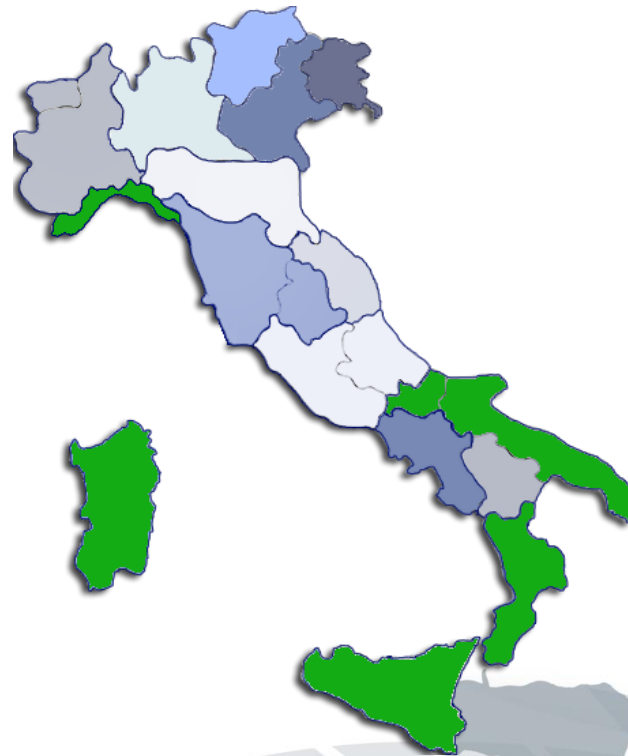
Only a subset of information stored at regional level are transmitted to the national level, through a batch file transfer mode.



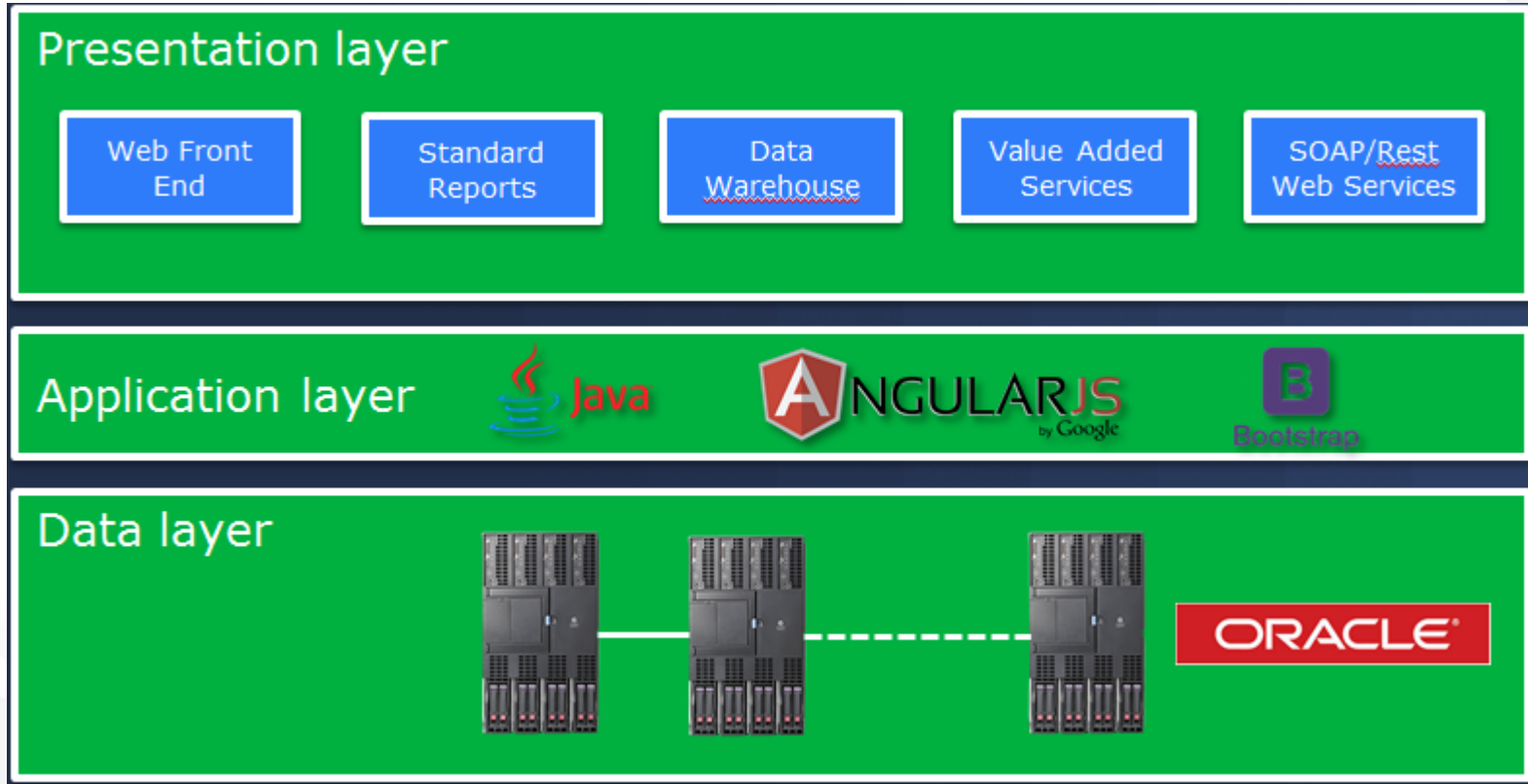
The IZS regional pets register

Today IZS Abruzzo & Molise "G. Caporale" manages the regional pets register for the following Regions:

- Sicilia
- Calabria
- Molise
- Puglia (in progress)
- Sardegna (in progress)
- Liguria - Assessment



The IZS regional pets register (architecture)



The IZS regional pets register (functionalities)



Registry

Persons (natural and legal)

Private and public veterinarians

National doghouse

Private and public facilities like shelters, breeding centers, animal shop, cat café, etc.

Microchip traceability

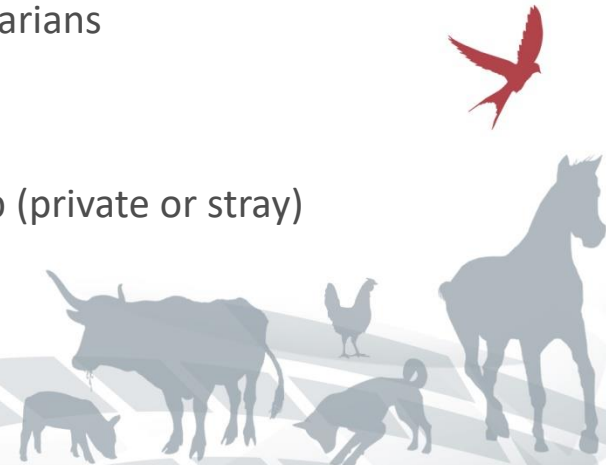
Microchip warehouse

Assignment to the private and public veterinarians

Animals

Registration according the type of ownership (private or stray)

Passport





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The IZS regional pets register (functionalities)

Oie

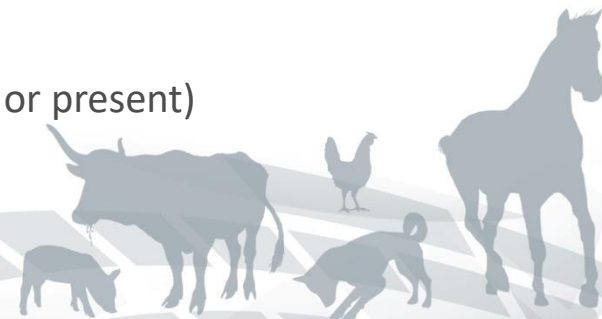
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Events

- Death
- Owner and holder variation
- Aggression
- Theft and loss
- Free roaming
- Vaccinations
- Pharmacological treatments
- Surgical operations

Queries / Statistics

- Queries based on ownership
- Queries based on territory
- Owners and holders registers (data history or present)
- Excel format export



The New National Pets Register (S.I.N.A.AF)



Service Oriented Architecture (SOA) with **Real Time** data exchange and **Full Data Traceability** at national level. All service are available as **SaaS**



S.I.N.A.AF - Time line

H1-2017

Meeting with the Regions
to analyze the minimum
dataset requirements

Workflow definition for
Data Exchange

H2-2017

Drawing of the
«Manuale operativo»

Acceptance

H1-2018

Data migration
and Go Live



S.I.N.A.AF - Snake peek



Ministry of
Health



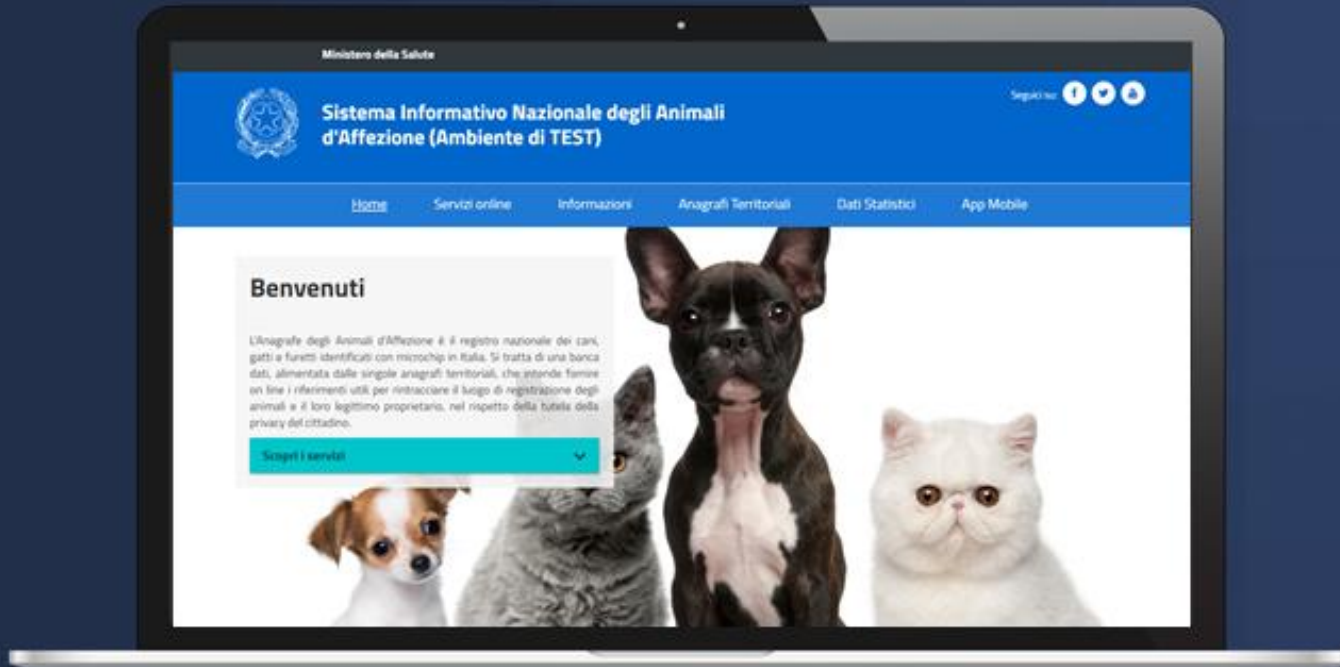
Regions



Local
Health Unit



Veterinary



Animal Welfare
Organizations



Microchip
manufacturers



Public
Organization -
Enovi



Citizens



Future improvements

The S.I.N.A.AF platform will also include:

- Pets digital e-prescription and medical records (starting from 2019).
- National cancer registry with predictive machine learning algorithms (relationship between humans and animal disease).
- Alert Notification System with “push messages” sent to owner and holder (i.e. in the case of emergencies).





caro *dog*
responsible ownership

www.carodog.eu

