















AMR One Health Network Meeting

29 February & 1 March 2024- Brussels

Implementing a **One-Health Action** Plan on AMR: the Spanish example





Complex problems requiere equally complex solutions!





PRAN is One Health







2014 2018

FIRST PRAN

Start-up and involvement of the largest number of agents in human and animal health





2019 2021

SECOND PRAN

- Development of projects and concrete actions in human and animal health
- Development of IT solutions
- Inclusion of the environmental area
- PRAN quality assessment



- Focused on the One Health approach
- · Continuity of main projects
- Start of new initiatives identified in the evaluation





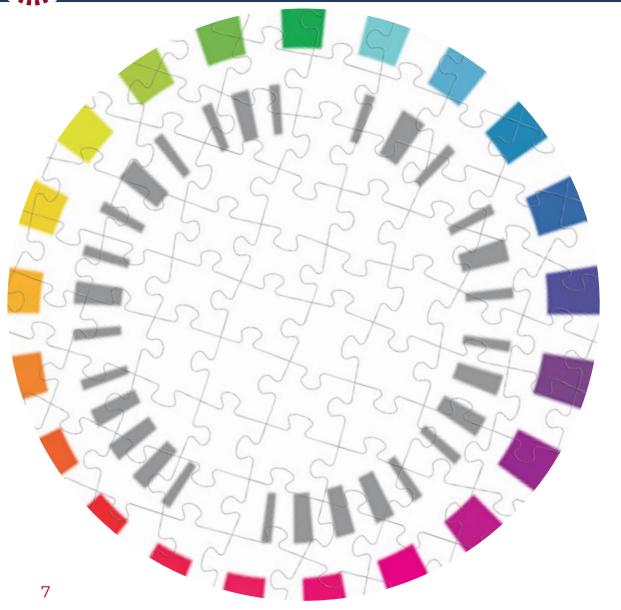
+60 DOCUMENTS 80 ACTIONS











10 MINISTRIES

Health, Agriculture, Environment,

Consumption, Economy, Education, Universities, Interior, Defense, Science,

AUTONOMOUS REGIONS

+ 70 ENTITIES

Scientífic societies, universities, professional asociations....

+ 300 EXPERTS

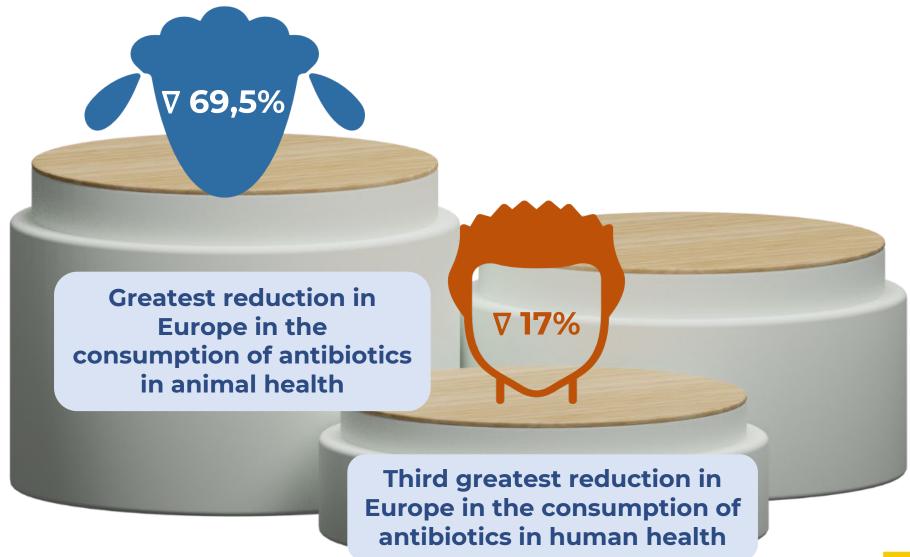






MAIN RESULTS









Human Health



PRAN - HUMAN HEALTH





AMC surveillance

AMR surveillance

Antimicrobial Stewardship Programmes

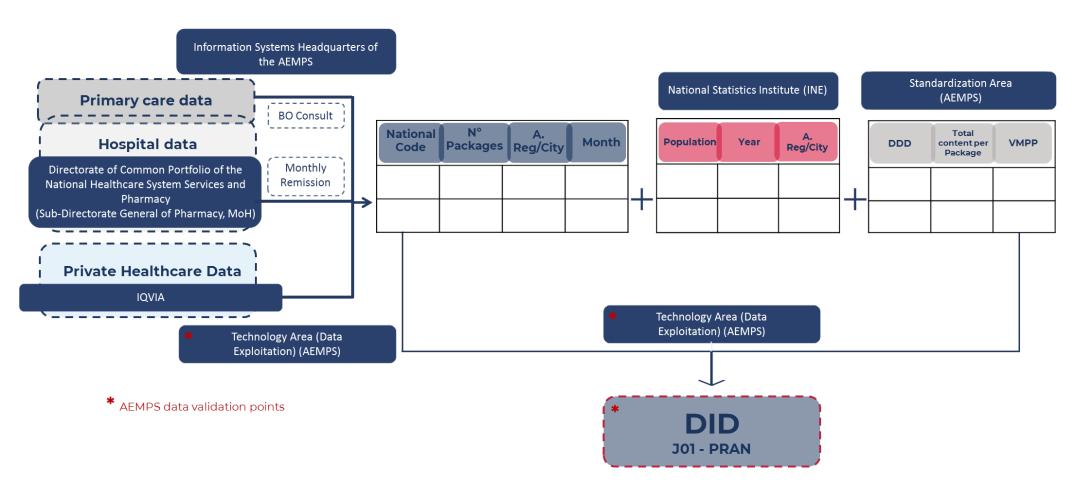
National Antimicrobial Therapeutic Guidelines

Recommendations and IPC programmes



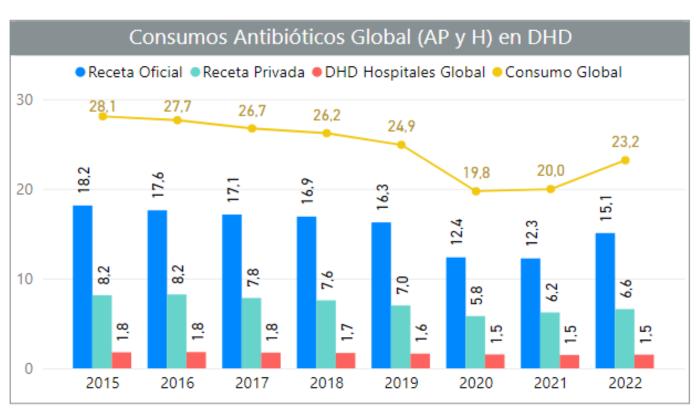
SURVEILLANCE: CONSUMPTION

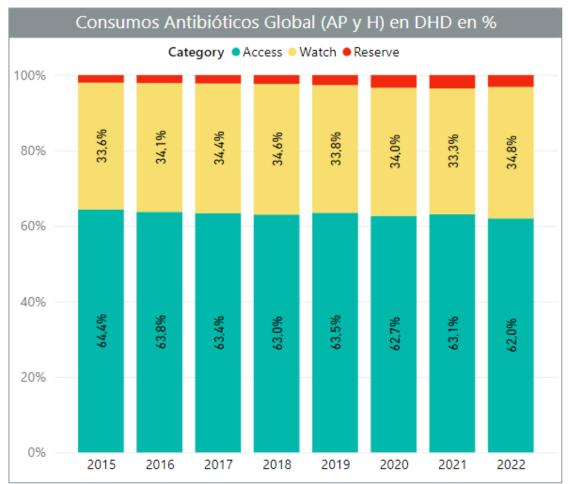




SURVEILLANCE: CONSUMPTION







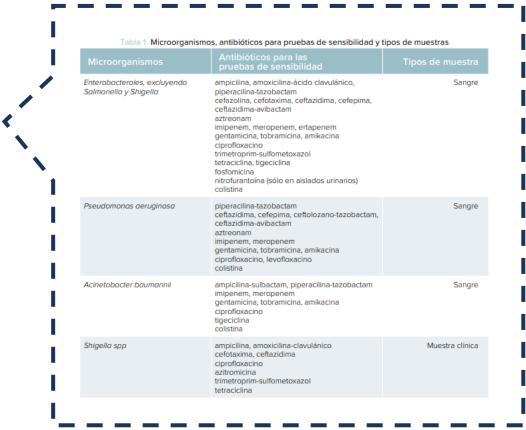


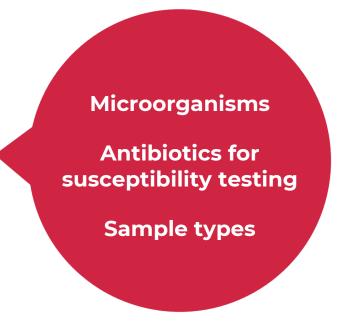


SURVEILLANCE: RESISTANCE













European Society of Clinical Microbiology and Infectious Diseases

SURVEILLANCE: RESISTANCE





RedlabRA

Red de Laboratorios para la Vigilancia de Microorganismos Resistentes



Level 3 Laboratories (Centro Nacional de Microbiología -

CNM): whole genome sequencing. Reference for levels 1 and 2.

Level 2 Laboratories: every characterisation test, including molecular characterisation.

Level 1 Laboratories: phenotypic characterisation







Efective implementation of Antimicrobial Stewardship Programs (ASP)



Certification
Standards for ASP
in hospitals
and priamary care

Certifica PROA

Tool for

self-certification

and audit



Digital tool to support ASP in hospitals



Regional specialist



AWaRe







RAVARA



Integral approach to infection in LTFCs







National Antimicrobial Therapeutic Guidelines





App (iOs and Android) +
web app to guide
antimicrobial prescription
in primary care

Empirical evidence-based management of the most common infections

Additional info: aetiology, important observations, safety notes and criteria for hospitalreferral

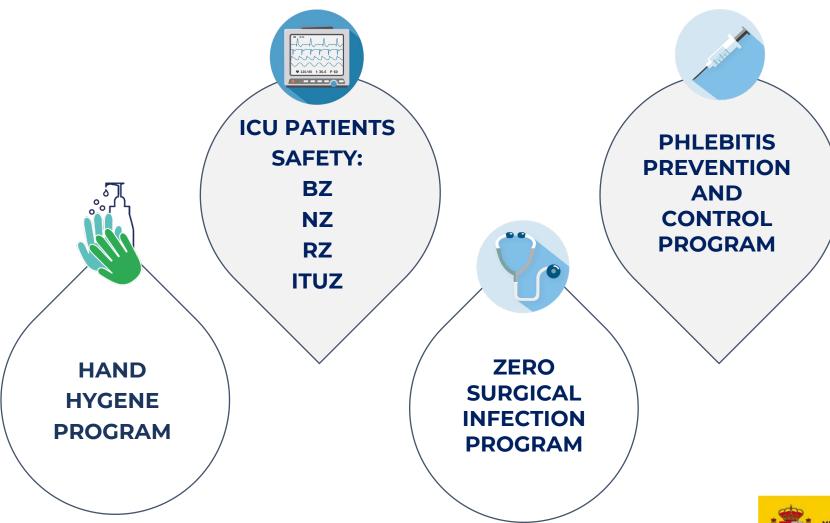






RECOMMENDATIONS AND PROGRAMS TO REDUCE THE RISK OF INFECTION AND RESISTANCE TRANSMISSION







Animal Health



PRAN - ANIMAL HEALTH





AMC Surveillance (ESVAC - ESUAVET)

Clinical pathogens Surveillance

REDUCE programmes

Availability of veterinary AM

Therapeutic Guidelines (app)



IMPROVING THE AVAILABILITY OF VETERINARY DRUGS AND THEIR ALTERNATIVES

CONSUMPTION SURVEILLANCE

RESISTANCE SURVEILLANCE



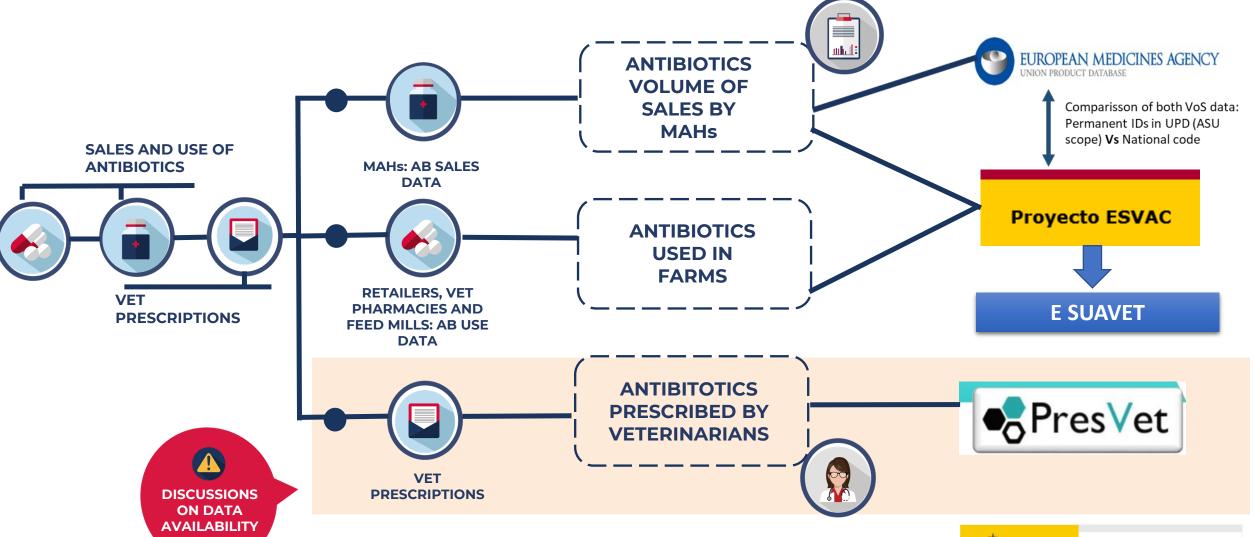


"GRUPOS REDUCE" BY SPECIES



NATIONAL SURVEILLANCE: SALES AND USE DATA COLLECTION









REDUCE PROGRAMS





Reduce use of antibiotics



Management, biosecurity and hygiene



Implement management and treatment guidelines

Antimicrobial
Stewardship
Programs on a
voluntary basis



REDUCE PROGRAMS



Pig Working Group



Poultry Working Group







Rabbit Working Group



Dairy animals Working Group





Cattle Working Group



Pet Working Group



Meet Sheep & Goats Working Group



Aquiculture Working Group



Horses Working Group

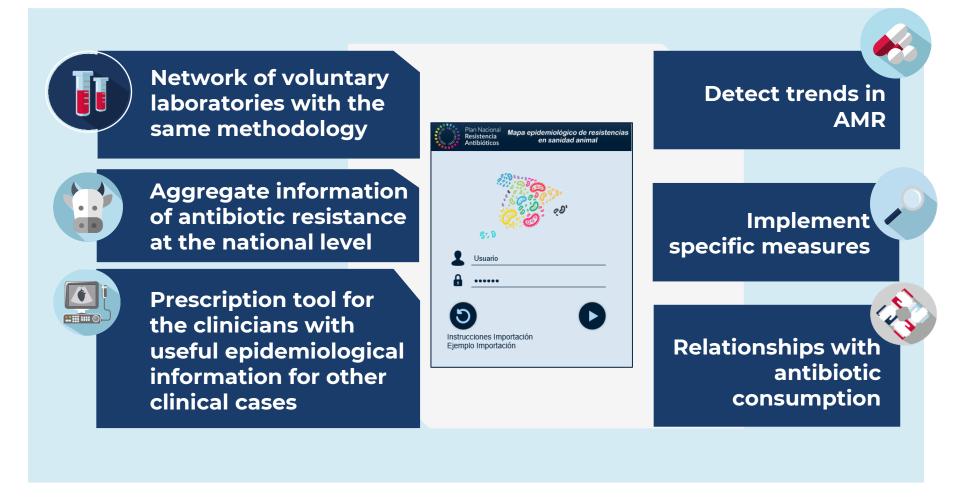






NATIONAL SURVEILLANCE: EPIDEMIOLOGYCAL PATHOGENS DATA







PRESCRIPTION APP





Therapeutic Categorization of indication veterinary antibiotics

OBJECTIVES

- Facilitate the daily practice of clinical veterinarians.
- Safety when prescribing antibiotics.
- Special attention to exceptional prescription

SELECCIONE UNA ESPECIE 573 Sing. <u>&</u>0 **(**) -O.LO W

Trends





AGENCIA ESPAÑOLA DE MEDICAMENTOS Y PRODUCTOS SANITARIOS

WORKING GROUP ON AVAILABILITY



Fraternité







Working Group on Availability of AM Medicinal Products and Alternatives to their Use













WORKING GROUP ON THE AVAILABILITY OF ANTIMICROBIALS AND ALTERNATIVES TO THEIR USE

Fishfarming

External parasitosis:

- Formaldehyda cultionisation in other space uponly author welfor gli the colored authors. Furthermore, the use of the substance may be restricted due to sejety problems. Thus, it is unjust to the either active substance is out further distribution.

Other needs

- Orgital regions and update of the Summary of Product Characteristics GPCs to include other target species.
- Authorsation of other antibiotics, core defined to mile insurface of authorsational variables and services.



Cattle:

Coocidiosis:

 Decognisate informalistic ratio be administered with milk, milk replacer or drinking color (included) or deterministration), currently. only subharrised as premi-

Respiratory infections:

. Plearonatiling outractable forms (currently outrorised methors purpose).

Leptospirosic

· Viscones p. paxena

Other needs:

- Review and adjustment of the specifications in the SPC (consignifier betracy direct.)
- Alternatives to group that it controlled for daily cottle opports with sharper with draws time in mills from group plants.
- Topical artitions forms for any artificitions and leaf range

RabbitForming

Epigootic enteropathy:

- Other artificiation conditional or the free free highly a discuss Antienpetris concerning dismedias.
- Authorisotion old gest voorsyme complex to improve algod offly to support with mass.

Coolidasis: Ottanostromey/reduled Procurso/Millione take

Shaphylacoccol/modifile as transcribed bury oring parks be

Hypermaterals: Reviewand update (has placed as of the exercise vacations.

Respiratory infections: vaccines Dermatomycoels: Vaccines and Vets.



Dogs and Cats

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Availability of gandatoria effective again side in alterpratic to notifia, cavege drops overye performeds.

Bacterial eyeinfections:

Availability of chiarging herical and diprofit social provides an eye or oping reye of threats.

- VMPs (or Narotscon)unctivitis accessor didete for murse recognition-Portugal).
- Neuescripterschichterenweder
- + Artimicrobios(priopicus).

Bees

Verroosis:

a Separtments/merchills

Note: This list of priorities is provided any for guidance. Formers informational reas keep in loads with promitisemps on











Small Ruminants

Sheep

Gvinerespirotory complex:

Polyváletí vocáse vím tře tím exmotrodíhogom, nyckédo rákonný tře kat so entificiativonom.

Geats

Mycoplesmosis:

- Authorisation glove before a quintition of settine a pain (Magazi Linguis)
- ModRM: Vetswift-good intransport systems or a paretting of tagen.

Biological, extension of the outhors of onchedity by size or for size or contribute.

· Baselinstony diseases vaccines

Common needs

- Dryptespendesto Other (1975 ovi robin)
- ModRM: Availability of inframometry takes with ord protein, such as done of true copied to the productive replans of these.
- There are no artificiple residence authorized, essential to revenue the affectiveness of some treatments and to promote principalities.

Brollers and turkeys

Solmeneticsis:

In everyopher against offer services alpublished inviewers, least comply with current regulations.

Respiratory and enteric bacterial infections:

Availability of after an filled cowin at other surplies of the characteristic cowing and personal personal contractions.

meamorrhogic enteritis churkeys::

Various bornes of the collection, directly, directly of the test of the test

Other needs:

TMPs against-ledomorraes & Assengt usus hith and valuation/or other discuss.

Laying birds

Respiretory infections:

- Vaccines if control improved the trick of condicate to pas.
- Registration of the Seweth Branched other and revocal traditive substance for reduce the reset of and biodice. Have an tracks have obadtons
- Readfor anti-inflammatory VMPs with appropriate HR, manus/or eggs.

Red mits infestations:

Avoidability of effect of the substances as a content of property approximation of the substances are substances.

Top eworm infastotions:

Availability of adversal bit consult for a restrict for a respect of the success and a respect of the success are respectively.

Pig Farming

Diarrheec counsel by Retevirus impigiats:

· Yearing arready suffer teach third countries

Meanstaldershood coused by Zeerspecia top 3 and past wearing cells acitalis

Herero around of phormocological M49s or as formation.

Swine dysentery:

Virtual Backrain nativassa sikyliteani vikanas

- Tetracyclinears www.nouguetment.ofthe tirtude cage trouvation of incorners.
- Plantering review of the authorizing the contract of the contract

Horses

Equinethelieriasis: Bupervisium, anacty evolution to recourt es-

Sepale: As distribution believes a supplementary of designation of the missing one is and C.

- · Edoparations other trefapositors
- Antimicrobiokriortopiques





Environment





PRAN - ENVIRONMENT





Defining emmision sources

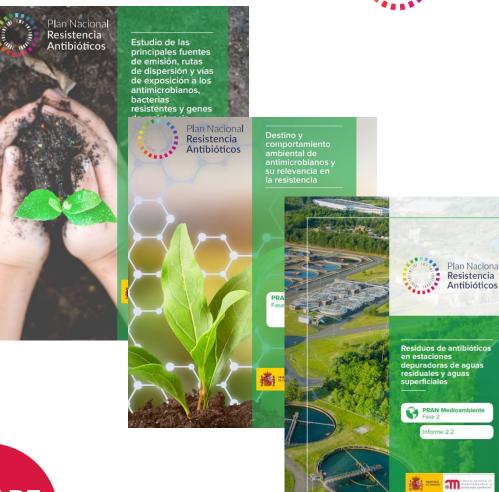
Defining environmental destination

Monitoring

AMR and AMG surveillance

Options for health impact risk assessment









Training and Communication













Certified expert
training course in
AMR stewardship,
Stewardship in ICU
patients and
Infecion Prevention
and Control
Specialist



Prudent use of antibiotics in companion animals



PRANteca



New campaign - general public





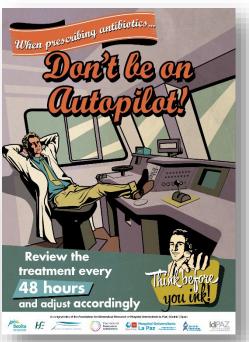


Awareness campaign - professionals



















Running against resistance















~2000 participants



More than 2200 participants















The Spanish National Action Plan on AMR (PRAN)



















One Health High-Level Meeting on Antimicrobial Resistance in Pamplona

Attended by key representatives of AMR at the European and international level





Keys to success





- One Health Approach
- Surveillance (**DATA**)
- Stakeholder representation from the beggining
- Participation in EU/global initiatives
- Measurable and achievable objectives
- Communication and training







Thank you for your attention!



