



# Implementation of Bovine Brucellosis Eradication Programme in Portugal 2014

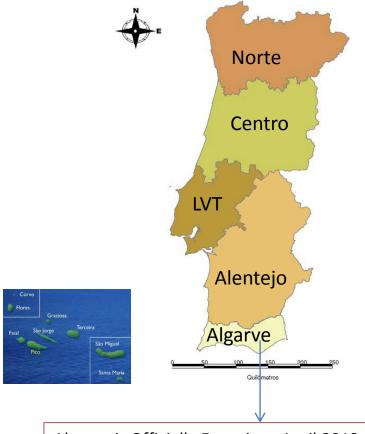
PAFF Standing Committee Brussels, 7-8 July 2015



Characterization 2014 – Mainland & Azores

### Approved by Commission Decision 2013/722/UE

Regions	Number of herds	Number of animals
Norte	17 333	256 472
Centro	6 350	118 247
LVT	1 080	85 409
Alentejo	4 196	533 978
Açores	4 619	131 414
TOTAL	33 578	1 125 520



Algarve is Officially Free since April 2012 (Commission Decision 2012/204/EU)



Strategy 2014

### Officially brucellosis free and Free herds - annual herd screening test

- → Rose Bengal Test (RBT) to all animals over 12 months
- → If RBT positive results are found → samples are submitted to Complement Fixation Test (CFT)

Control of animal movement control and pre-movement testing



Strategy 2014

In positive suspended herds (at least 1 animal RB positive and CFT >= 20 IU/mL)

- Farmer is notified by DSAVR herd is under sanitary sequestration
- Animal movement is prohibited unless for immediate slaughter
- Control of milk according with Reg. 853/2004
- Positive animals are marked, collected and slaughter under official control, in the 30 days following the date of notification
- Samples are collected from slaughtered animals of B3/B4 suspended herds and submitted to bacteriology
- Remaining animals are submitted to a serological control within 30 days after the withdrawal to slaughter of positive animals
- Suspended status is lifted with 2 consecutive negative tests to all animals over 12 months of age, with 30 and 60 days interval



Strategy 2014

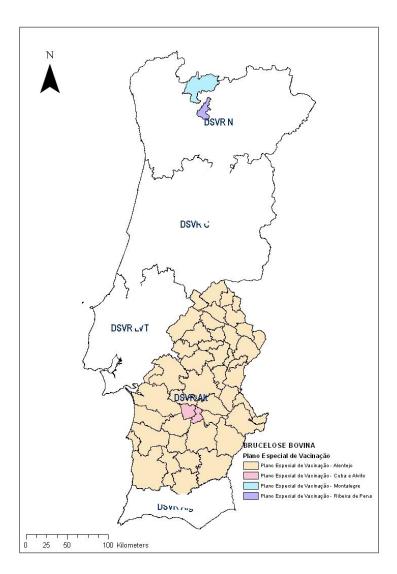
#### In infected herds:

- → **Epidemiological evaluation** and identification of contact herds and possible sources of infection
- Decision on stamping out
- Supervision of cleaning and disinfection of premises, equipment and other utensils when herd is depopulated

In total, lifting of restrictions require, from infected to officially free status, 4 negative surveys covering all animals over 6 months of age, with 30, 60, 90 and 90 days intervals



Strategy 2014



### **RB51 Vaccination Programmes**

### Mainland:

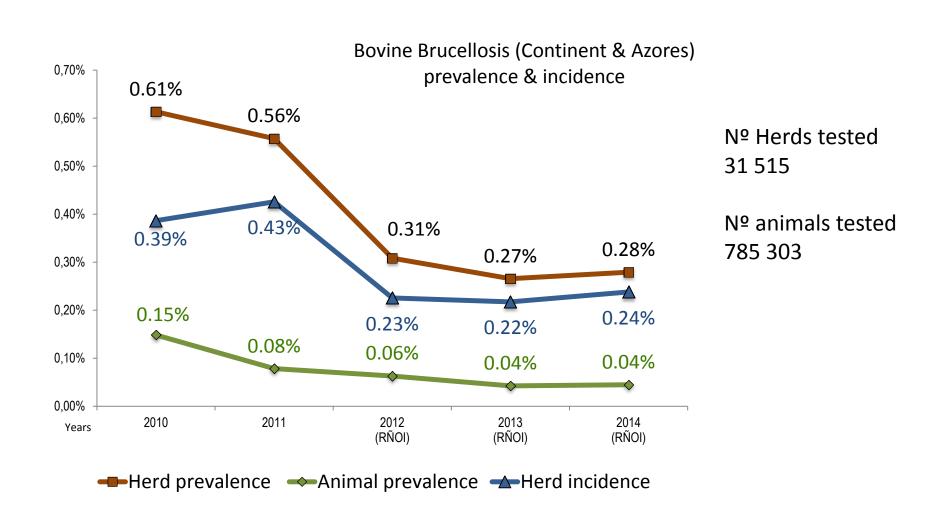
- ✓ Montalegre and Vieira do Minho
- ✓ Ribeira de Pena
- ✓ Alentejo Region
- ✓ Cuba/Alvito (at Atentejo Region)

### Autonomous Region of Azores:

- ✓ Terceira
- ✓ São Jorge
- ✓ São Miguel



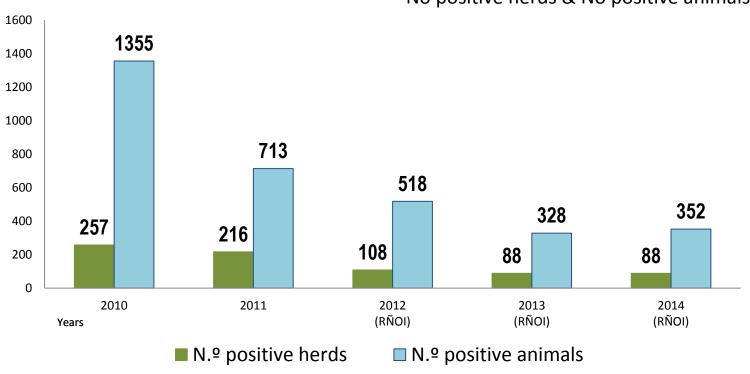






Results 2014

Bovine Brucellosis (Continent & Azores) No positive herds & No positive animals



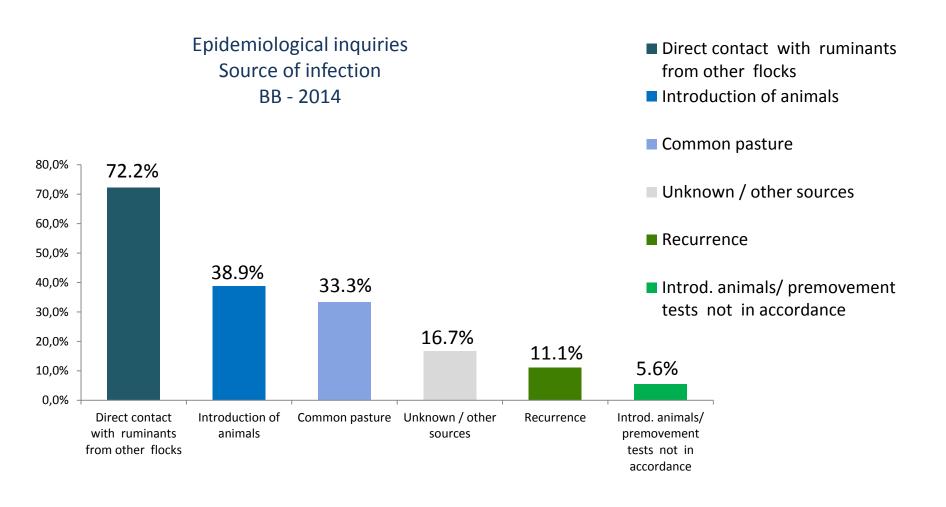
**8 holdings with bacterial isolation** (13%, n=62)

6 by *B. abortus* and 2 by *B. melitensis* 



Regions	Number of positive herds	Number of new positive herds	% positive herds	% new positive herds
Norte	39	28	0.23	0.16
Centro	4	4	0.06	0.06
LVT	0	0	0	0.00
Alentejo	25	24	0.60	0.58
Açores	20	19	0.69	0.66
TOTAL	88	75	0.28	0.24







Results 2014

### Vaccination programme

BB 2014	TOTAL	Norte	Alentejo	Açores
N.º vaccinated herds	2 717	517	16	2 184
N.º vaccinated animals	25 194	1 309	1 238	22 647



Results 2014

### **Ongoing work**

### Regions with favourable indicators of evolution of the disease

- Additional measures for a better understanding of possible cases of False Positive Serological Reactions
- Herd depopulation

### Regions with more difficulties in decreasing prevalence

- Thorough epidemiological investigation of outbreak's
- Animal movement control
- Reinforcement of vaccination
- Improve quality of bacteriological investigation





# Implementation of Sheep and Goats Brucellosis Eradication Programme in Portugal 2014

PAFF Standing Committee Brussels, 7-8 July 2015

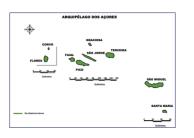




### Characterization 2014

### Approved by Decision 2013/722/UE

Regions	Number of herds	Number of animals
Norte	16 741	419 284
Centro	27 959	551 923
LVT	7 106	184 539
Alentejo	7 926	1 065 055
Algarve	1 224	59 858
TOTAL	60 873	2 280 659



The Autonomous Region of Azores is Officially Free of *Brucella melitensis* 

Commission Decision 2003/644/CE, 17th January





Strategy 2014

**Serological** control is mandatory for animals over 6 months or over 3 months in the case of vaccinated with Rev1

In areas where 99.8% of S&G flocks are B3/B4, the representative fraction of the population over the age of 6 months to be tested is the following:

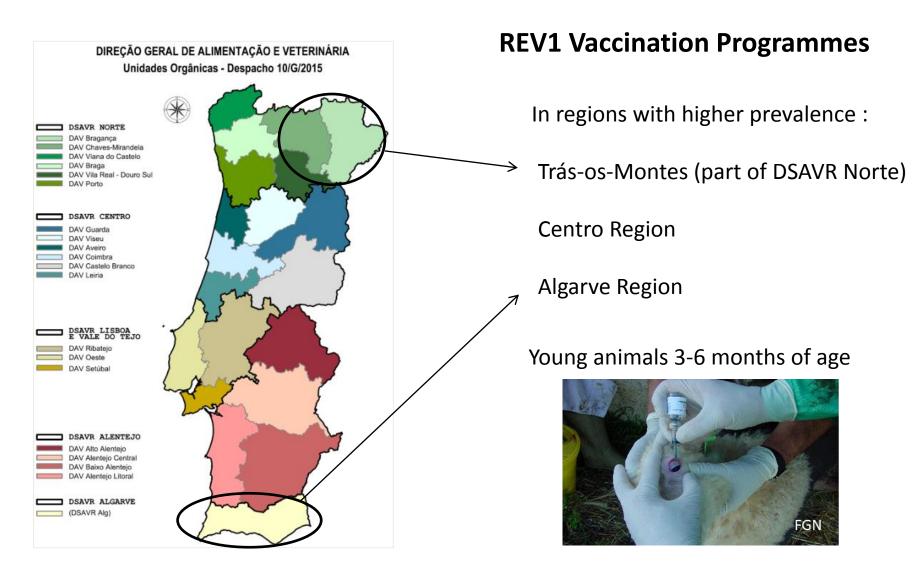
- all non-castrated male
- all animals brought into the holding
- reproductive females

Measures in positive and infected flocks are identical to those applied in bovines

N.º of females at	N.º of females to	
reproductive age	be tested	
0 - 50	all	
50 - 200	50	
> 200	25%	

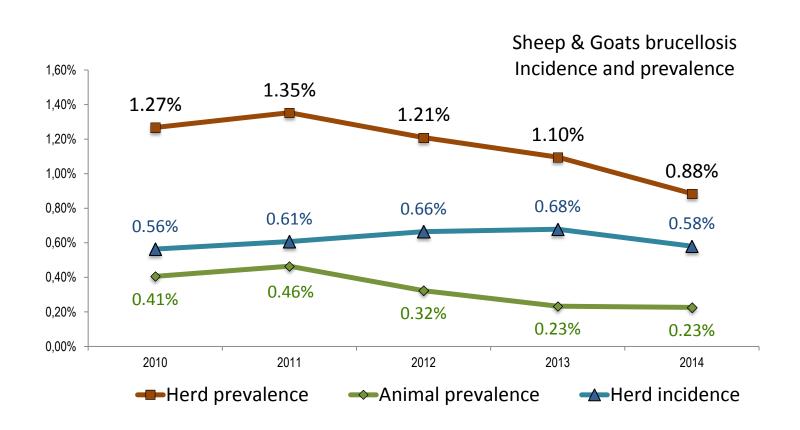


Strategy 2014





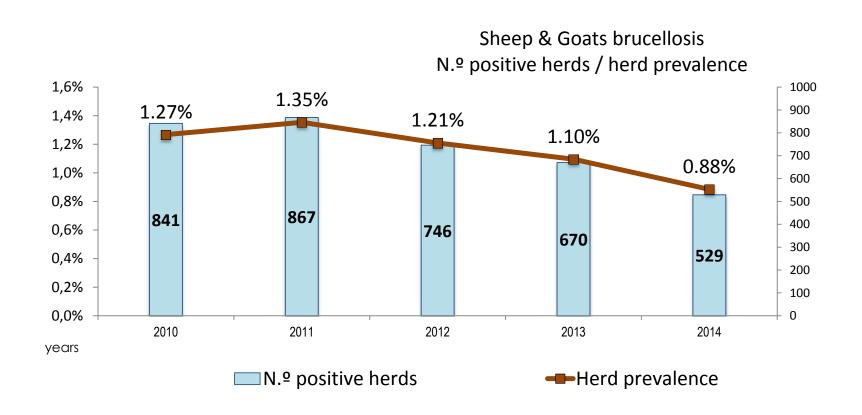
Results 2014



98.2% coverage of herds under the programme 2 124 294 animals controlled



Results 2014

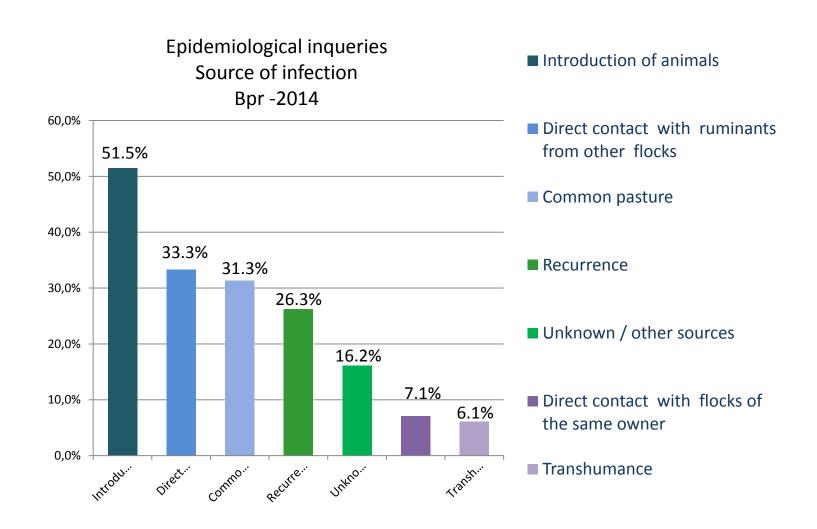


**62 holdings with** *Brucella melitensis* isolation (15.3%, n=404)



Regions	Number of positive herds	Number of new positive herds	% positive herds	% new positive herds
Norte	374	228	2.28	1.39
Centro	35	35	0.13	0.13
LVT	53	36	0.81	0.55
Alentejo	44	39	0.57	0.51
Algarve	23	9	1.88	0.74
TOTAL	529	347	0.88	0.58







Results 2014

### Vaccination programme

2014	TOTAL	Norte	Centro	Alentejo	Algarve
N.º vaccinated flocks	2 827	2 411	327	25	64
N.º vaccinated animals	32 379	25 203	5 530	833	813



### **Ongoing work**

### Regions with favourable indicators of evolution of the disease

- Additional measures for a better understanding of possible cases of False Positive Serological Reactions

### Regions with more difficulties in decreasing prevalence

- Thorough epidemiological investigation of outbreaks
- Animal movement control
- Reinforce of vaccination
- Investigate interference of vaccination in the serological diagnosis
- Revision of quality of bacteriological investigation



### **Notified human cases**

Year	N.º of human cases
2010	86
2011	79
2012	47
2013	35
2014	52

Data from the Directorate-General of Health (DGS)





# Thank You for your attention



