



# Better Training for Safer Food BTSF

**Epidemic emergencies: What are  
epidemic emergencies?**

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# **BETTER TRAINING FOR SAFER FOOD**

## **BTSF**

### **Epidemic emergencies**

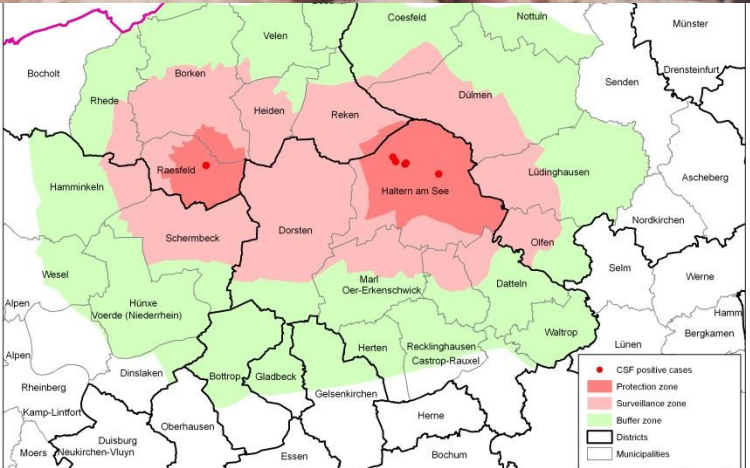
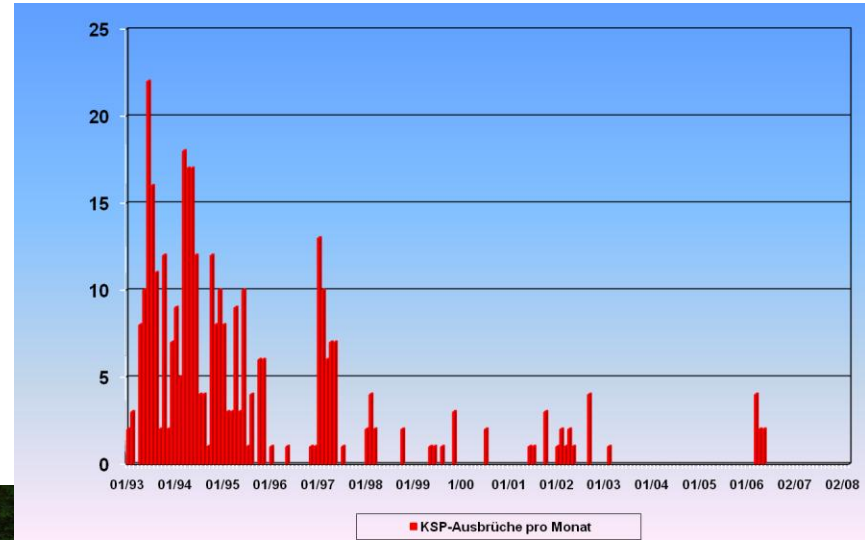
#### *Outline*

- **Definitions and types of diseases**
- **Examples of epidemic emergencies**
- **EU legislation**
- **Disease prevention, control and eradication measures**
- **Economic aspects, trade in livestock and products of animal origin**
- **EU reference laboratories and the veterinary emergency team**
- **National legislation in EU Member States**

## Definitions and types of disease

- **Sporadic disease:** occurs irregularly and haphazardly in time and space, infrequent
- **Endemic disease:** known to be present in the population for a long time
- **Epidemic disease:** occurrence in population or region clearly in excess of normal expectancy
- **Exotic disease:** cross political boundaries, to occur in a country or region in which they are not currently recorded as present
- **Re-emerging disease:** previously defined and known but currently absent in the population of a defined geographical area, re-appearance
- **Emerging disease:** new, previously undefined (unknown), not currently recorded as present, evolution or change in an existing pathogen causing a change of strain, host range, vector, or increase in pathogenicity; or may be the occurrence of any other previously undefined condition
- **Epidemic emergency:** disease outbreak or sudden rise of cases of unusual or severe diseases in a given population of a region, epidemic diseases regardless whether they are exotic, re-emerging or emerging diseases

# Epidemic Emergencies: CSF in Germany

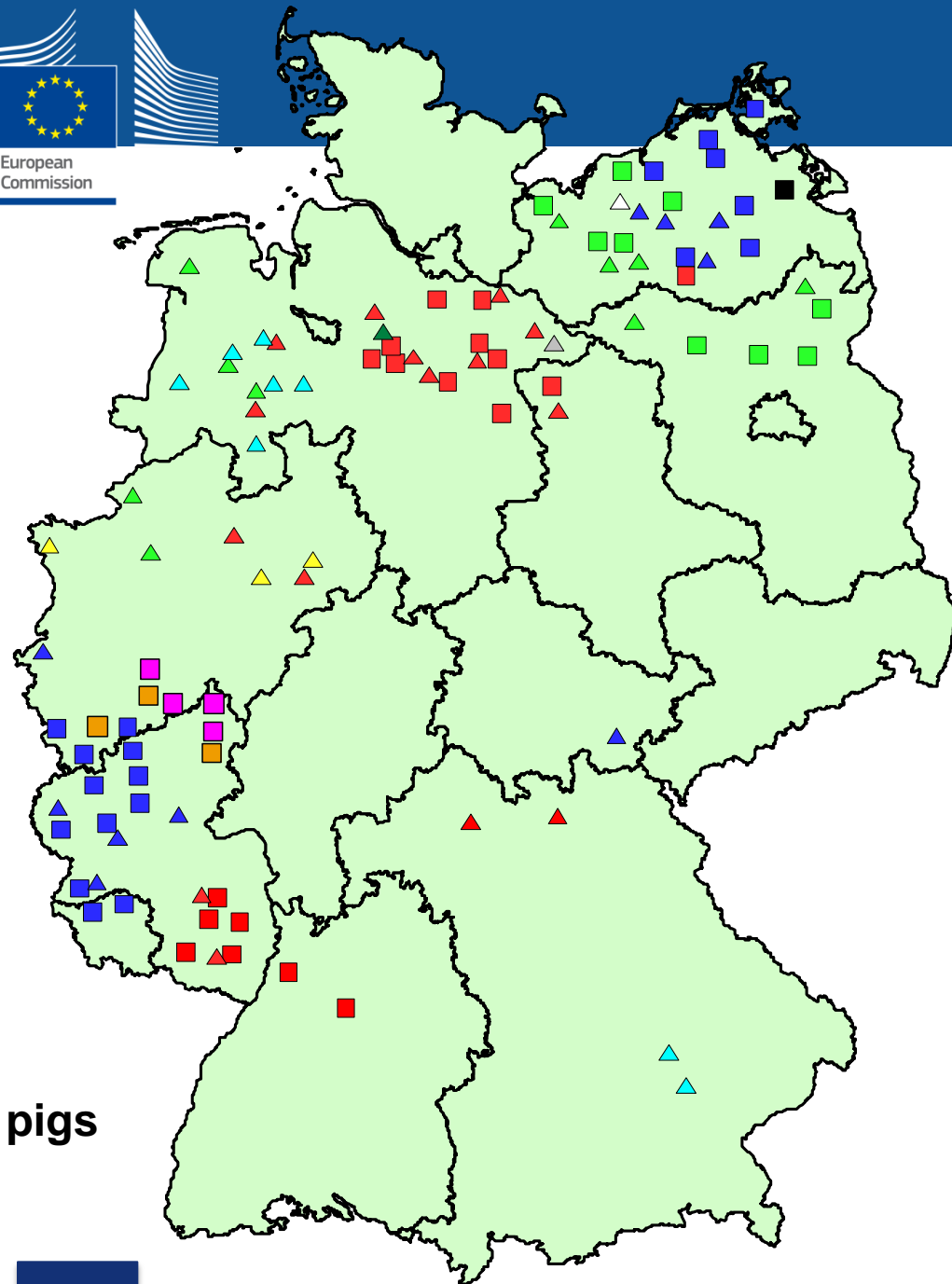


# Genotyping of CSFV Isolates in Germany 1993 - 2009

## Genotypes

-  2.3 Spreda
-  2.3 Uelzen
-  2.3 Rostock
-  2.3 Güstrow
-  2.3 Spante
-  2.2 Ringelsdorf
-  2.1 Paderborn
-  2.3 Rotenburg
-  2.3 Warnow
-  2.3 Rößrath
-  2.3 Euskirchen

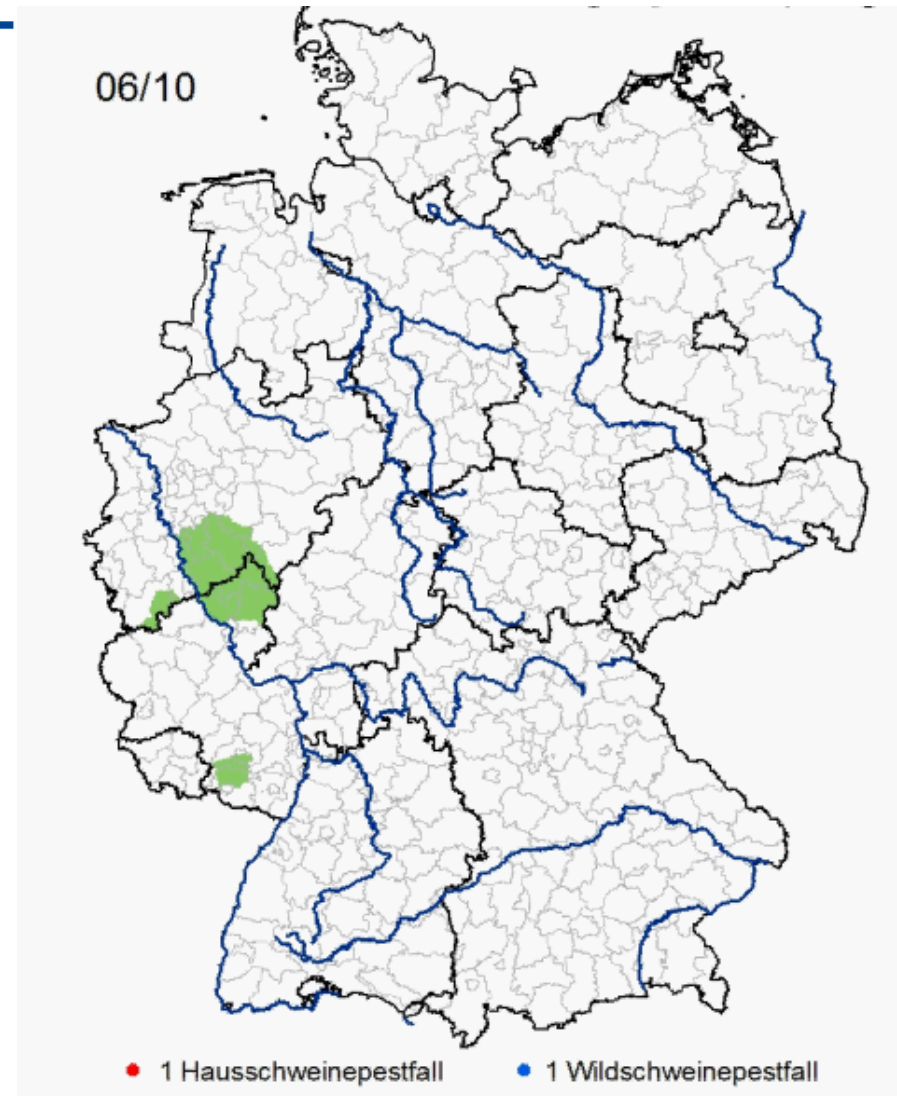
-  Wild boar
-  Domestic pigs



# Epidemic Emergencies:

## The History of CSF in Germany 1995 -2010

- **Outbreaks in domestic pigs  
(1 month)**
- **Cases in wild boar  
(6 months)**
- **Immunisation areas**

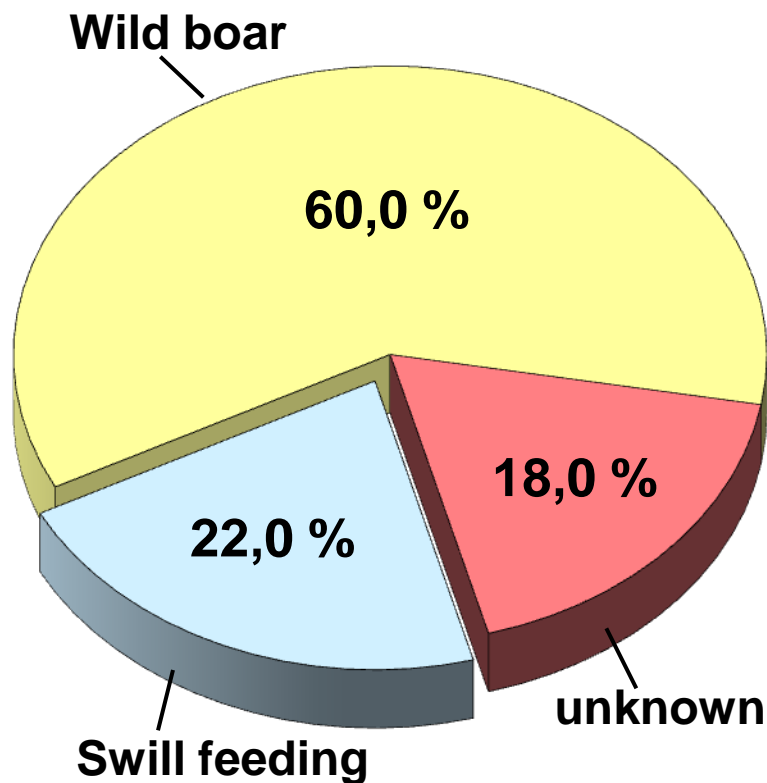




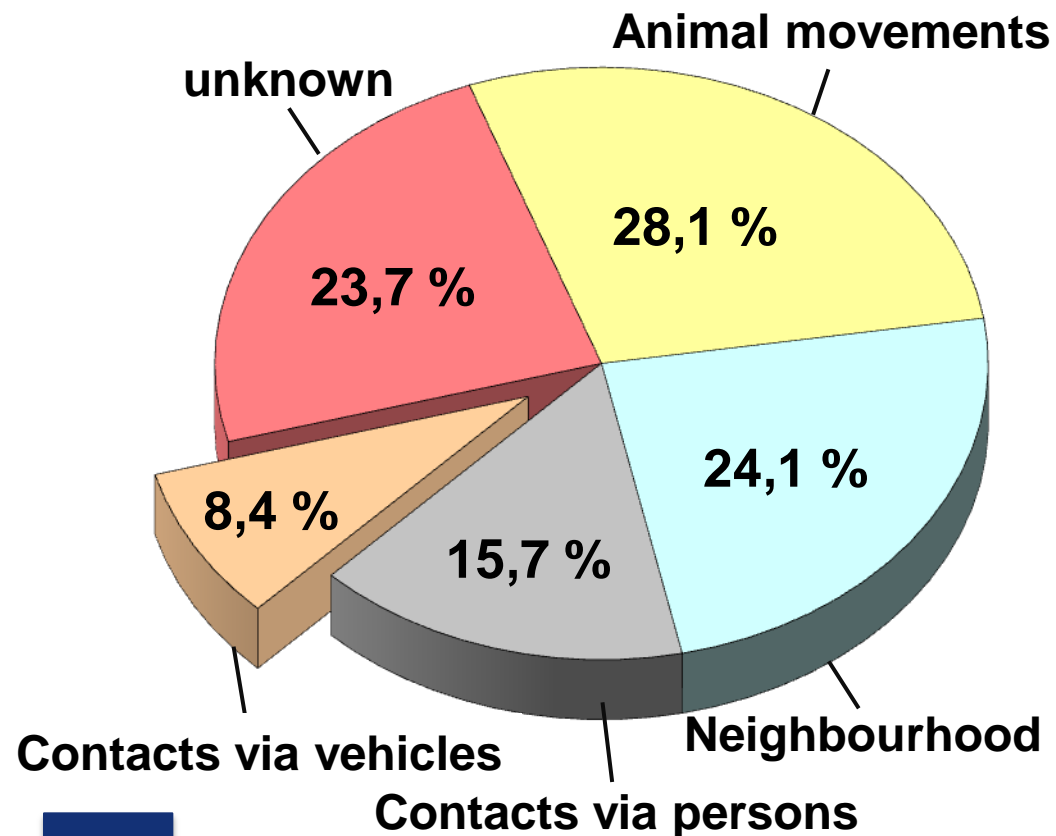
# CSF in Germany - Sources of Infection

## Domestic pigs 1993-2006

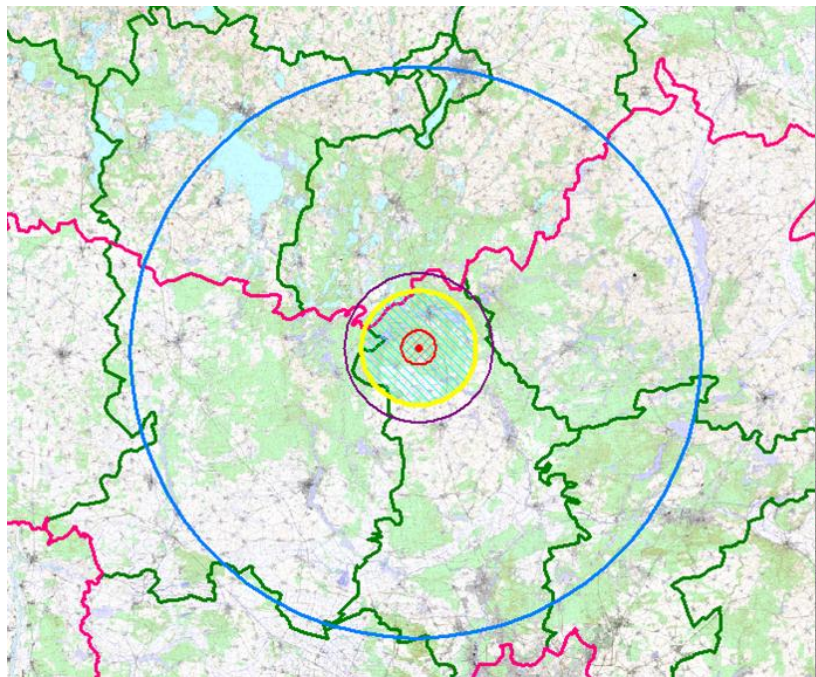
Primary outbreaks (n = 111)



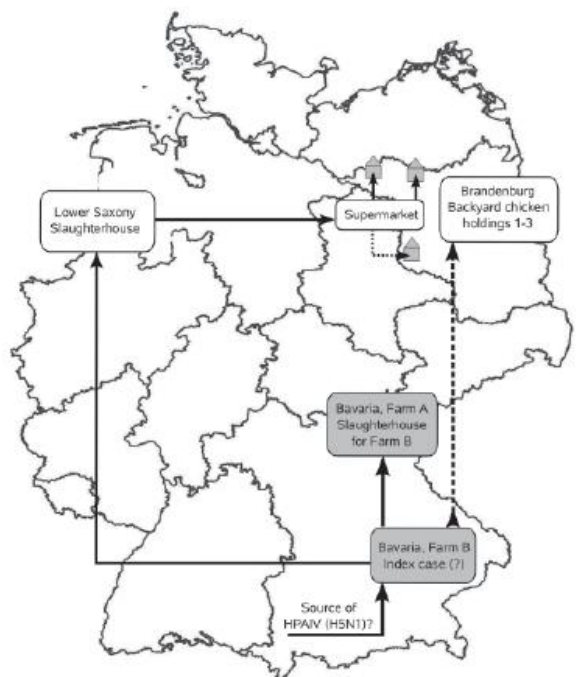
Secondary outbreaks (n = 249)



# Epidemic Emergencies: HPAI in Germany 2007



Seite: 26  
Brandenburg



31.12.2007 Auflage 226851

## Vogelgrippe durch Tiefkühlenten

Geflügel war infiziert – Lieferungen vermutlich bis nach Berlin

VON KATRIN BISCHOFF

**H**ELLENGRABE. Der jüngste Fall von Vogelgrippe in Brandenburg in Blumenthal bei Heiligengrabe (Ostprignitz-Ruppin) ist mit hoher Wahrscheinlichkeit durch Reste einer gefrorenen Ente verursacht worden. „Die Hühner auf dem Hof haben sich für mich eindeutig mit infiziertem Geflügel angesteckt“, sagte gestern Kreisveterinär Matthias Rott. Vermutlich

de wurden überprüft. „Es gab bei den 459 Proben keinen neuen H5N1-Verdachtsfall“, sagte der Veterinärmediziner. Die Kontrolle der Geflügelbestände in der Zehn-Kilometer-Beobachtungszone sei dagegen noch nicht abgeschlossen. Trotzdem es keine neuen Verdachtsfälle im Norden Brandenburgs gibt, wurde die Stallpflicht in Landkreisen Ostprignitz-Ruppin und Prignitz wieder eingeführt. Bisher hatten die Halter hier eine

Nord einer Supermarktkette – und damit eventuell auch in die Hauptstadt. Bisher sei das H5N1-Virus aber weder in Resten der in Allgölow verflitterten Ente noch in sogenannten Rückstellungsproben des niedersächsischen Zulieferers oder in Proben aus Supermärkten festgestellt worden. Da es bisher nur den Verdacht auf illegale Verflitterung von Geflügelresten gebe, sei auch noch keine

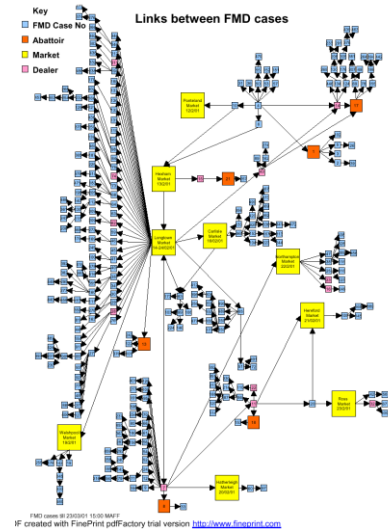
RESEARCH

## Highly Pathogenic Avian Influenza Virus A (H5N1) in Frozen Duck Carcasses, Germany, 2007

Timm C. Harder, Jürgen Teuffert, Elke Starick, Jörn Gethmann, Christian Grund, Sasan Fereidouni, Markus Durban, Karl-Heinz Bogner, Antonie Neubauer-Juric, Reinhard Repper, Andreas Hlinak, Andreas Engelhardt, Axel Nöckler, Krzysztof Smietanka, Zenon Minta, Matthias Kramer, Anja Globig, Thomas C. Mettenleiter, Franz J. Conraths, and Martin Beer



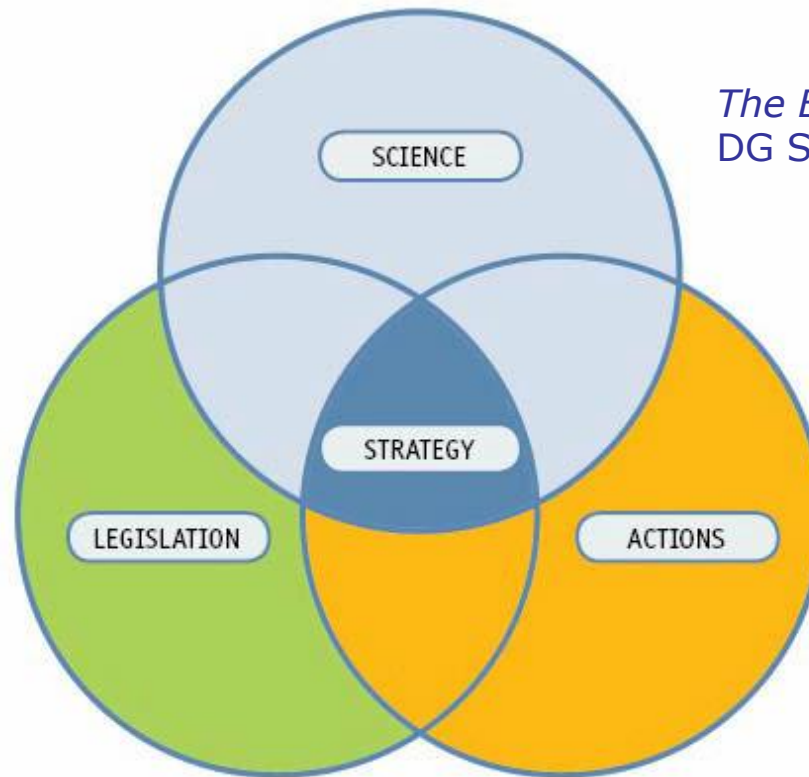
# Epidemic Emergencies: FMD in the UK 2001



24 11:20



# EU Legislation and EU Veterinary Strategy – The Principle



*The EU Veterinarian,  
DG SANCO, 2008*

# EU Legislation – The Main Instruments

- **Regulations:** binding and directly applicable in their entirety; if applicable, only national measures or laws need to be passed for enforcement for certain technical details or to provide for sanctions
- **Directives:** binding MS as regards the objectives to be achieved, transposition into national legislation allows for a margin of maneuver as to form and means of implementation, e.g. Council Directive on measures for the control of classical swine fever (2001/89/EC)

# EU Legislation – The Main Instruments

- **Decisions:** fully binding to whom they are directed (e.g. MS, a legal entity or an individual), used when the Commission orders measures to be implemented in a separate or individual case, e.g. Commission decision (2002/106/EC) approving a Diagnostic Manual for CSF
- **Further instruments:**
  - **Agreements**
  - **Declarations**
  - **Resolutions**
  - **Recommendations and opinions**
  - **Conventions**



# „Vertical“ EU Legislation – Directives

- **FMD:** Community measures for the control of foot-and-mouth disease... (2003/85/EC)
- **CSF:** Community measures for the control of classical swine fever (2001/89/EC)
- **Avian Influenza:** Community measures for the control of avian influenza ... (2005/94/EC)
- **ASF:** Specific provisions for the control of African swine fever and amending Directive 92/119/EEC as regards Teschen disease and African swine fever (2002/60/EC)
- **AHS:** Control rules and measures to combat African horse sickness (92/35/EEC)
- **SVD and certain other diseases:** General Community measures for the control of certain animal disease and specific measures relating to swine vesicular disease (92/119/EEC)



## Commission Decisions Approving Diagnostic Manuals as Disease Detection Standards

- **CSF:** Establishing diagnostic procedures, sampling methods and criteria for evaluation of laboratory tests for the confirmation of CSF (2002/106/EC)
- **Avian Influenza:** Diagnostic Manual for avian influenza as provided for in Council Directive 2005/94/EC (2006/437/EC)
- **ASF:** Approving an African swine fever diagnostic manual (2003/422/EC)
- ...



# Disease prevention, control and eradication measures

## Disease prevention:

- Prevention of disease incursions by trade, traffic (private, commercial) or any other movements e.g. Safeguard measures concerning Third countries
- Prevention of spread within the EU, within member states and regions e.g. Intra-EU safeguard decisions
- Prevention of spread to Third Countries

# Disease prevention, control and eradication measures

## Control measures:

- Reduction of prevalence and incidence to a level where it is no longer considered a major health and/or an economical problem
- Compatible with the existence of a limited number of cases or outbreaks
- Living with the disease

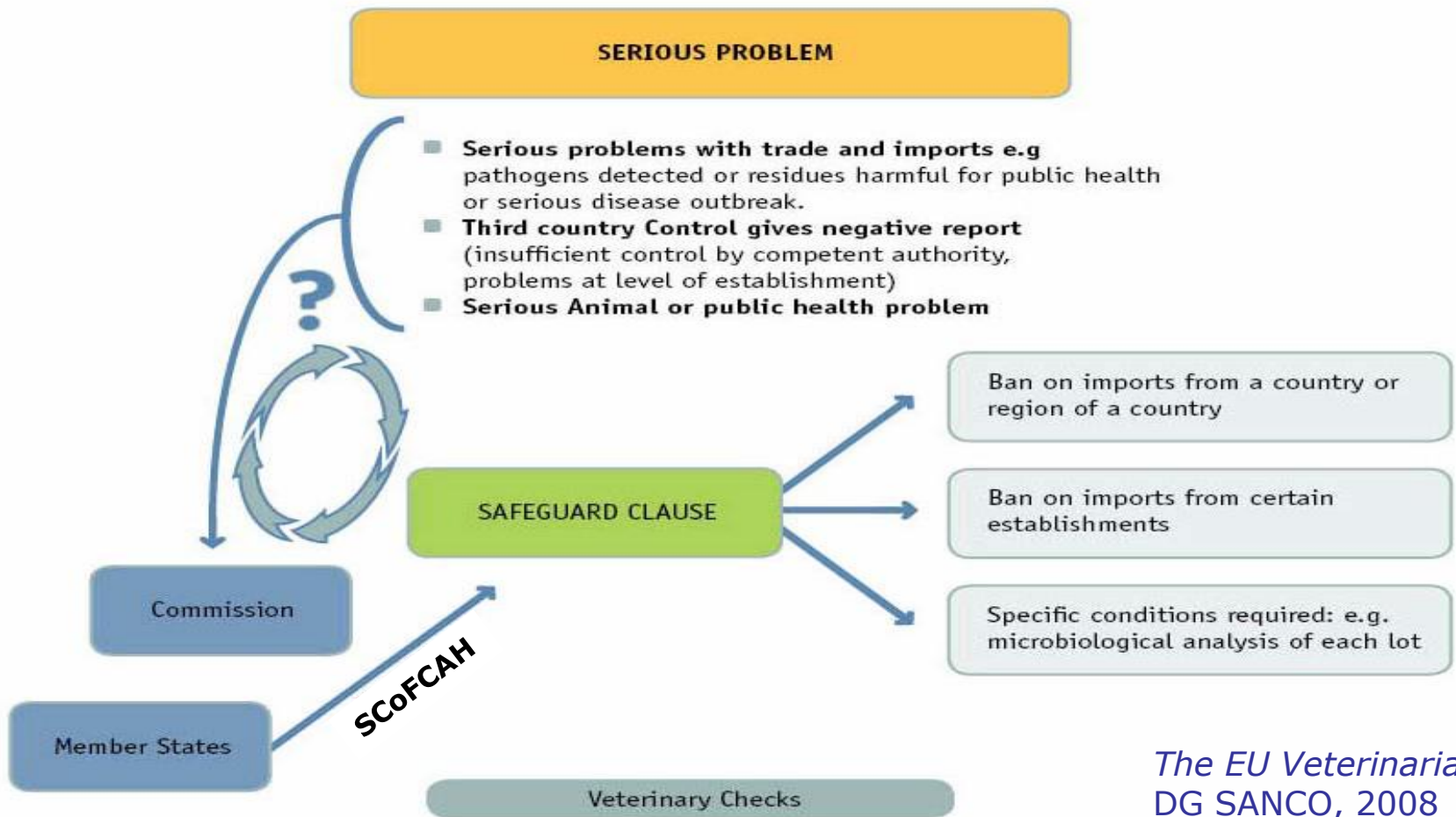
# Disease prevention, control and eradication measures

## Eradication measures:

- Elimination of the disease due to the removal of its cause
- Include elimination of both clinical cases and the pathogen
- Future cases are impossible

# Disease prevention

## Prevention of incursion

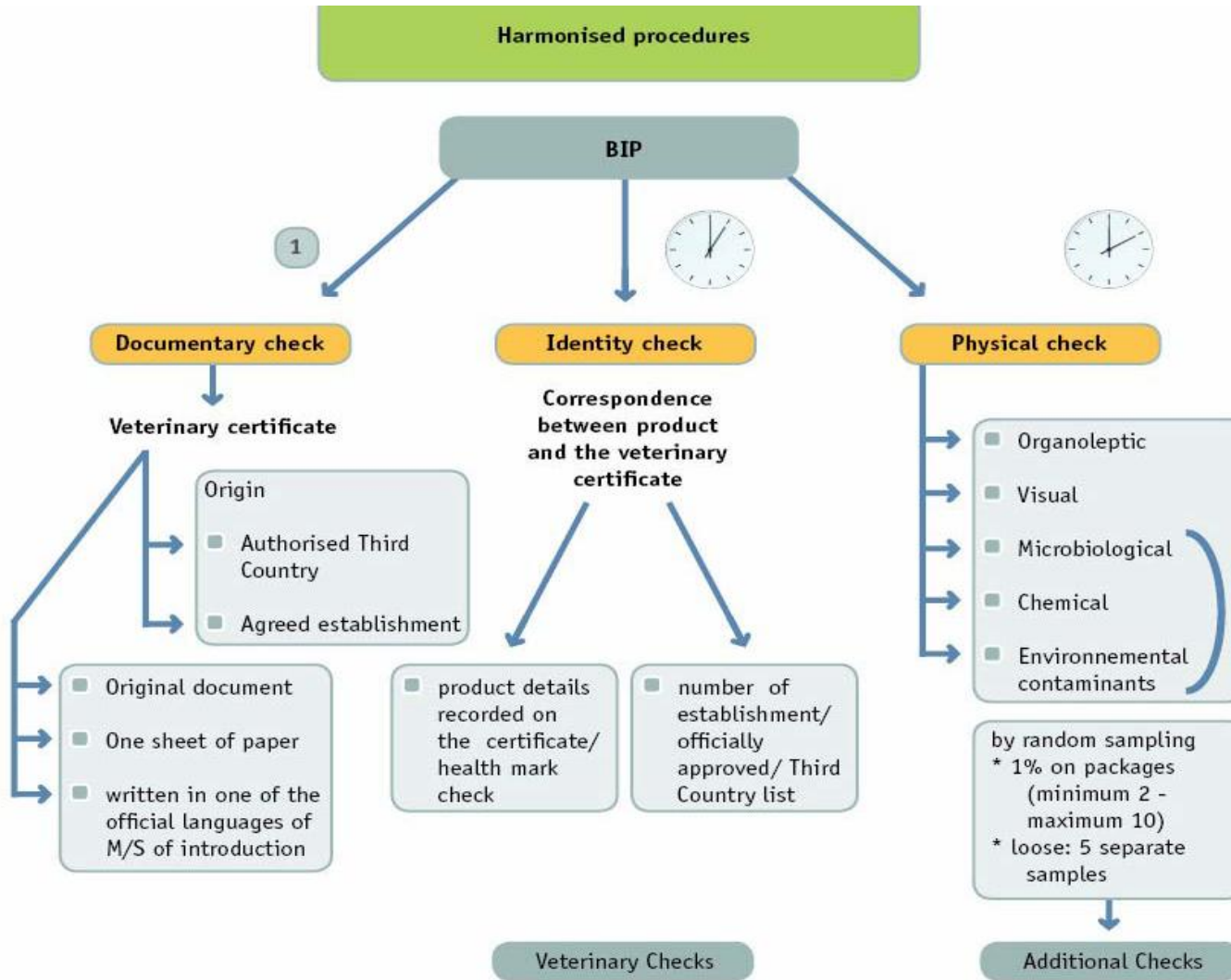






# Disease prevention

## Border inspection posts



# Economic aspects, trade in livestock and products of animal origin

## ➤ Economic aspects:

- Economic impact of disease emergencies disastrous for MS
- Long-lasting effects on intra-community trade and trade with Third Countries
- Compensation schemes



**Keep infectious animal diseases out of the European Union!**

Products of animal origin may carry pathogens that cause infectious diseases in animals



There are strict procedures and veterinary controls on the introduction of products of animal origin into the European Union

**Travellers (!) must surrender these products for official controls**

(!) Other than those withing rules and quantities for personal consumption/requirements. See Annex 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1I, 1J, 1K, 1L, 1M, 1N, 1O, 1P, 1Q, 1R, 1S, 1T, 1U, 1V, 1W, 1X, 1Y, 1Z, 1AA, 1AB, 1AC, 1AD, 1AE, 1AF, 1AG, 1AH, 1AI, 1AJ, 1AK, 1AL, 1AM, 1AN, 1AO, 1AP, 1AQ, 1AR, 1AS, 1AT, 1AU, 1AV, 1AW, 1AX, 1AY, 1AZ, 1BA, 1BB, 1BC, 1BD, 1BE, 1BF, 1BG, 1BH, 1BI, 1BJ, 1BK, 1BL, 1BM, 1BN, 1BO, 1BP, 1BQ, 1BR, 1BS, 1BT, 1BU, 1BV, 1BW, 1BX, 1BY, 1BZ, 1CA, 1CB, 1CC, 1CD, 1CE, 1CF, 1CG, 1CH, 1CI, 1CJ, 1CK, 1CL, 1CM, 1CN, 1CO, 1CP, 1CQ, 1CR, 1CS, 1CT, 1CU, 1CV, 1CW, 1CX, 1CY, 1CZ, 1DA, 1DB, 1DC, 1DD, 1DE, 1DF, 1DG, 1DH, 1DI, 1DJ, 1DK, 1DL, 1DM, 1DN, 1DO, 1DP, 1DQ, 1DR, 1DS, 1DT, 1DU, 1DV, 1DW, 1DX, 1DY, 1DZ, 1EA, 1EB, 1EC, 1ED, 1EE, 1EF, 1EG, 1EH, 1EI, 1EJ, 1EK, 1EL, 1EM, 1EN, 1EO, 1EP, 1EQ, 1ER, 1ES, 1ET, 1EU, 1EV, 1EW, 1EX, 1EY, 1EZ, 1FA, 1FB, 1FC, 1FD, 1FE, 1FF, 1FG, 1FH, 1FI, 1FJ, 1FK, 1FL, 1FM, 1FN, 1FO, 1FP, 1FQ, 1FR, 1FS, 1FT, 1FU, 1FV, 1FW, 1FX, 1FY, 1FZ, 1GA, 1GB, 1GC, 1GD, 1GE, 1GF, 1GG, 1GH, 1GI, 1GJ, 1GK, 1GL, 1GM, 1GN, 1GO, 1GP, 1GQ, 1GR, 1GS, 1GT, 1GU, 1GV, 1GW, 1GX, 1GY, 1GZ, 1HA, 1HB, 1HC, 1HD, 1HE, 1HF, 1HG, 1HH, 1HI, 1HJ, 1HK, 1HL, 1HM, 1HN, 1HO, 1HP, 1HQ, 1HR, 1HS, 1HT, 1HU, 1HV, 1HW, 1HX, 1HY, 1HZ, 1IA, 1IB, 1IC, 1ID, 1IE, 1IF, 1IG, 1IH, 1II, 1IJ, 1IK, 1IL, 1IM, 1IN, 1IO, 1IP, 1IQ, 1IR, 1IS, 1IT, 1IU, 1IV, 1IW, 1IX, 1IY, 1IZ, 1JA, 1JB, 1JC, 1JD, 1JE, 1JF, 1JG, 1JH, 1JI, 1JJ, 1JK, 1JL, 1JM, 1JN, 1JO, 1JP, 1JQ, 1JR, 1JS, 1JT, 1JU, 1JV, 1JW, 1JX, 1JY, 1JZ, 1KA, 1KB, 1KC, 1KD, 1KE, 1KF, 1KG, 1KH, 1KI, 1KJ, 1KK, 1KL, 1KM, 1KN, 1KO, 1KP, 1KQ, 1KR, 1KS, 1KT, 1KU, 1KV, 1KW, 1KX, 1KY, 1KZ, 1LA, 1LB, 1LC, 1LD, 1LE, 1LF, 1LG, 1LH, 1LI, 1LJ, 1LK, 1LL, 1LM, 1LN, 1LO, 1LP, 1LQ, 1LR, 1LS, 1LT, 1LU, 1LV, 1LW, 1LX, 1LY, 1LZ, 1MA, 1MB, 1MC, 1MD, 1ME, 1MF, 1MG, 1MH, 1MI, 1MJ, 1MK, 1ML, 1MM, 1MN, 1MO, 1MP, 1MQ, 1MR, 1MS, 1MT, 1MU, 1MV, 1MW, 1MX, 1MY, 1MZ, 1NA, 1NB, 1NC, 1ND, 1NE, 1NF, 1NG, 1NH, 1NI, 1NJ, 1NK, 1NL, 1NM, 1NN, 1NO, 1NP, 1NQ, 1NR, 1NS, 1NT, 1NU, 1NV, 1NW, 1NX, 1NY, 1NZ, 1OA, 1OB, 1OC, 1OD, 1OE, 1OF, 1OG, 1OH, 1OI, 1OJ, 1OK, 1OL, 1OM, 1ON, 1OO, 1OP, 1OQ, 1OR, 1OS, 1OT, 1OU, 1OV, 1OW, 1OX, 1OY, 1OZ, 1PA, 1PB, 1PC, 1PD, 1PE, 1PF, 1PG, 1PH, 1PI, 1PJ, 1PK, 1PL, 1PM, 1PN, 1PO, 1PP, 1PQ, 1PR, 1PS, 1PT, 1PU, 1PV, 1PW, 1PX, 1PY, 1PZ, 1QA, 1QB, 1QC, 1QD, 1QE, 1QF, 1QG, 1QH, 1QI, 1QJ, 1QK, 1QL, 1QM, 1QN, 1QO, 1QP, 1QQ, 1QR, 1QS, 1QT, 1QU, 1QV, 1QW, 1QX, 1QY, 1QZ, 1RA, 1RB, 1RC, 1RD, 1RE, 1RF, 1RG, 1RH, 1RI, 1RJ, 1RK, 1RL, 1RM, 1RN, 1RO, 1RP, 1RQ, 1RR, 1RS, 1RT, 1RU, 1RV, 1RW, 1RX, 1RY, 1RZ, 1SA, 1SB, 1SC, 1SD, 1SE, 1SF, 1SG, 1SH, 1SI, 1SJ, 1SK, 1SL, 1SM, 1SN, 1SO, 1SP, 1SQ, 1SR, 1SS, 1ST, 1SU, 1SV, 1SW, 1SX, 1SY, 1SZ, 1TA, 1TB, 1TC, 1TD, 1TE, 1TF, 1TG, 1TH, 1TI, 1TJ, 1TK, 1TL, 1TM, 1TN, 1TO, 1TP, 1TQ, 1TR, 1TS, 1TT, 1TU, 1TV, 1TW, 1TX, 1TY, 1TZ, 1UA, 1UB, 1UC, 1UD, 1UE, 1UF, 1UG, 1UH, 1UI, 1UJ, 1UK, 1UL, 1UM, 1UN, 1UO, 1UP, 1UQ, 1UR, 1US, 1UT, 1UU, 1UV, 1UW, 1UX, 1UY, 1UZ, 1VA, 1VB, 1VC, 1VD, 1VE, 1VF, 1VG, 1VH, 1VI, 1VJ, 1VK, 1VL, 1VM, 1VN, 1VO, 1VP, 1VQ, 1VR, 1VS, 1VT, 1VU, 1VV, 1VW, 1VX, 1VY, 1VZ, 1WA, 1WB, 1WC, 1WD, 1WE, 1WF, 1WG, 1WH, 1WI, 1WJ, 1WK, 1WL, 1WM, 1WN, 1WO, 1WP, 1WQ, 1WR, 1WS, 1WT, 1WU, 1WV, 1WW, 1WX, 1WY, 1WZ, 1XA, 1XB, 1XC, 1XD, 1XE, 1XF, 1XG, 1XH, 1XI, 1XJ, 1XK, 1XL, 1XM, 1XN, 1XO, 1XP, 1XQ, 1XR, 1XS, 1XT, 1XU, 1XV, 1XW, 1XX, 1XY, 1XZ, 1YA, 1YB, 1YC, 1YD, 1YE, 1YF, 1YG, 1YH, 1YI, 1YJ, 1YK, 1YL, 1YM, 1YN, 1YO, 1YP, 1YQ, 1YR, 1YS, 1YT, 1YU, 1YV, 1YW, 1YX, 1YY, 1YZ, 1ZA, 1ZB, 1ZC, 1ZD, 1ZE, 1ZF, 1ZG, 1ZH, 1ZI, 1ZJ, 1ZK, 1ZL, 1ZM, 1ZN, 1ZO, 1ZP, 1ZQ, 1ZR, 1ZS, 1ZT, 1ZU, 1ZV, 1ZW, 1ZX, 1ZY, 1ZZ, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2I, 2J, 2K, 2L, 2M, 2N, 2O, 2P, 2Q, 2R, 2S, 2T, 2U, 2V, 2W, 2X, 2Y, 2Z, 3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3I, 3J, 3K, 3L, 3M, 3N, 3O, 3P, 3Q, 3R, 3S, 3T, 3U, 3V, 3W, 3X, 3Y, 3Z, 4A, 4B, 4C, 4D, 4E, 4F, 4G, 4H, 4I, 4J, 4K, 4L, 4M, 4N, 4O, 4P, 4Q, 4R, 4S, 4T, 4U, 4V, 4W, 4X, 4Y, 4Z, 5A, 5B, 5C, 5D, 5E, 5F, 5G, 5H, 5I, 5J, 5K, 5L, 5M, 5N, 5O, 5P, 5Q, 5R, 5S, 5T, 5U, 5V, 5W, 5X, 5Y, 5Z, 6A, 6B, 6C, 6D, 6E, 6F, 6G, 6H, 6I, 6J, 6K, 6L, 6M, 6N, 6O, 6P, 6Q, 6R, 6S, 6T, 6U, 6V, 6W, 6X, 6Y, 6Z, 7A, 7B, 7C, 7D, 7E, 7F, 7G, 7H, 7I, 7J, 7K, 7L, 7M, 7N, 7O, 7P, 7Q, 7R, 7S, 7T, 7U, 7V, 7W, 7X, 7Y, 7Z, 8A, 8B, 8C, 8D, 8E, 8F, 8G, 8H, 8I, 8J, 8K, 8L, 8M, 8N, 8O, 8P, 8Q, 8R, 8S, 8T, 8U, 8V, 8W, 8X, 8Y, 8Z, 9A, 9B, 9C, 9D, 9E, 9F, 9G, 9H, 9I, 9J, 9K, 9L, 9M, 9N, 9O, 9P, 9Q, 9R, 9S, 9T, 9U, 9V, 9W, 9X, 9Y, 9Z, 0A, 0B, 0C, 0D, 0E, 0F, 0G, 0H, 0I, 0J, 0K, 0L, 0M, 0N, 0O, 0P, 0Q, 0R, 0S, 0T, 0U, 0V, 0W, 0X, 0Y, 0Z

# Economic aspects, trade in livestock and products of animal origin

- **Trade in livestock:**
  - Animal health status one of the most important trade criteria
  - Highly sensitive
- **Trade of products of animal origin:**
  - “Farm to fork” approach
  - Placing on the market
  - Import/ transit
  - Export to Third countries



**Keep infectious animal diseases out of the European Union!**

Products of animal origin may carry pathogens that cause infectious diseases in animals



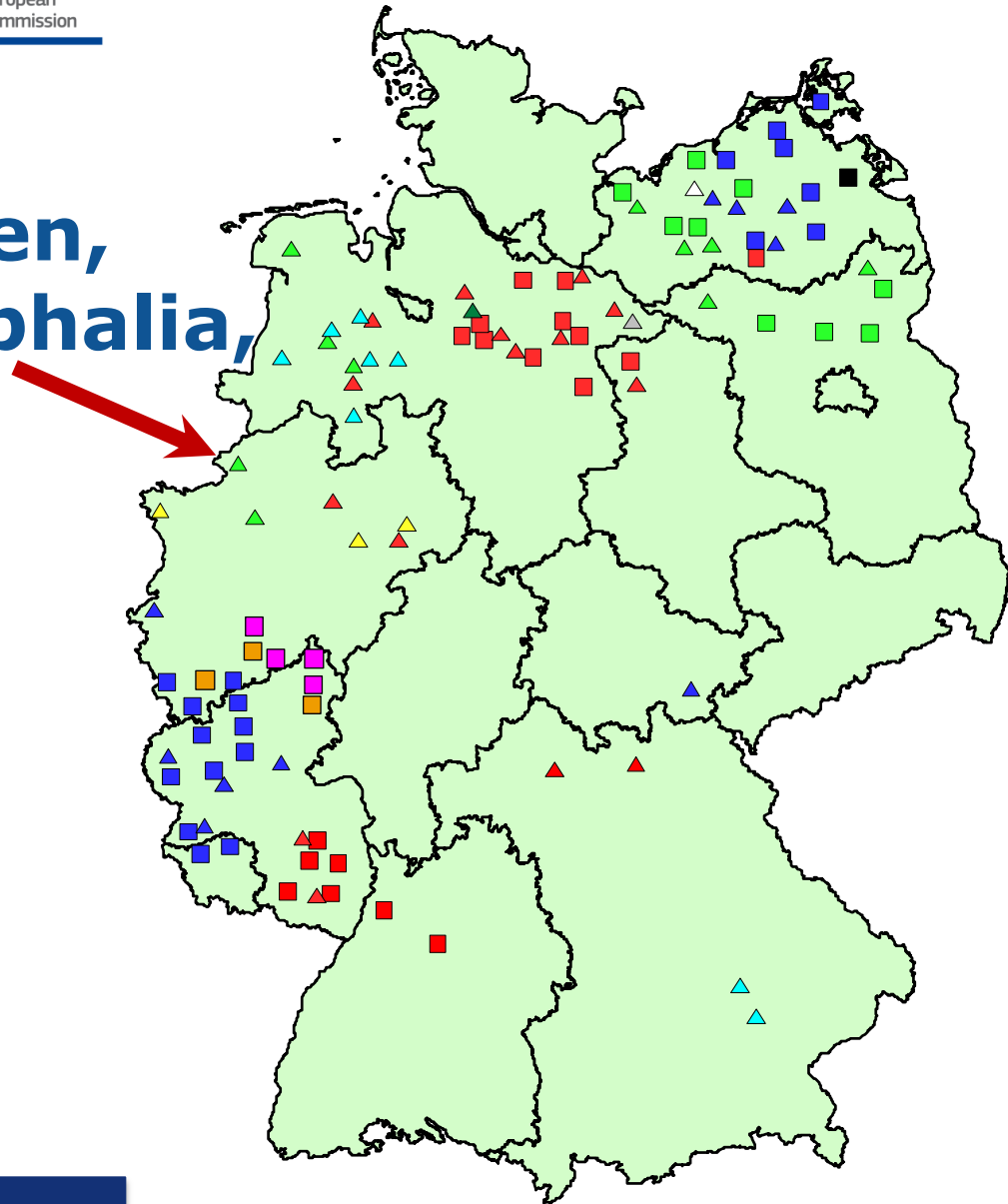
There are strict procedures and veterinary controls on the introduction of products of animal origin into the European Union

**Travellers (\*) must surrender these products for official controls**

(\*) Except those arriving with small quantities for personal consumption from Iceland, the Faroe Islands, Greenland, Iceland, Liechtenstein, Norway, San Marino and Switzerland.



# CSF Outbreak District of Borken, North Rhine -Westphalia, 2006



## Example: CSF Control in the District of Borken, North Rhine-Westphalia, 2006

Event	Amount/Costs
Number of CSF outbreaks	3
Number of farms emptied	186
Number of pigs culled/pre-emptive slaughter	96.708
Number of blood samples taken by official vets	~ 45.000
Number of transport permits (including clinical examination sampling)	~ 8.000
Cleansing/disinfection	815.000 €
Killing teams	330.000 €
Compensation	14.2 Mill. €
Rendering	1.1 Mill. €
Administrative cost of the communal district Borken	~ 500.000 €

Source: Dr. A. Groeneveld, AKNZ, 2012



# Additional aspects as regards trade and the animal health situation within the EU

## Trade:

- Overall increase of trade and movements
- Business traffic and tourism
- Increase of risks
- Drop after outbreaks, recovery period
- Role of veterinary services: shortening the period



# Additional aspects as regards trade and the animal health situation within the EU

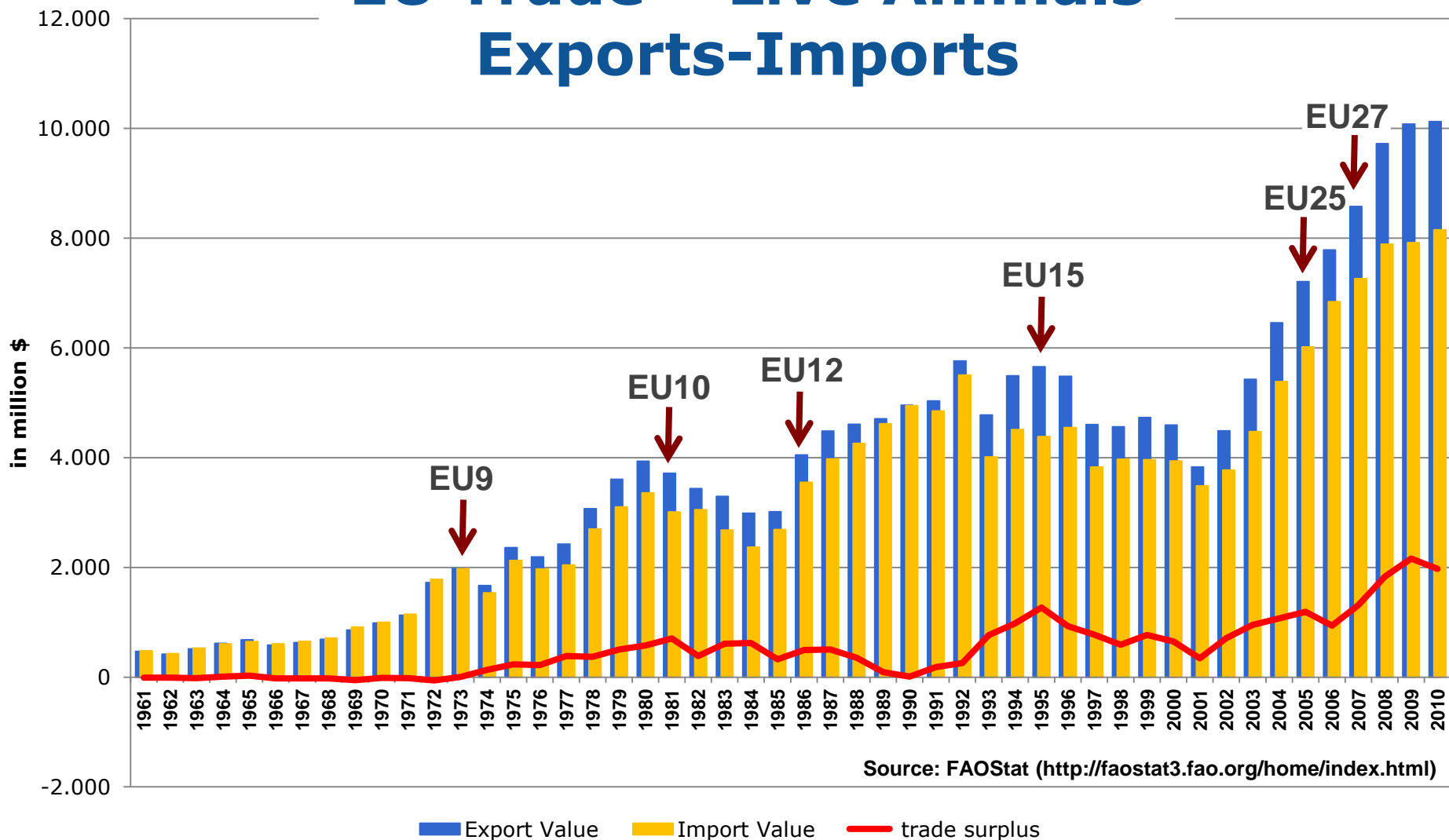
## EU animal health situation:

- Overall good situation
- Many highly contagious diseases have been eradicated in many regions (e.g. CSF, FMD and HPAI)
- Supports increasing competitiveness and free trade



# EU Trade – Live Animals

## Exports-Imports



Source: FAOStat (<http://faostat3.fao.org/home/index.html>)

Export Value    Import Value    trade surplus



# Examples of Increased Risks: Travel by Air



## Arrivals at Airport Cologne/Bonn

Ankunft Arrival		D Ost		
Flug Flight	Herkunft From	Planmäßig Scheduled	Erwartet Expected	Hinweis Remark
SR 3586	Zuerich	19:25	19:40	Ost
DI 7075	Berlin-Tegel	19:40		West
DI 7166	Muenchen	20:00		West
LT 747	Rhodos	20:25		Ost
LT 781	Palma De Mallorca	20:30		West
KL 1813	Amsterdam-Schiphol	20:40		West
AF 2520	Paris-Char.de Gaulle	21:15		West
DI 7077	Berlin-Tegel	21:20		West
AZ 498	Mailand-Malpensa	21:40		West
BA 930	London-Heathrow	21:40		West
DI 7168	Muenchen	21:45		West
SR 3588	Zuerich	21:45		Ost
TK 1685	Ankara	22:25	22:30	Ost
AB 2883	Luxor Hurghada	00:35		Ost
AB 2993	Thessaloniki	00:55		West
HF 4488	Teneriffa	00:55		West

19:4

# Passenger Checks concerning HPAI

**BIP: Airport Frankfurt am Mai, Time: January 2011 – August 2011**

## ***Checks:***

- **risk based selection of countries of origin**  
(particularly Asian and North African countries)
- **31.757 out of 479.370 passengers (6.6%)**
  - ➔ **5.596 passengers (8.2%) with illegal personal consignments (poultry products/byproducts)**

## ***Seizured and destroyed goods:***

- **ca. 5.256 kg food**
- **Byproducts, e. g. a bird's nest from Vietnam**



# Examples of Increased Risks: Travel by Air



Ducks, chicken  
and duck tongues  
from China

RV 7-05-01-2007

CA 935 - Shanghai

20:30

ENTEN + HÜHNER

SOWIE: ENTENZUNGEN



# Examples of Increased Risks: Travel by Air



## Luggage from Albania





# Examples of Increased Risks: Smuggling birds and eggs



17.06.2004

*German „bird collector“ arrested close to the norwegian-finish border near Karigasniemi*

*Norwegian Police found:*

- *122 hatching eggs and*
- *15 juvenile birds*

*Fine: about 7.500 €, paid after 5 days in prison*

*Vehicle belonged to a „wellknown egg collector“ already sentenced in Germany*

*(Source: LUGV Brandenburg)*



**Pictures by Police Karasjok (Norway)**

## EU Reference Laboratories General Responsibilities

- to coordinate the diagnostic methods employed in the MS (cooperation with NRLs)
- to assist actively in the diagnosis of disease outbreaks in MS  
(confirmatory diagnosis/characterisation of pathogen isolates, epizootic studies)
- to train/re-train experts in laboratory diagnosis with a view to the harmonisation of diagnostic techniques

## EU Reference Laboratories General Responsibilities

- to collaborate, as regards methods of diagnosing animal diseases, with the competent laboratories in third countries where those diseases are prevalent
- to conduct training courses for national reference laboratories' staff and experts from developing countries



## Community Reference Laboratory for CSF

University of Veterinary Medicine, Foundation

Institute of Virology

Bünteweg 17, Hanover, Germany



# EU Reference Laboratories

## Specific functions and duties

E. g. Community reference laboratory for CSF\*:

- a) to coordinate the diagnostic methods employed in the Member States, specifically by:
- storing and supplying cell cultures for use in diagnosis
  - typing, storing and supplying strains of CSF virus for serological tests and the preparation of antisera
  - supplying standardised sera, conjugate sera and other reference reagents to the national laboratories in order to standardise the tests and reagents employed in the MS
  - building up and holding a CSF virus collection
  - organising periodic comparative tests of diagnostic procedures at Community level,.....





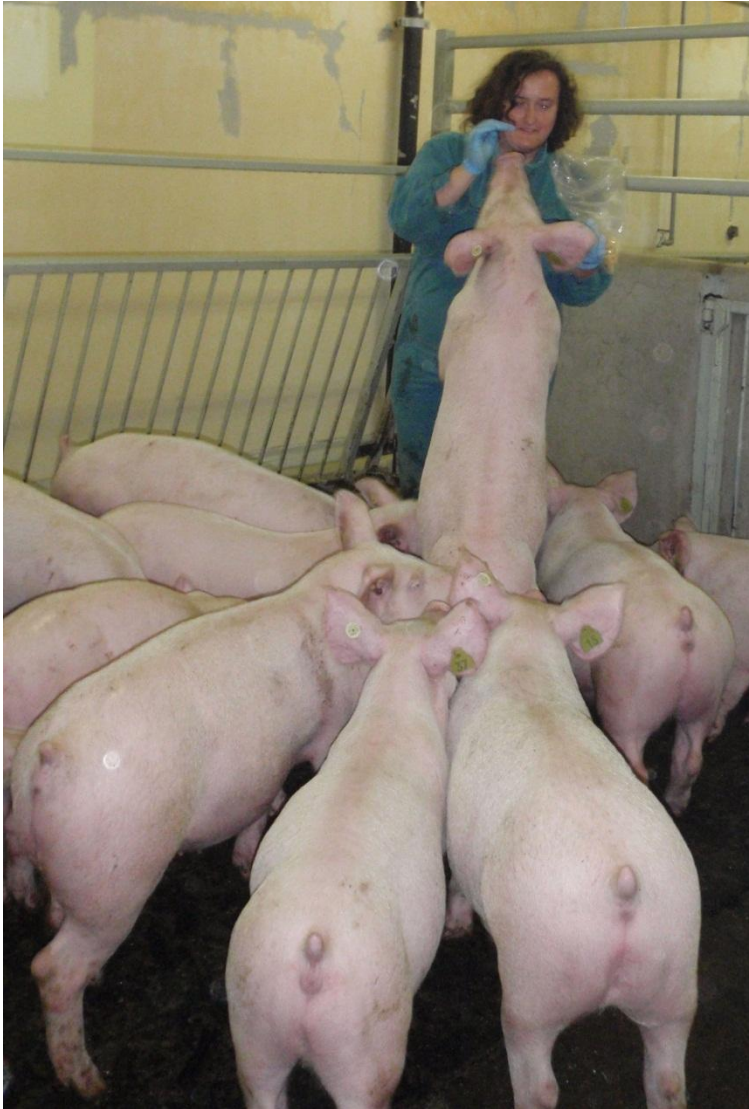
European  
Commission



Source of pictures: Sandra Blome, NRL 2011



European  
Commission



Source of pictures: Sandra Blome, NRL 2011



## EU Reference Laboratories Specific functions and duties

E. g. Community reference laboratory for CSF\*:

- b) to make the necessary arrangements for training or re-training experts in laboratory diagnosis with a view to harmonising diagnostic techniques
- c) to have trained personnel available for emergency situations occurring within the Community
- d) to perform research activities and whenever possible coordinate research activities directed towards an improved control of CSF

# EU Reference Laboratories for Animal Health and Live Animals

1. Classical swine fever
2. African horse sickness
3. Avian influenza
4. Newcastle disease
5. Swine vesicular disease
6. Fish diseases
7. Mollusc diseases
8. Monitoring the effectiveness of rabies vaccination
9. Bluetongue
10. African swine fever
11. Laboratory for zootechnics
12. Foot-and-mouth disease
13. Brucellosis
14. Equine diseases other than African horse sickness
15. Crustacean diseases
16. Rabies
17. Bovine tuberculosis
18. Bee health

REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 29 April 2004 on official controls performed to ensure the verification of compliance with feed and food law, animal health and animal welfare rules (EC) No 882/2004



# Community Veterinary Emergency Team

**COMMISSION DECISION (2007/142/EC)** establishing a Community Veterinary Emergency Team to assist the Commission in supporting Member States and third countries in veterinary matters relating to certain animal diseases

- to provide assistance in the event of outbreaks or suspicion of animal diseases (acc. Council Directive 82/894/EEC) to MS and Third Countries
- specialised team of experts available on request:
  - ➔ **82 experts from 20 Member states**  
(Up-to-date list of experts, 2012)
- cooperation with other international expert teams, i.e. ECDC, FAO, WHO, OIE

# Community Veterinary Emergency Team – Tasks

- Scientific, technical and managerial on-the-spot assistance as regards
    - surveillance
    - monitoring
    - control and eradication of the diseases
- in close coordination and cooperation with the competent authorities of the MS or third country concerned



# Community Veterinary Emergency Team – Tasks

- Specific scientific advice on
  - suitable diagnostic methods
  - epidemiological investigationsin coordination with the concerned CRL
- Specific assistance to ensure coordination among the veterinary services of the MS and third countries and with the concerned CRL



# **ON-THE-SPOT ASSISTANCE AS REGARDS THE SURVEILLANCE, MONITORING, CONTROL AND ERADICATION OF CLASSICAL SWINE FEVER (CSF)**

**MISSION CARRIED OUT IN THE SLOVAK REPUBLIC**

**23 - 25 APRIL 2008**

**SCoFCAH Meeting, Brussels, 07 May 2008**

**Dr. Matthias Kramer**

**Friedrich-Loeffler-Institut, Federal Research Institute of Animal  
Health, Germany**



## Community Veterinary Emergency Team - Missions

No.	Country	Date	Disease
1.	<b>Georgia</b>	June 2007	African Swine Fever
2	<b>Armenia</b>	September 2007	African Swine Fever
3	<b>Cyprus</b>	November 2007	Foot and Mouth Disease
4	<b>Cyprus</b>	November 2007	Foot and Mouth Disease
5	<b>Croatia</b>	February 2008	Classical Swine Fever
6	<b>Croatia</b>	February 2008	Classical Swine Fever
7	<b>Slovakia</b>	April 2008	Classical Swine Fever
8	<b>Netherlands</b>	November 2008	Bluetongue
9	<b>Lithuania</b>	July 2009	Classical Swine Fever
10	<b>Ukraine</b>	August 2010	African Swine Fever
11	<b>Bulgaria</b>	January 2011	Foot and Mouth Disease
12	<b>Bulgaria</b>	February 2011	Foot and Mouth Disease
13	<b>South Africa</b>	May 2011	Highly Pathogenic Avian Influenza
14	<b>Lithuania</b>	July 2011	Classical Swine Fever

# National legislation in EU Member States

- **Based on EU legislation**
- **Country-specific regulations**
- **Enforcement**
- **Compliance**
- **Legislation on punishment and fines**

## Tierseuchengesetz (TierSG)

In der Fassung vom 22. Juni 2004

(BGBl. I S. 1260)

zuletzt geändert durch: Artikel 18 des Gesetzes vom 9. Dezember 2010 (BGBl. I S. 1934)

### § 1

- (1) Dieses Gesetz regelt die Bekämpfung von Tierseuchen. § 79a bleibt unberührt.
- (2) Im Sinne dieses Gesetzes sind
  1. Tierseuchen:  
Krankheiten oder Infektionen mit Krankheitserregern, die bei Tieren auftreten und auf
    - a) Tiere oder
    - b) Menschen (Zoonosen)  
übertragen werden können;
  2. Haustiere:  
vom Menschen gehaltene Tiere einschließlich der Bienen und des Gehegewildes, jedoch ausschließlich der Fische;
  3. Vieh:  
folgende Haustiere:
    - a) Pferde, Esel, Maulesel, Maultiere, Zebras und Zebroide,
    - b) Rinder einschließlich Bisons, Wisente und Wasserbüffel,
    - c) Schafe und Ziegen,
    - d) Schweine.