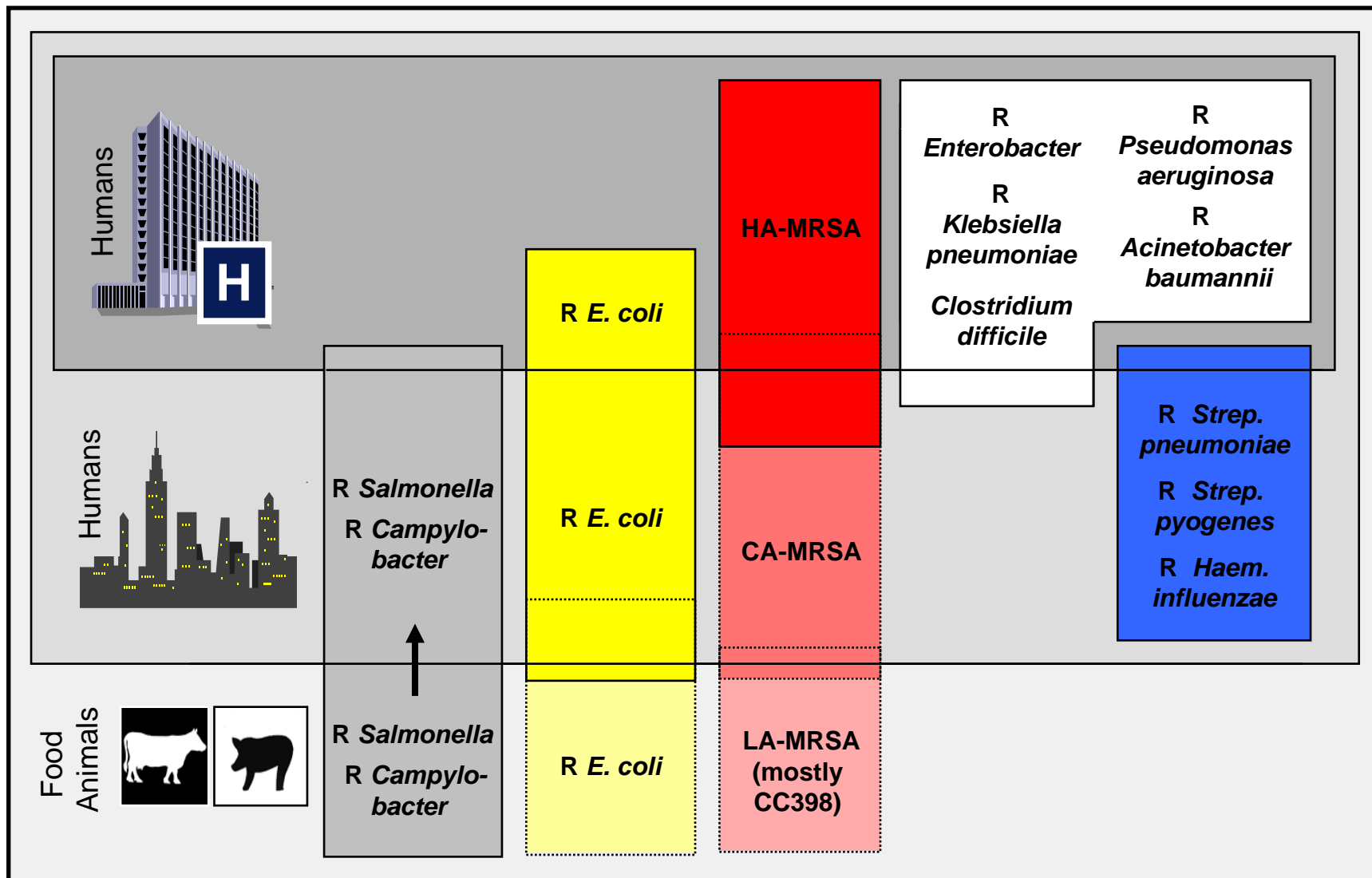


EC activities in the field of antimicrobial resistance



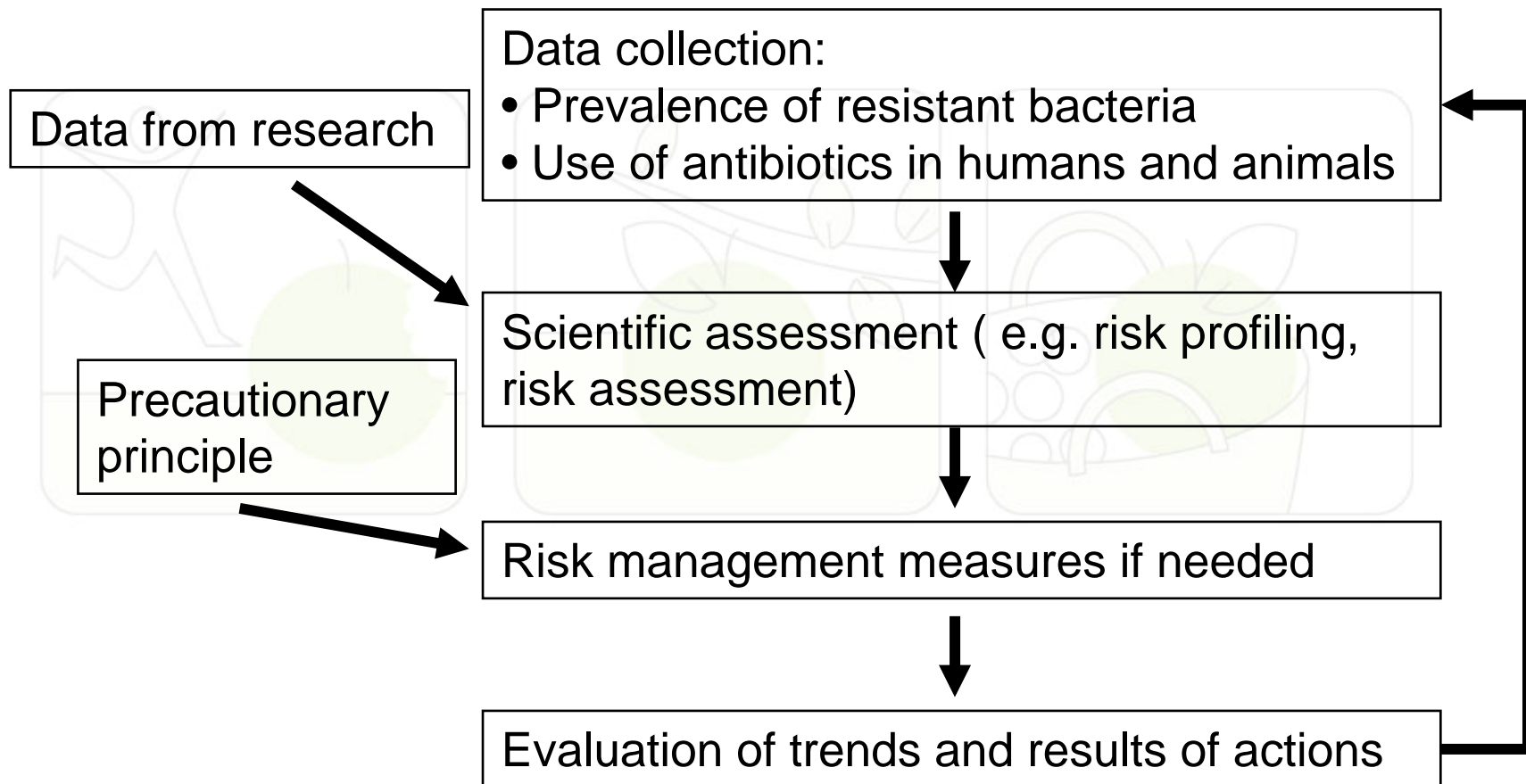
Dr. Kris De Smet
Marienbad, 19-20 May 2009

The public health issue of AMR



The risk analysis of AMR

C
O
M
M
U
N
I
C
A
T
I
O
N



Monitoring of prevalence

- Prevalence in humans: EARSS since 1999
- Prevalence of resistant bacteria in food and animals.
Since 2007: EU harmonisation
 - Adopted Decisions:
 - *Salmonella* isolates in poultry populations and pigs
 - *Campylobacter* isolates from survey in broilers in 2008
 - MRSA prevalence survey in breeding pigs in 2008
 - EFSA recommendations on AMR indicators *E. coli* and *Enterococci*
 - Harmonised with monitoring in humans (EUCAST)
 - Community reference laboratory for AMR
 - Data:
 - 2006 ECDC/EFSA report on zoonoses
 - Specific EFSA reports expected by end of year

Monitoring of use of antibiotics

- Humans: ESAC
- Animals: request to EMEA to provide an EU approach on the collection of data and to manage a data base

Scientific assessment

- Existing reports on zoonotic AMR e.g.:
 - EFSA Opinion on Foodborne AMR as a biological hazard adopted in July 2008
 - EFSA Assessment of the Public Health significance of MRSA in animals and foods
 - EMEA reflection papers on 3th and 4th generation cephalosporins, (fluoro-) quinolones and MRSA
 - Report of FAO/WHO/OIE Expert meeting on Critically Important Antimicrobials
- New initiative: Commission (ENTR/SANCO) request to EMEA/EFSA/ECDC/SCENIHR on a common short report on AMR focussing on zoonotic infections

Request for common short scientific report on zoonotic AMR

- Data on public and animal health problems linked to AMR according to the source of resistance (use of antibiotics in humans, in animals and other sources)
- Priorisation of zoonotic species/agent/antimicrobial combinations of highest concern
- For each combination:
 - Comparison of resistance in human and non-human isolates
 - Link with use of antimicrobials in humans and animals
 - Cross-resistance
 - Burden of disease of resistant infections
 - Exposure through food or contact with animals
 - Alternatives for prevention or treatment of animal diseases
- Areas of innovation and research

Risk management humans

- Authorisation policy on antibiotics
- Council recommendation
2002/77/EC on prudent use of
antimicrobials in human medicine
- European Antibiotic Awareness Day
- Healthcare-associated infections

Risk management: food safety and veterinary aspects

- Authorisation policy on antimicrobials
- *Salmonella* control programmes to achieved targets for reduction in poultry and pigs
- Prohibition to use antimicrobials within the frame of *Salmonella* control programmes in poultry (and pigs?)
- Ban on antibiotics as feed additives (growth promoters)
- Animal health and welfare considerations
- Communication from the Commission on the management of AMR (under development)

Commission Communication on AMR management (1)

- Human aspects and food safety / veterinary aspects
- All relevant DGs involved
- Purpose
 - Inform on ongoing initiatives
 - Start reflections on additional management options
- Presentation: 18 November 2009

Commission Communication on AMR management (2): structure

- Introduction
- Problem definition
- Legal context
- Monitoring activities
- Risk assessment activities
- Risk management activities
- Global link
- Innovation and research activities

Evaluation of trends and results of actions

- Continued or repeated monitoring of AMR prevalence in zoonotic agents and of the use of antibiotics in animals and humans. Annual EFSA/ECDC reports on zoonoses monitoring.
- In 1999, the former Scientific Steering Committee of the Commission adopted already an opinion on AMR with recommendations based on prudent use.
- The opinion was endorsed by OIE and WHO recommendations

Evaluation of effects needed!

COMMUNICATION

- Intra-SANCO task force on AMR (public health, zoonose, animal health, animal nutrition and international units)
- Coordination meetings with Commission DGs involved and related agencies: EMEA, EFSA, ECDC, CRL
- Increasing number of meetings, working groups with participants of other DGs and agencies

International activities

- CODEX alimentarius task force
- OIE
- WHO
- Trade impact ?

Conclusions

- Comprehensive strategy on AMR in zoonotic infections in collaboration with ENTR and relevant EU agencies
- Need for open discussion without prejudices

Useful links:

- SANCO:
http://ec.europa.eu/health/ph_threats/com/mic_res/ev_20080117_en.htm
- ECDC:
http://www.ecdc.europa.eu/en/Activities/Disease_Projects/_amr/Default.aspx
- EFSA scientific opinions (food-borne AMR, MRSA, ...):
http://www.efsa.europa.eu/EFSA/ScientificPanels/BIOHAZ/efsa_locale-1178620753812_Opinions435.htm
- EFSA zoonoses monitoring:
http://www.efsa.europa.eu/EFSA/ScientificPanels/efsa_locale-1178620753812_ZOONOSES.htm