

Strategy on Antibiotic Resistance



One Health 2017



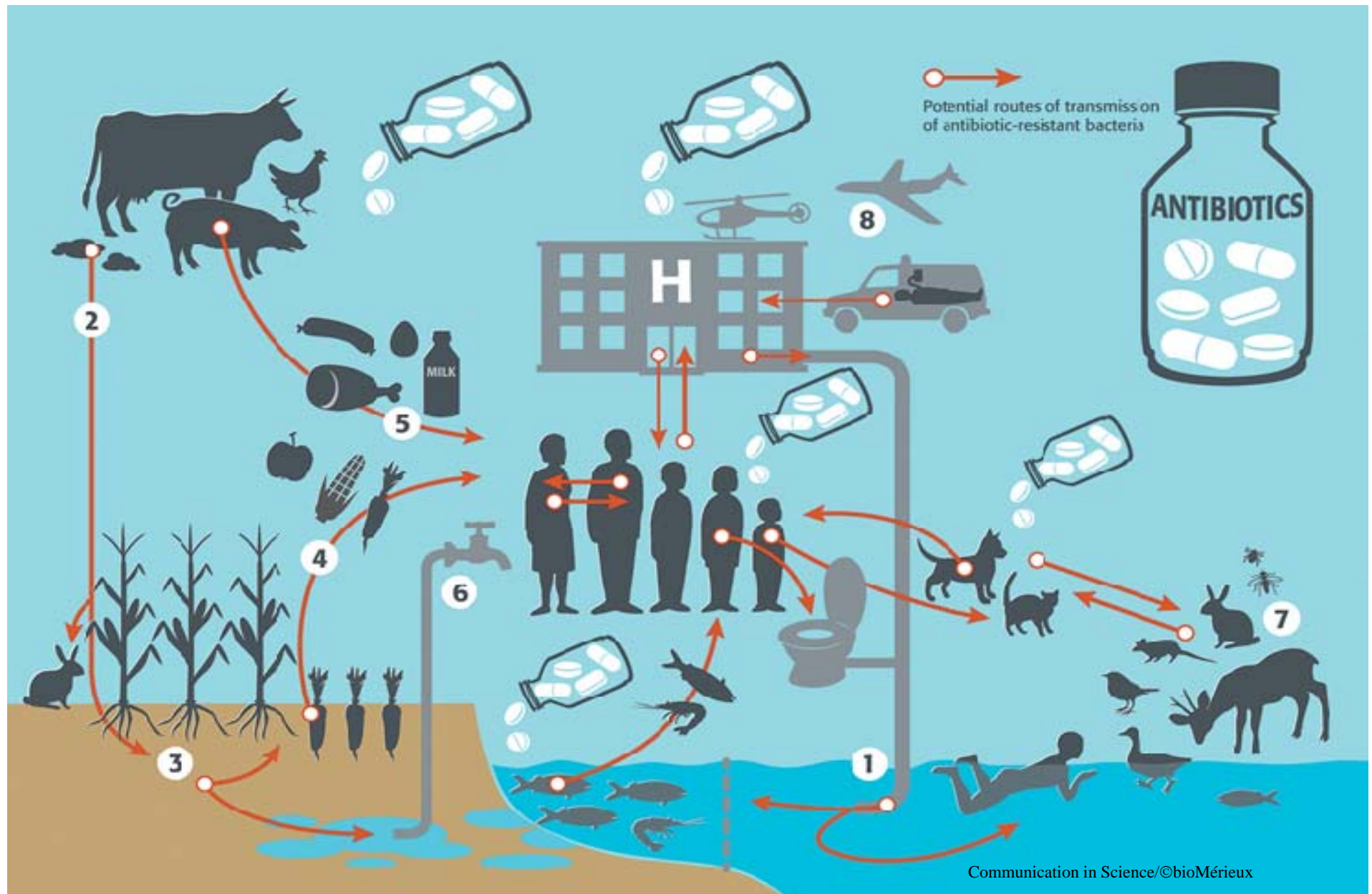
Schweizerische Eidgenossenschaft
Confédération suisse
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Federal Department of Home Affairs (FDHA)
Federal Office of Public Health (FOPH)
Federal Food Safety and Veterinary Office (FSVO)

**Federal Department of Economic Affairs,
Education and Research (EAER)**
Federal Office for Agriculture (FOAG)

**Federal Department of the Environment,
Transport, Energy and Communications
(DETEC)**
Federal Office for the Environment (FOEN)

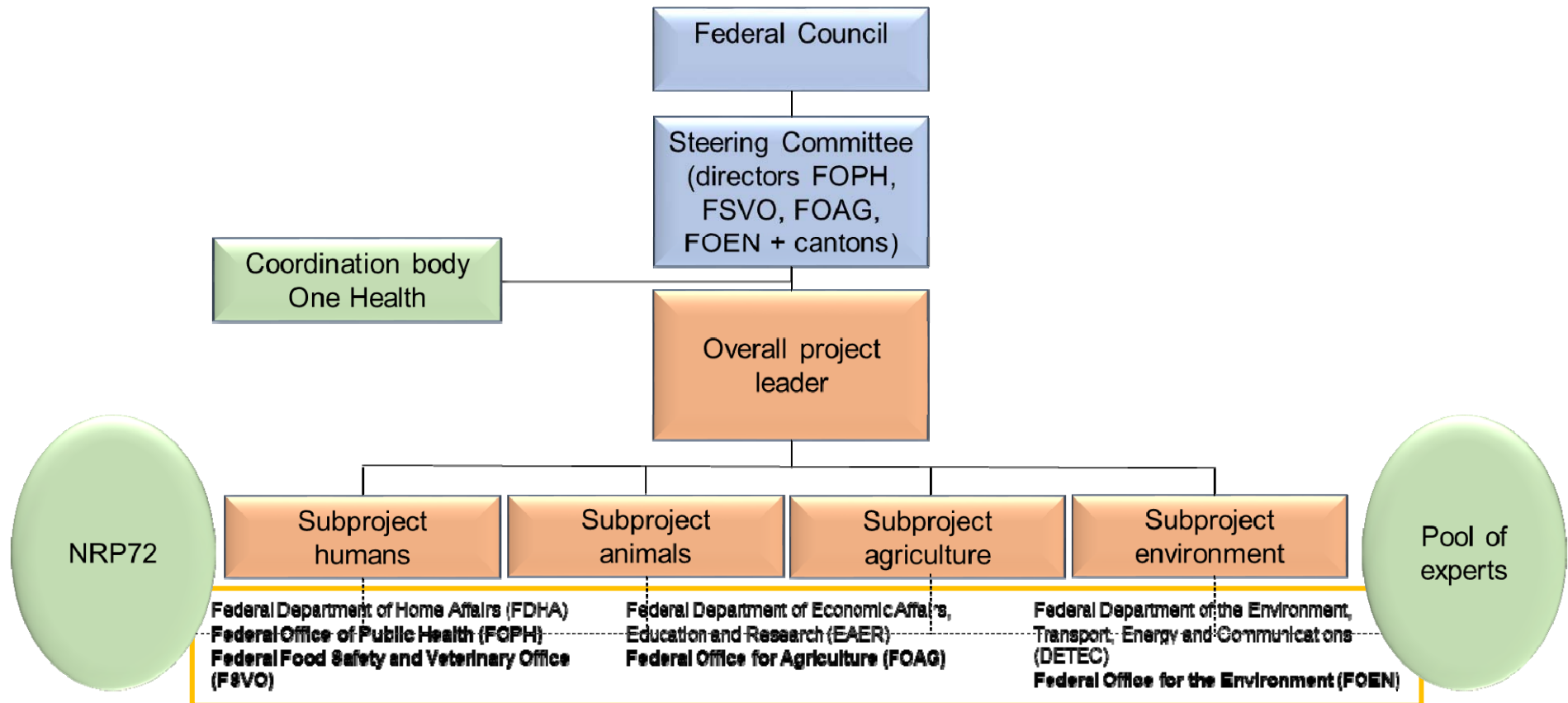
StAR = One Health



Strategy

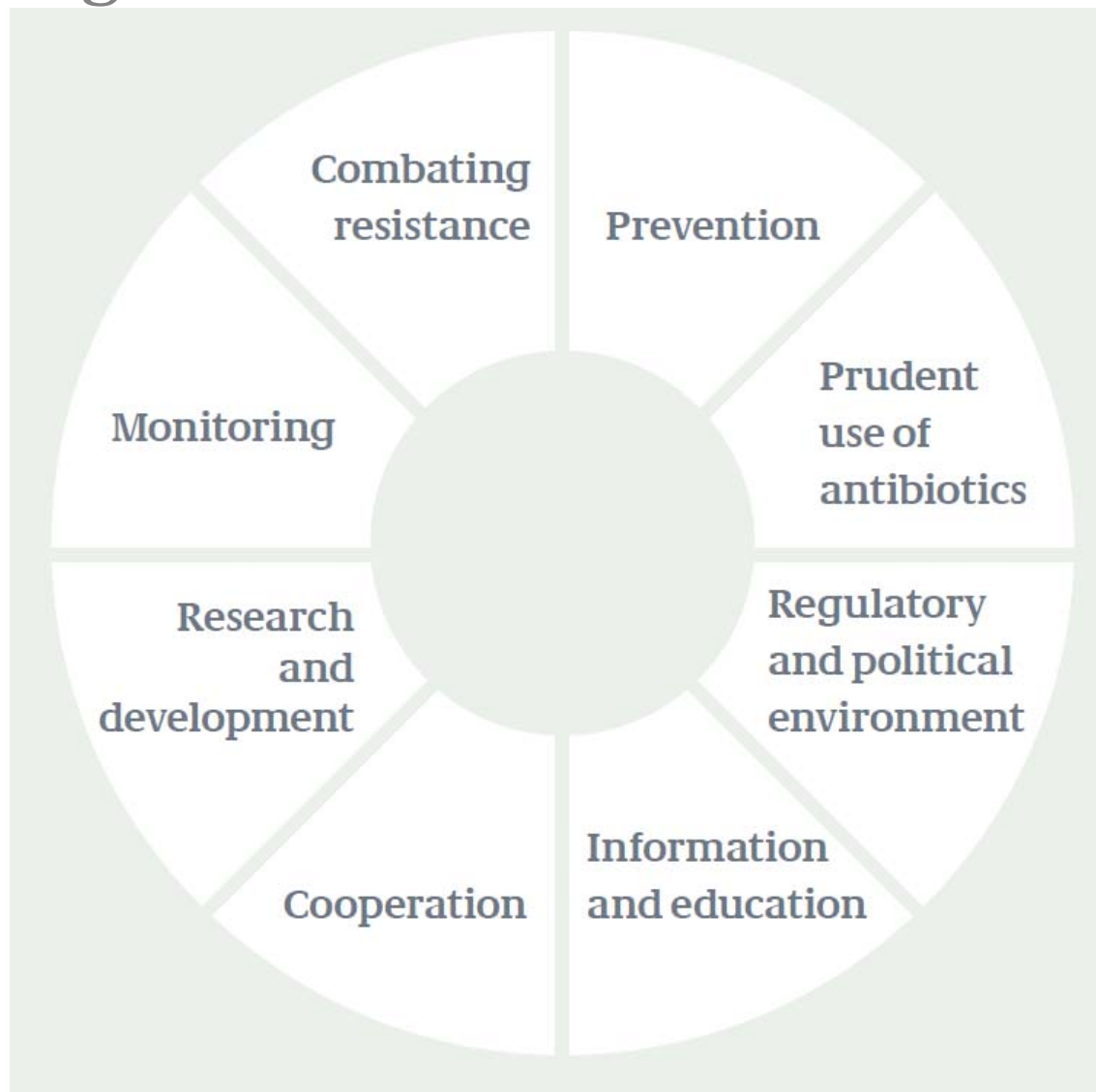
- Developed 2013–2015 by FOPH, FSVO, FOAG and FOEN
- In close collaboration with stakeholders
- Adopted by Federal Council on 18 November 2015
- **Goal:** Ensure long-term efficacy of antibiotics for humans and animals
- Focus is on **One Health**

Joint implementation

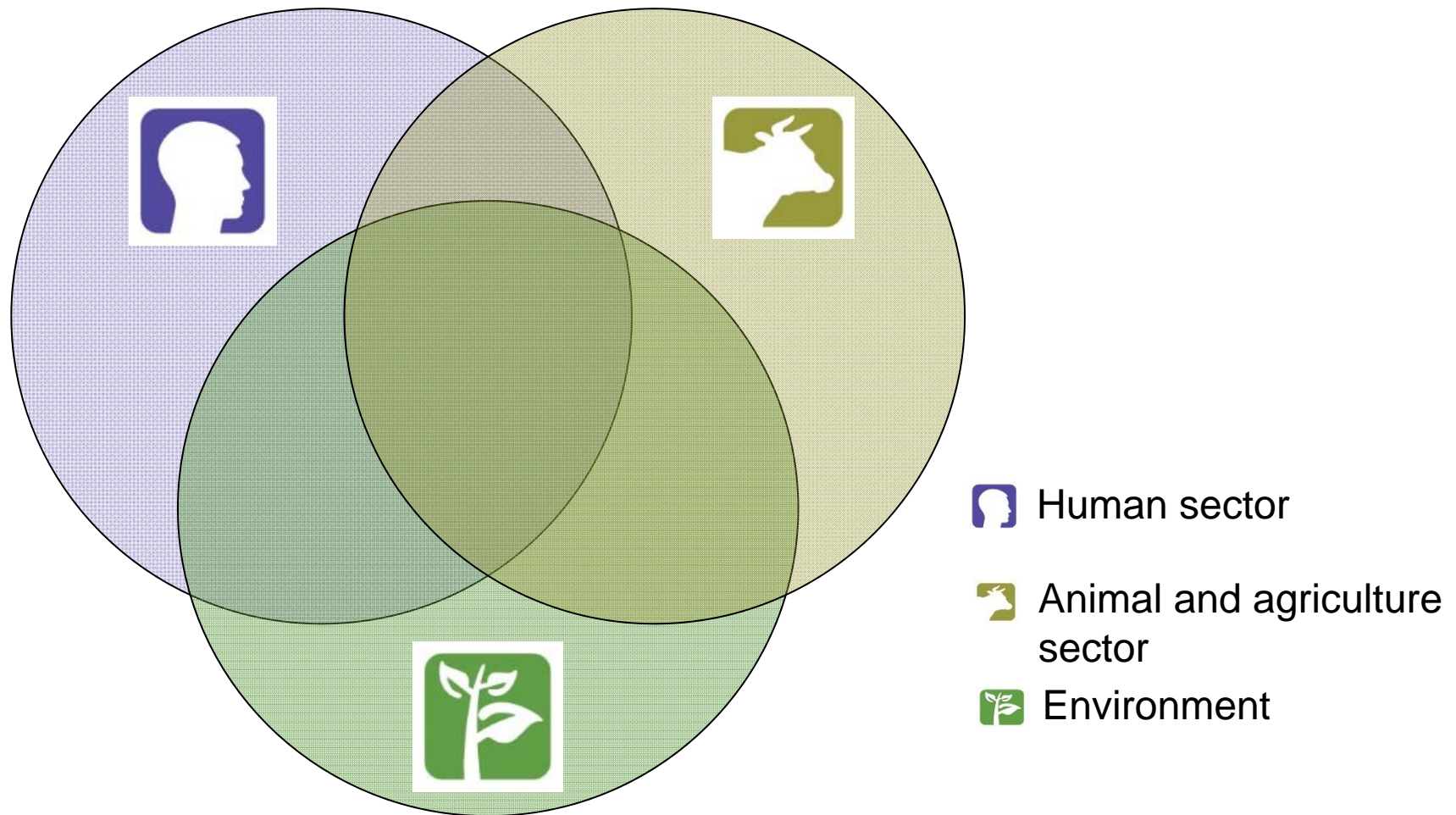


+ many partners (i.e. learned societies)

Eight fields of action



35 measures

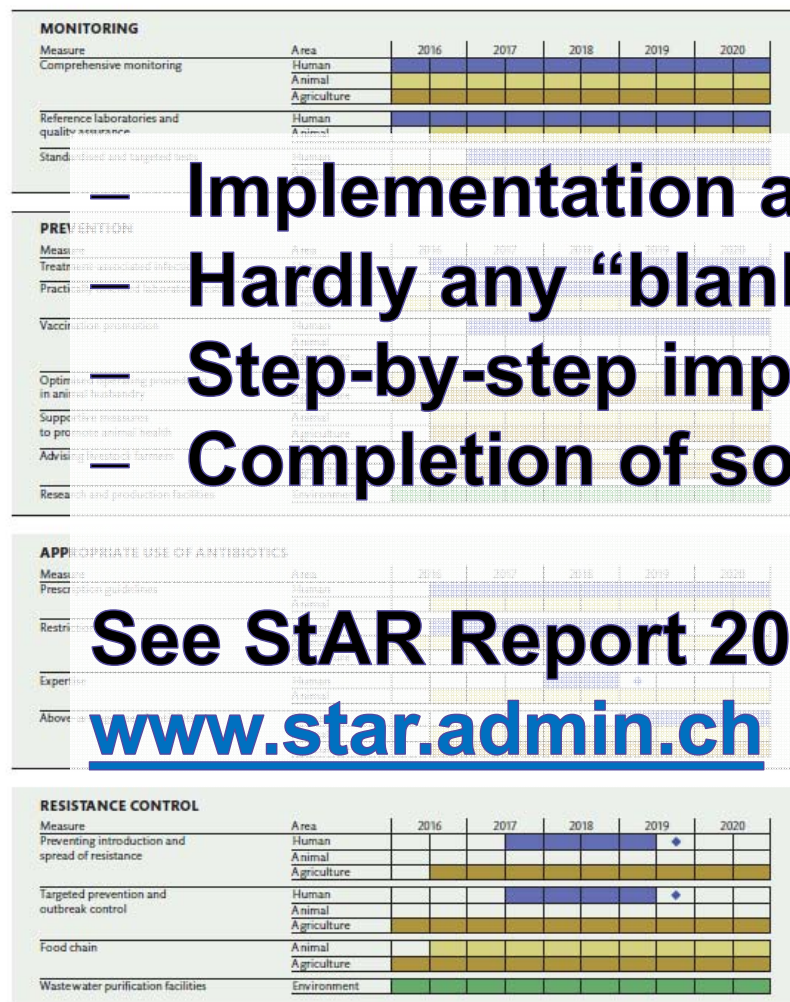


Stand der Umsetzung: Gesamtprojekt

The following slides show examples of implementation and do not represent all activities that are involved in the implementation of StAR.

Many implementation processes take place in close cooperation between the federal offices, the relevant partners and stakeholders.

Where we stand with StAR



- Implementation across all sectors
- Hardly any “blank spots”
- Step-by-step implementation
- Completion of some measures foreseen

See StAR Report 2017 at www.star.admin.ch



Implementation of the Overall Project

Coordination – Key Elements of the One-Health Approach

- Project team meets every two weeks, good exchange established

StAR Report 2017 – Do good and talk about it

- State of affairs, interviews with stakeholders

Swiss Antibiotic Resistance Report – Facts and Figures

- Monitoring Report, every two years from all sectors

Implementation of the Overall Project II

Exchange with other countries

- WHO Action Plan, together with FAO and OIE
- Country visits: Learning from the best
Switzerland internationally praised for its One-Health approach!

Antibiotics Awareness Week 13. – 19.11.2017

Status of Implementation: Sectors

 Human sector

 Animals
Agriculture

 Environment



Implementation of Human sector

- **National Guidelines** for the proper use of antibiotics prescribed by physicians and in hospitals
Partnership with the Swissnosso Association (infection prevention and hospital hygiene) and the Swiss Association of experts for infectiology and microbiology (SSI/SGM)
End of 2017: first series for primary care (e.g. sinusitis, pharyngitis, urinary tract infections, sexually transmissible diseases)
- **Stewardship Programmes in Hospitals**
- **Information to patients** on the consumption of antibiotics and resistance to antibiotics will be made available to patients in doctors' surgeries and pharmacies via fact sheets by the end of 2017, **in cooperation** with the Swiss Medical Association (FMH) and the Association of Pharmacists (Pharmasuisse)



Implementation of animal and agricultural sector

- Establishment and operation of an information system to record antibiotic consumption IS-ABV
The effective number of treatments can now be categorised according to animal species, company and type of production, “Where do I stand in comparison with others, to the average?”
- **Therapy guides** for vets





Implementation of the Environment sector

Upgrading wastewater treatment plants to remove micro-contaminants such as antibiotics from the wastewater

- Expansion phase 2016 – 2040: Within 2 years additional purification steps will be in operation in 3 WTPs, 7 WTPs will be under construction and 23 will be planned (status 10/2017). As of 2040 ca. 70% of Swiss wastewater will be treated using additional purification steps
- This means a massive reduction in contamination by antibiotics in Swiss waters

NRP72 and R&D field of action in StAR

- In 2015, Federal Council launched **National Research Programme (NRP)** “Antimicrobial Resistance – a One Health approach”.
- Run time **5 years**
- Budget **CHF 20 million**
- 25 projects selected in 1st call.
- 2nd call is in process.
- Covers measure 3.5.1 of StAR.

NFP72: Examples

- **Improving established antibiotics:** The aim of this project is to develop new, highly potent antibiotics based on the aminoglycoside compound class.
- **Getting inside the protective shield of bacteria:** Many particularly dangerous bacteria are protected by an outer membrane. The project wants to understand the mechanism by which this membrane develops in order to find targets for new active substances.
- **Using computers to improve prescription practices:** The project is integrating a tool directly into the electronic health record to give hospital doctors feedback on the way they prescribe antibiotics. This system is being trialled in various hospitals.

→ www.nfp72.ch

Thank you!

For more information: www.star.admin.ch

Questions: star@bag.admin.ch