

Vet-TWIN

STRENGTHENING OF SCIENTIFIC EXCELLENCE OF THE NATIONAL VETERINARY RESEARCH INSTITUTE IN ANIMAL HEALTH AND FOOD CHAIN SAFETY



PRESENTATION OF PARTNERS



**National Veterinary
Research Institute, NVRI**



WP1: Project coordination
Miroslaw Pawel Polak,
NVRI

The major mission of the Institute is applied research in veterinary medicine with emphasis on the diagnosis and control of animal infectious diseases including zoonoses, as well as the hygiene & toxicology of food of animal origin and feeds. The Institute acts as the National Reference Laboratory for infectious diseases of animals, zoonoses and prohibited substances in food of animal origin and undesirable substances in feeds. Currently there are 137 different reference activities in the Institute, performed according to the Regulation (EC) No. 2017/625. Additionally, NVRI hosts 4 reference laboratories of World Organisation for Animal Health (OIE).



Technical University of Denmark

**Technical University
of Denmark,
National Veterinary Institute,
DTU-Vet**

DTU-Vet conducts research in infectious diseases in livestock and diagnoses diseased animals. It gives advice to public authorities and cooperates with them on the Danish veterinary contingency plans. It is a reference laboratory in a number of areas. Its main focus is on notifiable diseases, as well as other serious infectious diseases that affect farm livestock. DTU provides advisory services and risk assessment to public authorities, the industry and interest groups.



Bundesinstitut für Risikobewertung

**German Federal Institute
for Risk Assessment, BfR**

The main focus of the work of the BfR is the assessment of risks in the field of consumer health protection and food and feed safety. On the basis of internationally recognised, scientific assessment criteria the BfR prepares expert reports and opinions on the safety of foods, substances and products. With its 17 reference laboratories in the field of food safety and food hygiene, the BfR has its own substantial laboratory capacities.

OBJECTIVES OF THE PROJECT

The general objective of VET-TWIN is to close gaps and solve deficiencies between the National Veterinary Research Institute of Poland (NVRI) and internationally-leading counterparts from Germany and Denmark by taking specific actions:

- strengthening research on the characterization of animal pathogens and food safety by creating the link between the Polish institution and both German and Danish research institutions through the exchange of ideas and staff (trainings, workshops, summer schools, open-house days),
- enhancement of the scientific and technological capacity of the linked institutions and the support to raise staff's research profile as well as the excellence of the institutions involved by definition of a joint strategic road map, building activities between partners for science & technology capacity, enhanced opportunities for young scientists and dissemination policy.

ACTIVITIES WITHIN THE PROJECT

Communication and networking

A stronger and lasting scientific cooperation within consortium is one of the key expected outcomes of the project. The work will focus on in-depth analysis of knowledge gaps and current activities in the research space, leading to creation of the Strategic Research Plan and the Strategic Road Map, and common application for European funds. In parallel, the instruments for better communication among partners will be built by the IT department. The dissemination activity will aim at the promotion of the project and institutions' partnership to different stakeholders, resulting in better recognition of NVRI in scientific and economic community.



WP2: Definition of a joint strategic road map and a joint strategy of cooperation and development for building S&T capacity

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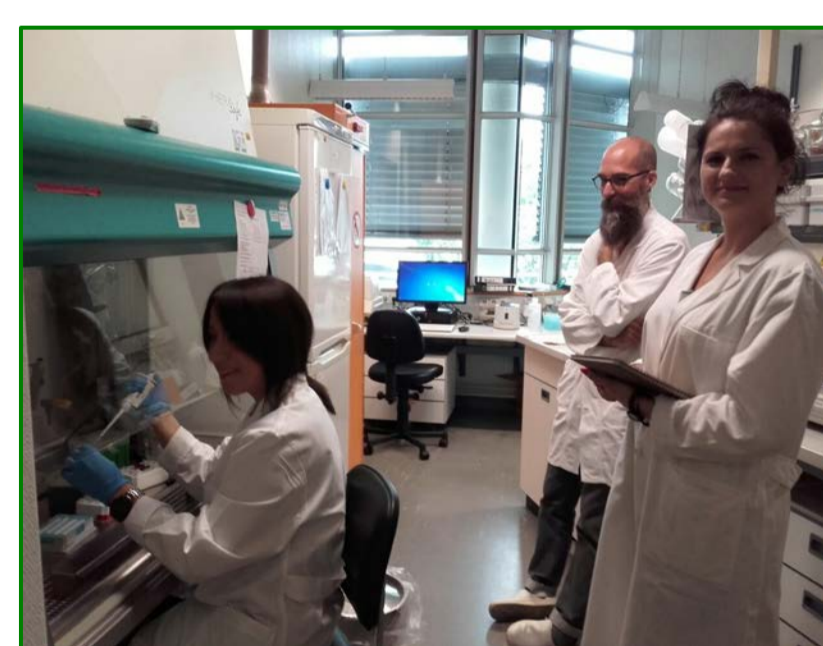
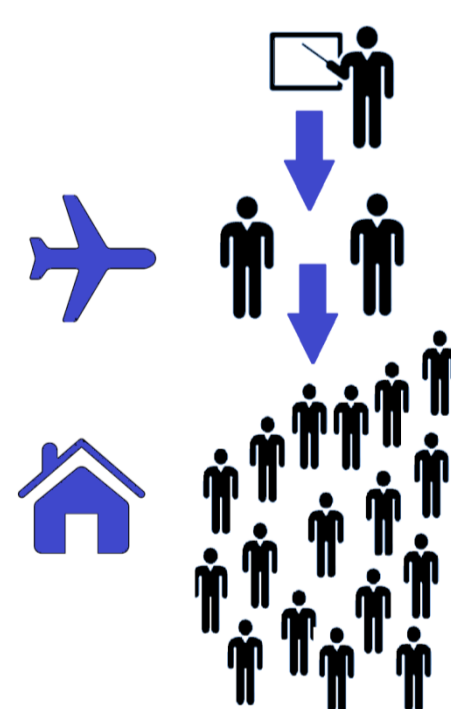
WP3: The creation of instruments for initiating activities and relationships between partners for building S&T capacity

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WP6: Dissemination and outreach

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Trainings



Cascade trainings are organised to help implement novel techniques in NVRI laboratories. Polish researchers first visit partner labs and then, together with colleagues from DTU and BfR share new-obtained skills and knowledge with larger number of staff during on-spot workshops.

The subjects covered in the project include:

- ✓ next generation sequencing,
- ✓ quantitative PCR in immunological and diagnostic applications,
- ✓ multiplex immunological platforms,
- ✓ novel methods of pathogen biotyping (including MALDI-TOF mass spectrometry),
- ✓ mass spectrometry-based proteomics,
- ✓ different models and methods of risk analysis of foodborne outbreaks and infectious animal diseases.

WP4: Training activities

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Opportunities for young researchers

A panel of initiatives for young Polish researchers has been planned: a scientific congress to be held in Pulawy, as well as short-term missions in partner institutions.

Summer and winter schools will be a chance to widen knowledge and expand professional network. Their subjects include:

- ✓ emerging infectious diseases and zoonotic threats,
- ✓ genomics in veterinary research and diagnostics,
- ✓ chemical risk analysis,
- ✓ project design for fund raising & scientific writing



WP5: Enhanced opportunities for young scientists

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