

INSTITUTE OF FOOD SAFETY, ANIMAL HEALTH AND ENVIRONMENT «BIOR»



NRL for Parasites

Trichinella, Echinococcus, Anisakis, etc.

Gunita Dekšne, Dr. biol.

Head of parasitology group

Institute of Food Safety, Animal Health and Environment «BIOR»

Associate Professor at Faculty of Biology, University of Latvia

FIELDS OF COMPETENCE: «ONE HEALTH» RESEARCH AND STRATEGY



ANIMAL HEALTH

Animal health
infectious diseases
(zoonoses), epidemiology



ENVIRONMENTAL HEALTH

Public and
environmental health



FISH RESOURCES

Fisheries and fish
resources



AQUACULTURE



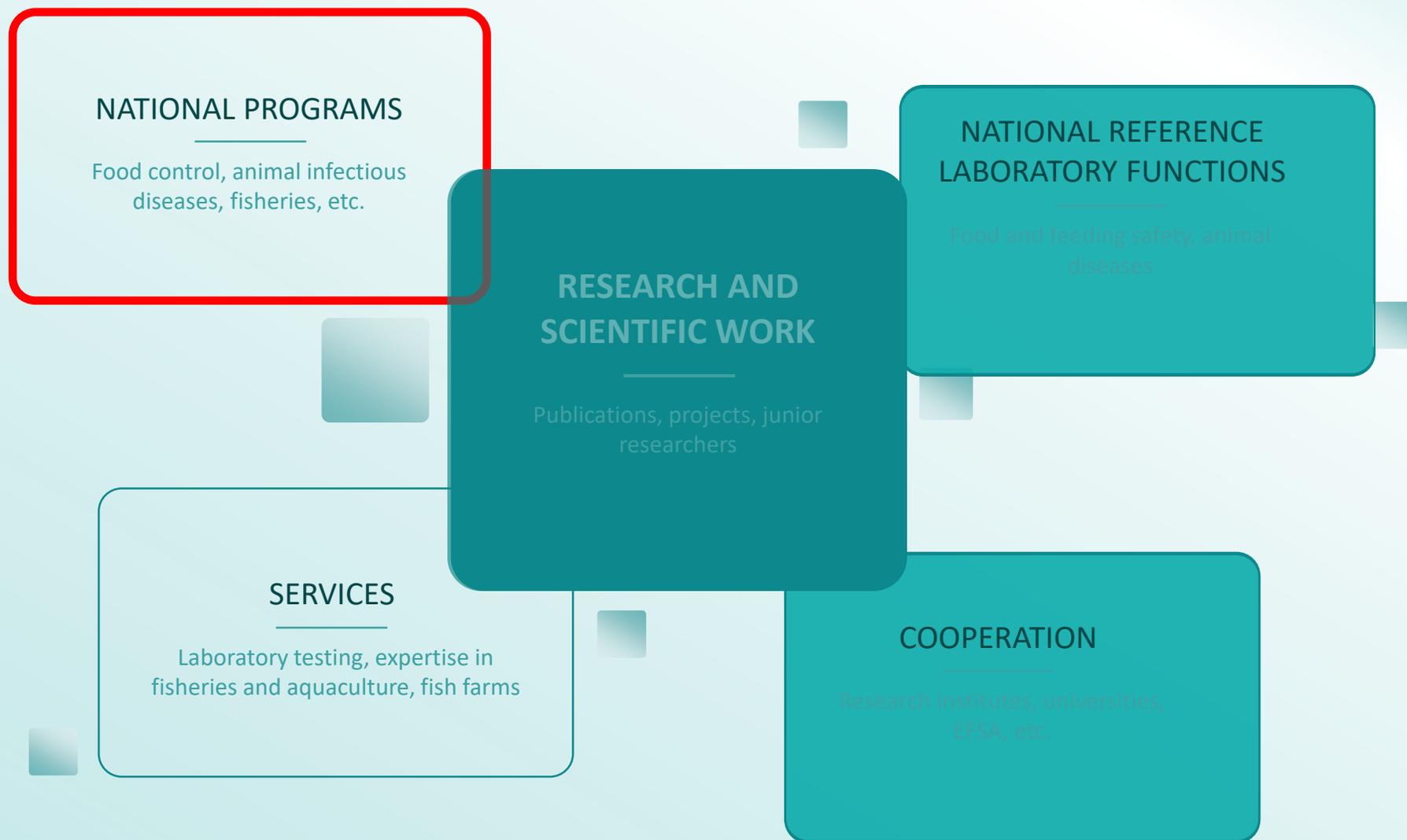
FOOD SAFETY

Food safety, quality
and technologies



DIVERSITY OF TASKS AND RESPONSIBILITIES

2020-2022 activities



ORGANIZATION AND RESULTS OF NATIONAL PTs

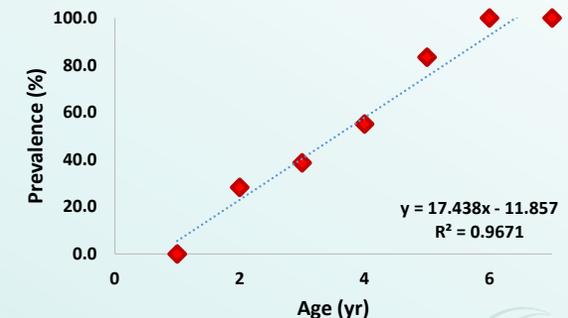
NATIONAL REFERENCE LABORATORY FUNCTIONS

2020-2022 ACTIVITIES

- Organized PTs – 0 (2023?)
- Training courses (theoretical and practical)
 - One each year
 - Overall – 14 trainees



- *Trichinella* spp. in wild animals
 - Foxes – **52.5%** (2020); **36.2%** (2021)
 - Raccoon dogs – **8.3%** (2020); **21.4%** (2021)
 - Wild boars – **0.25%** (2020); **0.23%** (2021)
- *Echinococcus* spp. in wild animals
 - Foxes – **28.1%** (2021); **17.1%** (2010-2015)
 - Raccoon dogs – **10.0%** (2021); **8.1%** (2010-2015)
- Anisakidae in cod
 - 40.6% with no difference in sampling regions
 - Mean intensity 4.1 (1-113 per fish)
 - *Contracoecum osculatum*



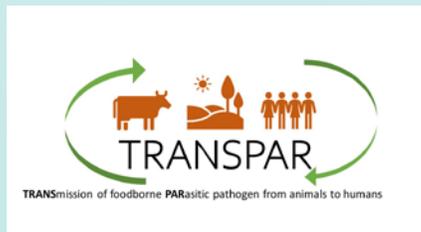
RESEARCH ACTIVITIES 2020-2022



- **MeME, Toxosources, Paradise; OH-HARMONY CAP**
 - Multicenter study – *Echinococcus* in salads/ berries
 - *Cryptosporidium* in cattle
 - etc.



- **CODHEALTH – from 2022**
 - Food web in Baltic sea
 - Cod health
 - Anisakiade life cycle
 - New hosts for Anisakidae in Baltic sea



- **TRANSPAR – from 2022**
 - Transmission routes of *Cryptosporidium* and *Giardia*
 - Livestock
 - Pet animals
 - Humans (children)
 - Sewage

More information coming next year





BIOR

INSTITUTE OF FOOD SAFETY, ANIMAL HEALTH
AND ENVIRONMENT

THANK YOU