

NRL Albania Campylobacter Status and Challenges



Food Safety
and Veterinary
Institute





Albania presentation

Capital name: Tirana (Tiranë)

Population: 2.9 mln (July 2017 est.)

Area total: 28.748 sq km

~Albanians are very old nation. Our history starts from the prehistoric stage.

~A very beautiful country, with sunshine most of the time, large seaside, high mountains, lakes, forests, etc.

~Albanian people are vital, dynamic, friendly, hospitable, with humor sense but they were unlucky for 50 years.



Overview

- ❑ NRL-Albania, mission an vision
- ❑ Briefly, history of FSVI
- ❑ The chain of command. Roles and competences
- ❑ Flow diagram of alert communication
- ❑ FSVI organization
- ❑ National Monitoring Plans
- ❑ Analytical Structure- Food Microbiology
- ❑ Inter sectorial Collaborations
- ❑ Conclusion

Reference Laboratory in Albania

Vission:

- ~be the leader in food and feed safety analytical testing
- ~be the leader in animal health testing
- ~continually improve our quality, processes, and knowledge base through research, study and collaboration.

Mission:

- ~to resolve uncertainties in the investigation of the food sources
- ~coordinating application of the methods in particular by organizing comparative testing
- ~to provide continuous scientific and technical support to **Competent Authorities (CAs)**.

Food Safety and Veterinary Institute

Founded on 2006: As Food Safety and Veterinary Institute (Merge between two Institution - Food Research Institute and Veterinary Research Institute)

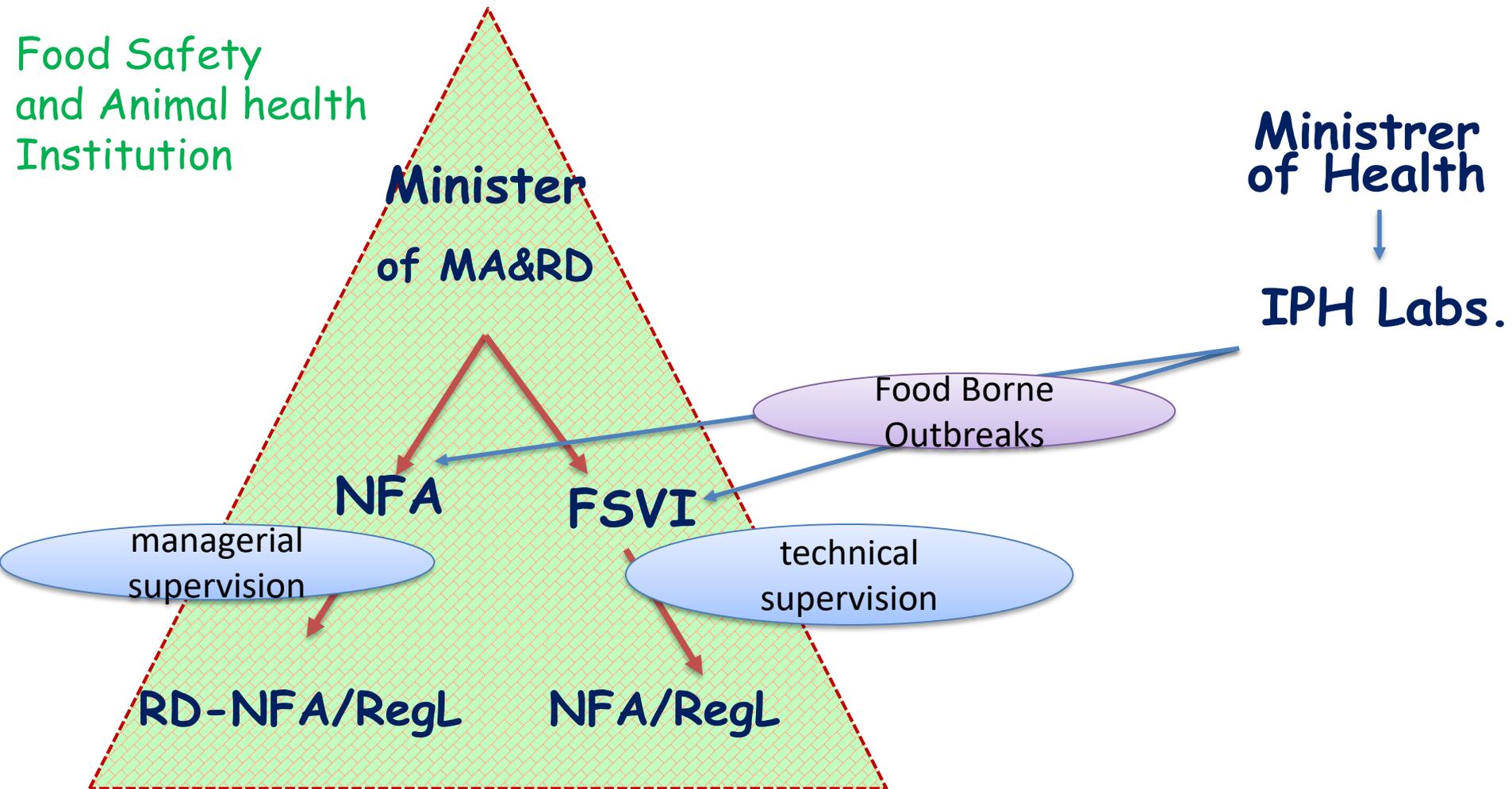
< 99 Staff with 23% is holding a PHD.

6 047 sample tested (2017) with **41 402** analysis/year_ Food safety

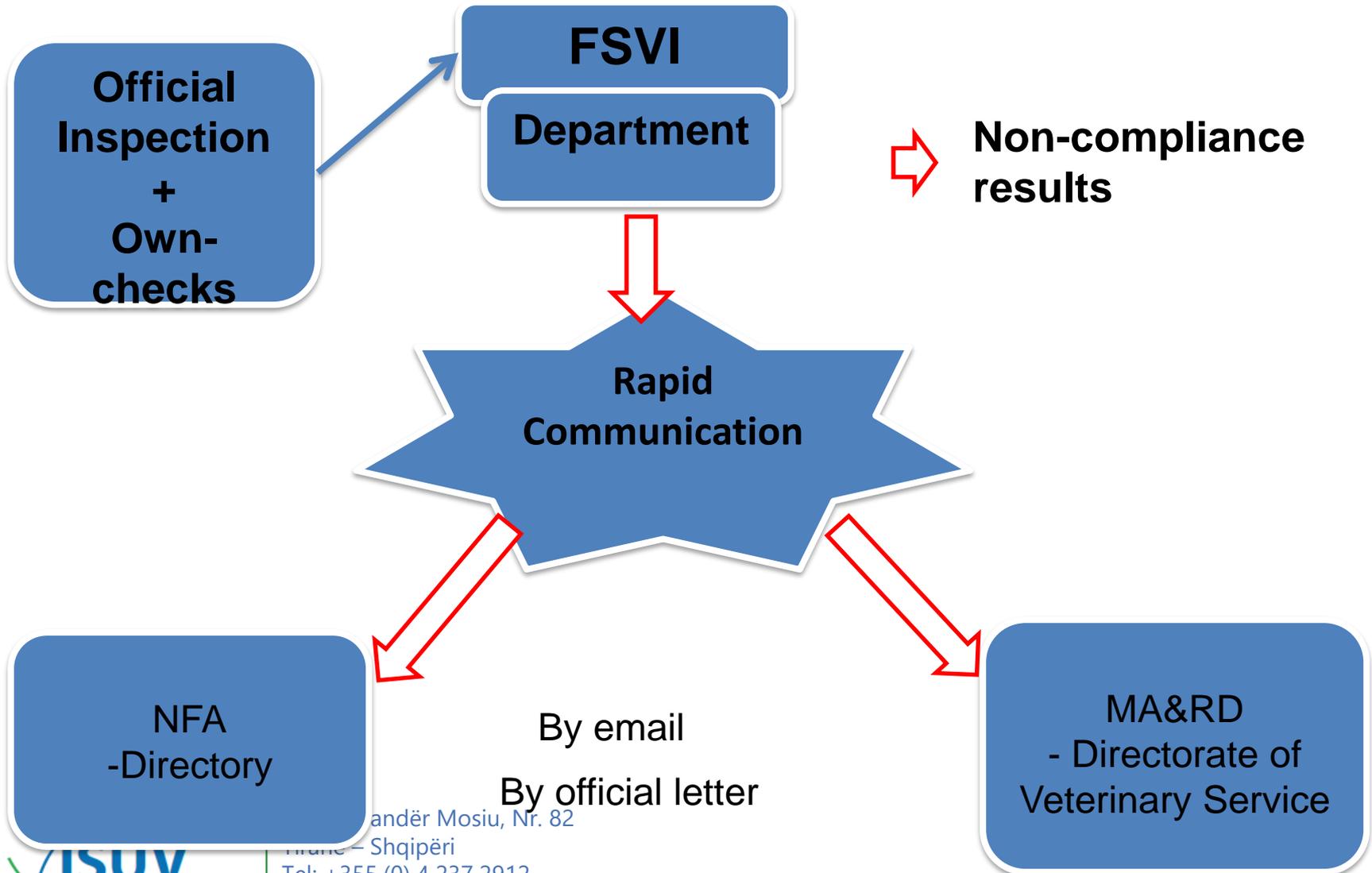
4 925 sample tested (2017) with **7 369** analysis/year _ Animal Health



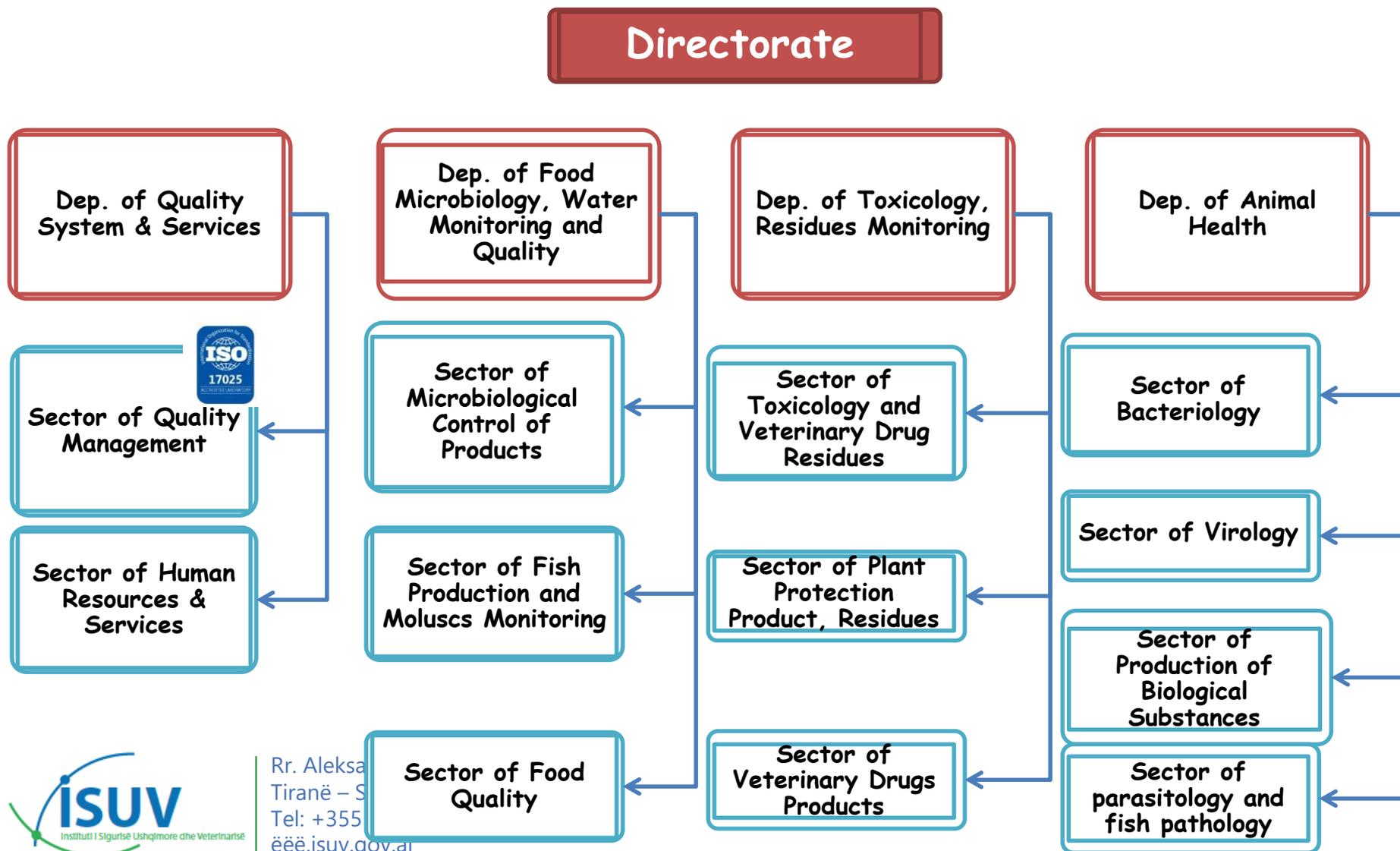
Hierarchical organization



Flow diagram of alert communication

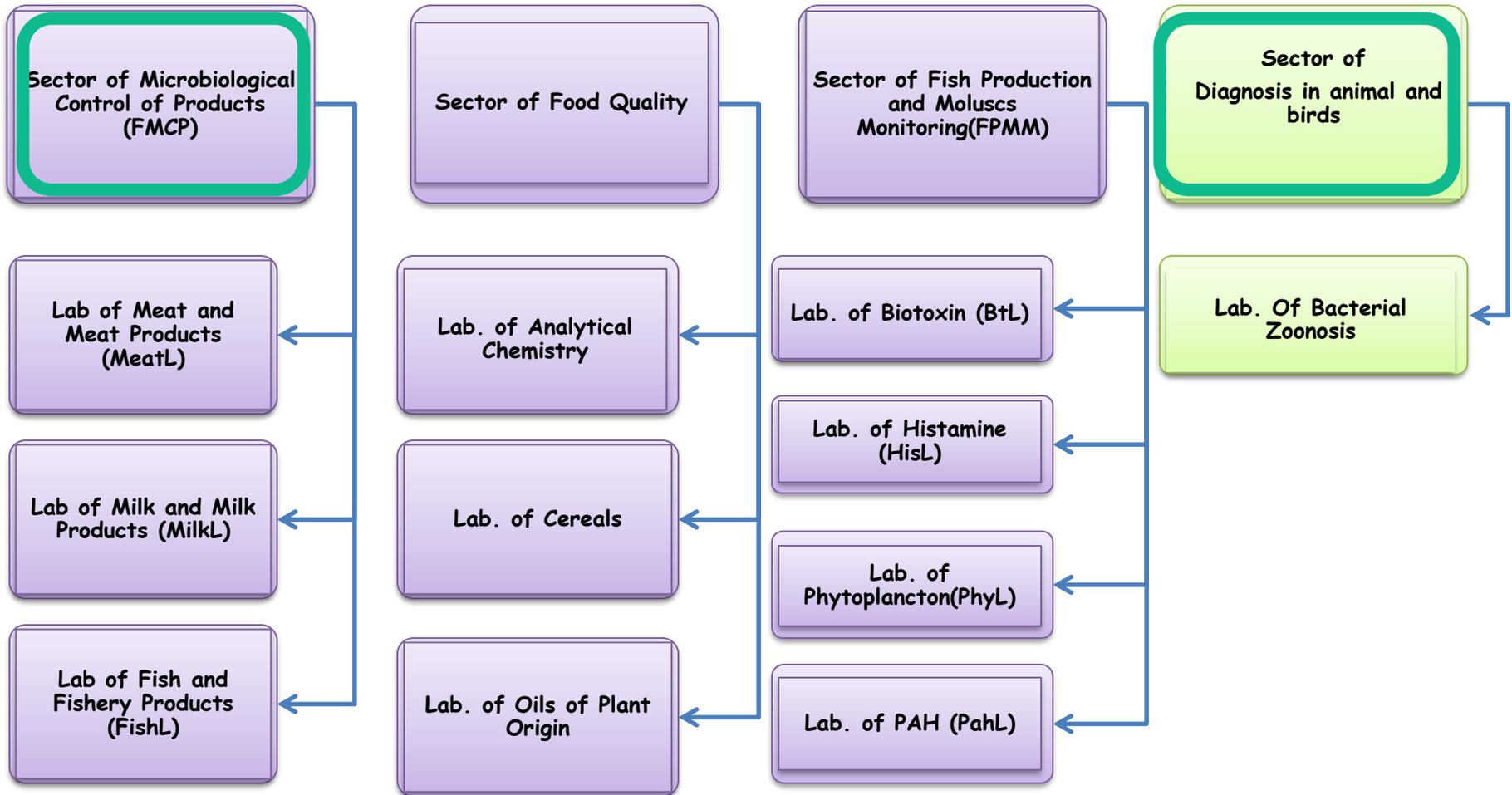


National Reference Lab organization (FSVI)



Dep. of Food Microbiology, Fishery Production and Quality

Dep. Animal Health



National Monitoring Plans (NMP-s)



Animal Health NMP

- ❑ Brucellosis-After vaccination Monitorig in Ovine and Caprine;
- ❑ Brucellosis-in cattle, confirmation of seropositive cases;
- ❑ Rabies-oral vaccination in foxes, after vaccination monitorig;
- ❑ Trichinella spp. in foxes;
- ❑ Bluetongue-serological monitoring
- ❑ Fish parasites, Anisakis spp.;

Food Safety NMP

- ❑ National Residues Control Plan (NRCP);
- ❑ Shellfish and Production Area;
- ❑ Fish an fishery products;
- ❑ Plant Protection Products in fruits and vegetables;



NRL Albania-Food Microbiology

Parameter	Reference	Updated	Method Set Up	Validated	Accredited
Coagulase-positive staphylococci-ENU	ISO 6888-1:1999	YES	YES	YES	YES
Salmonella spp.-DET	ISO 6579-1:2017	NO	YES	YES	YES
Salmonella Serotype	ISO/TR 6579-3:2014	YES	YES	NO	NO
Campylobacter spp-DET	ISO 10272-1:2017	NO	YES	NO	NO
Campylobacter spp-ENU	ISO 10272-2:2017	NO	YES	NO	NO
E.coli-ENU-MPN	ISO 16649-3:2015	YES	YES	YES	YES
Cronobacter sakazakii-DET	ISO 22964:2017	NO	YES	NO	NO
E.coli-ENU-CFU	ISO 16649-2:2001	YES	YES	YES	YES
Enterobacteriaceae-ENU-CFU	ISO 21528-2:2017	NO	YES	YES	NO
Enterobacteriaceae-ENU-MPN	ISO 21528-1:2017	NO	NO	NO	NO
Aerobic Colony Count-CFU	ISO 4833-1:2013	YES	YES	YES	NO
L.monocytogenes-DET	ISO 11290-1:2017	NO	YES	YES	YES
L.monocytogenes-ENU	ISO 11290-2:2017	NO	NO	NO	NO
Vibrio parahaemolyticus and V. cholerae-Det	ISO 21872-1:2017	NO	YES	NO	NO
Clostridium perfringens-ENU	ISO 7937:2004	YES	YES	NO	NO
Presumptive B. Cereus-ENU	ISO 7932:2004	YES	YES	YES	NO
Shiga toxin producing E.coli (STEC) O157,O26,O111,O103 and O104:H4	ISO/TS 13136:2012	YES	NO	NO	NO
Norovirus and Hepatitis A	ISO 15216-1:2017	NO	YES	NO	NO
Ent-Tox-Staf-Vidas	Alternative method	NO	NO	NO	NO

NRL Albania-Inter Sectorial Collaborations

- ~In the year 2013 with an initiative from WHO in Europe, an inter sectorial meeting took place in relation to AMR and the importance in Food Safety. No one thought that after a couple of years a work group named AMR "One Health" would be created. The group contained key AMR experts of Institute of Public Health (coordinator) and Institute of Food Safety and Veterinary.
- ~During 2014-2015 WHO/AGISAR experts facilitated the training courses in Albania during 2014 and 2015, focusing on implementation of Antimicrobial Susceptibility Testing (EUCAST) guidelines for detection of resistance mechanisms for the food borne pathogens such as salmonella and campylobacter.
- ~FSVI collaborate with IPH in the Pilot project "Prevalence of Salmonella and Campylobacter in human diarrheic patients and healthy broiler chicken, respectively.
- ~AGISAR project, Albania 2017-2018. (open call)" started on April 2017 and finished on April 2018.

NRL Albania-FSVI-Conclusions

- ~FSVI has constantly demonstrate improvements in the quality of testing by implementing a QMS in all the Labs and set priorities towards accreditation/ISO 17025.
- ~FSVI has improved the technology by implementing new alternative such as gene expression in pathogen detection (qPCR).
- ~ FSVI has opportunity to create and to strengthen the Albanian National Laboratory Network regarding Campylobacter in collaboration with EU-RL.
- ~FSVI is very open to collaborate in the future in the field of food safety and animal health testing methods.

THANK YOU FOR YOUR ATTENTION!

Albania



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