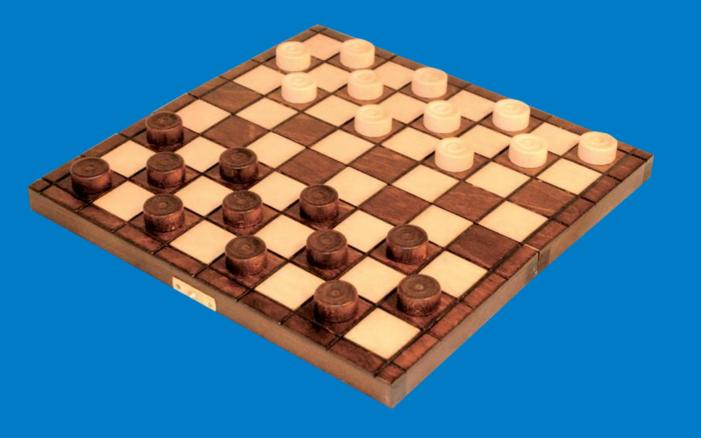


Netherlands Food and Consumer Product Safety Authority Ministry of Agriculture, Nature and Food Quality

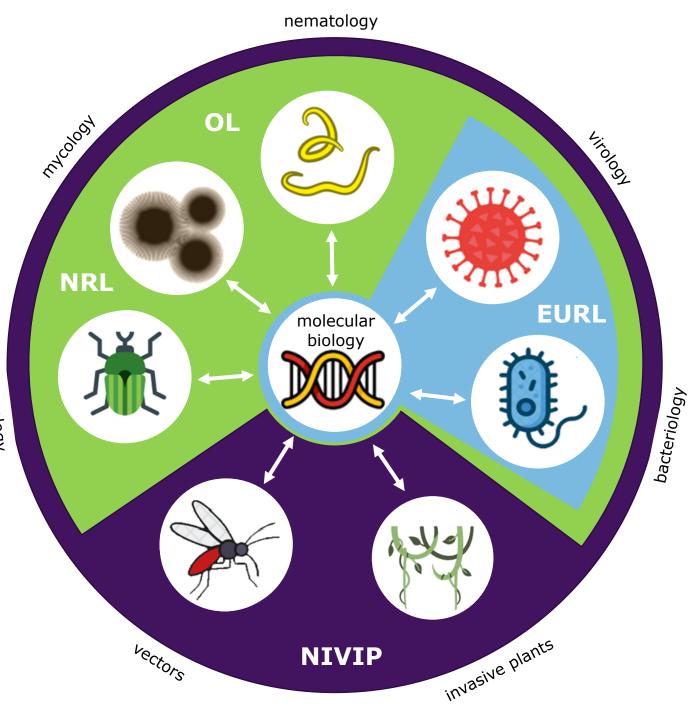


### Across the board

Method-based system approach to proof proficiency in plant health laboratories

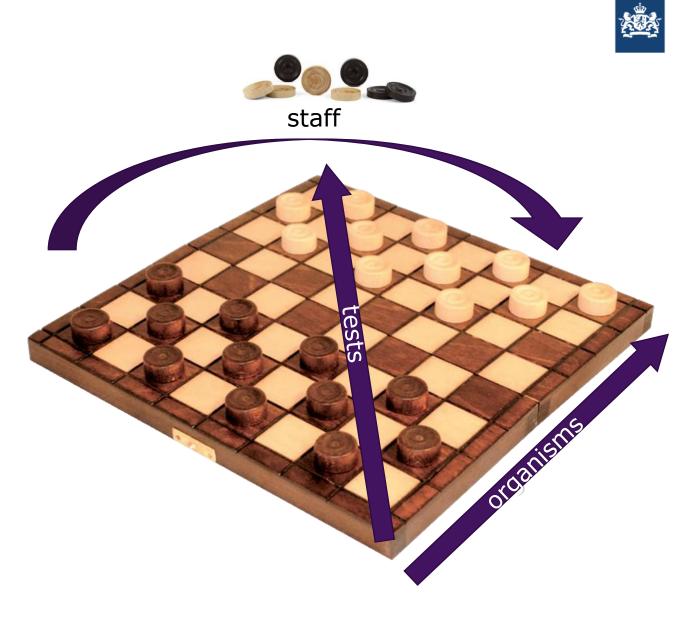
Marcel Westenberg, NIVIP, NL

EPPO Workshop for heads of laboratories Oeiras, PT 19/20-4-2023



Netherlands Institute for Vectors, Invasive plants and Plant health (NIVIP)

- > 7 organism specific groups
  - 5 NRL/OL
  - 2 EURLs
- 1 molecular biology group
  - Diagnostics
  - R&D
  - Collections



# Molecular biology diagnostics

- 144 tests
- > > 500 (regulated) organisms
- > 21 staff (technicians, researches, bioinformaticians)



# **EN ISO/IEC 17025**

#### **Ensuring the validity of results** 7.7

The laboratory shall have a procedure for monitoring the validity of results. The resulting data 7.7.1 shall be recorded in such a way that trends are detectable and, where practicable, statistical techniques shall be applied to review the results. This monitoring shall be planned and reviewed and shall include, where appropriate, but not be limited to:

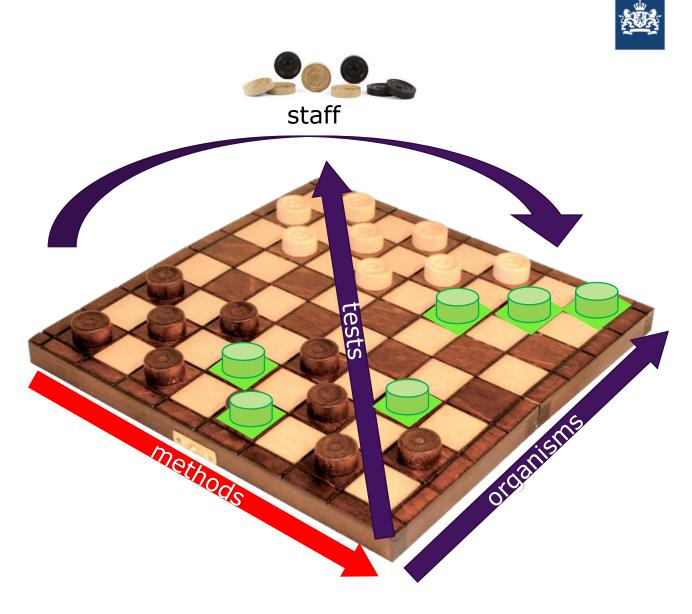
use of check or working standards with control charts, where applicable; d)

intralaboratory comparisons; **third-line controls** j)

testing of blind sample(s). k)

second-line controls

first-line controls



# Proficiency on method level

- 144 tests
- > > 500 (regulated) organisms
- 20 staff (technicians, researches, bioinformatician)



#### Method-based proficiency

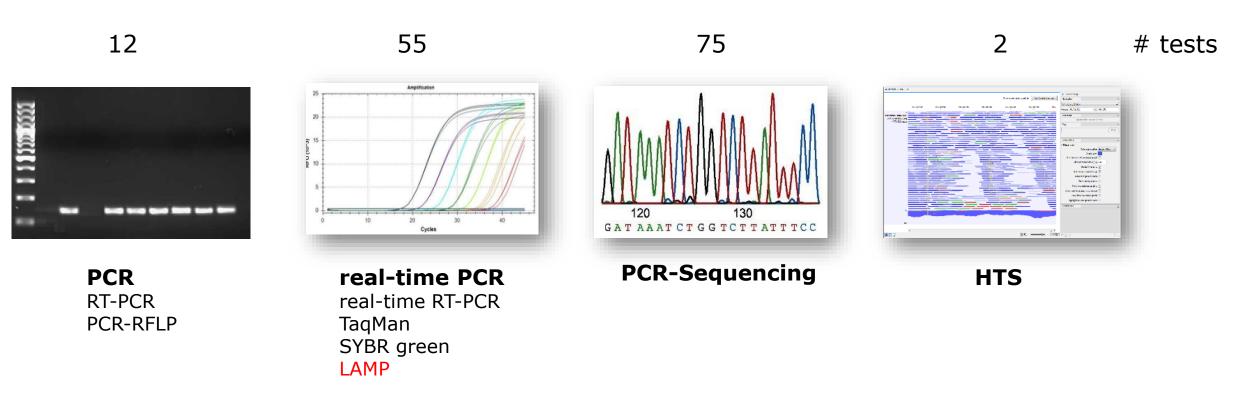
proficient for a method = proficient for all tests using that method





### Molecular methods

- Define as less as possible methods
- Group tests by method





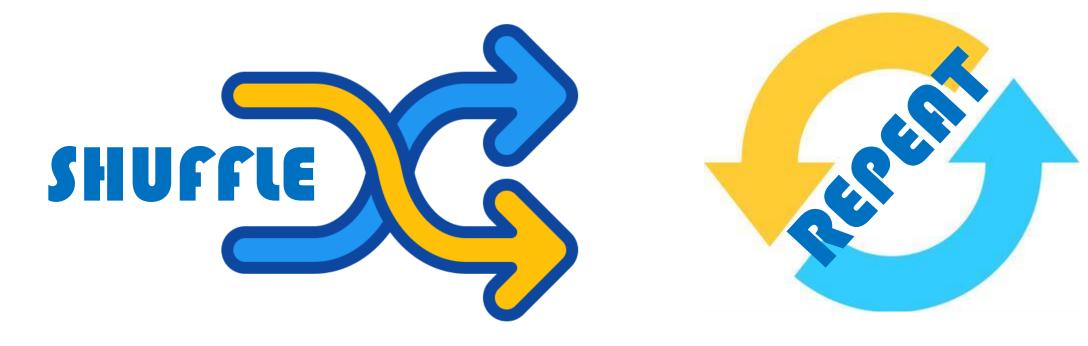
# Annual assurance plan - 2022

	Bacteriology	Invasive plants	entomology/ vectors	nematology	mycology	virology
PCR			Ceratitis capitata	Globodera sp.		
Real-time PCR	Xyella fastidiosa Pantoa stewarti		Thaumatotibia leucotreta Helicoverpa sp. Spodoptera ep assign author	Meloidogyne sp.	Phytopthora ramorum Synchrytrium endobioticum	TOBRFV Phytoplasma
PCR-sequencing	Ralstonia sp.	Salvinia sp.	assign author		Phytopthora ramorum	Blind sample
HTS						Phytoplasma Blind sample
			1			
		3 samples per entomologist (#6) to verify their identification			b	EURL PT NL PT lind samples



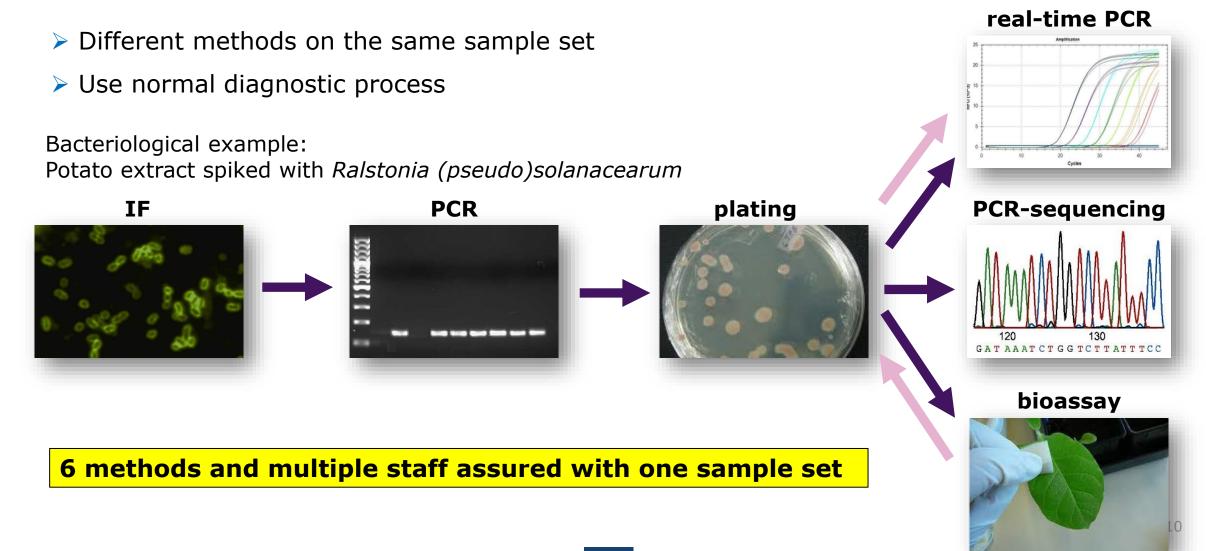
#### Annual assurance plan – next year

- Same methods
- Different organism (risk based)
- Assign staff to different methods





### Use of horizontally assurance





#### Summary

- Make use of transferable skills
- Define methods and group tests per method
- > Each method should be covered by 2<sup>nd</sup> or 3<sup>rd</sup> line controls
- > Use horizontally assurance were possible
- Keep shuffling (organisms, tests and staff)





### Finish – Start for questions

