

Legionellosis in the pan-European region and in the context of the Protocol on Water and Health

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5th session

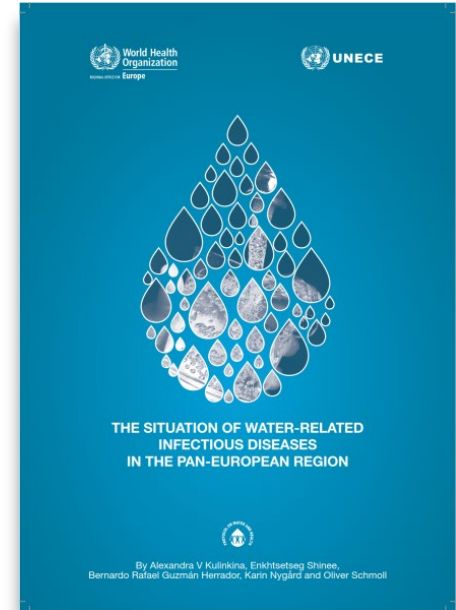
**Meeting of the Parties to the
Protocol on Water and Health**

19-21 November | Belgrade | Serbia



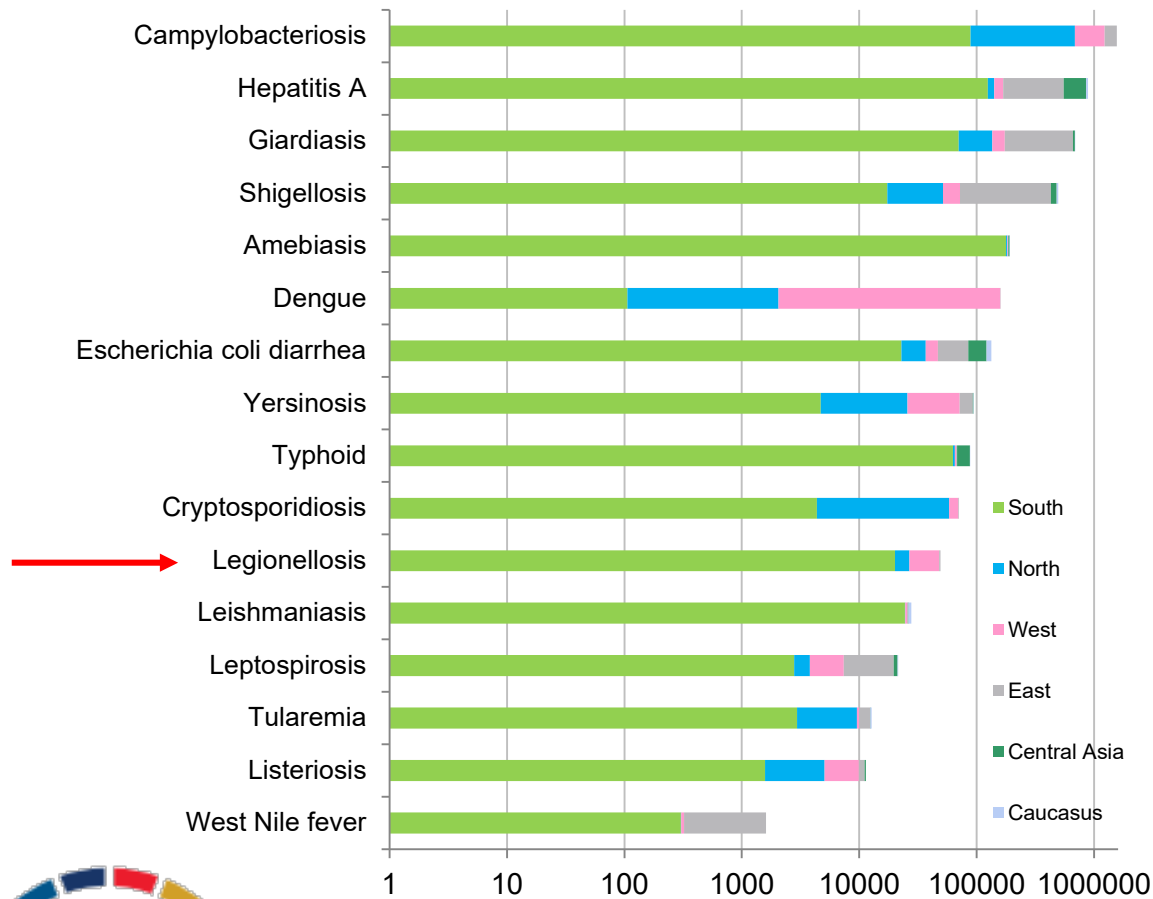
Prevention and control of water-related disease: priority for the pan-European region

- Water-related diseases and outbreaks are of common concern in the Region
- Legionella is one of the most common causes of outbreaks
- Protocol on Water and Health aims to reduce and control WRDs and strengthen national systems for surveillance and contingency planning and response
- Initial situation review of WRDs based on data:
 - Global Infectious Disease and Epidemiology Online Network (GIDEON)
 - WHO EURO Centralized Information System for Infectious Diseases (CISID)
 - The European Surveillance System (TESSy) maintained by the European Centre for Disease Prevention and Control

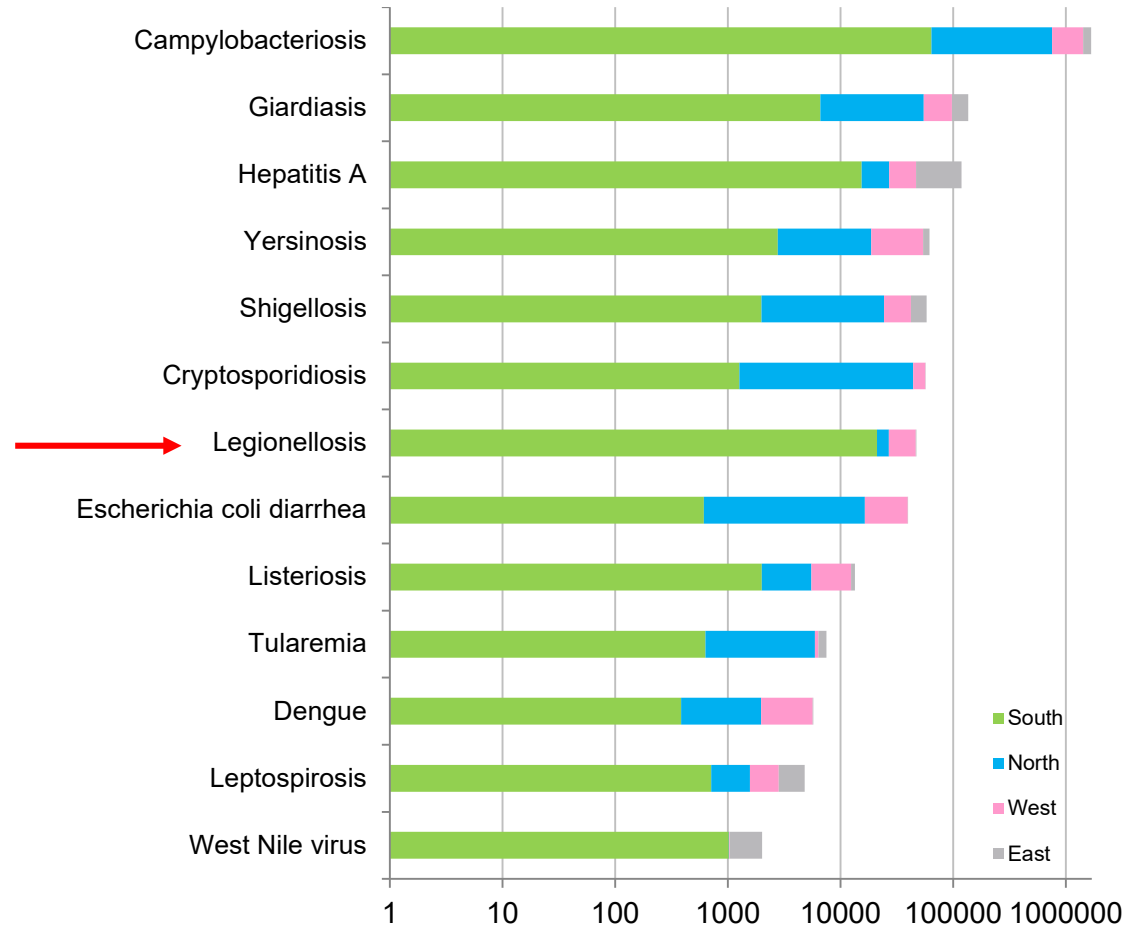


Reported WRD counts

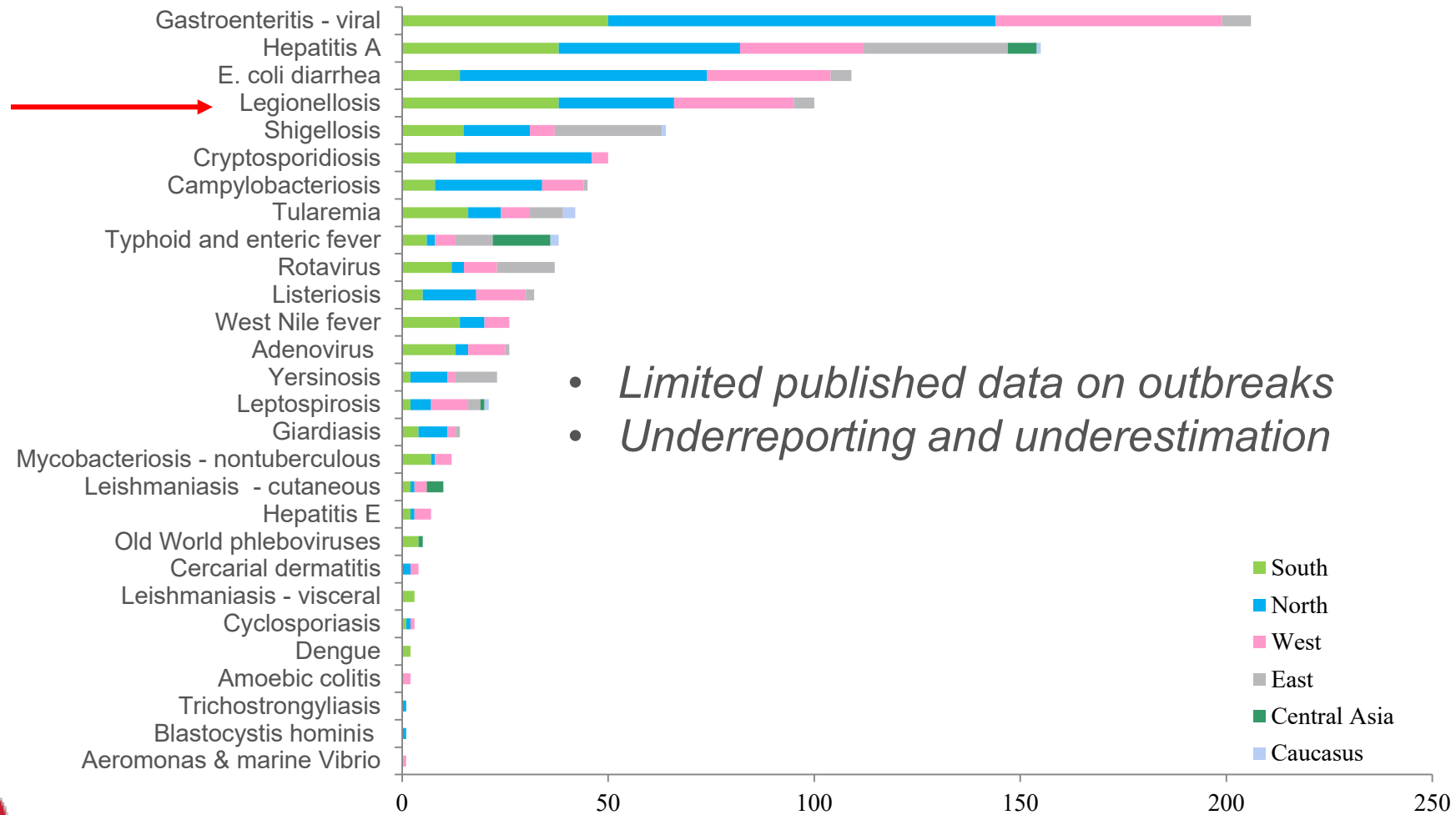
CISID (2000-2010), whole region



TESSy (2006-2013), EU countries



Infectious disease outbreaks recorded in GIDEON



- Limited published data on outbreaks
- Underreporting and underestimation

Source: Global Infectious Disease and Epidemiology Online Network (GIDEON), 2000-2013



Infectious disease outbreaks recorded in GIDEON

Pathogens with the highest number of outbreaks linked to water

- Legionella is one of the most common causes of outbreaks in Europe

Disease	WRD outbreaks	Countries	Most common sources
Legionellosis	37	15	Drinking water, water heater, cooling tower, spa
Gastroenteritis (viral)	24	12	Drinking water, swimming area, spa
Cryptosporidiosis	20	6	Drinking water, swimming pool
Hepatitis A	18	8	Drinking water, sauna
Campylobacteriosis	14	11	Drinking water
Leptospirosis	13	8	Drinking water, outdoor recreational area
Rotavirus	10	7	Drinking water
Shigellosis	9	8	Drinking water, fountain
Typhoid and enteric fever	9	4	Drinking water
Tularemia	8	4	Drinking water, spring
E. coli diarrhea	5	4	Drinking water, swimming pool
Giardiasis	5	5	Drinking water
Cercarial dermatitis	4	4	Outdoor swimming and bathing areas
Adenovirus	3	3	Drinking water, swimming pool
Mycobacteriosis (nontub.)	2	1	Swimming pool
Yersinosis	2	2	Drinking water
Aeromonas & marine vibrio	1	1	Swimming area
Blastocystis hominis	1	1	Drinking water



Source: GIDEON data for 2000-2013



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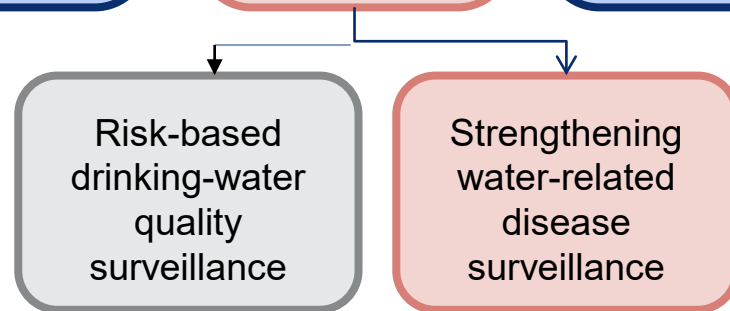
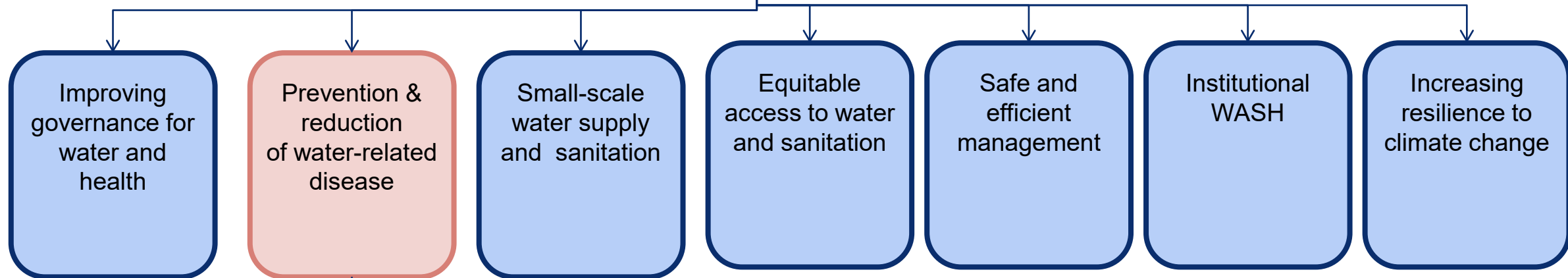


World Health Organization

REGIONAL OFFICE FOR Europe

Programme of work for 2020-2022

Priority programme areas



Capacity building to support implementation of Article 8:

- disseminate the new publication on WRID
- training modules and **capacity building** at national, subregional and regional levels
- Convene a **regional meeting** on **Legionella** infections
- Facilitate exchange of experience: **Legionnaires' disease prevention, control and surveillance**



National targets related to *Legionella*

Country	Targets
Azerbaijan	<ul style="list-style-type: none"> • Improve the potential for detection, epidemiological investigation of other emerging diseases, such as legionellosis, cryptosporidiosis, giardiasis by 2020 • Strengthen the case surveillance and the potential of epidemiological investigation of WRD outbreaks through improved regulatory and methodological documents and staff training
France	<ul style="list-style-type: none"> • Analyze incident disparity in the territory (east, western gradients) • Conduct investigation to better understand temporal-spatial distribution of legionella; maintain effective surveillance and alert;
Germany	<ul style="list-style-type: none"> • Revise the national Drinking Water Ordinance: clear regulations on legionella in hot water installations (water for human consumption as defined by Directive 98/83/EC) ..., including the operator's obligation ... and the introduction of a technical action value • Maintain MOH support to the Conciliary Laboratory for Legionella
Netherlands	<ul style="list-style-type: none"> • Reporting of water-related diseases and epidemics, including legionellosis (Reporting act Public Health)
Spain	Quality of wastewater, maximum acceptable value of Legionella : spp 100 CFU/L for private gardens and spp 1000 CFU/L for crop irrigation (risk of aerosolization)



Resources

