

Dricksvattendirektivet och legionella



Trust Quality
Progress



Drinking water is part of our DNA.



1948



IDAG



Trust, Quality, Progress then and now



Content*

Drinking Water Directive

- History, Why, What
- Why important
- Legionella
- Material i contact with drinking water

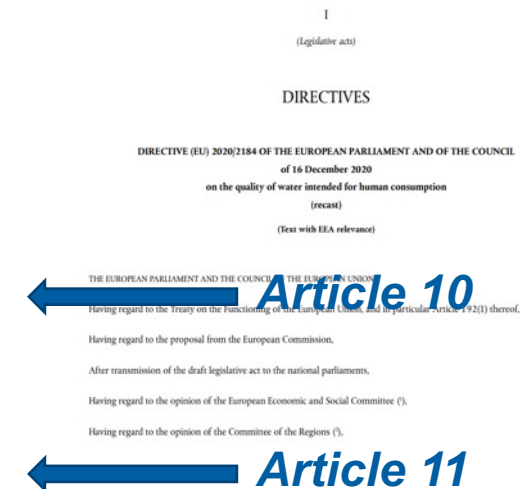
Implementation of DWD in The Netherlands (Legionella)

Questions

*Current status based on available information. Changes can occur.

Why new Drinking Water Directive

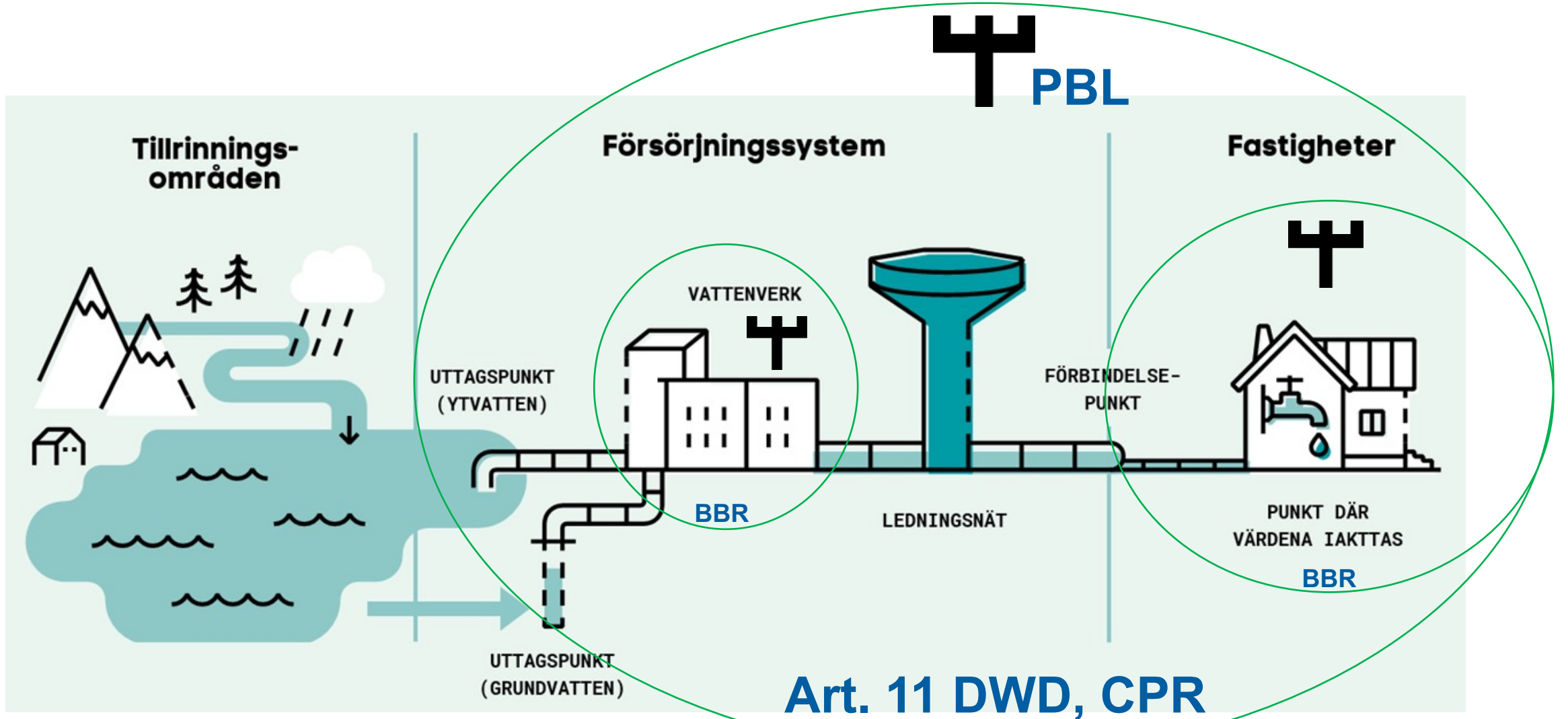
- ❑ **Introduction/New:** Overarching objective is to:
 - ❑ Ensure high level of protection of environment and human health
 - ❑ Ensure 'Right2Water', improve access to water
 - ❑ Update water quality standards
 - ❑ Risk-based approach from raw water to the tap (incl. legionella)
 - ❑ Improve information on water quality
 - ❑ Lower leakage water network incl report
 - ❑ In addition addresses the issue of materials in contact with drinking water



❑ Article 1: Objective

- ❑ This Directive concerns the **quality of water** intended for human consumption for all in the Union.
- ❑ The objective of this Directive shall be to **protect human health** from the adverse effects of any contamination of water intended for human consumption by ensuring that it is wholesome and clean, and to improve access to water intended for human consumption.

New Drinking Water Directive



New drinking water directive

Art.1	Objective
Art.2	Definitions
Art.3	Exemptions
Art.4	General obligations
Art.5	Quality standards
Art.6	Point of compliance
Art.7	Risk-based approach for water safety
Art.8	Risk assessment and risk management of catchment areas...
Art.9	Risk assessment and risk management for the supply system
Art.10	Risk assessment for the domestic distribution system
Art.11	Minimum hygienic requirements for materials in contact with water intended for human consumption
Art.12	Minimum requirements for treatment chemicals and filter media
Art.13	Monitoring
Art.14	Remedial action and restrictions in use
Art.15	Derogations
Art.16	Access to water intended for human consumption
Art.17	Information to the public
Art.18	Information on monitoring of implementation
Art.19-28	Evaluation, review, exercise of delegation, and other articles concerning implementation

Annex I: Minimum requirements for parametric values

Part A	Microbiological parameters
Part B	Chemical parameters
Part C	Indicator parameters
Part D	Parameters relevant for the domestic distribution risk assessment

Annex II: Monitoring

Part A	General objectives and monitoring programs
Part B	Parameters and sampling frequencies Group A, Core parameters Group B, All other parameters
Part C	Risk assessment of the supply system
Part D	Sampling methods and sampling points

Annex III: Specifications for the analysis of parameters

Part A	Microbiological parameters for which methods of analysis are specified
Part B	Chemical and indicator parameters for which performance characteristics are specified

Annex IV: Information to the public

Annex V: Principles for setting common methodologies



Article 10: risk assessment domestic distribution

Article 10: Risk assessment domestic distribution systems (Legionella & Lead)

Member state shall:

- Secure risk assessment domestic distribution systems on potential risks incl. monitor number of parameters (risk human health)
- Priority premises
- Secure measures to reduce these risks
 - Encourage risk assessments
 - Inform consumers and owners about measures
 - Advise consumers
 - Promote training for plumbers/professionals
 - Legionella ensure effective control & measures
 - Lead implement measures to substitution

Article 11.1 General requirements for materials

Member States shall ensure that materials [...] used in [...] installations for the abstraction, treatment, storage or distribution of water intended for human consumption do not:

- (a) directly or indirectly compromise the protection of human health as provided for by this Directive;
- (b) adversely affect the colour, odour or taste of the water;
- (c) enhance *microbial growth*;
- (d) leach contaminants into the water at levels that are higher than necessary in view of the intended purpose of the material.

For the purpose of ensuring the uniform application of paragraph 1, the Commission shall adopt implementing acts to establish the specific minimum hygiene requirements

DWD proposal-EU approval system

'Have your say'

Similar to current 4MSI documents and DE, NL systems

- ❑ But acting as market access requirement

Material type dependent

- ❑ organic, metallic, ceramic, cementitious
- ❑ European positive lists

Material evaluation

- ❑ Risk grouping
- ❑ Composition / recipe requirements
- ❑ Laboratory testing

Conformity assessment (certification)

- ❑ Type testing
- ❑ Procedure for conformity to type

EU Declaration of Conformity (DoC) and Marking

- ❑ For market access (!)
- ❑ Not compliance with local building legislation

Risk group

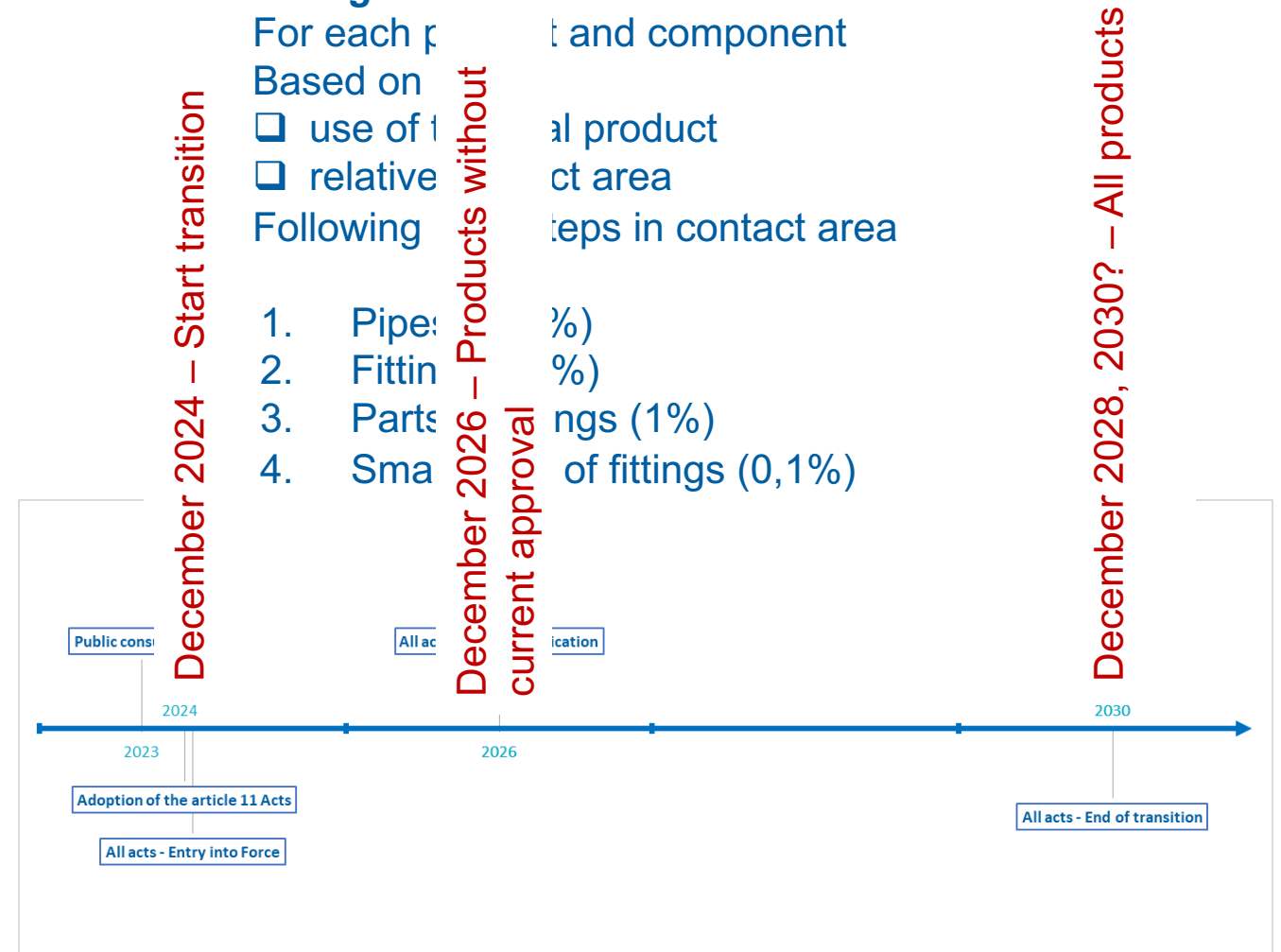
For each product and component

Based on

- ❑ use of material product
- ❑ relative contact area

Following steps in contact area

1. Pipes (0,1%)
2. Fittings (0,1%)
3. Parts of fittings (1%)
4. Small fittings of fittings (0,1%)



Future practice (proposal)

EU Declaration of Conformity (DoC) and Marking

- Responsibility of manufacturer / importer
- DoC is based on the conformity assessment procedure (certification)

- For market access (!)
- Not compliance with local building legislation

- Marking obligatory. See there →



Implementation in Sweden

National implementation Drinking Water Directive (Jan 2023): ongoing

- ❑ Ongoing (expected March 2024)
 - ❑ Drinking water investigation (Dricksvattenutredning N 2020:05)
 - ❑ Proposition 2023/24:30
 - ❑ Livsmedelslagen
 - ❑ Plan- och bygglagen (article 11)
 - ❑ Miljöbalken
 - ❑ Hälsoskyddsbestämmelsen (article 10)
- ❑ Revision of BBR (article 10)



Implementation in The Netherlands (DWD-Legionella)

National implementation Drinking Water Directive: Drinkwater besluit (2022-11-08) Legionella art.35-44A

- Keep high demand Legionella parametric value < 100 CFU/l (political: keep low risk level)
 - Values over >1.000 CFU/l mandatory to report
 - Owners' responsibility
- Priority premises defined (Earlier research RIVM)
 - Hospitals, Nursing homes, Swimming facilities, Hotels, Harbors, Public bathrooms
- Legionella risk Analyses conform BRL 6010 by certified expert (by accredited certification body)
 - Assessment
 - installation (hardware) against installation demands (NEN1006)
 - control plan (software)
 - Demands
 - Update of the installation
 - Risk management plan (weekly, monthly etc. measures)
 - Number of samples to take each 6 months
- In case of changes/updates in the system a new risk analyses is needed
- Alternative systems accepted only when certified conform BRL-k14010
- Temperature demanded in the system is 60°C (discussion ongoing but current advice do not change)

Summary

❑ Big change is coming

- ❑ Hygienic part of National approval systems will be phased out
- ❑ Products will be regulated on market, not on use
- ❑ One hygienic approval for entire EU
- ❑ Pressure to secure and minimize risks for Legionella (analyses, information, training)

❑ Important dates

- ❑ March 2024 implementation DWD in Swedish law
- ❑ Material in contact with drinking water
 - ❑ Dec 2024 Entry into force -> documents final; we can start
 - ❑ Dec 2026 Date of application -> noncertified products must comply
 - ❑ Dec 2028/2030? End of transition -> All products must comply

❑ Current approvals stay in place

- ❑ For near future
- ❑ Hygienic demands will be covered by DoC
- ❑ Suitability for use (=local legislation) secured by approval (type approval)



We create trust



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