

# Verification of the quality of materials that come into contact with water intended for human consumption in Slovakia

Overovanie kvality materiálov, ktoré prichádzajú do styku s pitnou vodou v SR

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RÚVZ so sídlom v Poprade

International workshop

*Securing Drinking Water Supply*

*Session 4: Best practice examples*

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Interreg Programme  
**Danube Region**



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# Materials that come into contact with water intended for human consumption (DWM)

The nature of materials that come into contact with water intended for human consumption can have an impact on the quality of such water through the migration of potentially harmful substances, by enhancing microbial growth or by influencing the odour, colour or taste of such water



an underestimated source of contamination

Different types of materials (included starting substances (monomers, additives (IAS) and NIAS...)

Quality of water intended for human consumption



# Materials that come into contact with water intended for human consumption (DWM)



2007

Act no. 355/2007 Coll. on the protection, support and development of public health (basic requirements for DWM)

2023

Amendment of Act no. 355/2007 Coll. on the protection, support and development of public health (basic requirements for DWM - transposition)

**NEW**

Directive 2020/2184 (EU) of the European Parliament and of the Council on the quality of water intended for human consumption

Decree of Ministry of Health of the Slovak Republic no. 550/2007 Coll. on details of requirements for products intended for contact with drinking water

# Materials that come into contact with water intended for human consumption (DWM)

Frame law – general requirements

Amendment of Act no. 355/2007  
Coll. on the protection, support  
and development of public health  
(basic requirements for DWM)

2023

Materials and products, which are intended for use in new devices, during repair or reconstruction in facilities used for the collection, treatment, accumulation or distribution of drinking water, and which come into contact with drinking water, are dangerous to health if :

- a) directly or indirectly endanger human health,
- b) do not adversely affect the color, smell, taste of drinking water,
- c) do not support microbial growth
- d) do not release soot in their drinking water contaminants to a greater extent than the intended purpose use necessary.

obligation

A natural person or a legal entity that placing materials or products intended for contact with drinking water on the market, is obliged to ensure compliance with health requirements of safety for materials and products intended for contact with drinking water according to the specific law (decree)

# Materials that come into contact with water intended for human consumption (DWM)

## Specific requirements

Decree of Ministry of Health of the Slovak Republic no. 550/2007 Coll. on details of requirements for products intended for contact with drinking water

The so-called positive lists for :

§ 5 Dyeing, printing and decoration

§ 6 Surface treatment

§ 7 Plastic products

(Regulation (EC) No. 10/2011 on plastic materials and articles)

§ 8 Elastomer and rubber products based on natural rubber or synthetic rubber

Methodology of testing

Mutual recognition principle

# Introduction



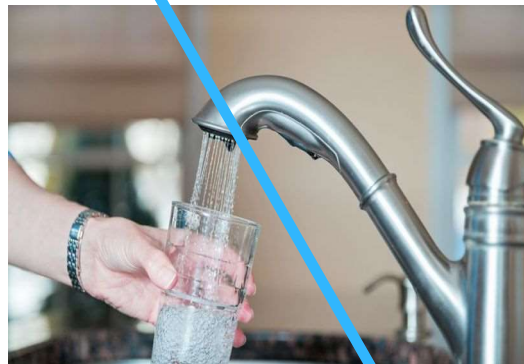
REGIONÁLNY  
ÚRAD VEREJNÉHO  
ZDRAVOTNÍCTVA  
SO SÍDLOM V POPRADE

Public Health Authority in Bratislava  
Regional Public Health Authorities (36)

FCM – Food Contact  
Materials



NRC (1998) and NRL  
(2007) for FCM  
Scope: legislation,  
organisation of official  
control, testing of FCM,  
trainings...



DWM – fixed public or  
private water supply  
equipment

Since 2007 under the  
umbrella of NRC for FCM

07/02/2023  
National reference centre for  
materials, products, filter media  
intended for contact with drinking  
water and water treatment  
chemicals

# Introduction – legal basis



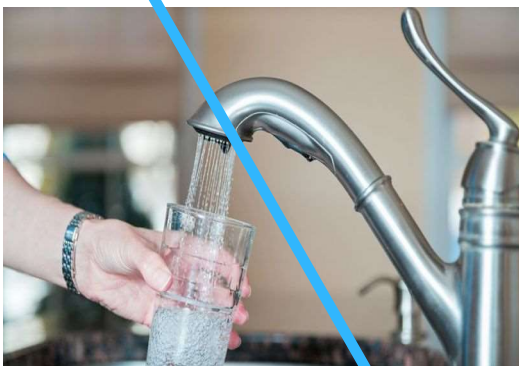
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FCM – Food Contact  
Materials

17 types of  
materials  
(combination)

- Regulation EC No 1935/2004
- Specific directives/regulation (10/2011 - plastic, 2018/321 – restriction of BPA, ceramics, regenerated cellulose, active and intelligent materials..



DWM – fixed public or  
private water supply  
equipment

- Act no. 355/2007 Coll. on the protection, support and development of public health (basic requirements for DWM)
- Decree edict no 550/2007 (requirements for material composition and testing)

Food Code  
(non-harmonised FCM)

# Project: Verification of the quality of drinking water materials in Slovakia 2019 - 2021

## \* Aim:

- \* assessment of the situation in the area of DWM (criteria for safety)
- \* collected information used as a starting point for re-evaluation of national legislation



## \* Timetable: 2019 – 2021

## \* Outputs:

- \* collected information used as a starting point for re-evaluation of national legislation:
  - a) on general level – requirements for production and placing on the market
  - b) on specific law – detailed requirements for material composition (positive list), testing scheme..
  - c) instructions for the performance of state health supervision in the area of products intended for contact with drinking water.





## Project stages 2019 – 2021

### 1st Stage - Guideline

**2019**

Preparation of guideline for inspectors  
(36 Public Health Authorities)

### 2nd Stage – Practical implementation of the project

**2020 – 2021**

Construction approval: require the submission of documentation for products intended for contact with drinking water and data on the products and record the submitted documentation.

### 3rd Stage – Assessment

**2021**

Processing of collected data and suggestions for further solutions.

**OVERENIE KVALITY MATERIÁLOV, KTORÉ PRICHÁDZAJÚ DO STYKU  
S PITNOU VODOU** - *Usmernenie k projektu úradov verejného zdravotníctva v SR na rok  
2019 a ďalšie roky (Projekt č. 1.8; od 1.1.2020 Projekt č. 1.4.)*

**Cieľ:**

- vytvorenie prehľadu o výrobkoch, ktoré sa na Slovensku používajú ako výrobky určené pre styk s pitnou vodou a o dokladoch, ktorými je preukazovaná ich vhodnosť pre styk s pitnou vodou,
- posúdenie celkovej situácie na trhu v oblasti výrobkov určených na styk s pitnou vodou v nadväznosti na zozbierané informácie,
- získanie podkladov pre prijatie účinných opatrení a riešení do budúcnosti napr.:
  - a) prípravu legislatívy v oblasti výrobkov prichádzajúcich do kontaktu s pitnou vodou v rámci Európskej únie,
  - b) novelu vyhlášky Ministerstva zdravotníctva Slovenskej republiky č. 550/2007 Z. z. o podrobnostiach o požiadavkách na výrobky určené na styk s pitnou vodou,
  - c) pokyny pre výkon štátneho zdravotného dozoru v oblasti výrobkov určených pre styk s pitnou vodou

## Detailed guideline

### A) CURRENT LEGAL STATUS / SÚČASNÝ LEGISLATÍVNY STATUS

### B) PRACTICAL IMPLEMENTATION / PRAKTICKÁ IMPLEMENTÁCIA

#### Examples:

- Posudok o zdravotnej bezpečnosti výrobkov (materiálov a predmetov) určených na styk s pitnou vodou vydaný NRC pri RÚVZ Poprad.
- Posudok TSÚ Piešťany alebo iného technického skúšobného ústavu (slovenského alebo českého), ktorý je oprávnený technicky osvedčovať stavené výrobky.
- Dokumentácia kompetentných úradov iných členských štátov podľa národných predpisov ako napr.:
  - Posudok podľa vyhlášky MZ ČR č. 409/2005 Sb. o hygienických požiadavkách na výrobky prichádzajúce do priameho styku s vodou a na úpravu vody (Česká republika).
  - Správa z materiálového testovania na obsah ťažkých kovov z nerezovej oceli, ÖVGW certifikáty (Rakúsko).
  - Certifikát sanitárnej zhody vydaný CARSO – Laboratoire Santé Environment Hygiene De Lyon (Francúzsko).
- DVGW- certifikát vydaný DVGW CERT GmbH (Nemecko).
- Posúdenie podľa WRAS schémy (Water Regulations Advisory Scheme).

## Detailed guideline

Mutual recognition principle  
Health safety certificates/certificates recognized in the  
Slovak Republic from all EU countries, the European  
Free Trade Association and Turkey

The most important  
certification schemes

State	Certification schemes
Germany	DVGW
France	ACS
Netherlands	KIWA
United Kingdom	WRAS

Table with  
relevant  
information

Príloha 2

**OVERENIE KVALITY MATERIÁLOV,  
KTORÉ PRICHÁDZAJÚ DO STYKU S PITNOU VODOU**

*Usmernenie k projektu úradov verejného zdravotníctva v SR na rok 2019 a ďalšie roky (Projekt č. 1.8; od 1.1.2020 Projekt č. 1.4.)*

Date	Object/ city	Product (description)	Supplier or importer	Type of material	Country of origin	Submitted documentation	Other information) reason of not- submitted doc.)
Dátum	Objekt a miesto	Výrobok (+ značka, popis)	Dodávateľ alebo výrobca	Druh materiálu	Krajina pôvodu	Dokumentácia k výrobku	Doplňujúce info napr. dôvody nepredloženia dokumentácie a pod.

example

Dátum	Objekt a adresa	Výrobok (značka + popis)	Dodávateľ alebo výrobca	Druh materiálu	Krajina pôvodu	Dokumentácia s výrobku	Doplňujúce informácie, napr. dôvody nepredloženia dokumentácie a pod.
19.4.2021	Rozšírenie vodovodu, Zubrohlava, lolalita Klinec a Skladaná	plnostenné rúry z nemäkčeného PVC-U, DN 110-500	PLASTIMEX, Psary, ul. Powstanców 37, 42-287 Lubsza	PVC-U	Poľsko	vyhlásenie o úžitkových vlastnostiach č. 1/17	
		fleksibilní drenážní trubky a tvarovky DN 110	BÖHM-EXTRUPLAST s.r.o., Krajková 264, 357 08 Krajková, ČR	PP a PE	ČR	certifikát výrobku č. 08 0183/V/AO/e, 21.12.2018	
		svěrné spojky s PP	STP fittings s.r.o., 2. května 685, 763 61 Napajedla, ČR	ISPLEN PB 110 T5E	Španielsko	certifikát výrobku č. 18 0217 V/AO, 25.05.2018	
		zemní soupravy šoupátkové, ventilové - tuhé, teleskopické	HECKL s.r.o., Čechová 505, 278 01 Kralupy nad Vltavou, ČR	neuvedené	ČR	prohlášení o zhode zo 01.07.2010	
24.9.2021	Rozšírenie vodovodu, Zábiedovo - Hrady Vyšné	rúry DN 110	CAMPRI, s.r.o., Hlohovecká 13, Lužianky, IČO: 17639719	PE-HD	SR	certifikát výrobku SK06-ZSV-0208	
		hydrant DN 80	neuvedené	liatina	Poľsko	certifikát SK-03-ZVS-0257	
		hydrant DN 80	Aquatrade NR, s.r.o., Priemyselná 2, 949 01 Nitra	liatina	neuvedené	SK - Certifikát zhody č. SK 03-ZSV-0257	
		elektrotvarovky DN 100	CAMPRI, s.r.o., Hlohovecká 13, Lužianky, IČO: 17639719	PE-HD	Izrael	certifikát výrobku SK06-ZSV-0112/zmena 01-2012	

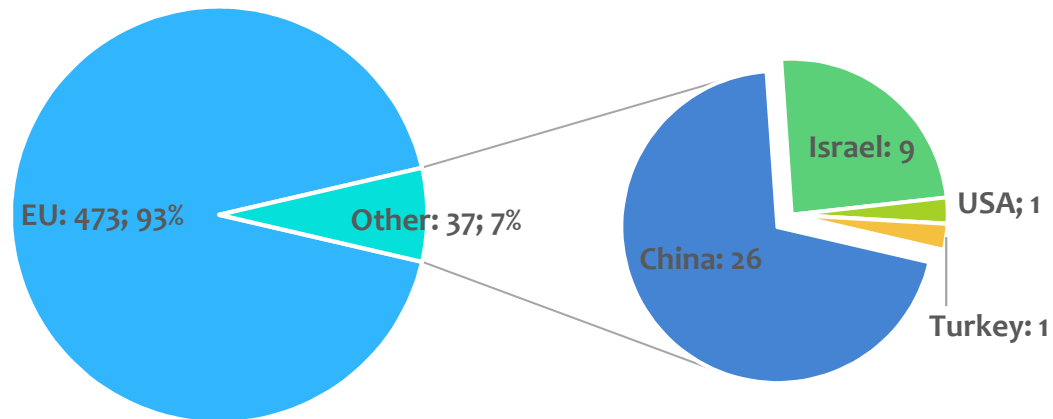


# Results 2020

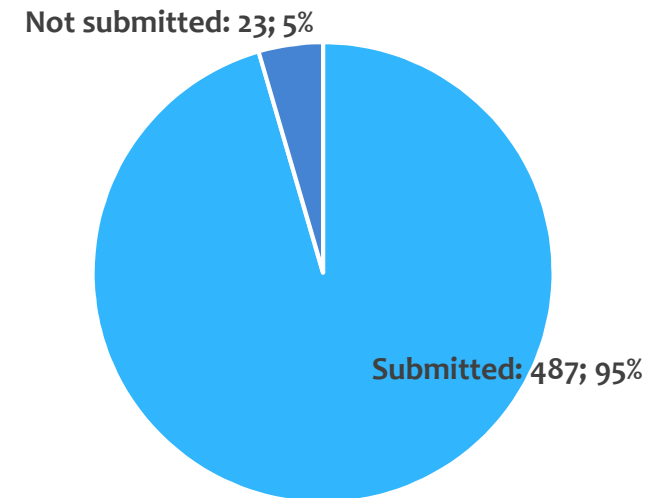
- \* 15 Public Health Authorities in Slovak republic:
  - \* Humenné, Trenčín, Nitra, Trebišov, Topoľčany, Martin, Dolný Kubín, Stará Ľubovňa, Bratislava, Komárno, Poprad, Veľký Krtíš, Bardejov, Michalovce, Lučenec
- \* 182 building objects
  - \* multifunctional and residential buildings, kindergartens and schools, accommodation facilities, shopping centers, warehouses, stores, health centers, reconstruction and construction of water pipes and reservoirs, food factories, etc.
- \* 510 DWM
  - \* water supply systems and distribution, pipes, fittings and fittings, batteries, waterproofing, pumps, etc.
  - \* different types of materials: PP, PE, PVC, stainless steel, steel, brass, cast iron, ceramics, cast iron, galvanized materials, etc.

# Results 2020

## Origin of DWM



## Documentation





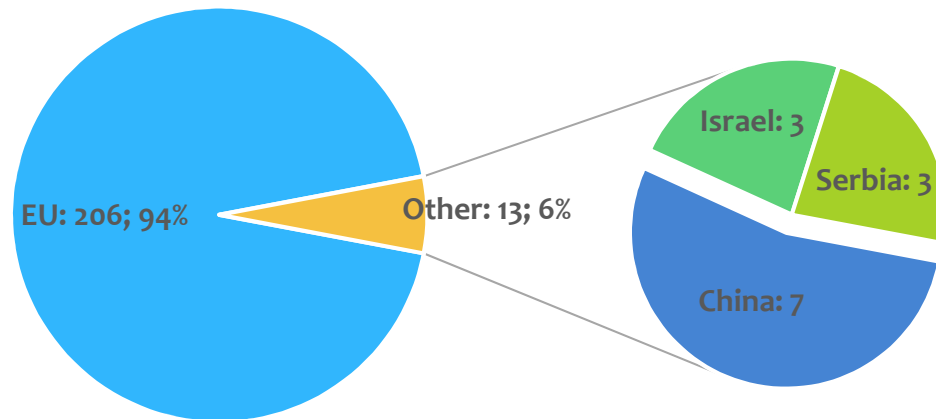


# Results 2021

- \* 11 Public Health Authorities in Slovak republic:
  - \* Humenné, Rožňava, Veľký Krtíš, Čadca, Michalovce, Nové Zámky, Dolný Kubín, Stará Ľubovňa, Bratislava, Topoľčany, Žilina
- \* 108 building objects
  - \* multifunctional and residential buildings, kindergartens and schools, accommodation facilities, shopping centers, warehouses, stores, health centers, reconstruction and construction of water pipes and reservoirs, food factories, etc.
- \* 219 DWM
  - \* water supply systems and distribution, pipes, fittings and fittings, batteries, waterproofing, pumps, etc.
  - \* different types of materials: PP, PE, PVC, stainless steel, steel, brass, cast iron, ceramics, cast iron, galvanized materials, etc.

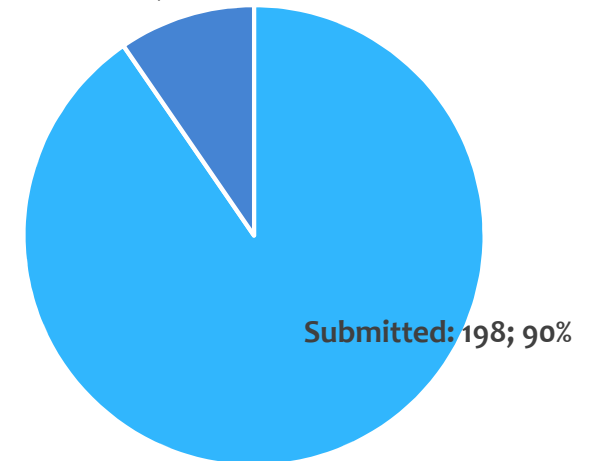
# Result 2021

## Origin of DWM



## Documentation

Not submitted: 21; 10%

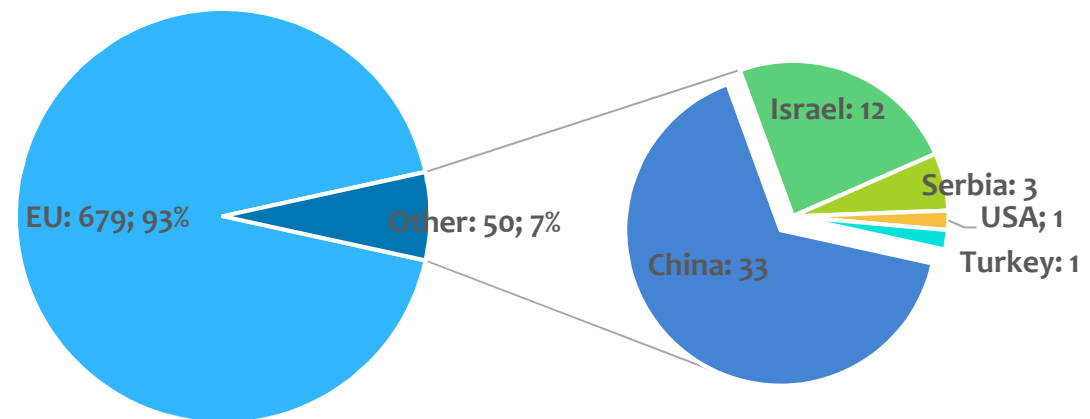
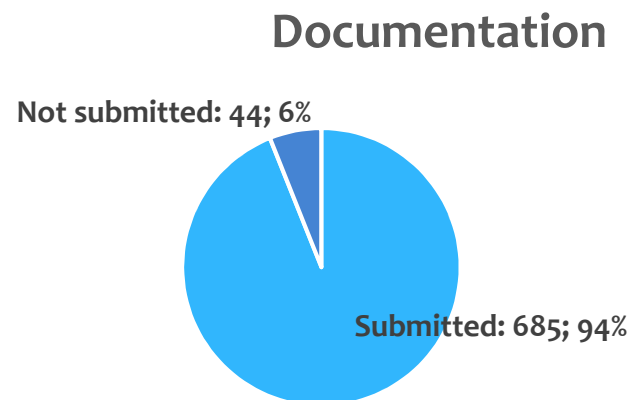


# Findings



- \* Total : 21 Public Health Authorities in The Slovak republic
  - \* Humenné, Trenčín, Nitra, Trebišov, Topoľčany, Martin, Dolný Kubín, Stará Ľubovňa, Bratislava, Komárno, Poprad, Veľký Krtíš, Bardejov, Michalovce, Lučenec, Rožňava, Čadca, Michalovce, Nové Zámky, Topoľčany, Žilina
- \* Total building objects: 290
- \* Total: 729 DWM

## Origin of DWM





# Conclusions - visions

- Conclusion  
the market situation in the area of products intended for contact with drinking water is favorable
- Re-evaluation of national legislation will follow..



New  
challenges

**COMMISSION DELEGATED REGULATION (EU) .../...**

**of XXX**

**supplementing Directive (EU) 2020/2184 of the European Parliament and of the Council by laying down conformity assessment procedures for products that come into contact with water intended for human consumption and the rules for the designation of conformity assessment bodies involved in those procedures**

**ANNEXES**

**to the**

**Commission Delegated Regulation**

**supplementing Directive (EU) 2020/2184 of the European Parliament and of the Council by laying down conformity assessment procedures for products that come into contact with water intended for human consumption and the rules for the designation of conformity assessment bodies involved in those procedures**

**COMMISSION IMPLEMENTING DECISION (EU) .../...**

**of XXX**

**laying down rules for the application of Directive (EU) 2020/2184 of the European Parliament and of the Council as regards the procedures and methods for testing and accepting final materials as used in products that come into contact with water intended for human consumption**

**ANNEXES**

**to the**

**Commission Implementing Decision**

**laying down rules for the application of Directive (EU) 2020/2184 of the European Parliament and of the Council as regards the procedures and methods for testing and accepting final materials as used in products that come into contact with water intended for human consumption**



New  
challenges

COMMISSION IMPLEMENTING DECISION (EU) .../...

of **XXX**

laying down rules for the application of Directive (EU) 2020/2184 of the European Parliament and of the Council by establishing the European positive lists of starting substances, compositions and constituents authorised for use in the manufacture of materials or products that come into contact with water intended for human consumption

ANNEXES

to the

Commission Implementing Decision

laying down rules for the application of Directive (EU) 2020/2184 of the European Parliament and of the Council by establishing the European positive lists of starting substances, compositions and constituents authorised for use in the manufacture of materials or products that come into contact with water intended for human consumption

COMMISSION IMPLEMENTING DECISION

of **XXX**

laying down rules for the application of Directive (EU) 2020/2184 of the European Parliament and of the Council as regards methodologies for testing and accepting starting substances, compositions and constituents to be included in the European positive lists

ANNEXES

to the

Commission Implementing Decision

laying down rules for the application of Directive (EU) 2020/2184 of the European Parliament and of the Council as regards methodologies for testing and accepting starting substances, compositions and constituents to be included in the European positive lists



New  
challenges

**COMMISSION DELEGATED REGULATION (EU) .../...**

**of XXX**

**supplementing Directive (EU) No 2020/2184 of the European Parliament and of the Council by establishing harmonised specifications for the marking of products that come into contact with water intended for human consumption**

**ANNEX**

**to the**

**Commission Delegated Regulation**

**supplementing Directive (EU) No 2020/2184 of the European Parliament and of the Council by establishing harmonised specifications for the marking of products that come into contact with water intended for human consumption**

**COMMISSION DELEGATED REGULATION (EU) .../...**

**of XXX**

**supplementing Directive (EU) 2020/2184 of the European Parliament and of the Council by laying down the procedure regarding inclusion in or removal from the European positive lists of starting substances, compositions and constituents**

**ANNEX**

**to the**

**COMMISSION DELEGATED REGULATION (EU) .../...**

**supplementing Directive (EU) 2020/2184 of the European Parliament and of the Council by laying down the procedure regarding inclusion in or removal from the European positive lists of starting substances, compositions and constituents**

**Thank you for your attention**

