



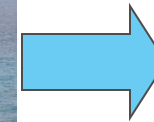
Watch List under the Water Framework Directive Selection Process of New Substances

Teresa Lettieri, DG JRC

Water and Marine Resources, Unit D2

Review of the Water-related policies

Water Framework
Directive (WFD) &
Groundwater Directive



Bathing Water Directive

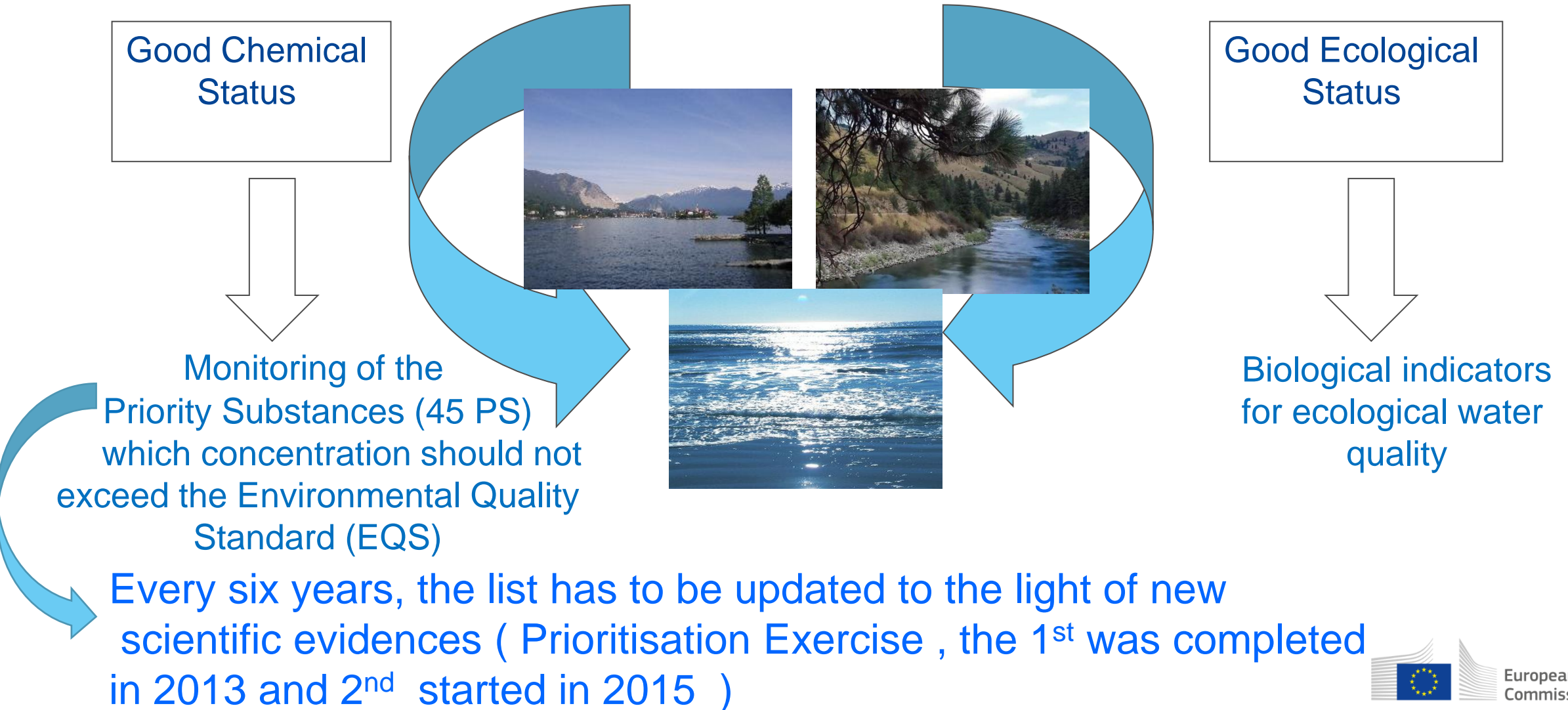


Urban Waste
Water Treatment
Directive
(UWWTD)



RECAST Drinking
Water Directive
(EU) 2020/2184)

Water Framework Directive (WFD)

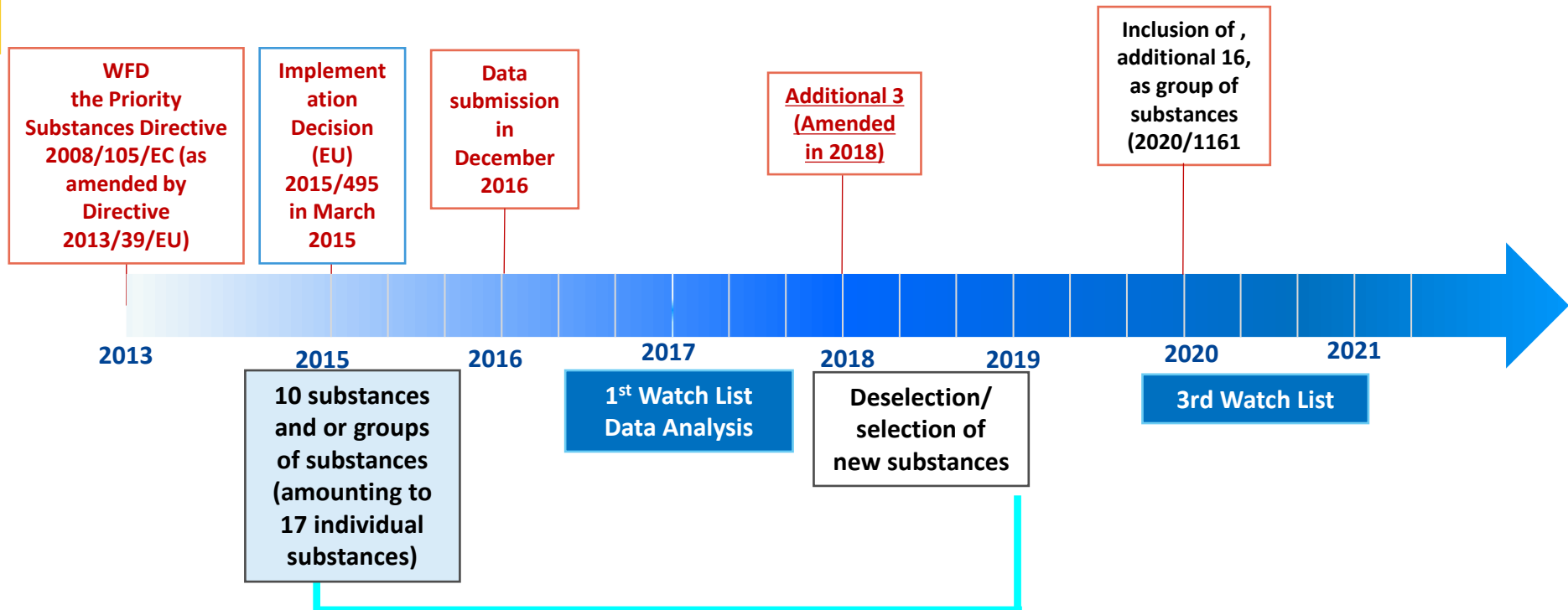


Watch List Watch List Program under WFD

- Watch List Program is a mechanism to gather high- quality Union-wide monitoring data on emerging pollutants and substances that may pose a significant risk at Union level to or *via* the aquatic environment, but for which available monitoring data are insufficient to draw conclusions on the actual risk posed, and whether the EQS should be set for them at EU level.



Watch List Watch List Program under WFD: Timeline



Maximum 4 years, but after two years, substances can be deselected

➔ The maximum number of substances or groups of substances that the Commission is allowed to include in the list shall increase by one at each update of the list in accordance with paragraph 2 of this Article, up to a maximum number of 14.

List of substances in the 3rd WL (EU 2020/1161)

CAS	Substance	Type	PNEC (µg/L)	
26787-78-0	Amoxicillin	Antibiotic	0.078	2018
85721-33-1	Ciprofloxacin	Antibiotic	0.089	
139968-49-3	Metaflumizone	Insecticide	0.065	
723-46-6	Sulfamethoxazole	Antibiotic	0.1	2020
738-70-5	Trimethoprim	Antibiotic	0.1	
93413-69-5	Venlafaxine	Antidepressant	0.006	
93413-62-8	O-desmethylvenlafaxine	Antidepressant	0.006	
23593-75-1	Clotrimazole	Antifungal drug	0.02	
86386-73-4	Fluconazole	Antifungal drug	0.25	
35554-44-0	Imazalil	Antifungal drug	0.8	
125225-28-7	Ipconazole	PPP	0.044	
125116-23-6	Metconazole	PPP	0.029	
22916-47-8	Miconazole	PPP	0.2	
66246-88-6	Penconazole	PPP	1.7	
67747-09-5	Prochloraz	PPP	0.161	
107534-96-3	Tebuconazole	PPP/Biocide	0.24	
112281-77-3	Tetraconazole	PPP	1.9	
149961-52-4	Dimoxystrobin	Fungicide	0.032	
131807-57-3	Famoxadone	Fungicide	0.0085	

Criteria for the selection of substances

Prioritisation Exercise
(Criteria 1-3)



Lack of monitoring data and highly ranked in the modelling exercise

Watch List review and recommendations for further information
(Criterion 4)



Identified in the WL review but lack of crucial information i.e. analytical method, PNEC*, renewal authorisation

Literature search and other sources (emerging pollutants/concern)
(Criterion 5)



Use of monitoring data to improve knowledge for i.e. environmental contribution to the Antimicrobial Resistance (AMR)

* Predicted No effect Concentration

Criteria 1-3 (I)

Prioritisation Exercise : Universe of chemicals

ca. 6300 substances

PPP

Biocides

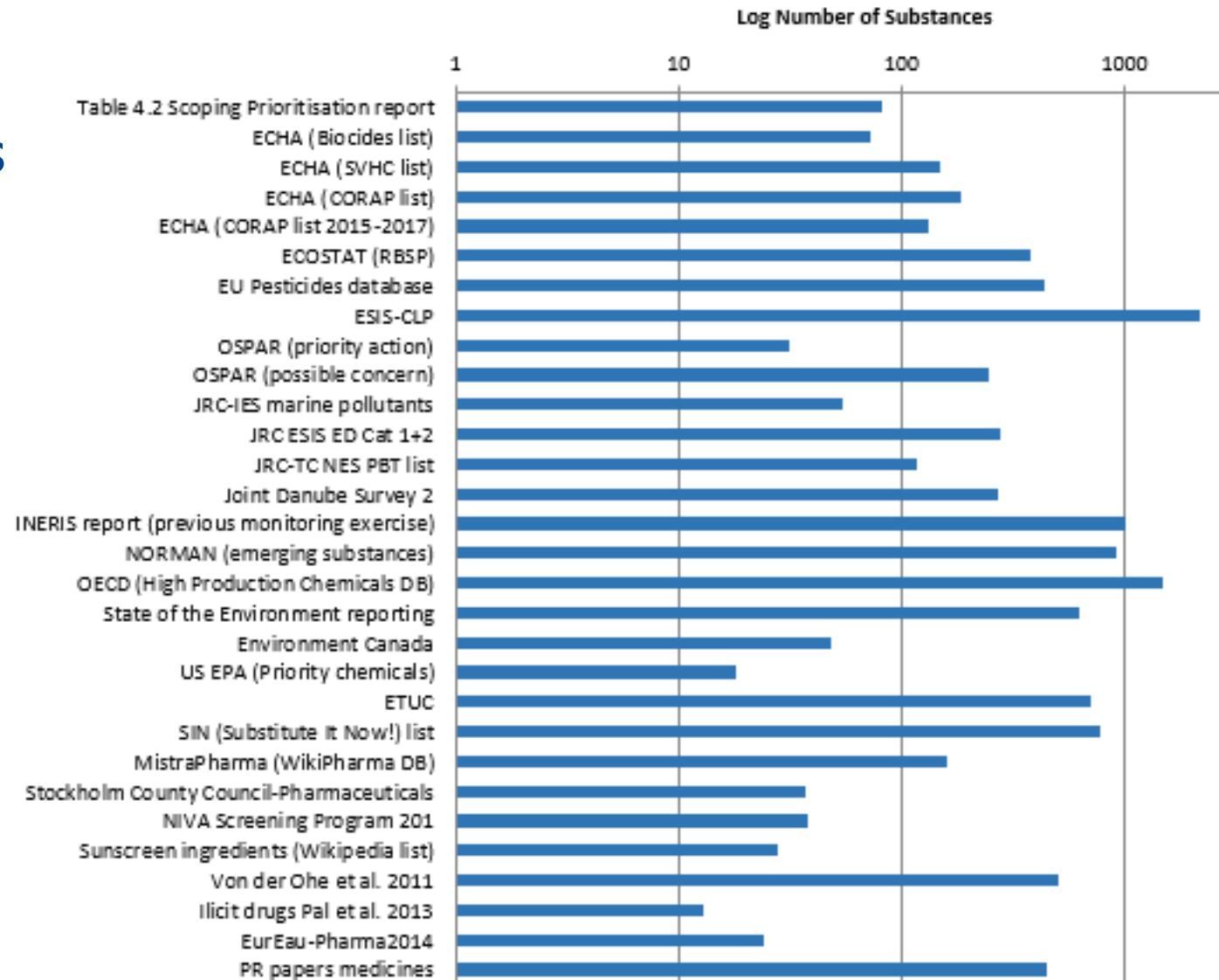
Veterinary medicines

Human medicines

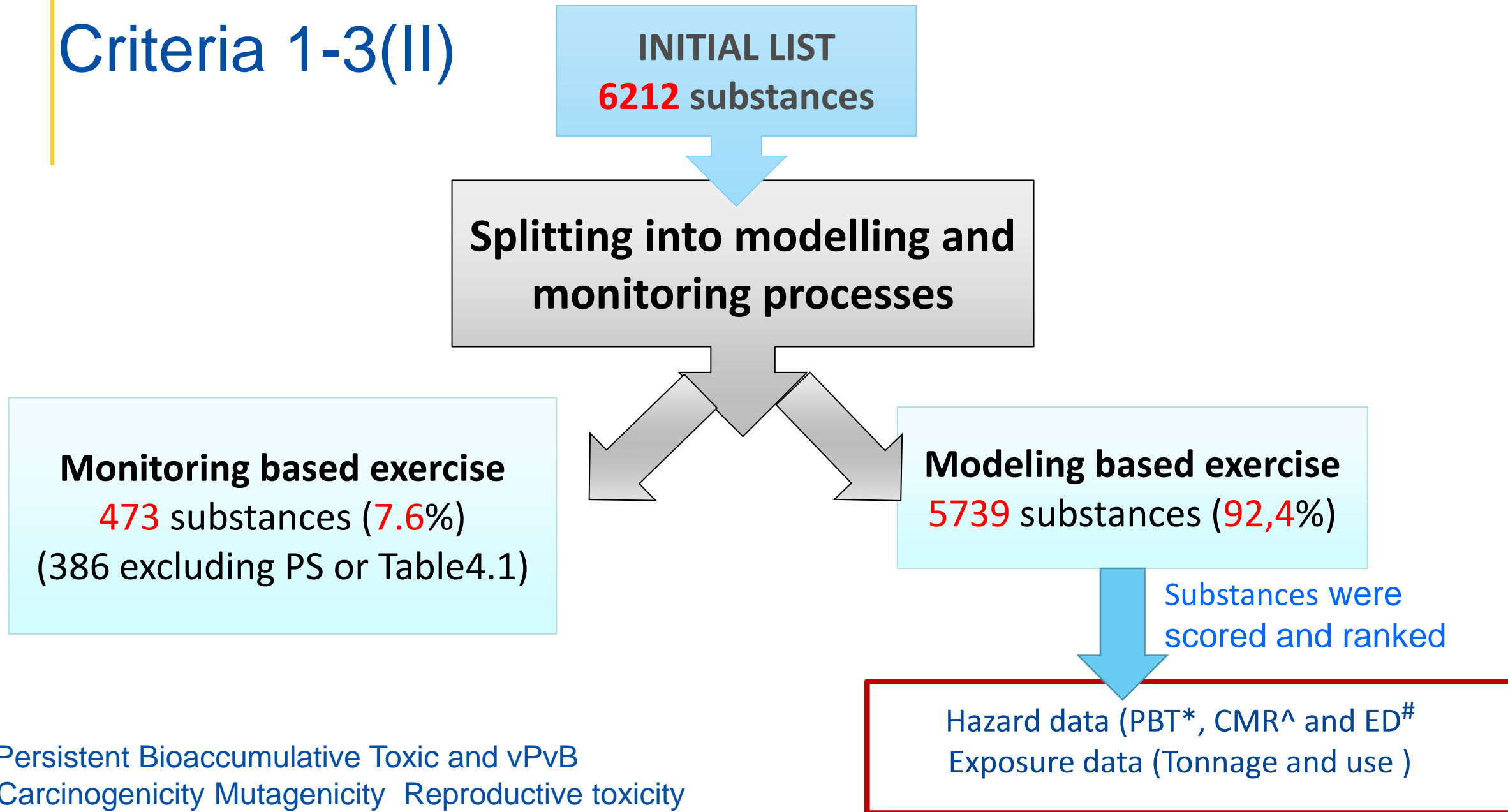
Inorganic compounds

Cosmetic products

Generic industrial uses



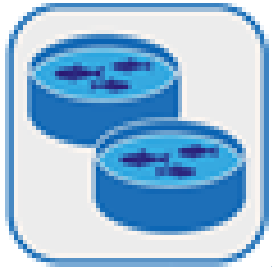
Criteria 1-3(II)



*Persistent Bioaccumulative Toxic and vPvB
^Carcinogenicity Mutagenicity Reproductive toxicity
#Endocrine Disruptor




Criterion 5: Antimicrobial Resistance

Aquaculture



Antimicrobial Pressure

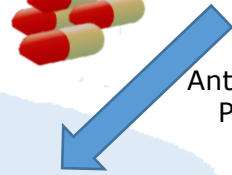


-  Sensitive Bacteria/Fungi
-  Bacteria /Fungi with acquired resistance
-  Naturally Resistant Bacteria (Fungi?)

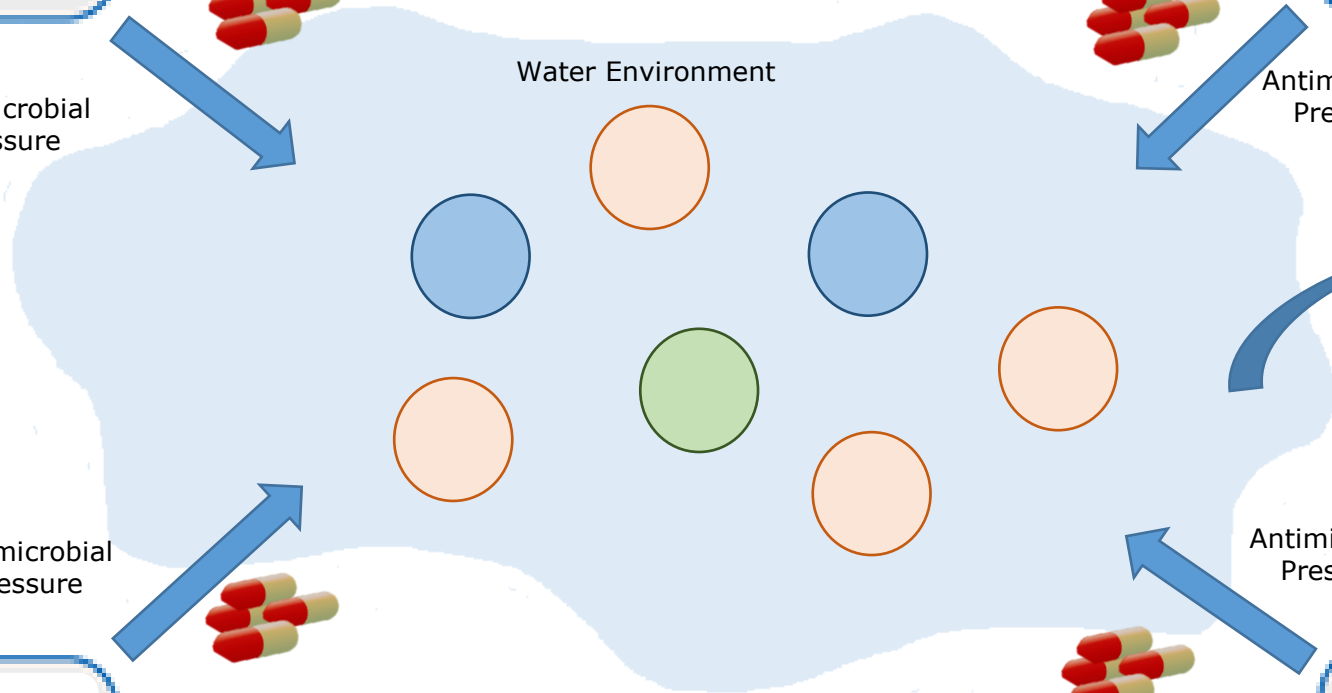
Agriculture



Antimicrobial Pressure



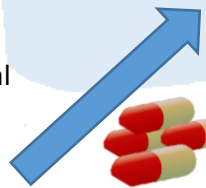
Water Environment



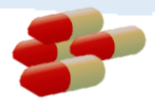
Antimicrobial Pressure



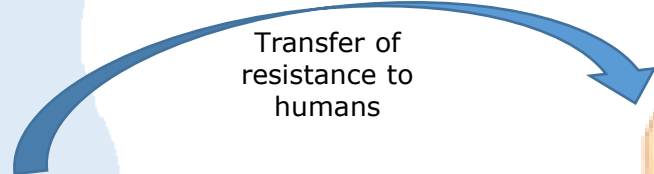
Industrial Waste



Antimicrobial Pressure



Urban Waste



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Conclusion

- Watch list is a dynamic process which aims is to
 - i) identify substances of concern and obtain high quality monitoring data
 - ii) determine their risk at EU level
 - iii) derive an Environmental Quality Standard(EQS)
 - iv) shortlist as candidate PS

- The criteria for selections are based on hazard properties and (where available exposure data), use, reliable Predicted No effect Concentration (PNEC), available analytical methods and emerging concern.

- In addition the selection include also substances suggested by the experts of the WG chemicals group (Member States, EFTA*, Associated Countries, Stakeholders).

* European Free Trade Association: Iceland, Liechtenstein, Norway and Switzerland

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Thank you for your attention 😊

Thank you!



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