

Welcome
to the 2nd virtual meeting of the
Water Framework Directive CIS WG Chemicals
subgroup on Emissions to Water
9th September 2020



Agenda

- 13.00 Start the GoToMeeting connection
- 13.00-13.10 Check in time (to test the connection)
- 13.10-13.20 Round the table, instruction (Bouke)
- 13.20-13.30 Goal of the project, scope of the meeting (Caroline)
- 13.30-14.15 3 Short presentations by MS (Louis Courseau – PO, Pierre Boucard – FR, Jaap Postma - NL)
- 14.15-14.25 Break*
- 14.25-14.45 Presentation of the paper ***Proposal for a simplified method*** (Joost)
- 14.45-15.15 Discussion
- 15.15-15.25 Break*
- 15.25-15.40 Presentation of the paper ***Calculating emissions from UWWTPs*** (Antje)
- 15.40-16.10 Discussion
- 16.10-16.30 Follow up
- 16.30 Closing of the meeting (Caroline)



Proposal for a simplified method for the quantification of emissions to water



Proposal for a simplified method for the quantification of emissions to water

- Version 5th March presented and discussed at the meeting 22nd April
- Comments received from 5 MS and Eurometaux
- Updated version 14th August 2020
- Presentation and discussion:
 - Some specific items
 - Different pathways
 - Overview
 - How to proceed

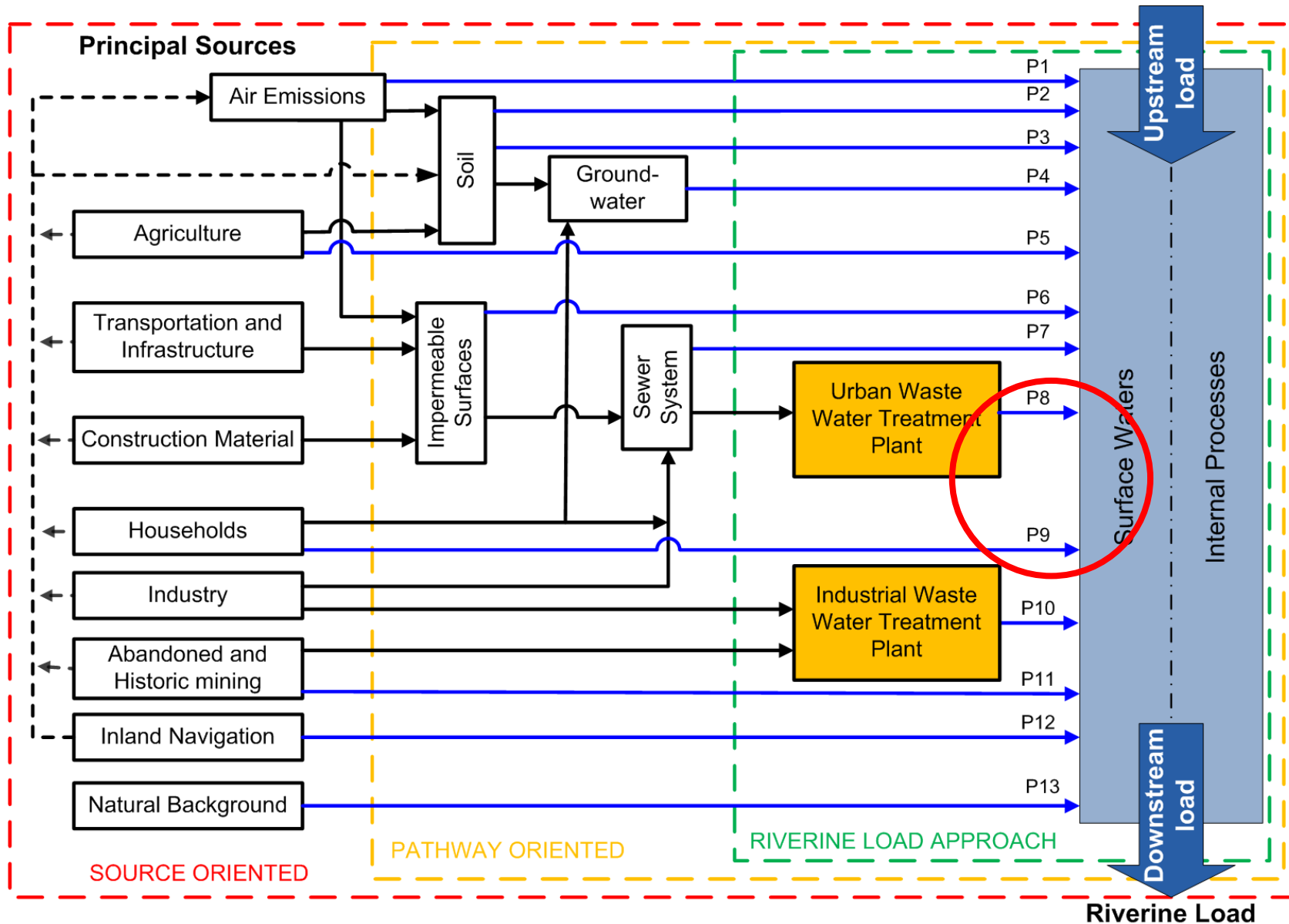


Specific items

- Time: too late for the 3rd RBMP inventories
 - indeed it is late, some delay in the project but...
 - no data at all (pollutant or pathway): data can be added until March 2022
 - also useful for 4th RBMP or other data collections
- Geographical level of detail:
 - most simple: inventory on MS level
 - reporting for WFD on River Basin District level (MS>RBD is always possible)
- Pollutants:
 - nutrients: no PS, but relevant for ecological status
 - skipped 2 PAHs, add 4-Nonylphenol
 - pesticides: no general EF's, necessary?



Different pathways



P1	Atmospheric Deposition directly to surface water
P2	Erosion
P3	Surface runoff from unsealed areas
P4	Interflow, Tile Drainage and
P5	Direct discharges and drifting
P6	Surface Runoff from sealed Areas
P7	Storm Water Outlets, Combined Sewer overflows, Unconnected sewers
P8	Urban Waste Water treated
P9	Individual - treated and untreated-household discharges
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P11	Direct Discharges from Mining
P12	Direct Discharges from Navigation
P13	Natural Background



Different pathways P8, P9

P8 UWWTP:

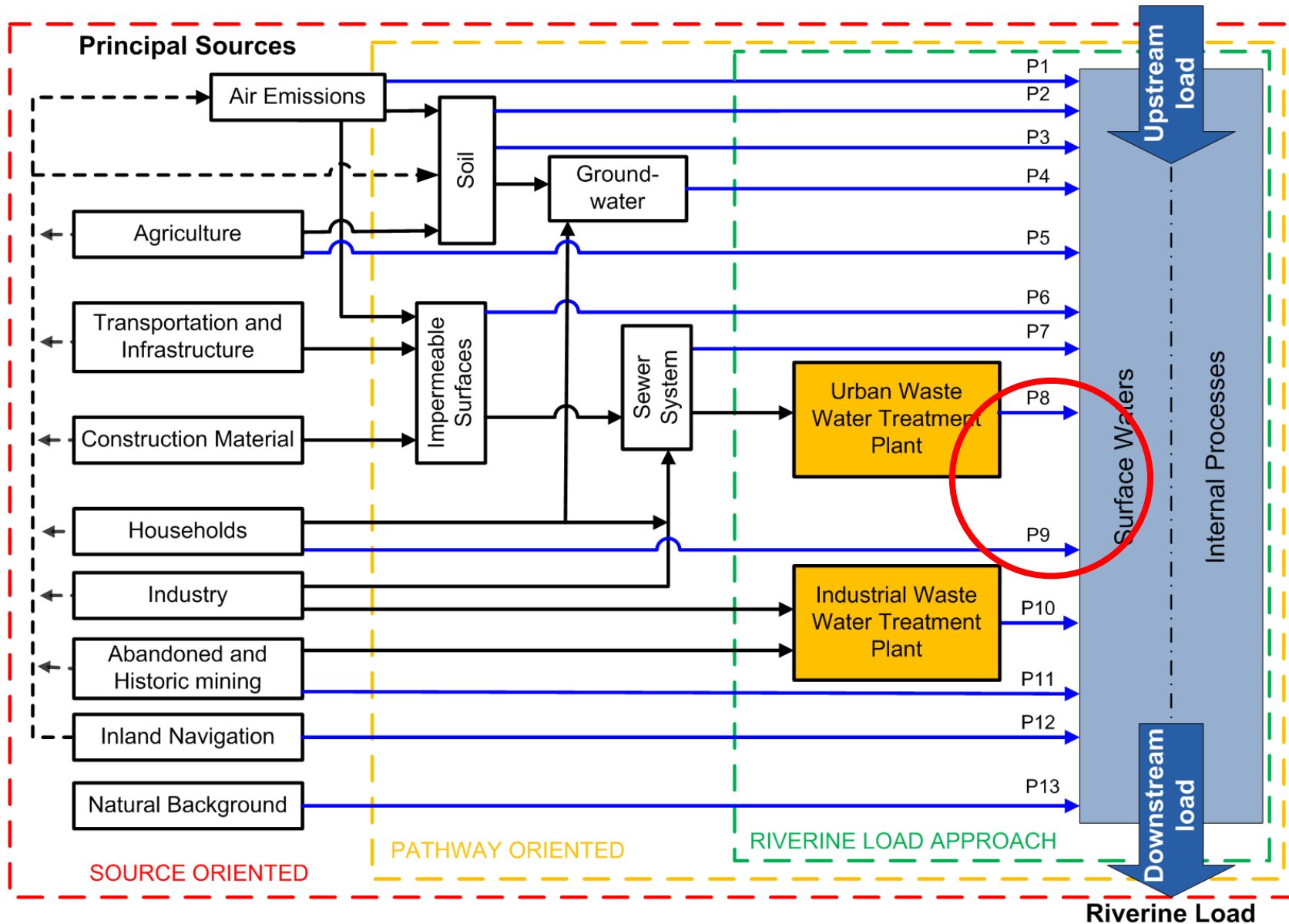
- separate document with EF's
- not for all 10 pollutants, also some other pollutants
- to be discussed later in this meeting

P9 Individual - treated and untreated- household discharges:

- use the P8 EF's as basis
- combined with purification efficiency of individual treatment
- and % of households untreated



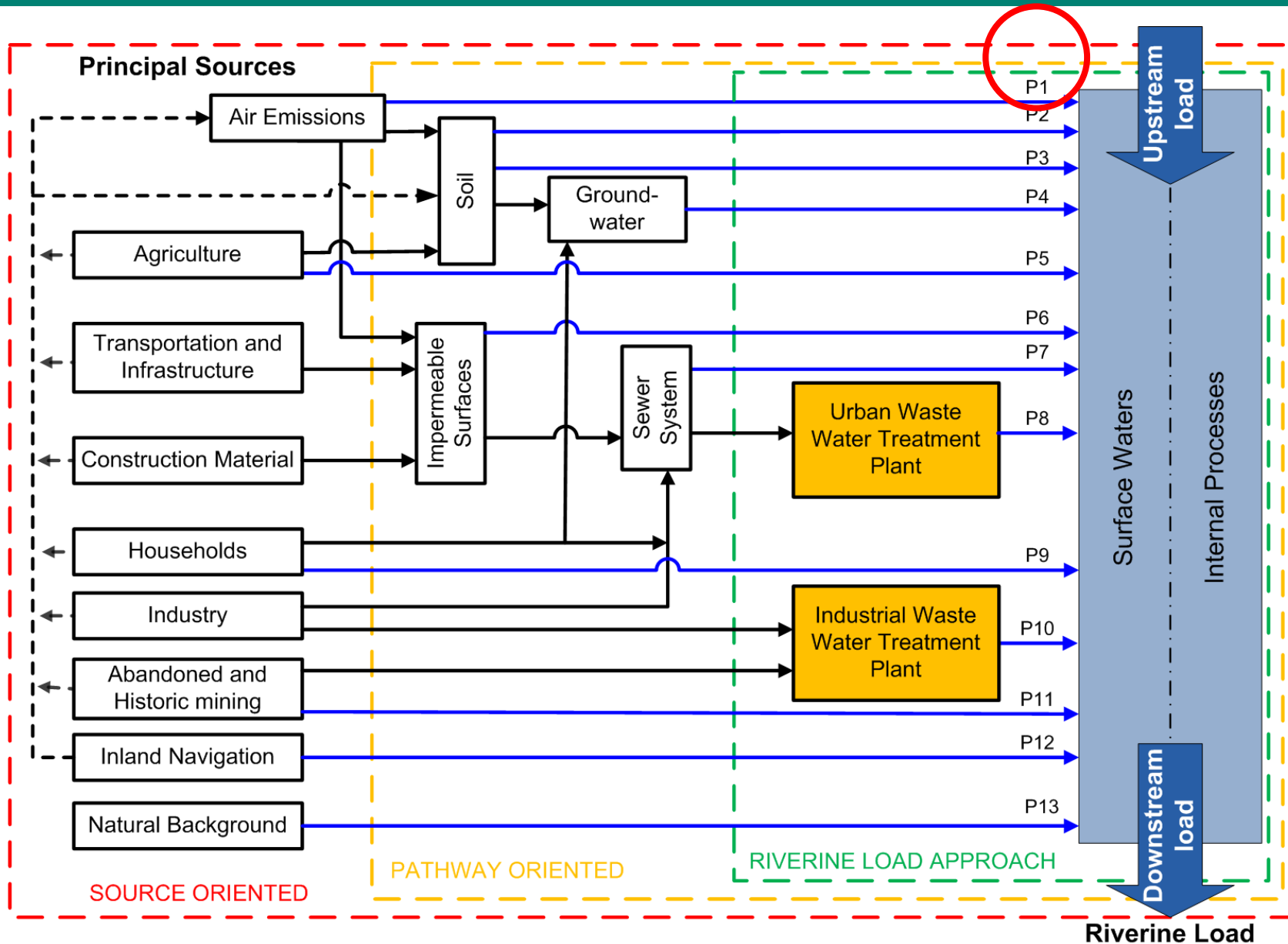
Different pathways



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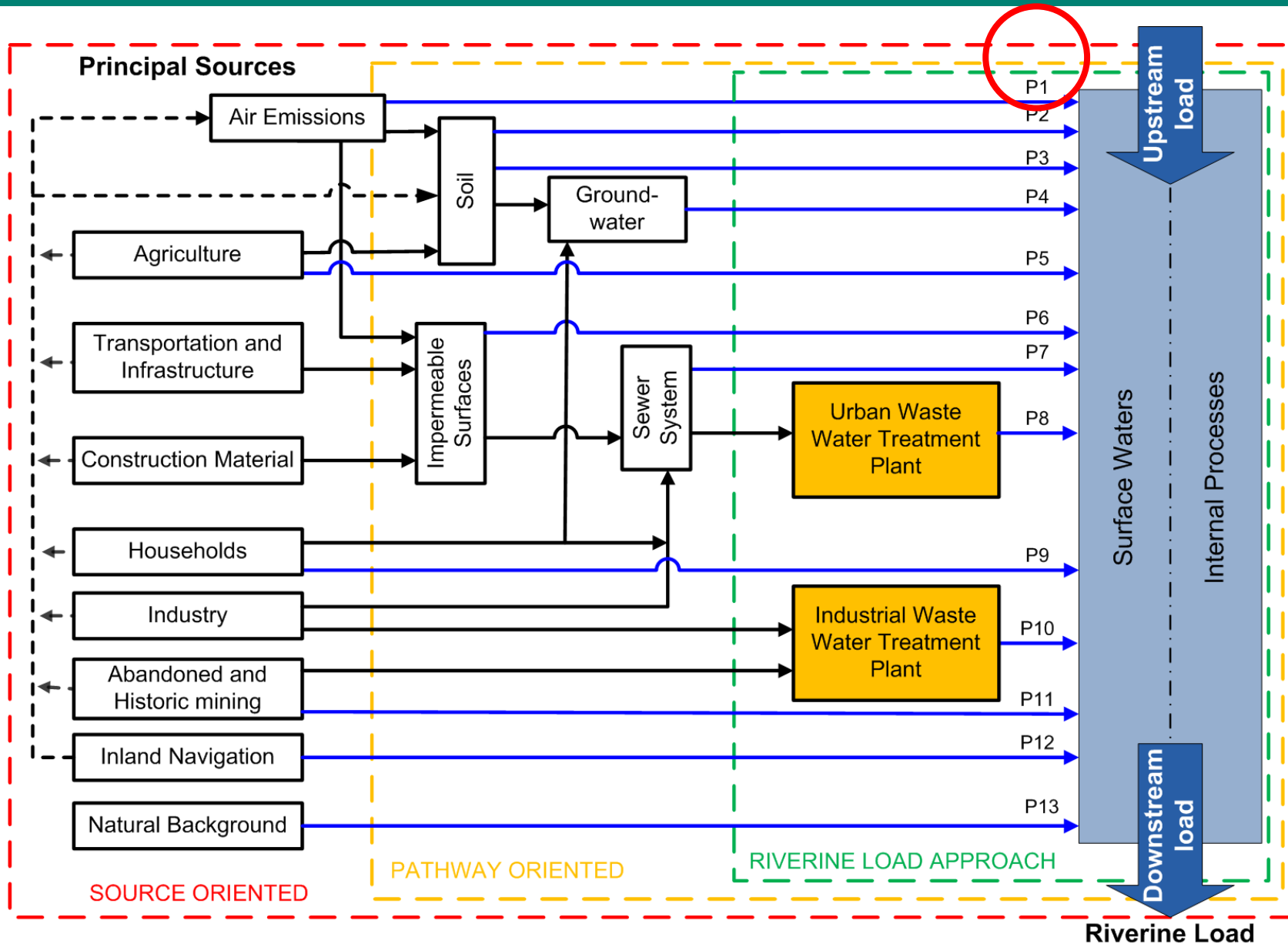
Different pathways P1

P1 Atmospheric Deposition directly to surface water:

- EF's for a number of pollutants
- with a detailed spatial resolution (EMEP 50x50 km)



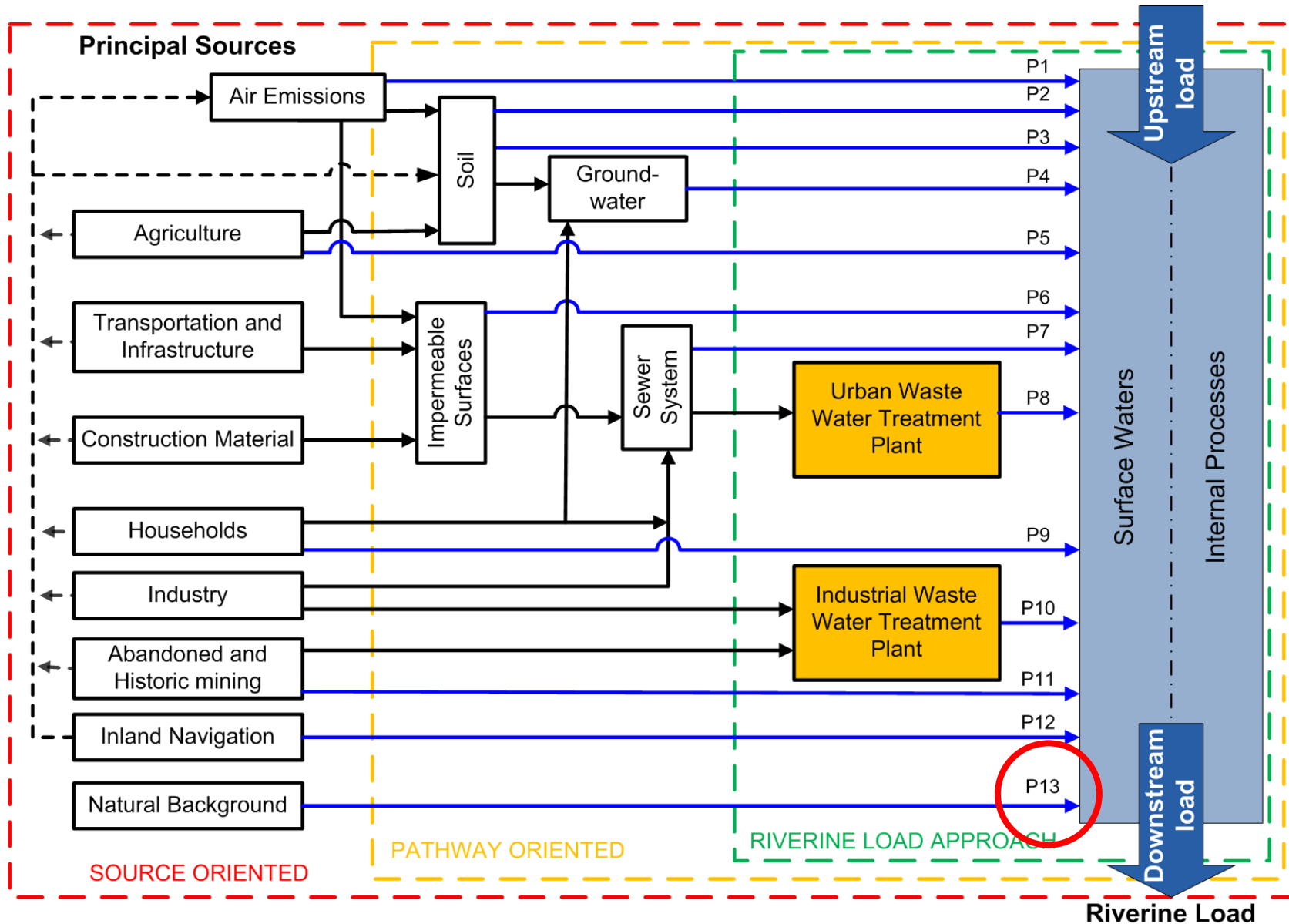
Different pathways



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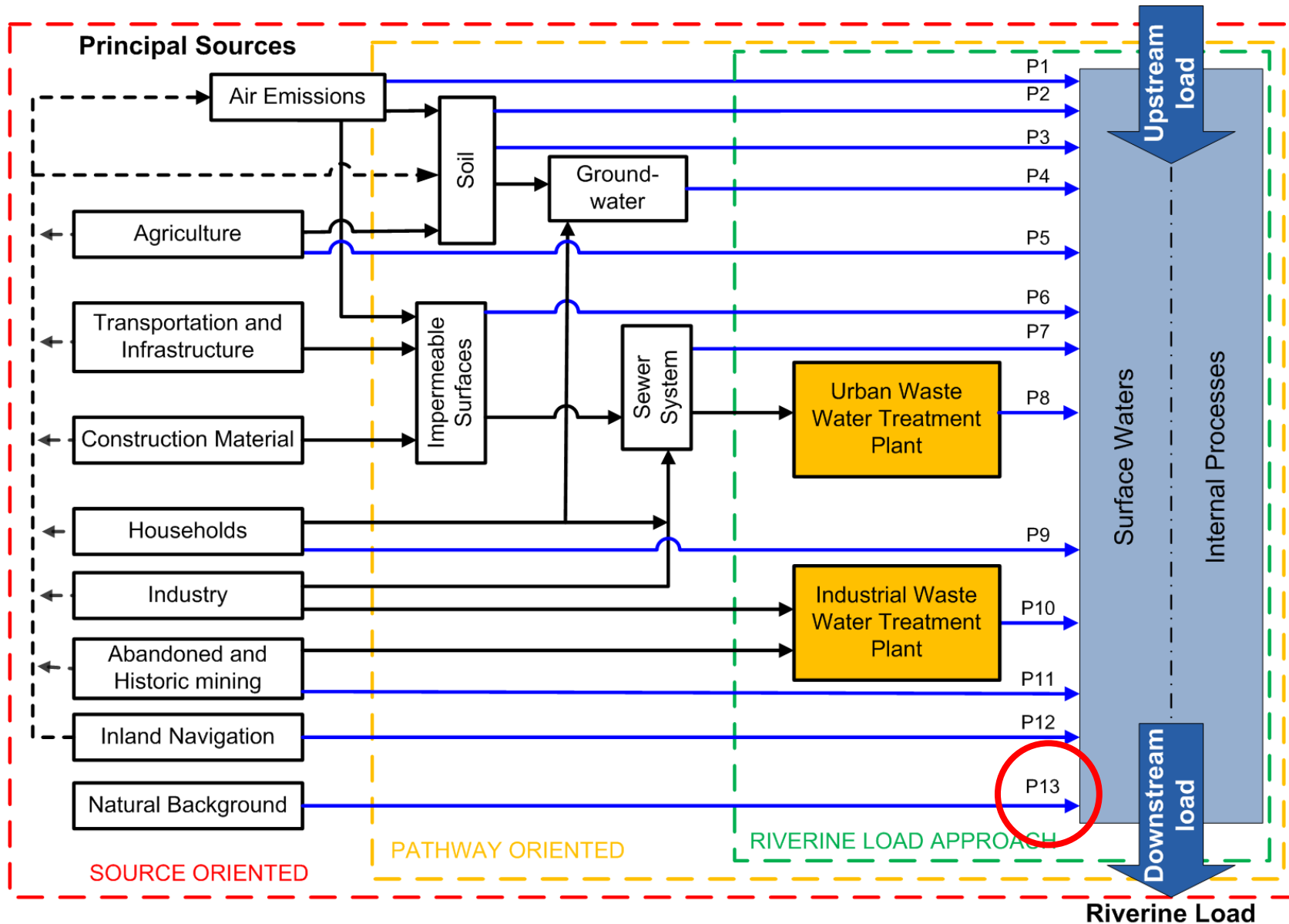


P13 Natural Background:

- strange pathway in the scheme
- most pathways already include more or less background loads
- we don't want double-counting
- (draft) Technical Guidance on Implementing Environmental Quality Standards (EQS) for Metals, Chapter 4: METHODS TO DETERMINE NATURAL BACKGROUND CONCENTRATIONS (NBCs) FOR METALS
- no separate action for now



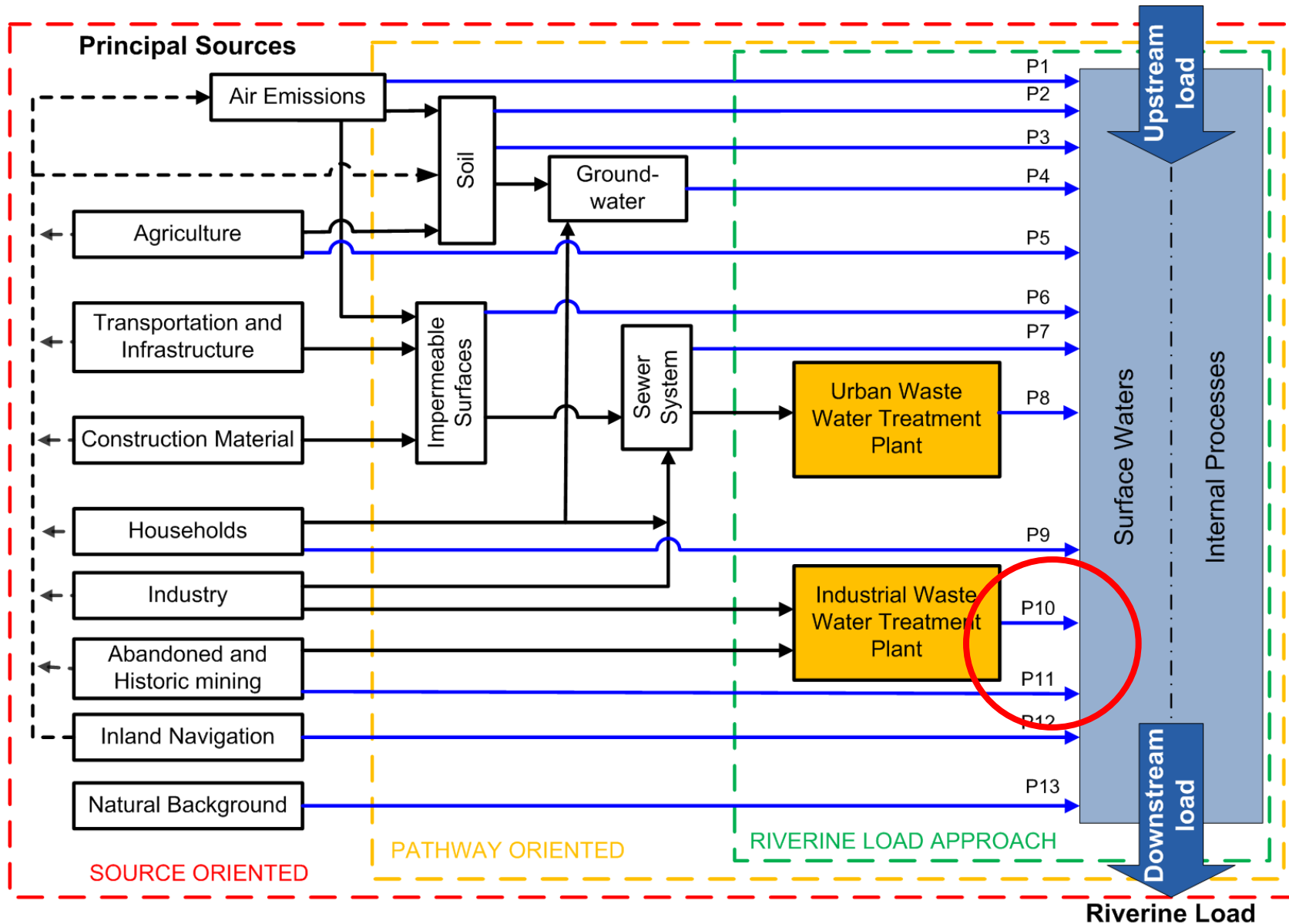
Different pathways



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Different pathways P10, P11

P10 Industrial Waste Water treated:

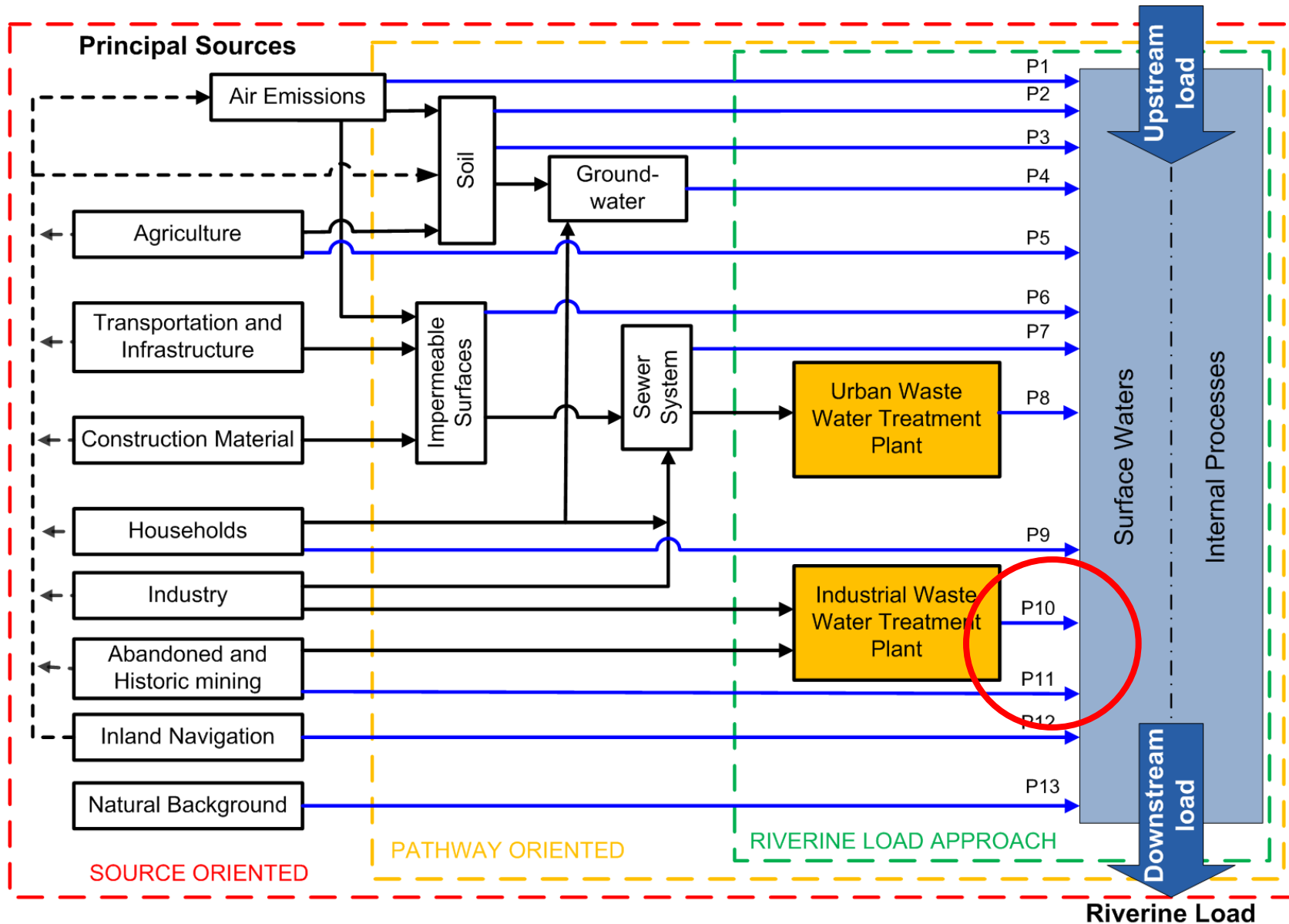
- very limited information from sectors
- very difficult to check or improve
- focus on diffuse sources, no priority now

P11 Direct Discharges from Mining:

- no EU-wide overview
- local specific situations, for the MS to collect data
- no general EF's possible



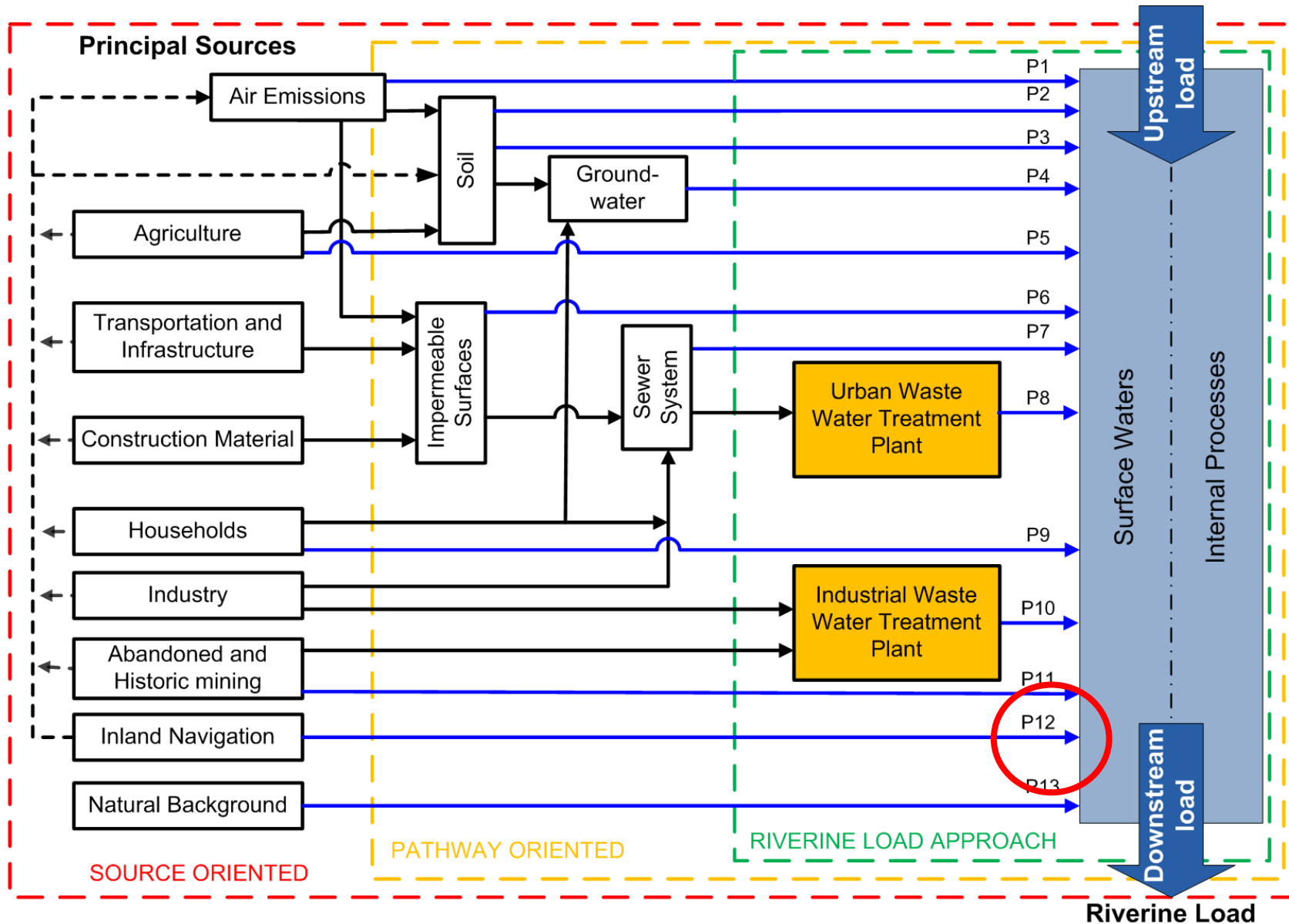
Different pathways



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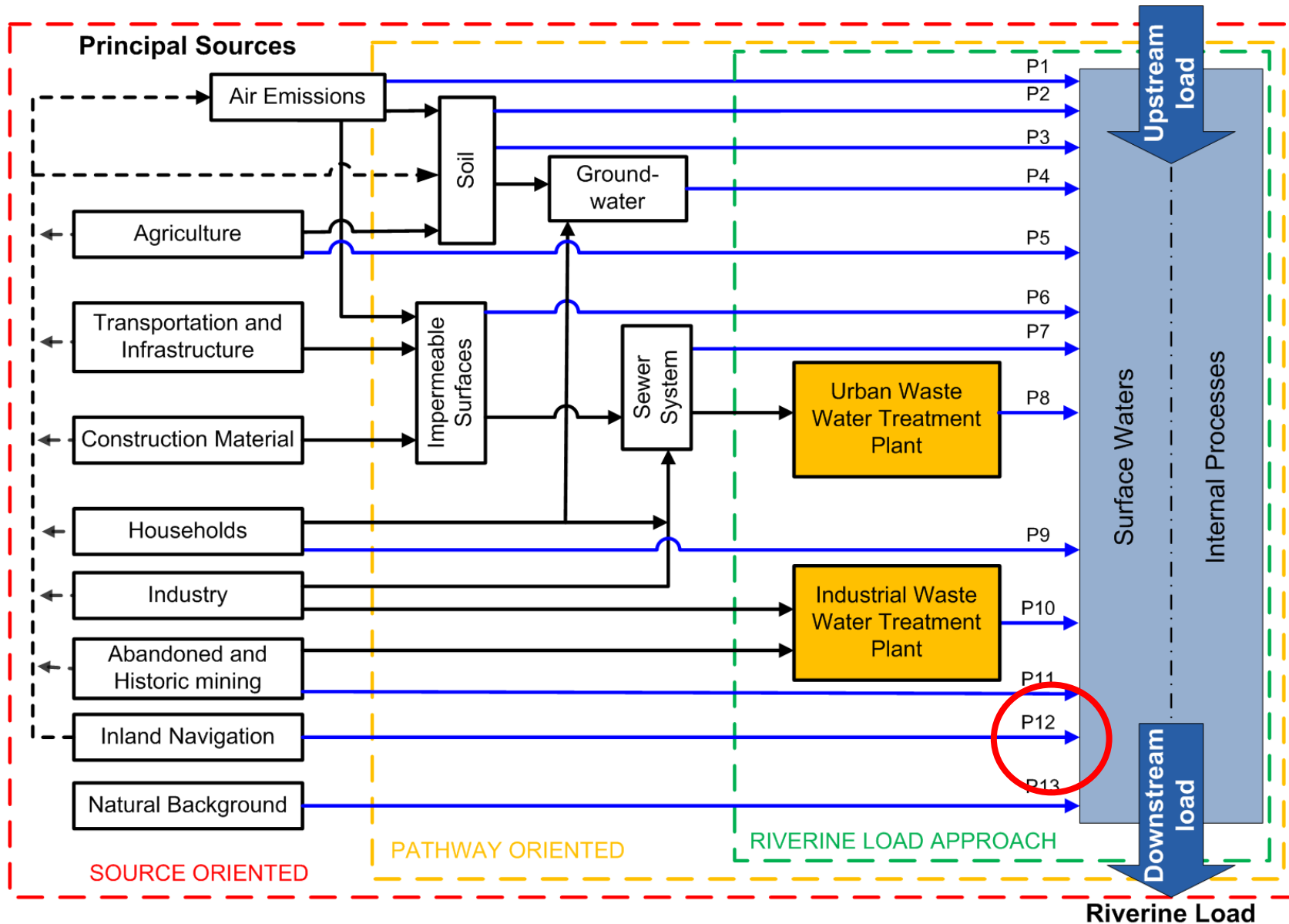


P13 Direct Discharges from Navigation:

- no EF's available yet
- some information from factsheets Dutch Emission Register
- are data actual and representative for other MS: specific type of ships, coatings?



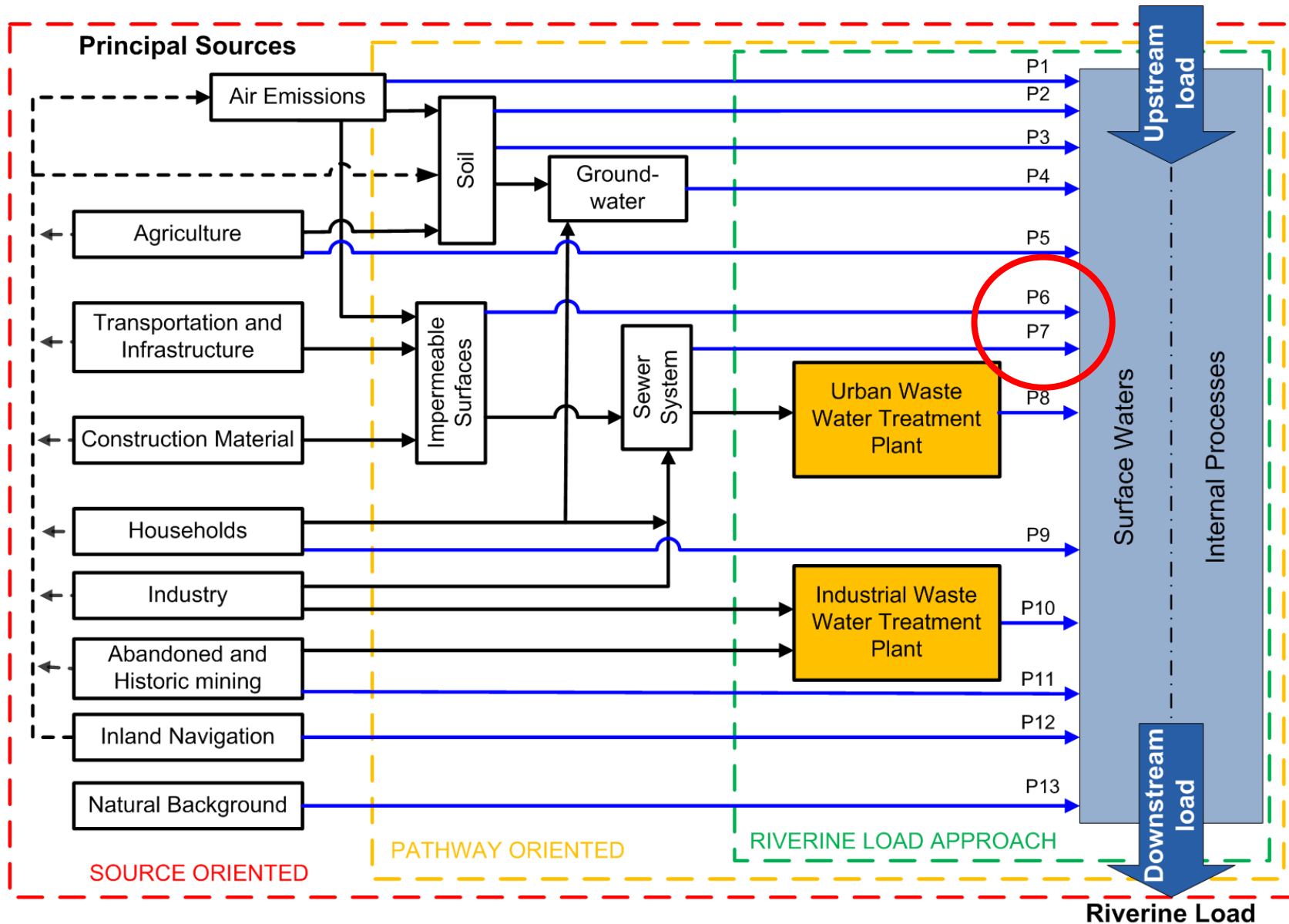
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Different pathways P6, P7

P6 Surface Runoff from sealed Areas:

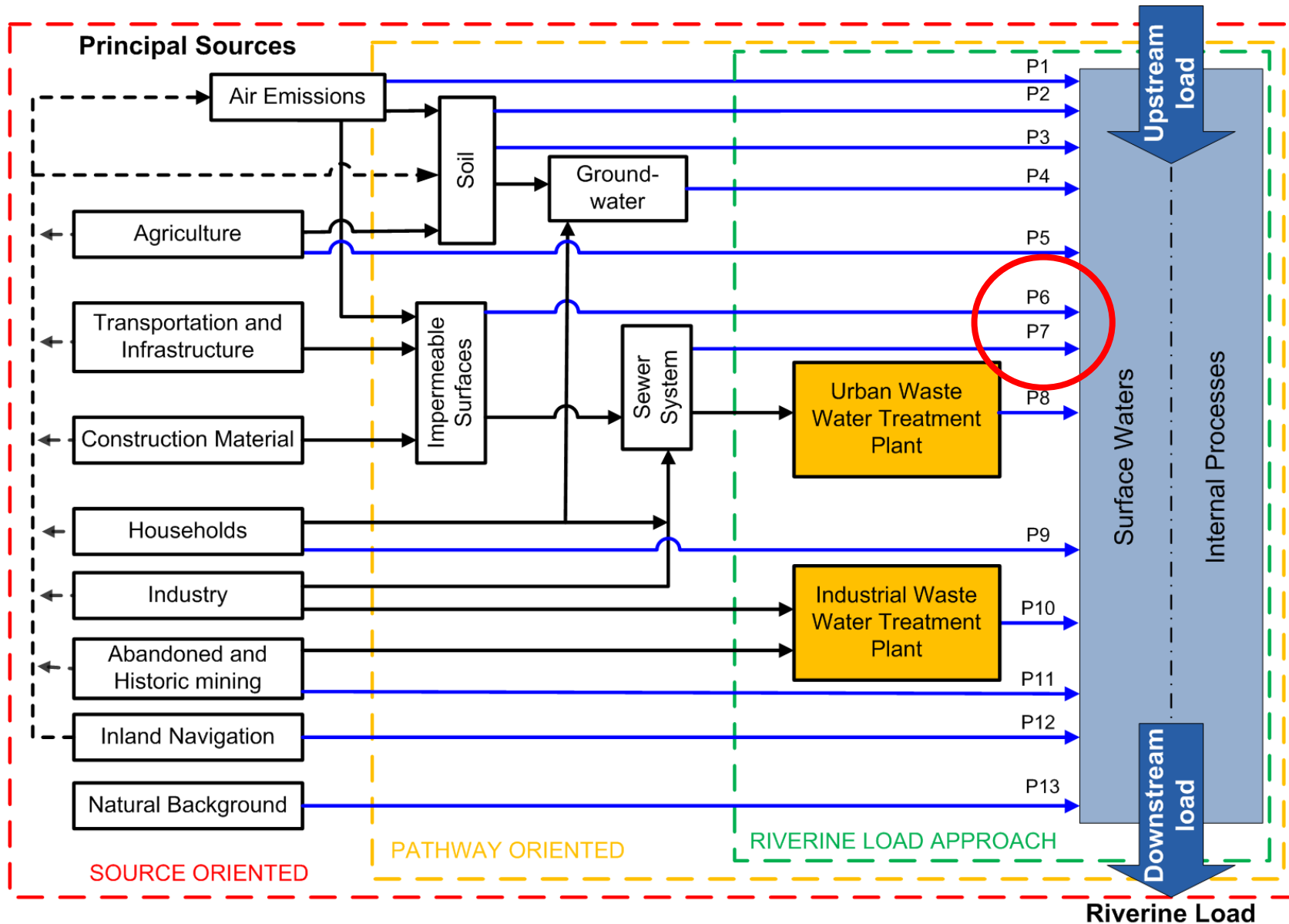
- no EF's available
- some project information available, but...
- local situation (traffic, sewer system, etc.) determines the loads
- no general EF's possible

P7 Storm Water Outlets, Combined Sewer overflows, Unconnected sewers:

- some data available
- local specific situations (rainfall, sewer system) determine the loads
- no general EF's possible



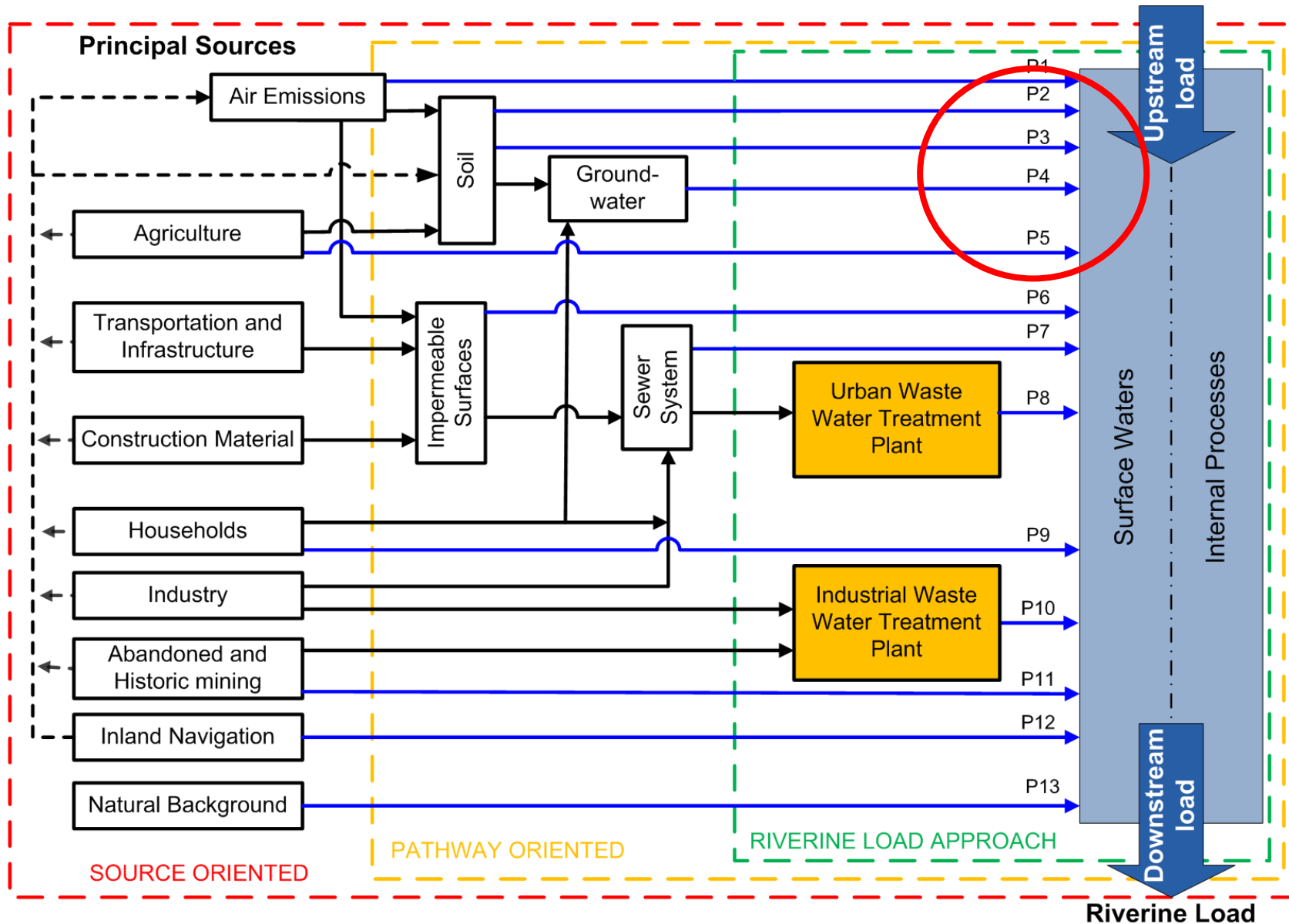
Different pathways



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Different pathways P2, P3, P4, P5

P2 Erosion

P3 Surface runoff from unsealed areas

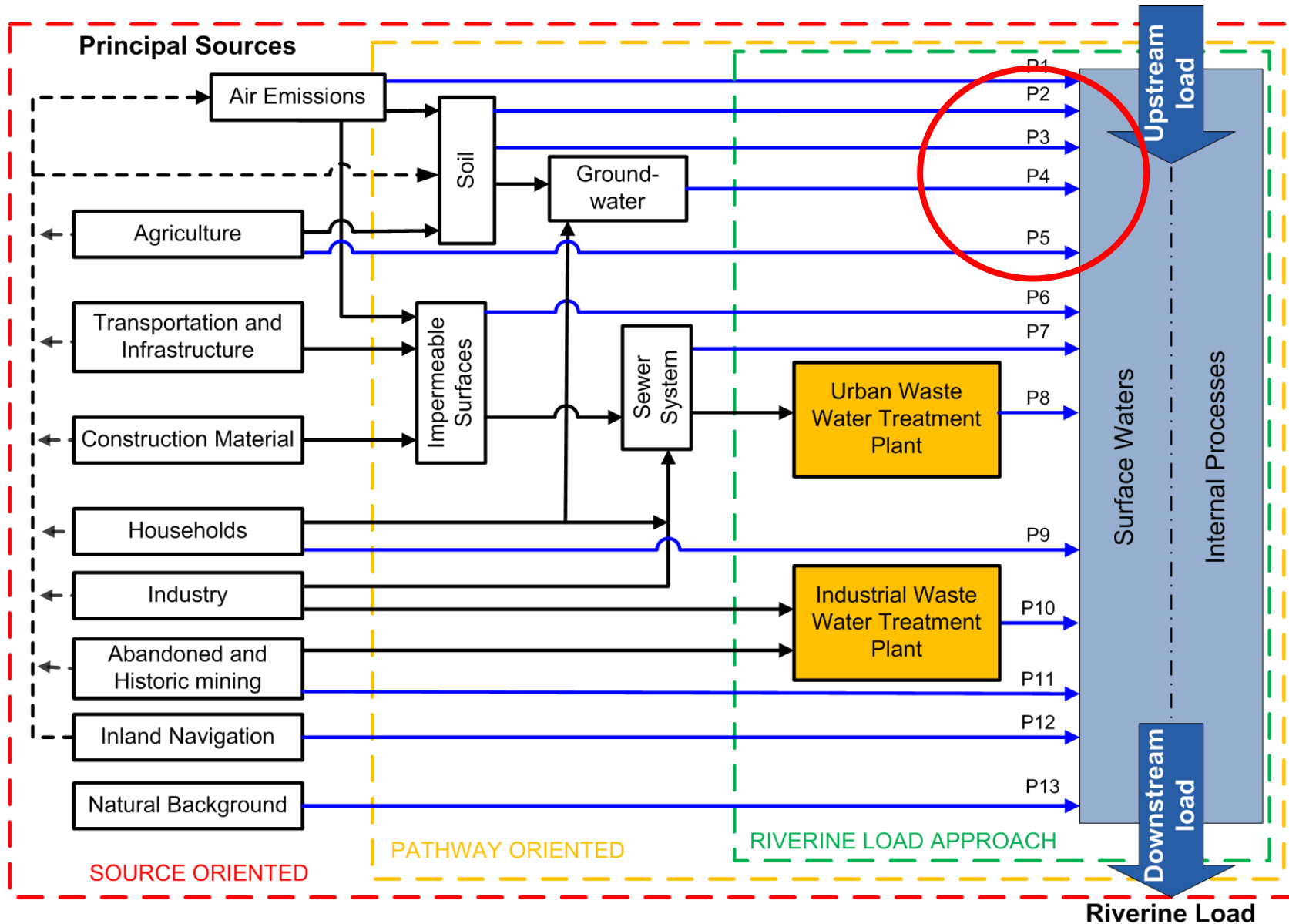
P4 Interflow, Tile Drainage and Groundwater

P5 Direct discharges and drifting :

- all related to each other
- different compartments involved: soil, groundwater, surface water
- mainly agriculture: nutrients, metals (and pesticides, pharmaceuticals)
- complex pathways, with local situation determines the loads (lifestock, fertilizer use, crops, soil type, farm management, hydrology, etc.)
- usually models are used for quantification, no general EF's possible
- GREEN+ model JRC (nutrients) might be usefull



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Overview inventory

Pathway	Pathway name	Ntot	Ptot	Cadmium	Lead	Mercury	Nickel	Anthracene	Benzo(a)pyrene	Fluoranthene	4-Nonylphenol	DEHP
P1	Atmospheric Deposition directly to surface water	*		*	*	*			*			
P2	Erosion											
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P5	Direct discharges and drifting											
P6	Surface Runoff from sealed Areas											
P7	Storm Water Outlets											
P8	Urban Waste Water treated	*	*	*	*	*	*			*	*	*
P9	Individual treated household discharges (IBA)	*	*	*	*	*	*			*	*	*
P10	Industrial Waste Water treated											
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- limited coverage
- still useful?
- for who?
- how to proceed?

EF's available
no action for now
maybe EF's possible
no general EF's possible, often models used



Actions how to proceed

A: How to proceed with the paper & table with EF's?

- finish it as it is?
 - Is it useful and for who?
 - what needs to be done to finish?
 - bring it into the WG Chemicals?
- try to make it (more) complete?
 - which pathways, pollutants?
 - suggestions how?
 - who would want to contribute?



Actions how to proceed

B: Zoom out, make a qualitative overview of key sources per pollutant

- not try to compare the relative importance of sources
- might be used for prioritization
- example from the Netherlands

Substances	Emissieroutes												
	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13
tributyltin-kation	Green	Green	Green	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green
glyphosate	Green	Yellow	Orange	Yellow	Yellow	Yellow	Orange	Orange	Green	Green	Green	Green	Green
isoproturon	Green	Yellow	Orange	Yellow	Yellow	Green	Yellow	Yellow	Green	Green	Green	Green	Green
fluoranthene	Orange	Green	Green	Yellow	Green	Yellow	Orange	Yellow	Green	Green	Green	Yellow	Green
benzo(a)pyrene	Orange	Green	Green	Yellow	Green	Yellow	Orange	Yellow	Green	Green	Green	Yellow	Green
diclofenac	Green	Green	Green	Green	Green	Green	Orange	Red	Yellow	Green	Green	Green	Green
bisfenol a	Green	Green	Green	Green	Green	Green	Yellow	Red	Yellow	Green	Green	Green	Green
bromated diphenyl ethers	Orange	Green	Green	Green	Green	Green	Yellow	Orange	Green	Green	Green	Green	Green
PCBs	Yellow	Green	Green	Yellow	Green	Green	Yellow	Yellow	Green	Green	Green	Green	Green
PFOS	Green	Green	Green	Green	Green	Green	Yellow	Orange	Green	Yellow	Green	Green	Green
DEHP	Green	Green	Green	Green	Green	Green	Orange	Orange	Yellow	Yellow	Green	Green	Green
imidacloprid	Green	Yellow	Yellow	Green	Green	Green	Yellow	Yellow	Green	Green	Green	Green	Green

Actions how to proceed:

C: Zoom in, collect and share data and i

- not try to quantify the loads
- only share knowledge
- MS can use this for their own invento
- example: factsheets on diffuse sourc



Pollutant Release and Transfer Register

Home Introduction Emissions Documentation

[Pollutant Release & Transfer Register](#) > [Documentation](#) > All documents

All documents

Documenten

+ Algemeen (General)

+ Bodem (Soil)

+ Lucht (Air)

Water

Disclaimer Uit- en afspoeling Landelijk gebied.pdf

Toelichting_definitieve_dataset_ER1990-2018.pdf

Factsheets

+ Achtergronddocumenten bij de factsheets

English

Ammunition from hunting.pdf

Angling lead.pdf

Atmospheric deposition.pdf

Bilgewater in inland navigation.pdf

Coatings, inland navigation.pdf

Coatings, merchant shipping.pdf

Coatings, recreational boats.pdf

Effluents WWTPs, monitored.pdf

Effluents WWTPs.pdf

Exhaust from recreational boats.pdf

Fireworks.pdf

Open questions/discussion

