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► **To cite this version:**

Jean-Luc Bertrand-Krajewski, Lôide Angelini Sobrinha. La gestion des eaux pluviales urbaines hors du budget général : une discussion sur les modèles de financement en France. Novatech 2023, Jul 2023, Lyon, France. hal-04165430

HAL Id: hal-04165430

<https://hal.science/hal-04165430>

Submitted on 19 Jul 2023

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L'eau dans la ville | Urban water

Urban stormwater management outside the general budget:

a discussion on funding models in France

Lôide ANGELINI SOBRINHA, Jean-Luc BERTRAND-KRAJEWSKI

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The paradigm shift and its needs



General community budget + Annex budget sanitation

i) Aid from public organizations, mainly water agencies (Lyon Metropole, 2022)

ii) Participation in an Urban Partnership Project of a maximum duration of 10 years (CEREMA, 2017)

iii) Possible aid granted under local or national calls for projects

iv) Private investment in commercial activity areas (ZACs) and eco-neighborhood development (Yang, 2013)



Adapting cities to climate change



Stormwater management & funding in France

Circular of 12 December 1978

Public stormwater management service (article L2226-1 of the CGCT)

Collection, transport, storage and treatment of urban stormwater

Does not have any specific funding!

Expenses on stormwater

Expenses on sanitation

General community budget M14 – Local taxes

20%

Budget annex Sanitation M49 (Section 7063)

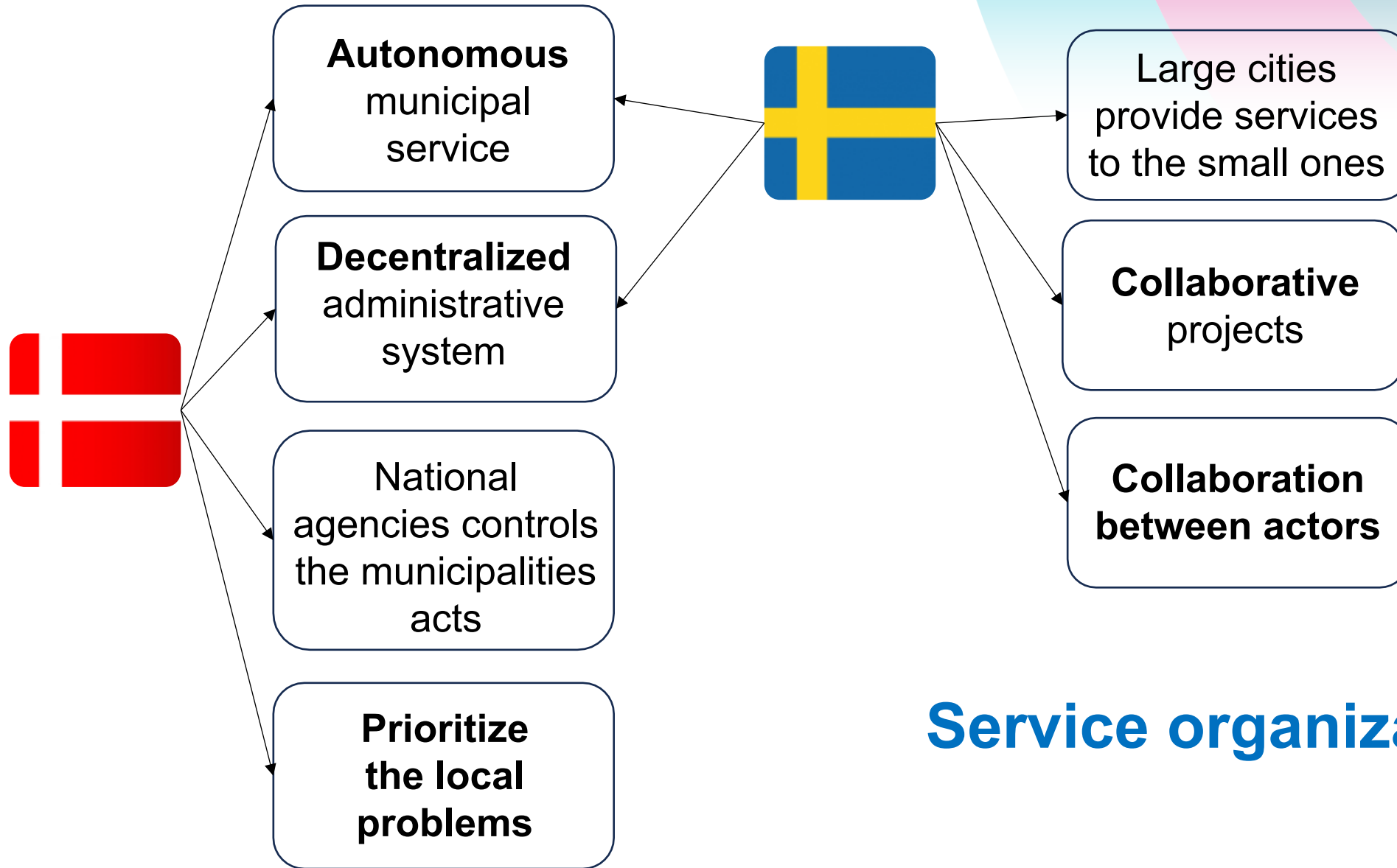
80%

Taxpayer

User fee for collective sanitation



Some exemples



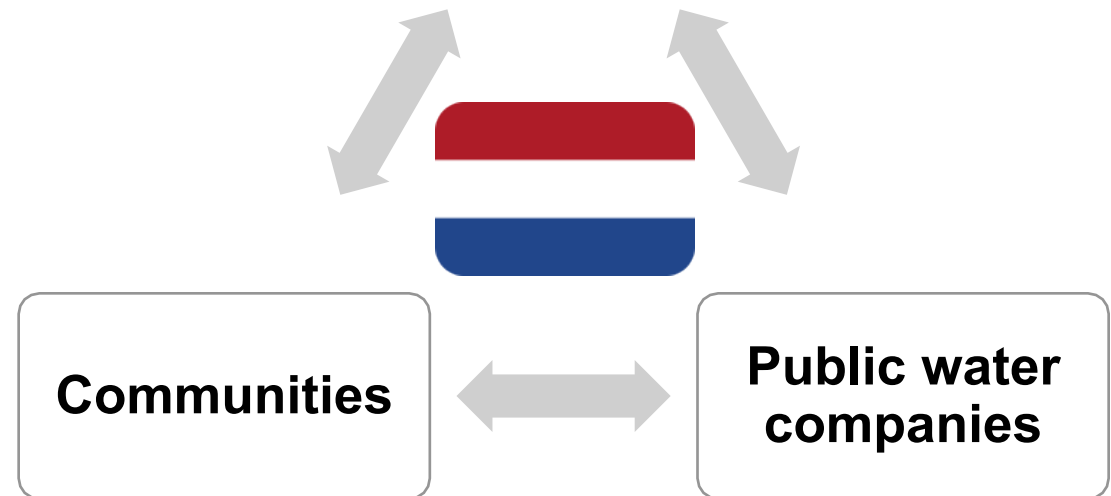
Service organization

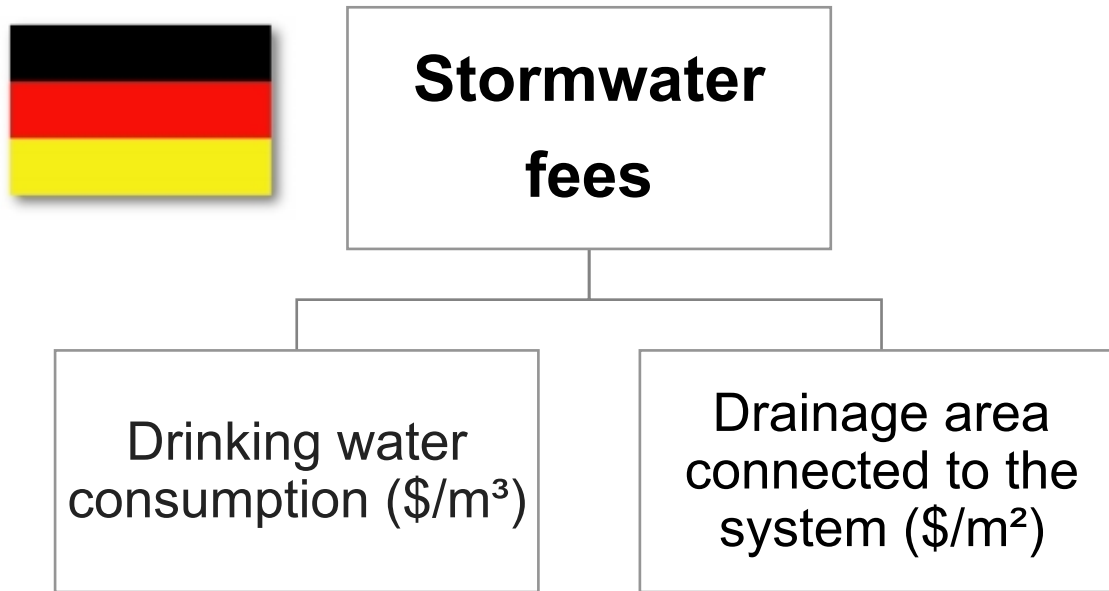
Regional
organization
responsible for water
management

Waterchappen

National bank
borrowing
capacity

Shared competence





Financing tool

Decreased the volume discharged in the traditional system (Dierkes, 2015)

Financial resources available for urban stormwater management

Germany

Co-financing from the general budget (municipal and national)	by impervious taxes for pavements
Sanitation fee based on water consumption	depends on the organization of the services
Charge based on impervious surface (in some cases)	
Fee exemption in case of disconnection (in some cases)	
Property and housing Taxes	by the municipal budget

Financial resources available for urban stormwater management

Denmark

Co-financing from the general budget (municipal and national)

Sanitation fee based on water consumption

40% for SWM

Charge based on impervious surface (in some cases)

Fee exemption in case of disconnection (in some cases)

Property and housing Taxes

Financial resources available for urban stormwater management

Netherlands

Co-financing from the general budget (municipal and national)

Sanitation fee based on water consumption

Charge based on impervious surface (in some cases)

Fee exemption in case of disconnection (in some cases)

Property and housing Taxes

rate per household

subsidies

paid to the Waterschappen

Financial resources available for urban stormwater management

Sweden

Co-financing from the general budget (municipal and national)

Sanitation fee based on water consumption

Charge based on impervious surface (in some cases)

Fee exemption in case of disconnection (in some cases)

Property and housing Taxes

user, installation, maintenance and other charges

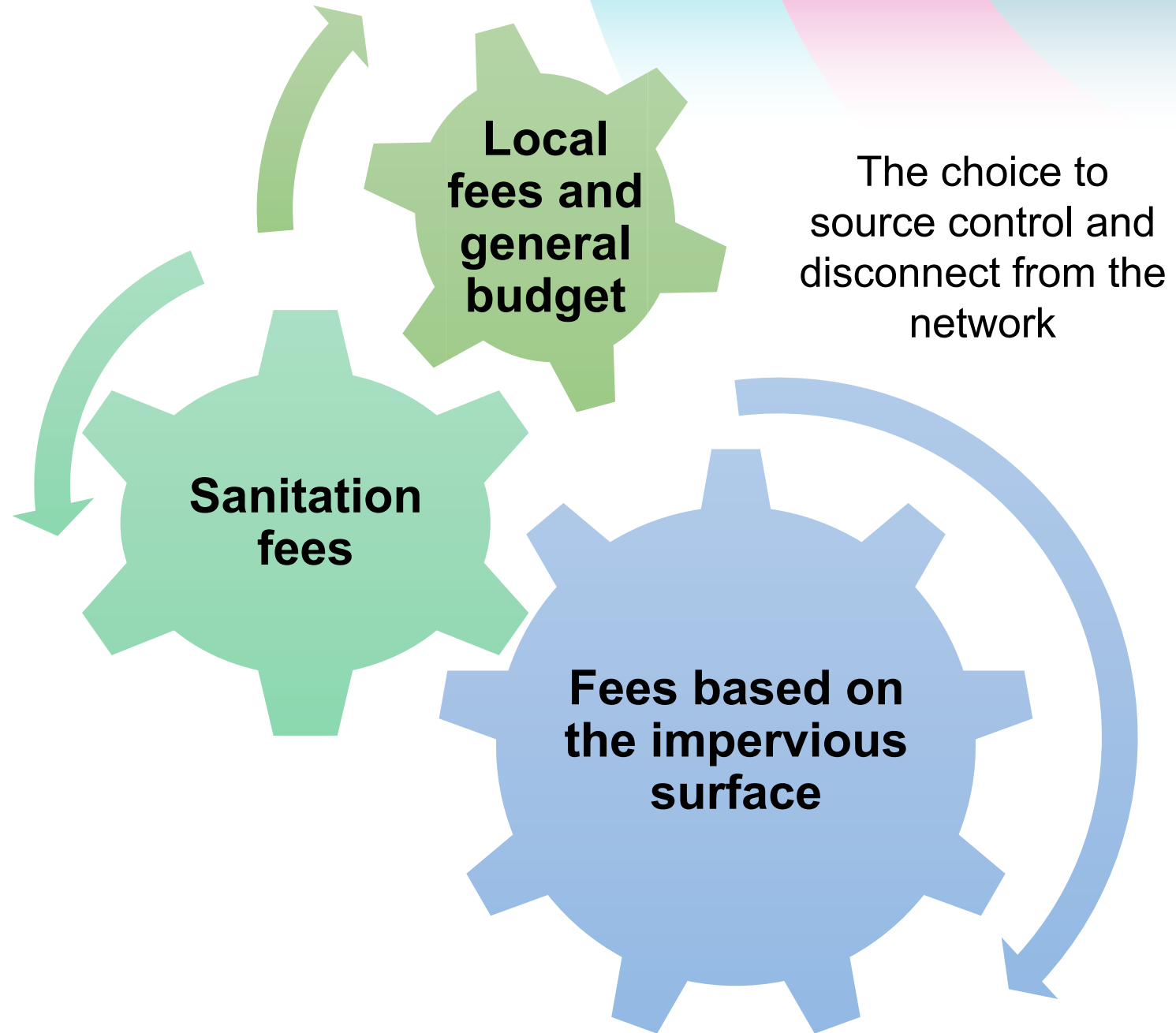
Financial resources available for urban stormwater management

	Germany	Denmark	Netherlands	Sweden	France
Co-financing from the general budget (municipal and national)	by impervious taxes for pavements				single resource
Sanitation fee based on water consumption	depends on the organization of the services	40% for SWM	rate per household	user, installation, maintenance and other charges	user fee for collective sanitation
Charge based on impervious surface (in some cases)					
Fee exemption in case of disconnection (in some cases)			subsidies		
Property and housing Taxes	by the municipal budget		paid to the Waterschappen		

Mode of operation of urban stormwater services/companies, financial resources and their legal status

	Germany	Denmark	Netherlands	Sweden	France
Stormwater sanitation fee	Yes	Yes	Yes	Yes	Yes
Financial autonomy of operation	No	Yes	Waterschappen yes, municipal services no	Yes	No
Public subsidies	Yes	No	No	No	Yes
Public subsidies for exceptional projects	Yes	Yes	Yes	Yes	Yes
Service status	Public or mixed economy	Public	Public	Public	Public or delegated to the private sector

Exemples of stormwater management funding



Final remarks



Integrated services

- Shorter investment cycles
- Valuing **co-benefits**

New financing possibilities

- **Supplementing existing financial resources**

Innovative instruments

- Involving public and private financing
- Promoting the **circular economy**

Infiltration
Reuse

Reduction of
heat islands

Biodiversity

Quality of life

Final remarks

...new financing possibilities
... innovative instruments

Will the issue of stormwater management funding be included in the National Plan?

...or maybe in the Water Framework Directive!

How to find a way to better finance stormwater management in France?

How to account for co-benefits in funding?



Thank you!
Merci!

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