

Hur ser det ut med återvinning av vatten i ett europeiskt perspektiv?

Use of reclaimed water in urban applications – a quick European survey

Anders Finnson, Svenskt Vatten

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Region Skåne, VA SYD/Sweden Water Research

Svenskt Vatten

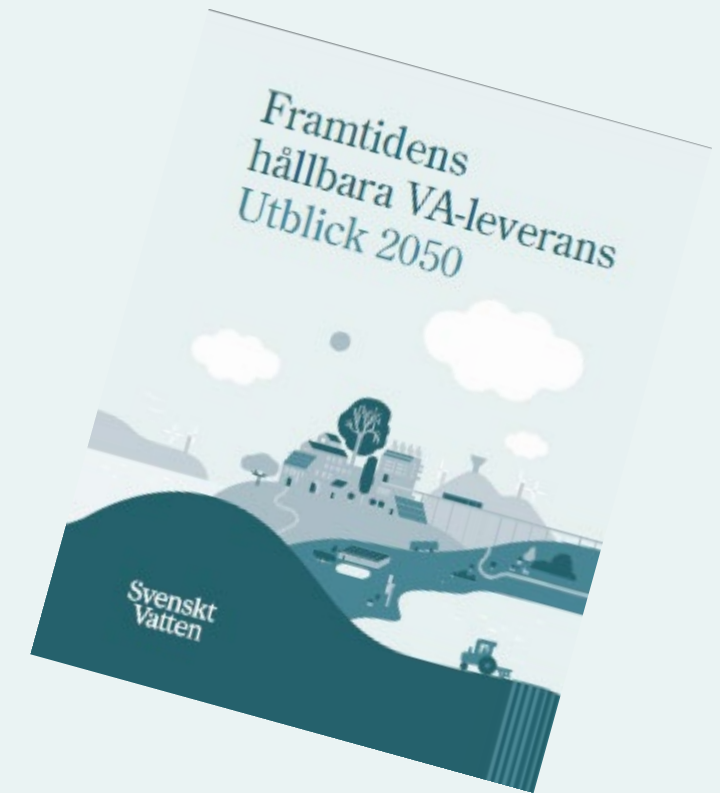


Rent dricksvatten, friska sjöar
och hav

Svenskt Vatten

Utblick 2050

Framtidens hållbara VA leverans



UTBLICK 2050

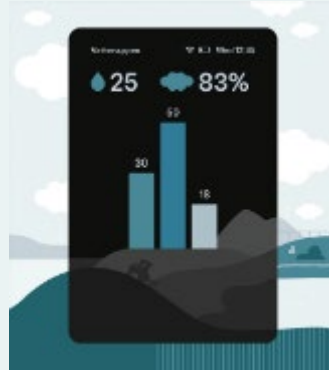
Det Hållbara och Cirkulära samhället



Resan går mot:

- Ett hållbart kretslopp och effektivt resursutnyttjande
- Giftfria produktionskedjor
- Fossilfria energikällor

Det Smarta och Funktionella samhället



Resan går mot:

- En delaktig och medveten kund
- Ett uppkopplat hem
- En effektiv styrning av flöden
- Smarta vattentjänster i harmoni med andra samhällstjänster

Det Resilienta samhället



Resan går mot:

- Ett samhälle med god förmåga att hantera kris
- Ett samhälle med tryggad livsmedelsförsörjning
- Ett klimatanpassat samhälle

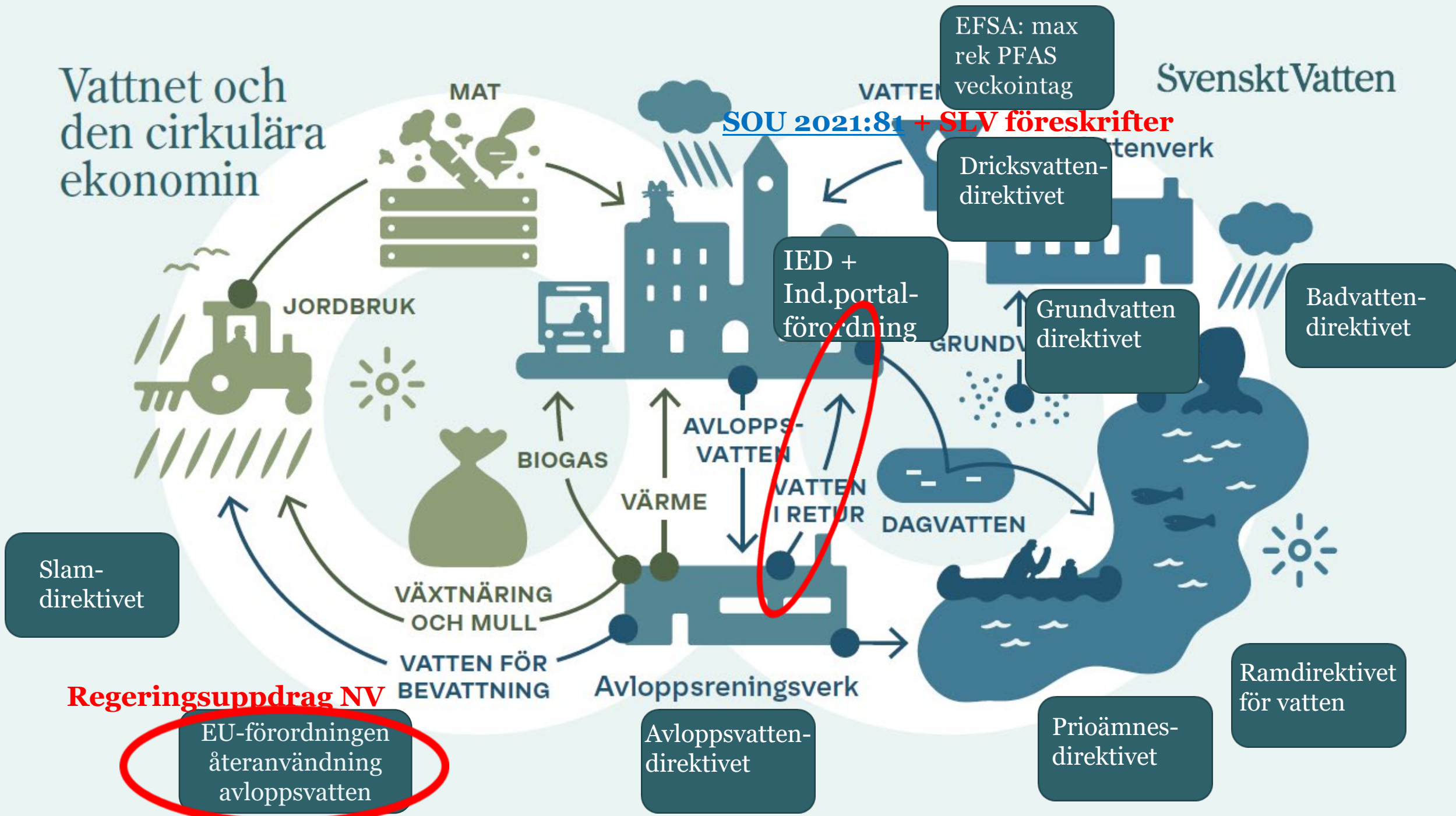
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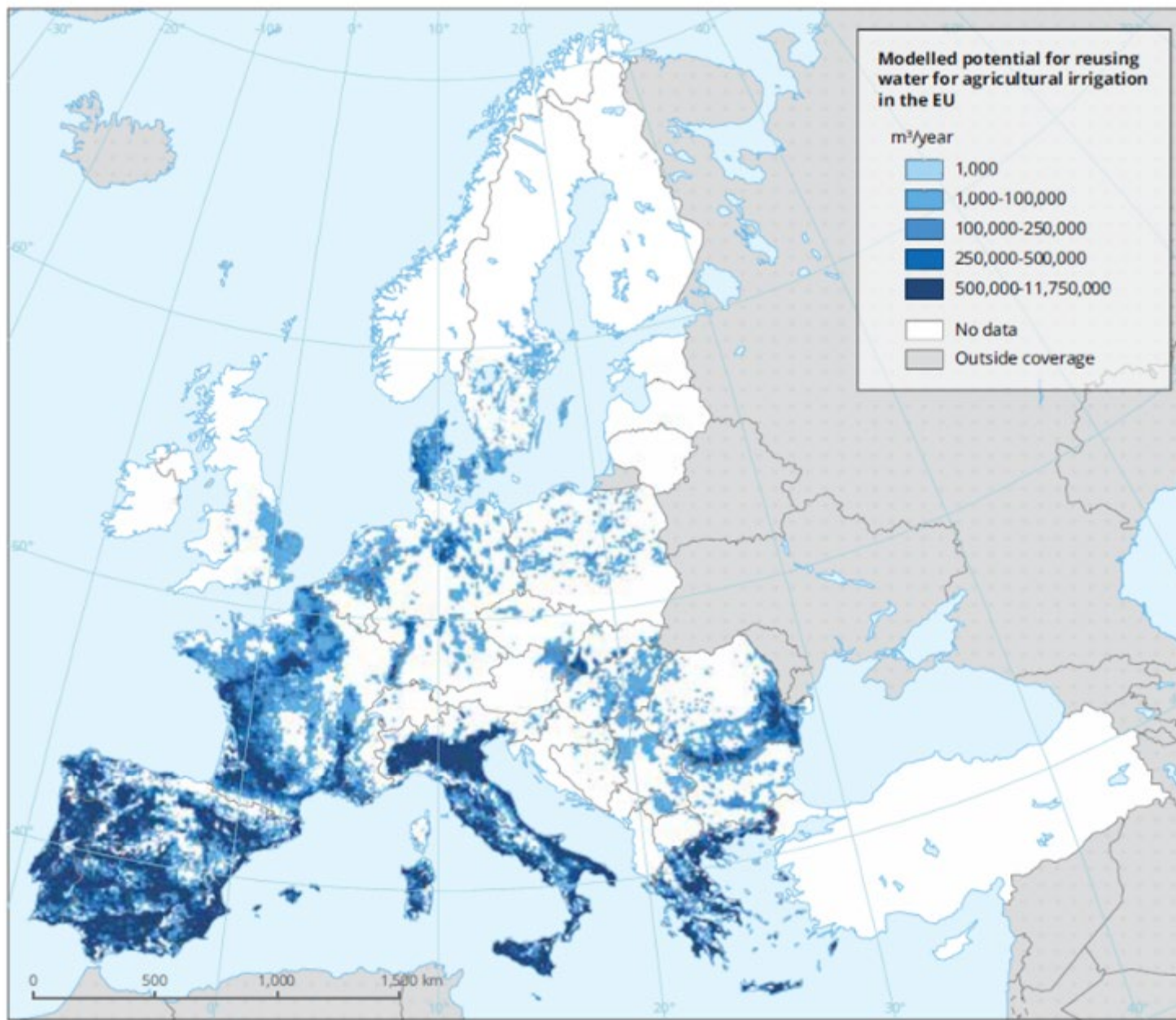
Dagens reningsverk blir
morgondagens **resursverk**

Få andra flöden är så stora som de inom vattnets urbana kretslopp - VA-sektorn

Över en miljard ton resurser flyttas varje år från tätort till reningsverk till våra vatten

Vattnet och den cirkulära ekonomin





Reference data: ©ESRI

Note: Average irrigation water requirement, computed with the EPIC model.

Source: Pistocchi et al. (2017).

Figure from <https://www.eea.europa.eu/publications/beyond-water-quality-sewage-treatment>

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Use of reclaimed water in urban applications – a quick European survey

Reclaimed water means urban wastewater treated according to the UWWTD 91/271 that is further treated for specific uses.

1. How common is it to use reclaimed water in your country/region – wastewater or/and stormwater - for urban applications like urban irrigation or for industrial use in processes, for cooling or other industrial or urban purposes?

2. How are water & wastewater utilities involved in the solutions for the use of reclaimed water into practice? What are the drivers for the water & wastewater utilities?

3. What are the drivers for the use of reclaimed water - from a customer point of view?

4. Are there economical advantages to invest in solutions to use reclaimed water? To whom?

5. Do you have any clear guidelines or support from your local/regional authorities for consents and requirements – or is it very heavy/confusing work for you from an administrative point of view?

Use of reclaimed water in urban applications – a quick European survey

Reclaimed water means urban wastewater treated according to the UWWTD 91/271 that is further treated for specific uses.

Respondents:

Belgium (Flanders), Denmark, England (Scotland), France, Ireland, Italy, the Netherlands, Poland, Portugal, Spain and Sweden.

Use of reclaimed water in urban applications – a quick European survey

- **How common is it to use reclaimed water in your country/region** – wastewater or/and stormwater - for urban applications like urban irrigation or for industrial use in processes, for cooling or other industrial or urban purposes?



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- How are water & wastewater utilities involved in the solutions for the use of reclaimed water into practice? What are the drivers for the water & wastewater utilities?
 - *Greater control of the water reservoirs/production capacity for the supply of drinking water to clients*
 - *Governmental plans, Legislation,*
 - *Sustainability goals, Knowledge building, Social benefits*
- What are the drivers for the use of reclaimed water - from a customer point of view?
 - *Water scarcity, Water price*

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Are there economical advantages to invest in solutions to use reclaimed water?
To whom?



Don't know

NO

YES

Denmark

England (Scotland)

Ireland

(Water company)

France

Italy

(Farmer)

The Netherlands
Portugal

Poland
Spain

Sweden

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Do you have any clear guidelines or support from your local/regional authorities for consents and requirements – or is it very heavy/confusing work for you from an administrative point of view?

NO

YES

Denmark

Belgium (Flanders)

England (Scotland)

France

Ireland

Italy

The Netherlands

Poland

Portugal

Spain

Sweden

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