

# YOUNG WATER PROFESSIONALS DENMARK

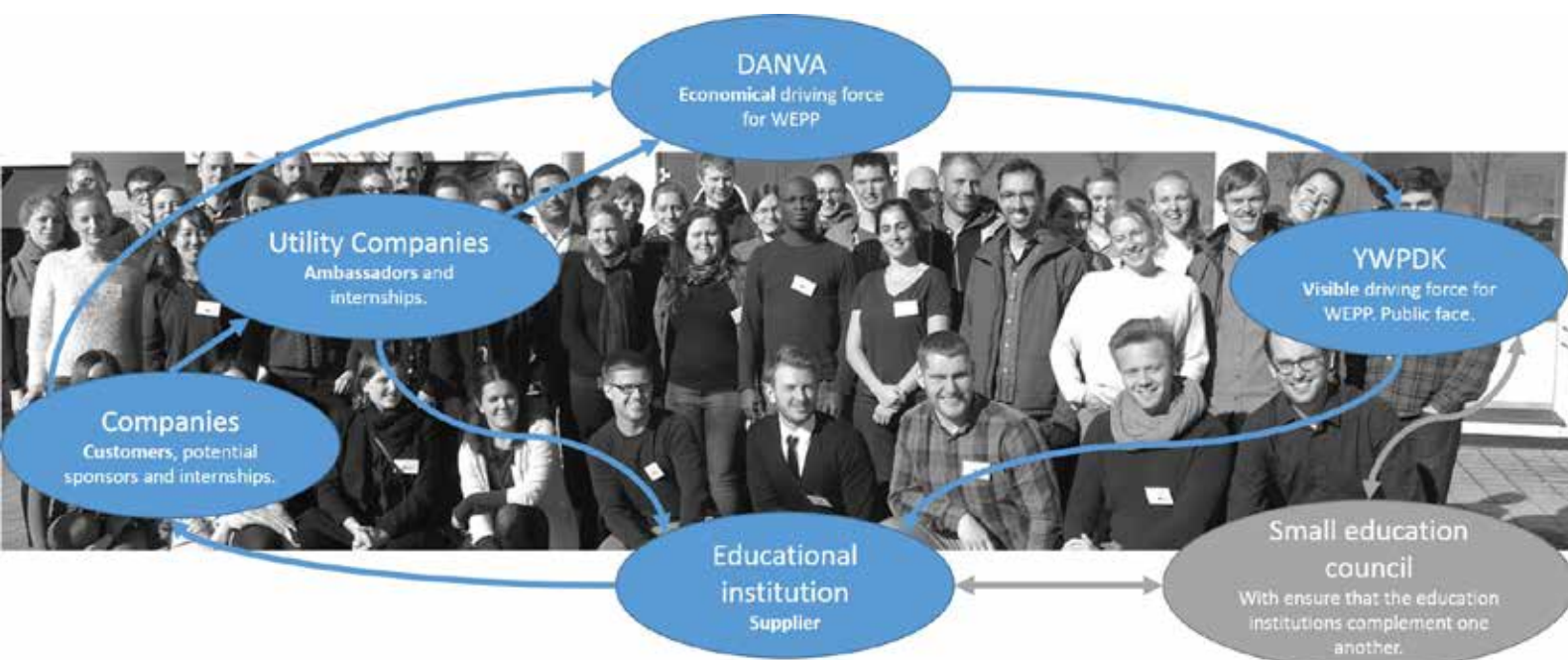
**IWA** YOUNG WATER  
PROFESSIONALS  
the International water association DENMARK

COPENHAGEN URBAN LAB  
EXECUTIVE SUMMARY



Young Water Professionals Denmark (YWPDK) is a network for all water professionals working or studying within the field of water in Denmark under the age of 35 or with less than 5 years experience.

## 2017 ANNUAL REPORT





## EDITORIAL

2017 was an eventful year for the Young Water Professionals Denmark (YWPDK). With another successful conference attended by more than 50 young professionals from across the country, the first Urban Lab hosted by a unified water sector in Copenhagen and a broad participation and representation in IWA activities including a spot on the closing panel of the Water & Development Congress in Buenos Aires in November, presentations at the International Young Water Professionals Conference in South Africa in December and the Task Force on the Sustainable Development Goals (SDGs) under IWA.

YWPDK has a vision to bridge the generation gap in the current workforce, to mitigate the expected lack of skilled workforce in the future and to help facilitate a more interdisciplinary and innovative approach to water management going forward. We are teaming with key partners in reaching these visions and continuously look for new opportunities for collaboration.

Thus, YWPDK's commitments to the water sector are two-fold: we wish to shape the water agendas of tomorrow and to do so, we need to attract and build a skilled and diverse workforce to undertake this task in the future. This interaction is at the heart of YWPDK, working both for our members and for the sector, and is shaping the successful achievements of the network.

For 2018 we will seek to elaborate on existing partnerships and build new lines of collaboration to accelerate our achievements toward our visions. An additional as-

pect to the work of YWPDK is the World Water Congress & Exhibition coming to Copenhagen in 2020 (IWA2020). Much of our work has been tailored this strategic event and we continuously seek to align current and future initiatives to this milestone, both within our network and our broader work. We especially work in the fields of Young Water Professionals and recruitment, the SDGs through the Task Force in IWA, Capacity Building through the Urban Labs and collaboration with IWA and additional support to the national programming committee of the IWA2020.

In 2018 we will also see our efforts go into building and enhancing our local presence in key cities in Denmark. The regional group in Copenhagen is very active and the aspiration is to lead their example in other cities. We hope to identify enthusiastic members, who would like to contribute to this process.

In March, we will have our forth YWPDK conference, this time jointly hosted by Kalundborg and Frederiksberg Forsyning. For the first time, we will also hold our Annual General Assembly in connection with the annual conference. We look forward to seeing as many members there, as possible.

I would like to give a special thank you to everyone who supports our network, to the regional representatives and all our active members, and to the hard-working board members of YWPDK. I think we can look back on 2017 with pride and towards 2018 with high aspirations.

*Trine Stausgaard Munk*  
YWPDK Chair



## 2017 NETWORK ACTIVITY TIMELINE



3rd Annual Conference



Boatride in Copenhagen with HOFOR



CCSC & RR Team building in Funen



Copenhagen Urban Lab 2017 participants



Presenting the Urban Lab at Embrace the Water, Gothenburg



August bike ride on Funen



Visiting metro drilling sites in Copenhagen



Workshop on the workforce of the future at Nordiwa, Aarhus



Panel on resiliency and YWPs in the future at the closing ceremony at the IWA Water & Development Congress, Argentina



Discussions between YWP members and YWP chapters at the IWA International YWP conference in South Africa

## THE 2017 FLAGSHIPS

### ARTIFICIAL INTELLIGENS (AI)



**A new group formed in 2017 under focusing on develop understanding and responsible application of AI**

AI will affect many industries in the future, including the water sector. To equip ourselves with the skills to understand and manage the change that digitalization will bring, YWPK launched the AI Group.

The group gathers people, who are interested in AI, who want to explore what changes AI will cause in the water sector and who want to learn and shape the opportunities and applications that arise from this development.

### COPENHAGEN URBAN LAB



**In 2017 YWPK took initiative to host the first Danish Urban Lab - hopefully one of several leading up to the IWA2020**

The concept of an Urban Lab was introduced by IWA as part of the vision for Water-Wise Cities under the Cities of the Future programme. For the Copenhagen Urban Lab 2017, a group of six talented, young urban planners, water engineers and landscape architects were selected to exchange knowledge and combine professional expertise

within neighbourhood resiliency planning on the case of Sankt Jørgens Sø in Copenhagen.

The group was tasked with developing a conceptual cloudburst design for the area. The team had nine intense days in Copenhagen in June 2017 to build their design!

### EDUCATION & CAREER



**An effort to map the water sector actors was initiated and the idea of an YWPK Water Education Promotion Program (WEPP) developed**

Recently new water educations have been established to meet the increased demand on skilled workforce in the water sector. But discussions as to additional higher degree programs persists. YWPK thus decided to initiate an effort to map the contemporary water sec-

tor to identify gaps, potentials and patterns. YWPK wants to map both the organizations and people shaping the sector. The outcome of the mapping would be a recommendation for a joint development of the water education across universities, industries, etc.

### OUTREACH



**YWPK hosted an international workshop and was represented at several events to expand the international involvement of the network**

The outreach program aims to connect YWPK internationally. In 2017 we participated in the international YWP conference with other YWPs and YWP chapters. We also contributed to the discussions on the importance of YWPs in the future at the Water & Development Congress.

The outreach program also aims to connect with YWPs and key contacts in the water sector of each of the Baltic countries. The aim is to continue to increase the number of international collaborations in 2018 and to meet with neighbouring YWP-networks.



## GETTING INVOLVED



**AI GROUP**  
Jan-Michael Blum  
ai@ywp.dk

*We are looking forward to great discussions, interesting guest speakers, new applications, promising prototypes and much more! Want to join?*



**CAPACITY BUILDING**  
Trine Stausgaard Munk  
iwa2020@ywp.dk

*As part of the work towards 2020 the Capacity Building group aspire to host Urban Labs and similar activities. We could use some extra hands!*



**EDUCATION**  
Thor Danielsen  
education@ywp.dk

*We are currently building an action plan for finalizing the mapping, contacting stakeholders and building a web-based portal of monthly YWP profiles - we could use a few extra hands and especially some web-skills!*



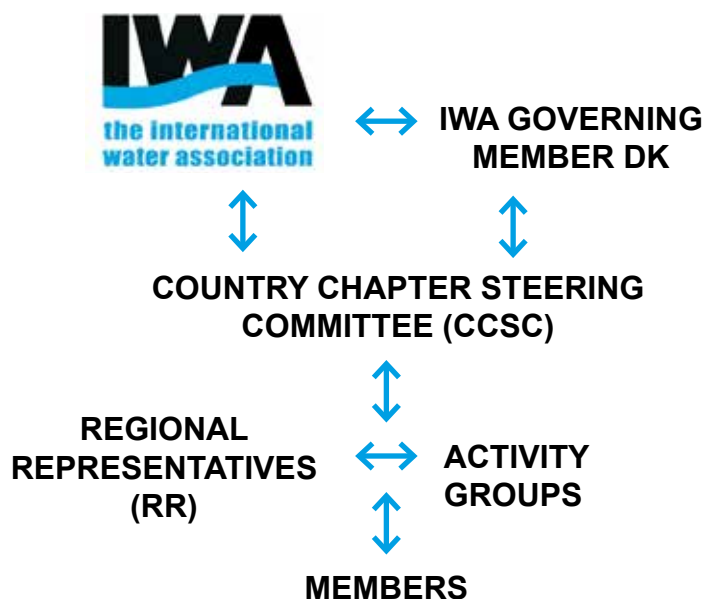
**OUTREACH**  
Jan-Michael Blum  
outreach@ywp.dk

*If you are interested in building meaningful alliances across organizations within and beyond Denmark, please feel free to contact us - the group is just formalizing!*

There are several ways to get involved in YWPK, depending on your interests, the network needs and your level of commitment. Right now the four groups to the left are active. If you have a good idea for a group or would like to join on, please feel free to contact us.

Below the overall organization of YWPK within IWA and internally in the network is illustrated. As shown, members can participate in the activity groups, act as regional representative (RR) or sit on the board (CCSC).

### YWPK ORGANIZATION

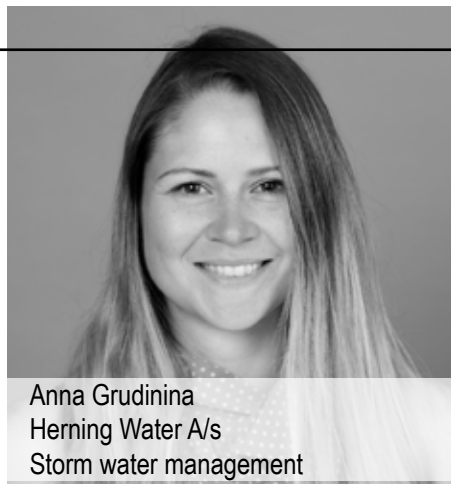




Lorenzo Pugliese  
Aarhus University  
Mitigation of nutrient pollution



Karoline Edelvang  
EKJ Consulting Engineers  
Groundwater



Anna Grudinina  
Herning Water A/s  
Storm water management



Matias Hede  
Orbicon  
Water management



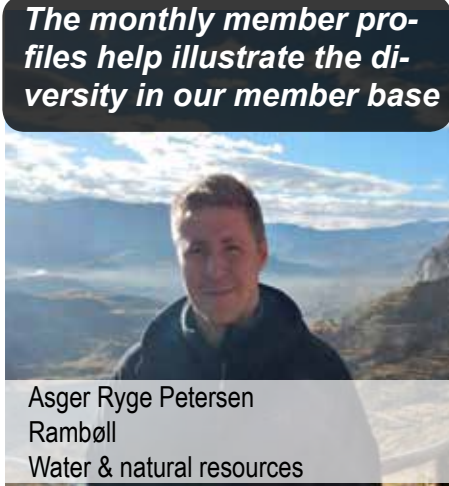
Janne Møller  
Rambøll  
Water management



Tina Bay Mathiesen  
HOFOR A/S  
Water distribution network



Lærke Kit Sangill  
VandCenter Syd  
Landscape architecture



Asger Ryge Petersen  
Rambøll  
Water & natural resources



Ronja Helleshøj Sørensen  
Region of Copenhagen  
Water resource management



Anne Barslund  
Grundfos BioBooster  
Process design



Inês Lousinha Ribeiro Breda  
Aalborg University  
Drinking water treatment

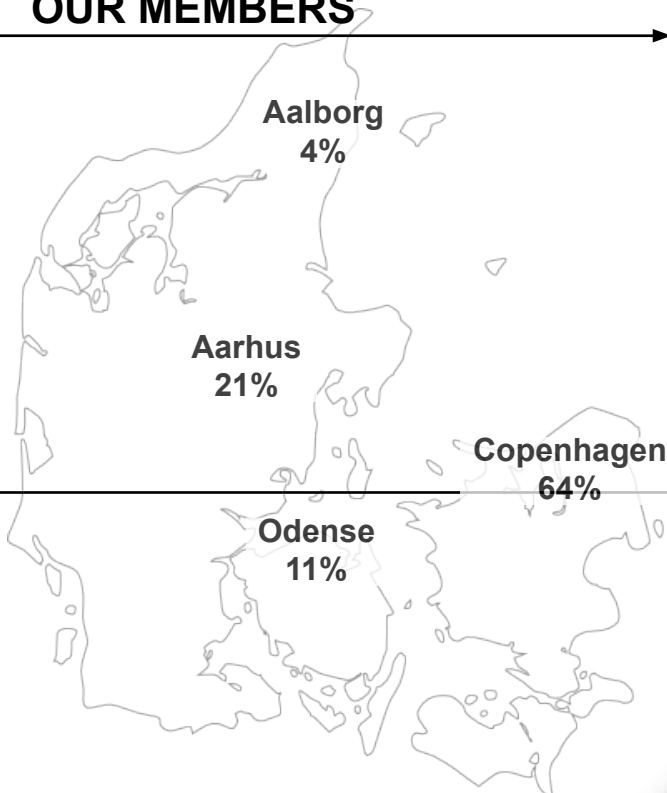


Karsten S Nielsen  
AVK  
Smart water initiative

***The monthly member profiles help illustrate the diversity in our member base***



## OUR MEMBERS

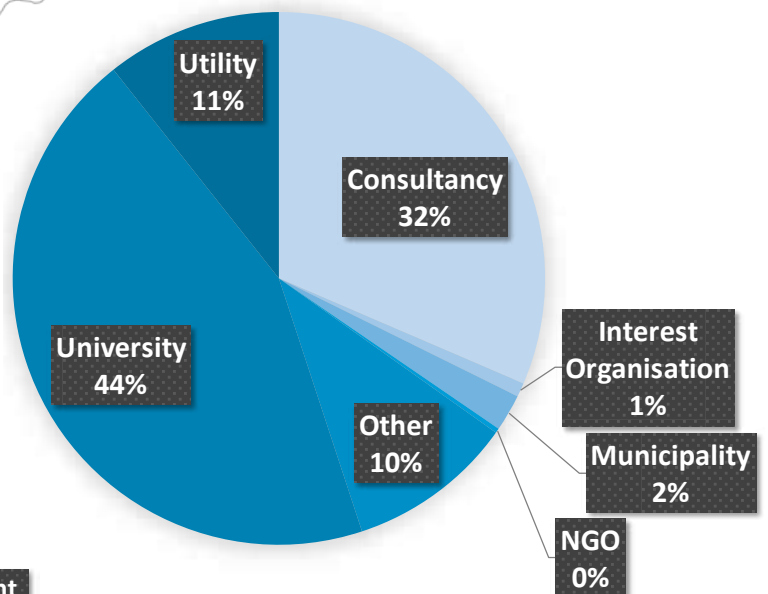


*"Working with water motivates me because of its fundamental necessity"*

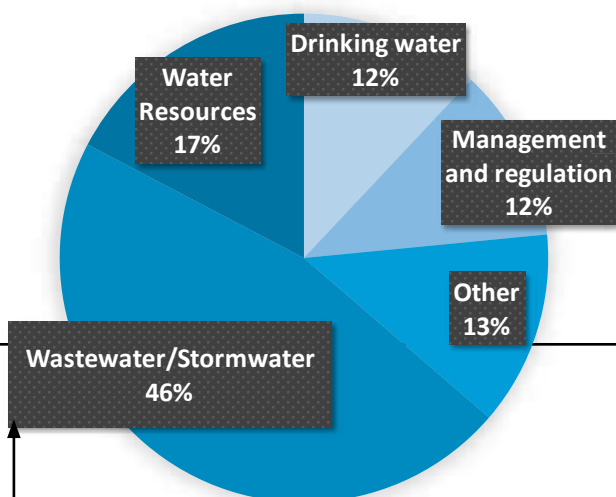
*"In dense urban areas, climate adaptations and water handling is more of a fusion between politics, architecture, sociology and engineering, and the objective and process of finding such a solution, is what drives and thrives me"*

*"I am very concerned about the emergence of water wars and the acute need for clean drinking water and sanitation worldwide, where I see huge potential for young water professionals to make a difference"*

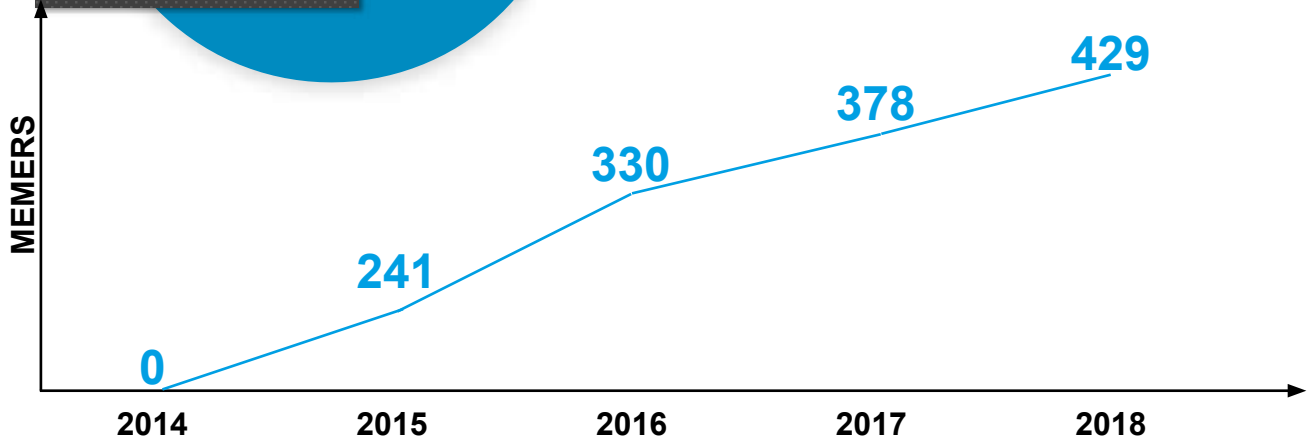
### Type of Organization



### Field of Interest



*"I really believe that YWPK represents a generation of professionals who will soon make important decisions towards water challenges"*



## REGIONAL REPRESENTATIVES (RR)



**Odense**  
Marc Vands  
Rambøll



**Copenhagen**  
Kirsten Prismo  
Orbicon





## YWPK BACKBONE

The essence of the network is the members! However, the network would not function without a solid and structured backbone. The Country Chapter Steering Committee (CCSC) is in charge of the overall development, management and maintenance of the network. The Regional Representatives (RR) ensures, that network is active regionally and provides the local management of the network and member engagement. Both functions are essential to the succesfull development of YWPK!

### COUNTRY CHAPTER STEERING COMMITTEE (CCSC)



***Chair***

Trine Stausgaard Munk  
Rambøll



***Secretary***

Maj Møller Sørensen  
Aarhus Vand



***Treasurer***

Niels Malmose Askjær  
VandCenter Syd



***Communication***

Thor Danielsen  
HOFORI



***Event Coordinator***

Jan-Michael Blum  
DTU



***Education***

Ane LaBianca  
Københavns Kommune

### SPONSORS

Our work would not be possible without the continued support from our sponsors. We would like to thank them for believing in our missions and vision, and for assisting us in developing the network and providing opportunities for our members.



