

# AMOZONE

## World's first simulation tool for ozonation and AOPs

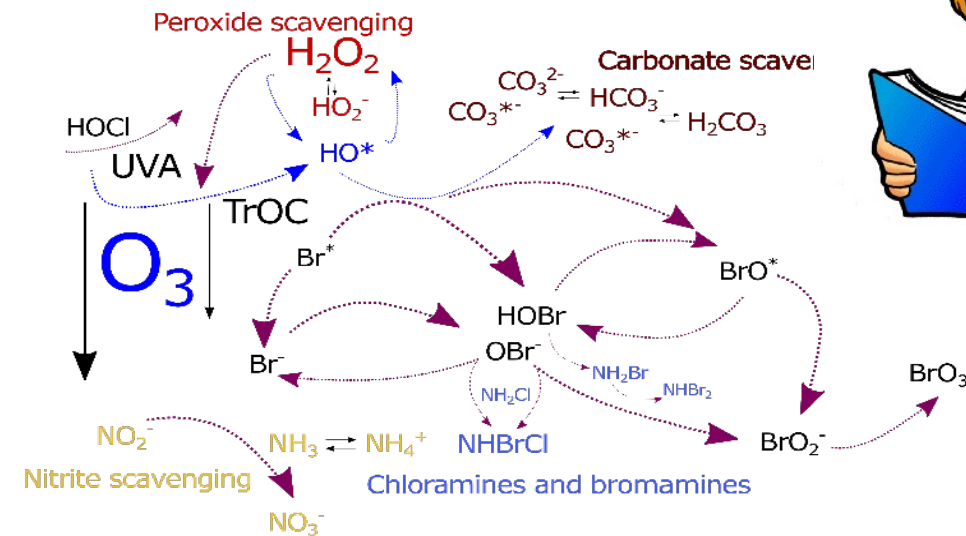
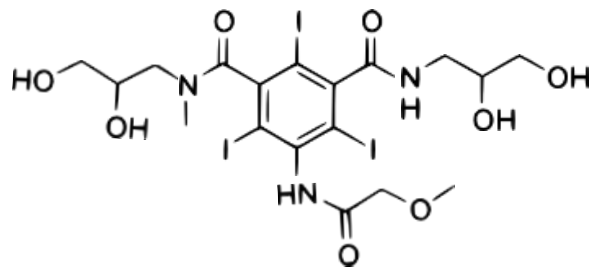


[AM-TEAM.com/AMOZONE](http://AM-TEAM.com/AMOZONE)

**AM OZONE**  
A product of **AM TEAM**

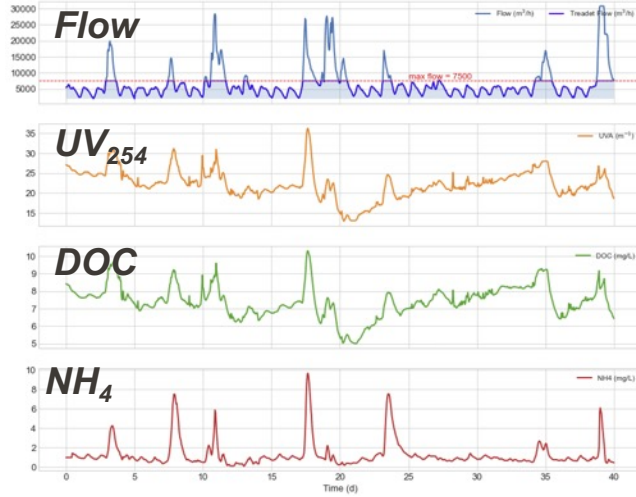
# Micropollutant removal

## Challenges in ozonation of secondary effluent

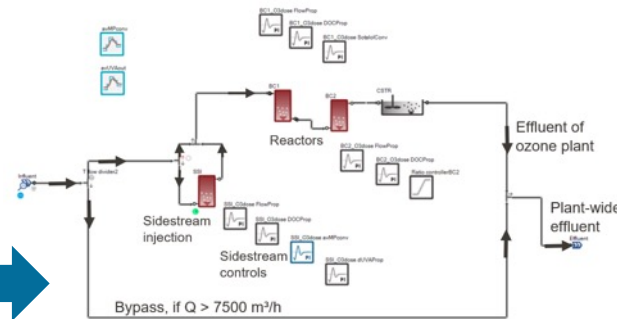
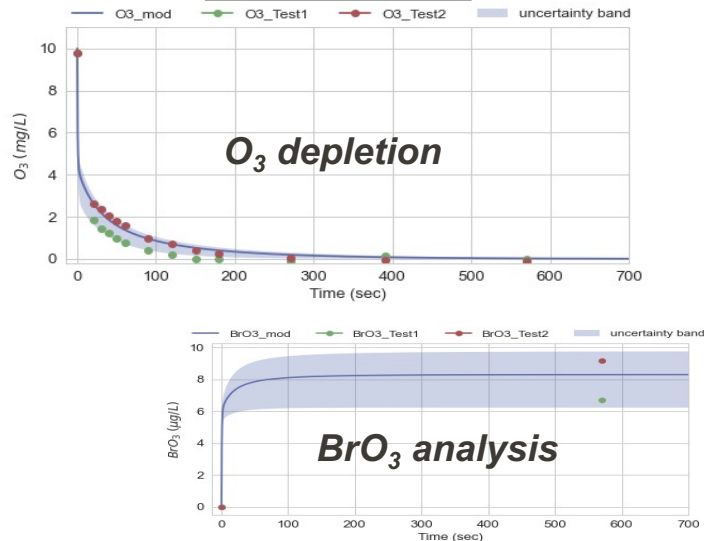


# Simulation tool for AOPs

## Effluent data

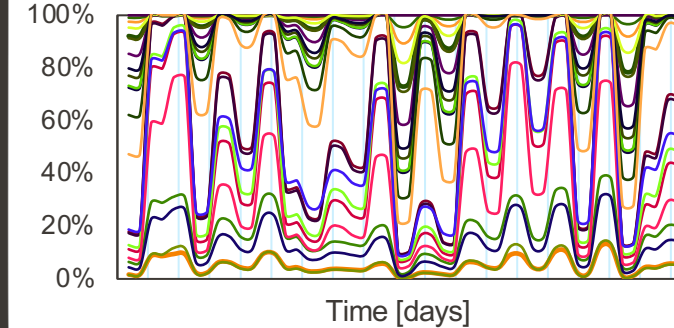


## Batch test data

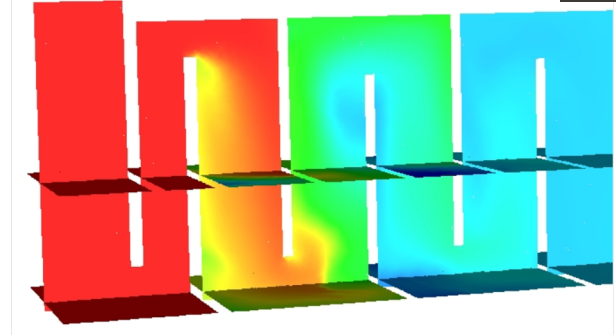


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## Kinetics: BrO<sub>3</sub>, O<sub>3</sub>, HO\*, MP's

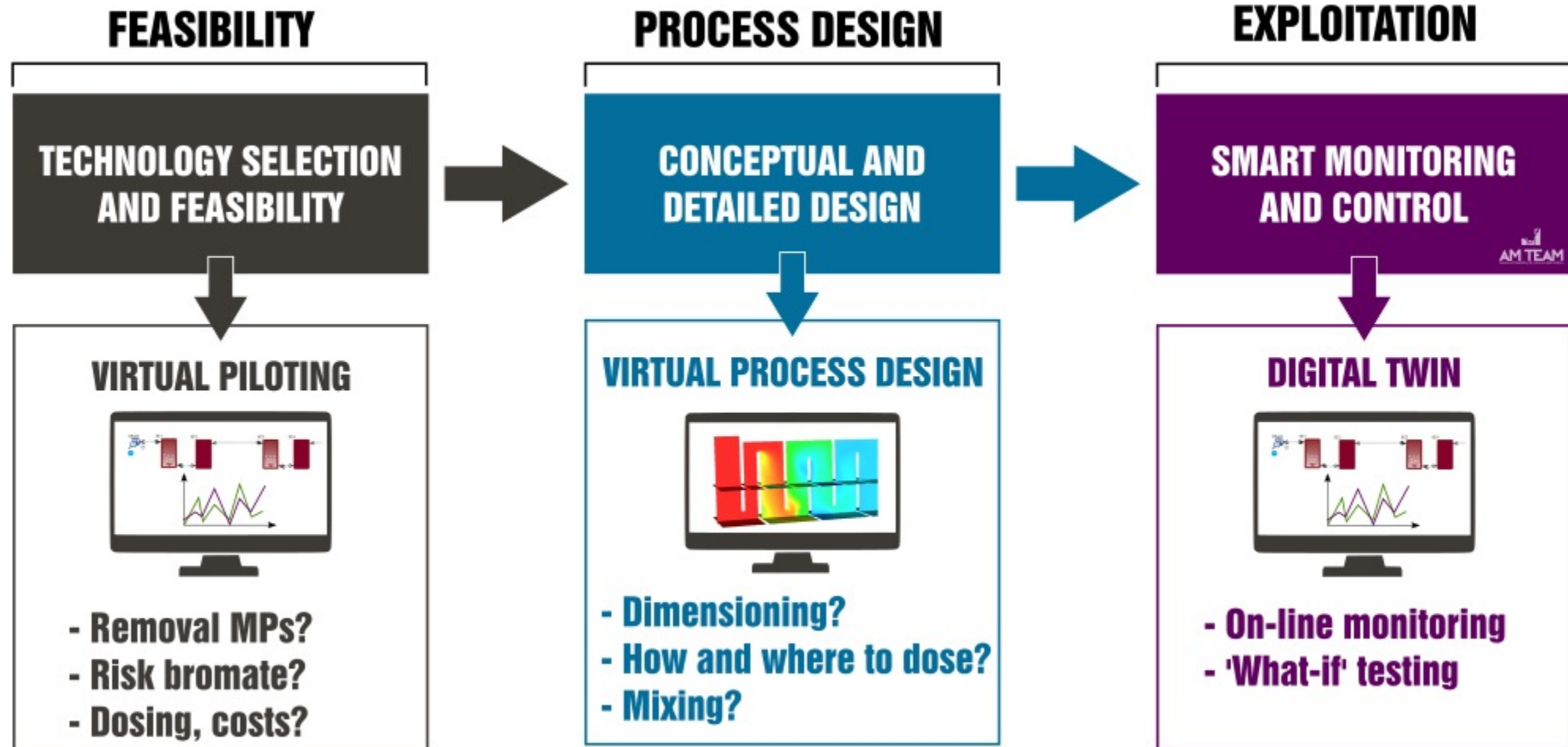


## CFD: BrO<sub>3</sub>, O<sub>3</sub>, HO\*, MP's in 3D





# Where could AMOZONE help you?



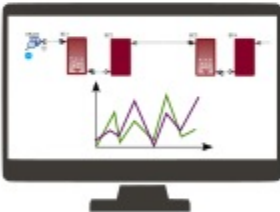
# Virtual piloting

## FEASIBILITY

### TECHNOLOGY SELECTION AND FEASIBILITY

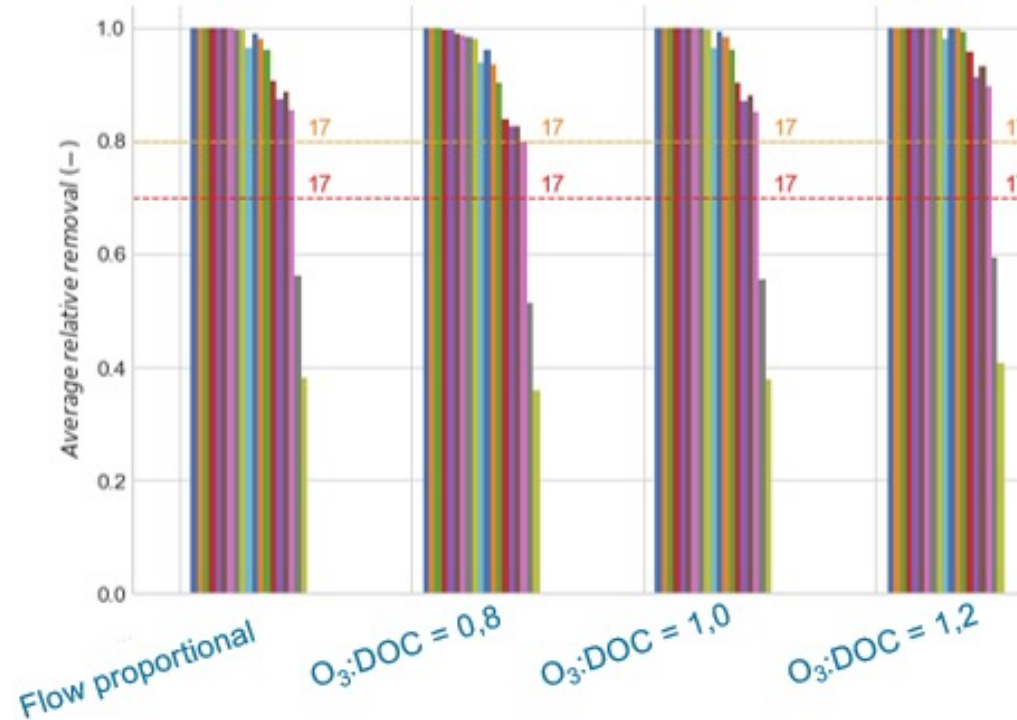


## VIRTUAL PILOTING



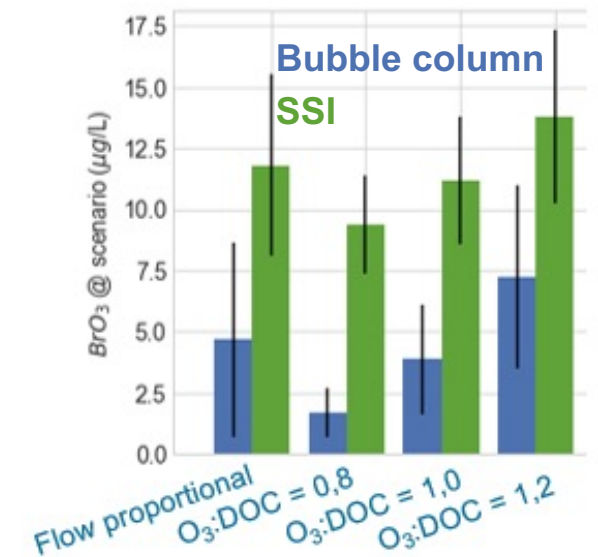
- Removal MPs?
- Risk bromate?
- Dosing, costs?

What is optimal dose for MP-removal?



Tested 9 dosing scenarios  
in 6 weeks

What is the risk of BrO<sub>3</sub>-formation?



# Design tool

## PROCESS DESIGN

CONCEPTUAL AND  
DETAILED DESIGN

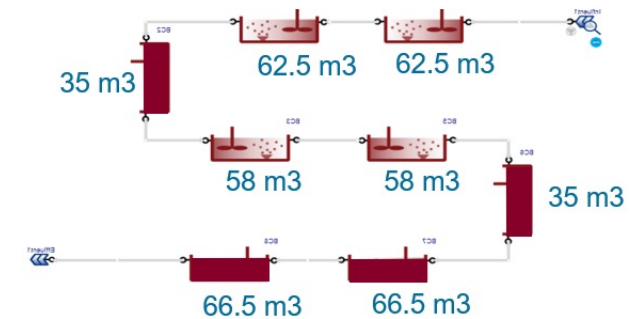
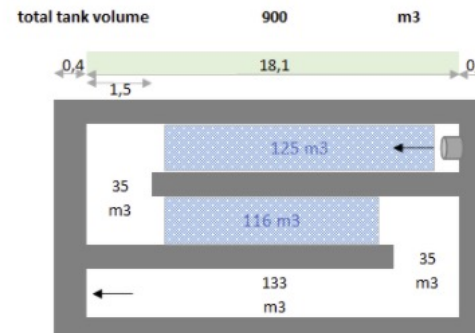


## VIRTUAL PROCESS DESIGN

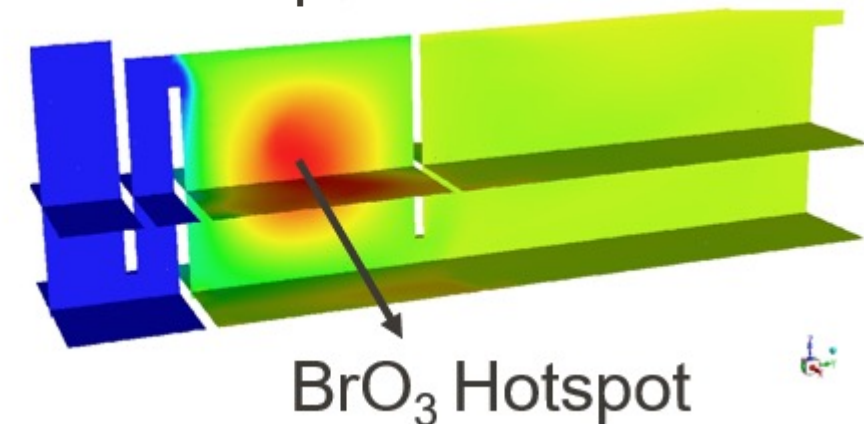
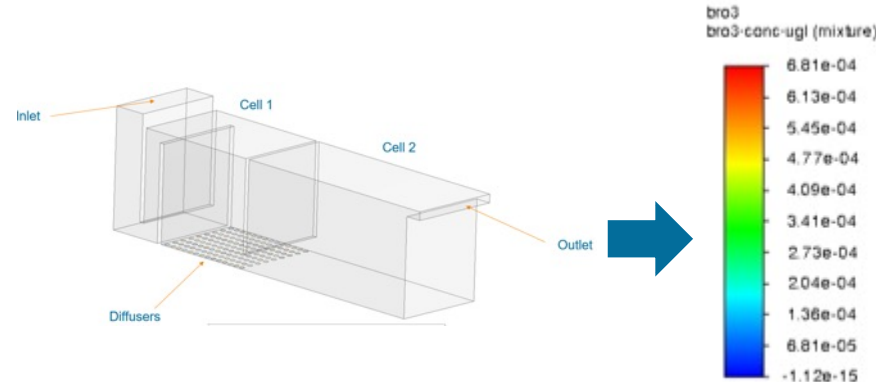


- Dimensioning?
- How and where to dose?
- Mixing?

What is the optimal volume of my reactor?



Where to put the diffusers? Where to put baffles?



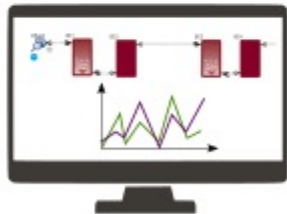
# Digital Twin

## EXPLOITATION

**SMART MONITORING  
AND CONTROL**

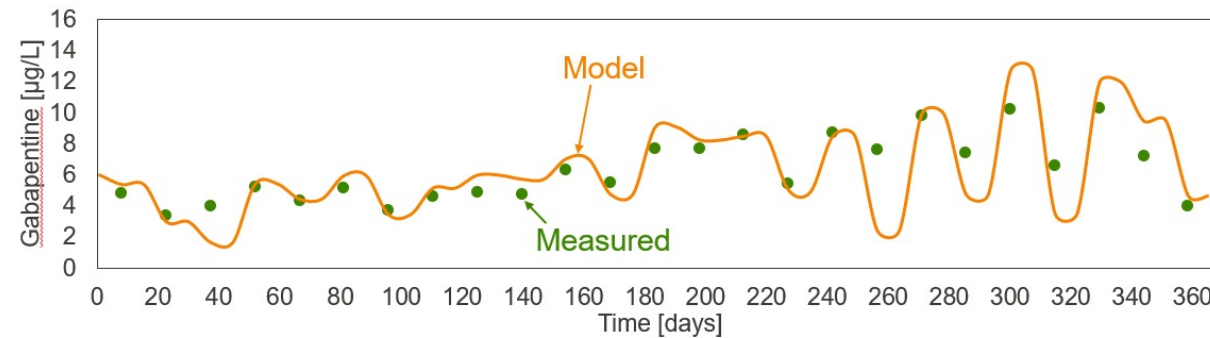


## DIGITAL TWIN

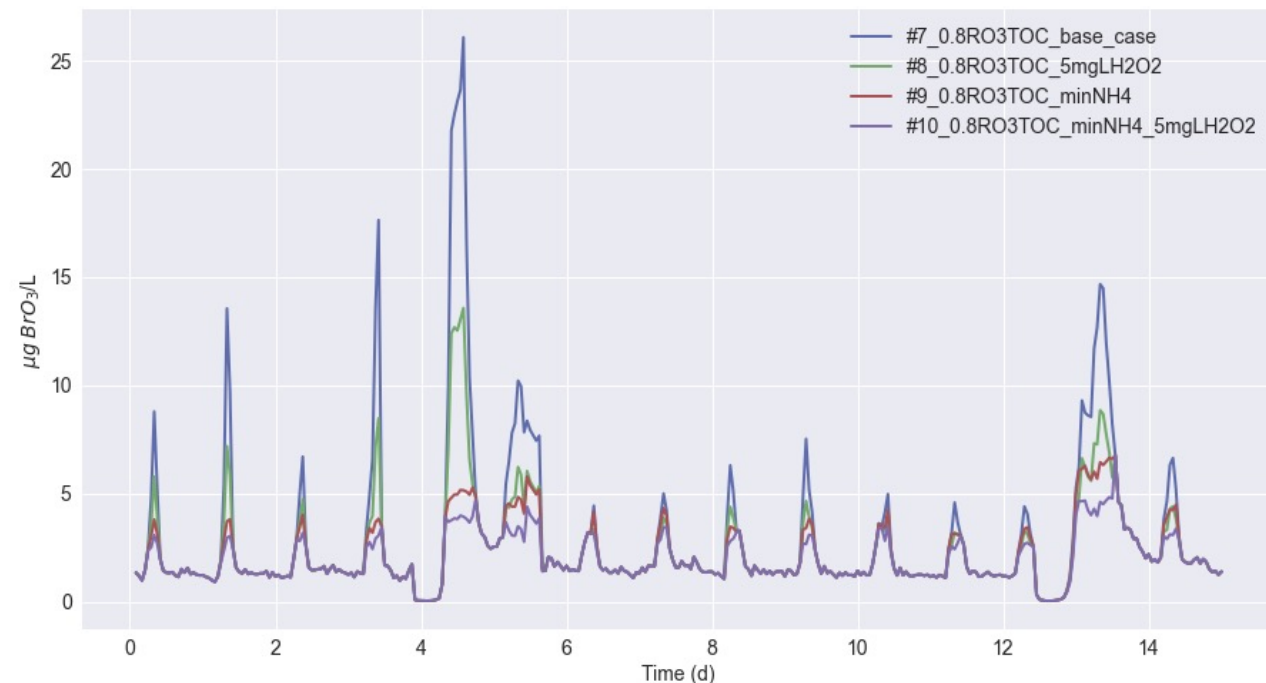


- On-line monitoring
- 'What-if' testing

What is removal of MP in function of time (long term)?



What can we do to mitigate bromate formation?





# Do you want to increase your knowledge and performance?



**LIVE WEBINAR**

## REMOVING THE UNCERTAINTIES AROUND OZONATION OF SECONDARY EFFLUENT

Tuesday, November 9th - 3 PM CET

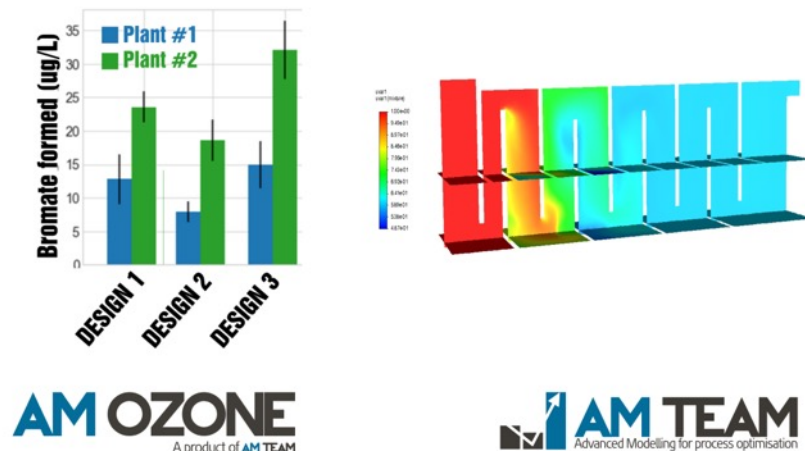
### Contact us!

[Pieter.Vlasschaert@am-team.com](mailto:Pieter.Vlasschaert@am-team.com)



Register for our next webinar  
Tuesday, November 9th

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Thank you all AMOZONE partners and customers!

