

# Environmental and Water Resources Engineering Seminar Series Presents:

Thursday, October 17<sup>th</sup> 2024, 3:30-4:30pm, ECJ 1.308



## Modern Modeling Techniques for Water Systems- Water Distribution System Modeling

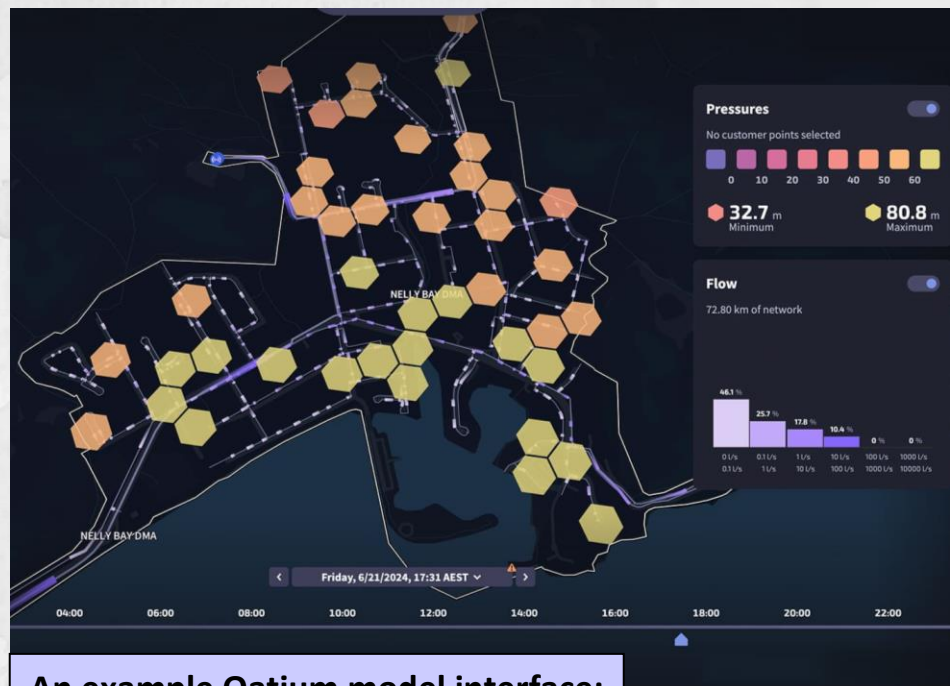
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### Abstract

This seminar will explore the evolving landscape of water modeling, comparing commercial software with open-source tools like EPANET. We'll examine how utilities model their networks and address challenges in large, complex systems with limited data. Real-world examples, like digital twins in rural utilities, will highlight industry trends, the role of startups, and how tools like Qatium are advancing water management solutions.



An example Qatium model interface:



### Background

Luke Butler is a civil engineer and software developer with over 15 years in the water industry. He holds a Bachelor of Engineering from RMIT University in Australia and has worked in various technical engineering roles in Australia, Scotland, and Canada before becoming the Director of Innovation at Qatium, a Valencia-based startup. A keen supporter of open source, Luke has released several free and open applications for the water sector.