

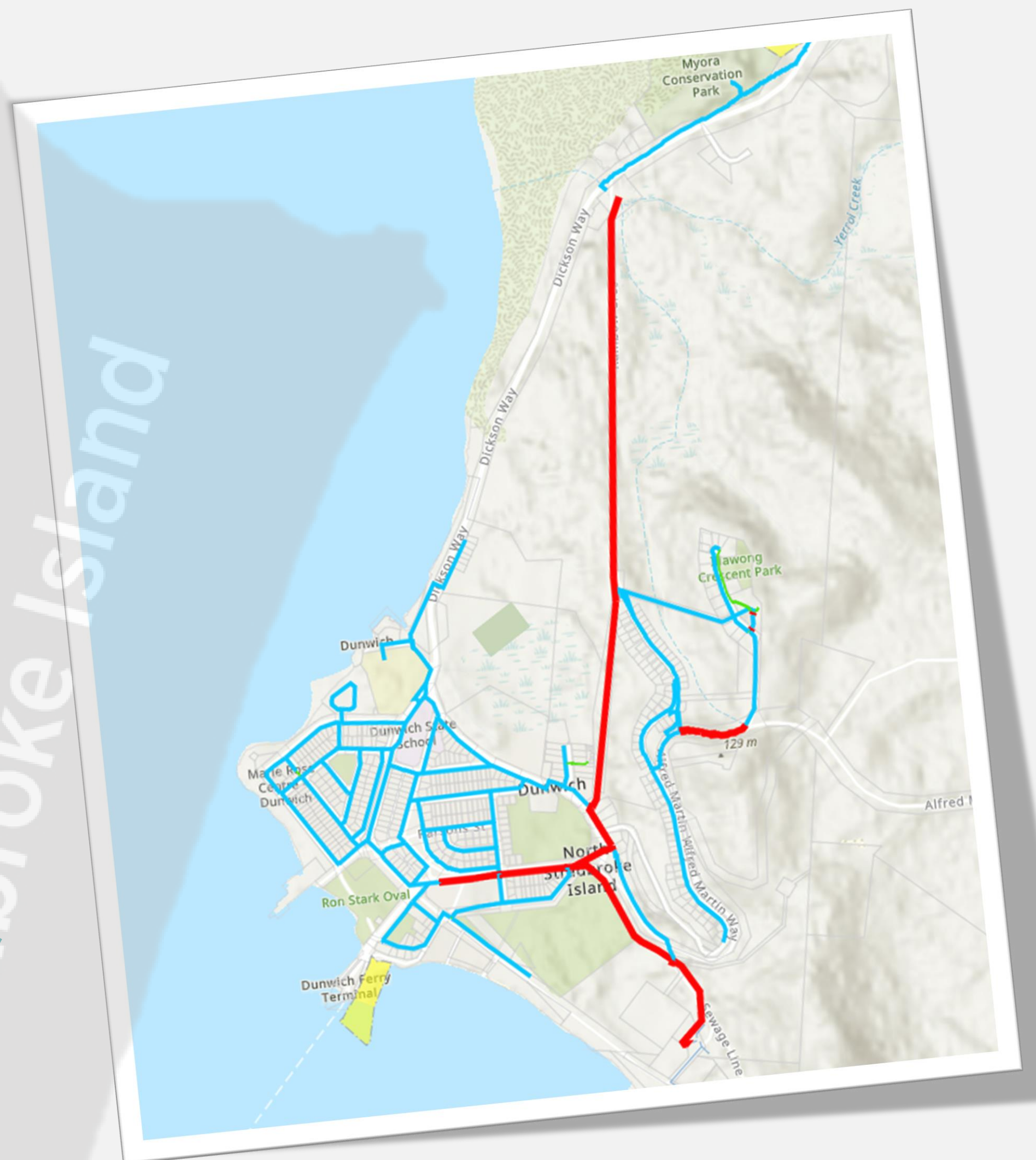
# ASSET CRITICALITY ASSESSMENT ASSISTING REDLAND CITY COUNCIL TO PLAN FOR FUTURE INVESTMENT

Joanne Pu and Moira Zeilinga  
Clear Idea, Parrearra, QLD

## INTRODUCTION

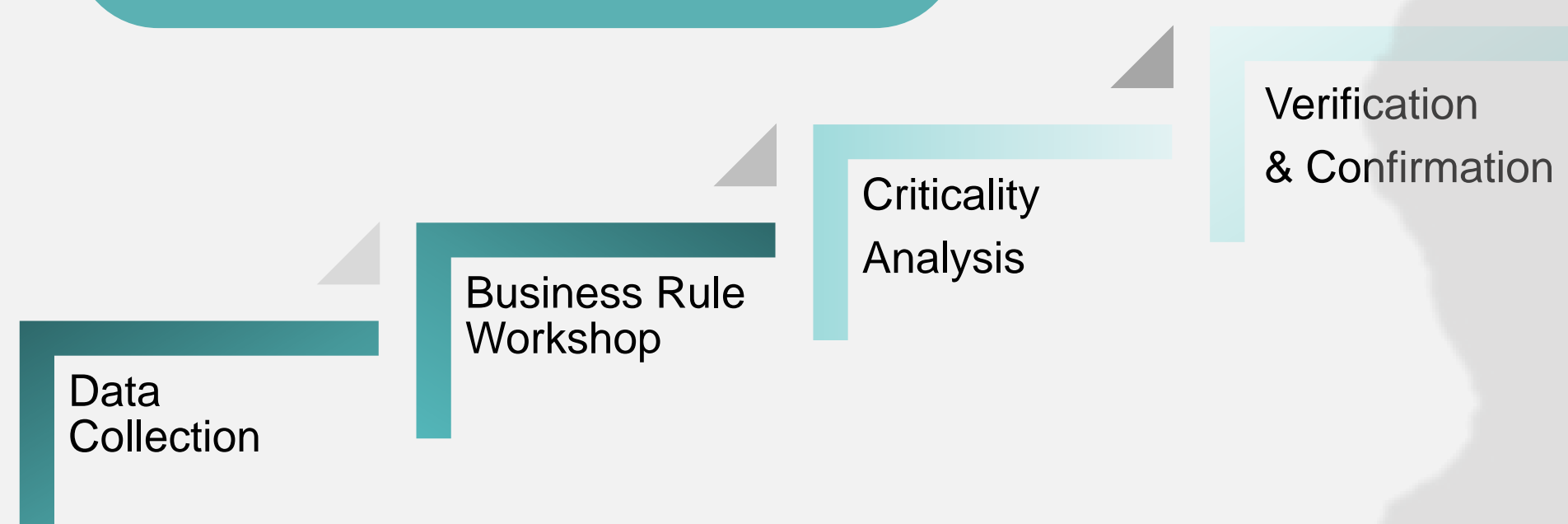
Asset criticality assessments can help Councils determine how critical their water and sewerage assets are so they can prioritise their spend according to the asset criticality, failure likelihood and overall risk. This means that projects for asset renewals can be prioritised based on risk and maintenance programs can be optimised according to criticality, helping Council to understand and limit their risk exposure.

In 2021, Redland City Council decided to embark on the journey of applying the *qldwater* Network Asset Criticality Guideline (developed by Clear Idea for *qldwater*) on a test case in North Stradbroke Island (water facilities on the whole island and water mains at Dunwich) to determine if they were comfortable with applying the framework to their water and wastewater assets.



## METHODS

## CONCLUSIONS



This project has successfully demonstrated that the framework is a useful tool that can be implemented across their remaining water and sewerage infrastructure. Redland City Council now has a more robust method for understanding their infrastructure risk and have also been able to identify some asset data improvements as part of the project.

The successful completion of this project is a win for the industry as the wider Queensland water industry has benefitted from learnings shared back with *qldwater*. Criticality will be used to optimise future decision making for the assets assessed and the framework will be rolled out across other assets.

