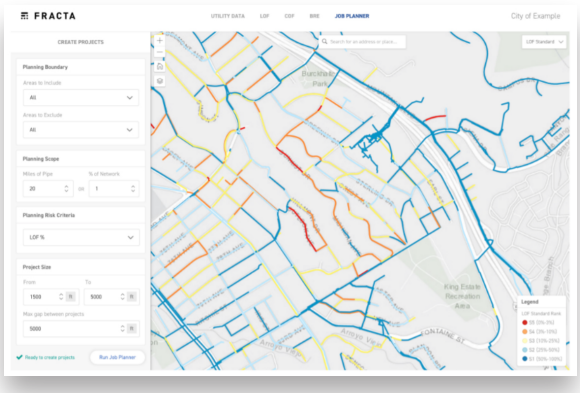
BRINGING ARTIFICIAL INTELLIGENCE TO INFRASTRUCTURE

Fracta's cloud-based software solution uses Machine Learning to assess the condition and risk of drinking water distribution mains; Fracta Likelihood of Failure (LOF) determines the statistical probability that a water main will fail. Fracta Consequence of Failure (COF) determines the consequences, or severity, of the failure and quantifies the direct and indirect costs of those water main failures using a Triple Bottom Line monetized approach which is combined with LOF to determine a utility's total Business Risk Exposure (BRE).

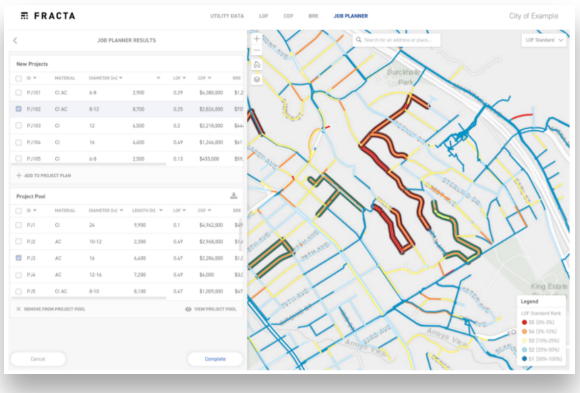
Once a utility has calculated the LOF, COF, and BRE, it can decide upon an actionable plan to do further inspections, rehabilitate or replace water mains. Fracta Job Planner automates the process of selecting projects "jobs" enabling asset managers, engineers, and planners to compare different projects to determine the most cost-effective ones to mitigate the risk of aging water distribution mains.

JOB PLANNING

Fracta Job Planner empowers a utility to create asset management plans that fit its unique circumstances. A plan is comprised of groups of projects chosen from a library of project scenarios. Critical information such as total risk reduction, risk reduction efficiency, project cost, and return on investment are available to compare, improve, and track the risk reduction and cost benefits of each plan. The cost settings associated with water main projects are flexible to fit any planned action, whether it is a replacement, rehabilitation, proactive leak detection, or physical condition assessments.



Fracta Job Planner automates the capital budget planning process and removes inconsistencies from eyeballing and pattern picking through painstaking GIS map drill downs looking for potential projects. Job Planner brings new risk-based projects easily to asset managers' fingers with a few simple clicks.



In addition to the high-level overview, a detailed analysis for asset management plans is provided that dives deep into the statistical distribution of water main material, age, and diameter, enabling utility planners to gain control over the unique objectives and improve existing plans as new information becomes available.

KEY BENEFITS

- Automate and optimize water main renewal and replacement projects reasonably sized for a variety of works
- Identify water mains for upsizing around new development projects
- Coordinate water main projects with upcoming street paving plans for synchronized cost savings
- Specify water main pipe materials to be phased out
- Utilize a polygon drawing tool to capture projects in a specific geographic area
- Plan by pipe length or percentage of network
- Store projects plans for future use or comparison purposes

LET US HELP YOU PLAN YOUR WATER MAIN RENEWAL AND REPLACEMENT PROJECTS

Request a demonstration at www.fracta.eu