Dragonfly
SM

by **Jacobs**

Dragonfly for Sewers

AI-powered condition assessment and guidance to cost-effectively manage collection system infrastructure.
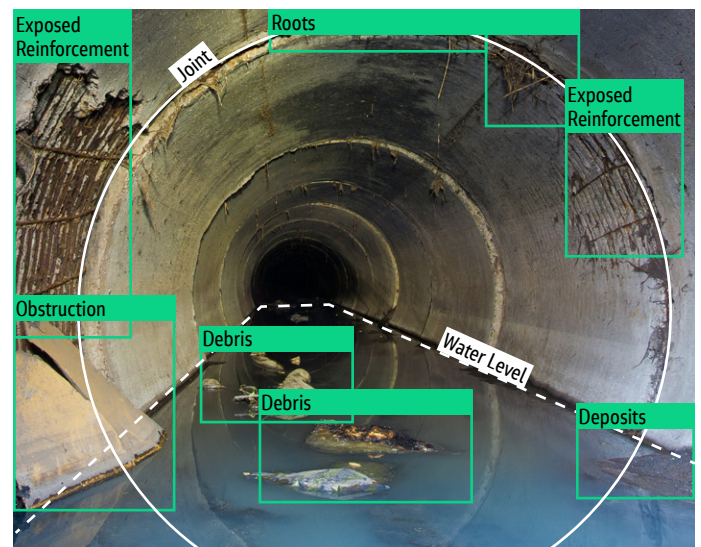
Managing aging infrastructure requires ever-increasing time and financial resources to stay ahead of failures. While today's processes are well established, they tend to be reactive, manually intensive, and prone to errors, which results in inconsistent data. It is no wonder utilities rank data quality as one of their top challenges in analyzing how, when, and where to invest their improvement dollars.

Jacobs' Dragonfly technology allows you to review your inspection video while it analyzes and provides prescriptive guidance on how best to maintain your buried assets. Dragonfly enables you to address issues before they become problems, and provides integrated asset management support, generating optimized re-inspection and maintenance schedules as well as prioritized rehabilitation lists. Dragonfly is vendor-neutral and compliments your existing CCTV management tools and investments.

Dragonfly **efficiently** provides the **accurate** data and AI-driven **recommendations** your team needs to optimize decision-making and refine your system management and intervention strategies.

✓ Accurate

- Consistent and objective data
- AI reduces the variability of manual detection
- Rigorous, human-augmented QA/QC procedures
- Trained on over 10 million feet of sewer video footage
- Validated by Jacobs sewer inspection experts

✓ Recommendations Powered by Argon

- Support proactive intervention
- Forecast remaining useful life with AI
- Create maintenance plans and schedules
- Create rehabilitation plans
- Develop cost estimates for high-level budgeting

✓ Efficient

- Automatically identify standard sewer defect codes
- Track and analyze defect locations and severity
- Detect faster than the human eye
- Process more backlog CCTV footage
- Rapidly identify issues

✓ Trusted, Comprehensive Support

- Jacobs provides a complete range of professional services to help our clients build thriving cities, create resilient environments, and realize operational advancements.
- Dragonfly is an integrated offering built on the foundation of Jacobs' global water and digital expertise.

Upload
- Sewer Video
- Pipe Inventory

Analyze
- Detect Defects
- Score Assets

Guide
- Analytical Insights
- Recommendations

Upload

Dragonfly is a 100% web-based application. Users access the solution from a browser to view the dashboard and upload/download files through a secure transfer interface.

Analyze

Once uploaded, Dragonfly's AI "eye" automatically identifies sewer pipeline defects, their locations, and severity. The results then undergo a thorough quality assurance protocol where they are reviewed by NASSCO PACP-certified technicians for accuracy and completeness.
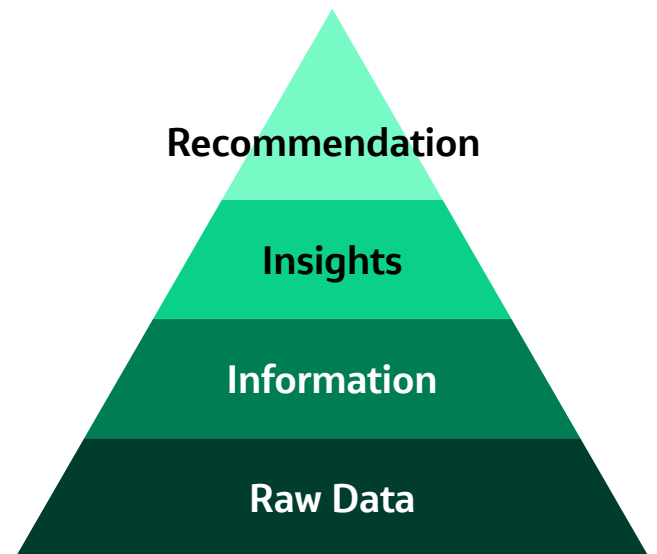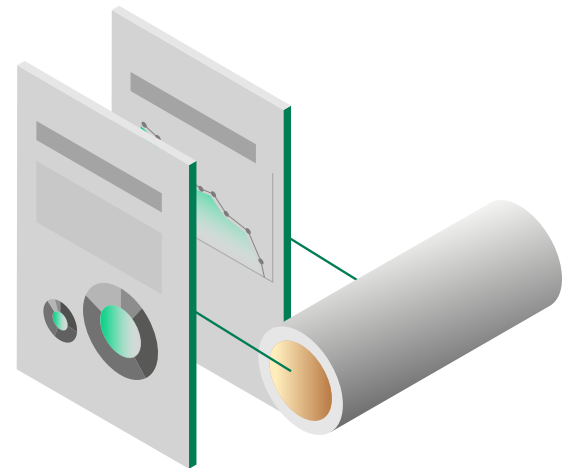
Data can be exported from the web interface and the final NASSCO Standard Exchange PACP Database imported into client GIS, CMMS, or CCTV data organization tools.

Guide

Dragonfly turns data into recommendations using the advanced analytics and powerful AI-driven forecasts in Jacobs' asset management model Argon (formerly SCREAM).

Argon forecasts how frequently different types, quantities, and combinations of defects lead to failure and suggests cost-effective remedial solutions.

The robust asset management engine can identify priority pipes, schedule re-inspection, identify needed maintenance and offer estimates for rehabilitation, repair, and replacement.

Recommendation

Insights

Information

Raw Data

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Jacobs