

Streamline Sewer Defect Detection

As nearly half of the U.S. sewer infrastructure nears the end of its lifespan, many cities face an urgent need to accurately assess the condition of their pipelines to prioritize maintenance and maximize budget efficiency. Traditional pipeline inspections to identify defects are time-consuming and subjective.

The **BRYX Sewer Pipeline Defect Detection** model transforms the tedious process of reviewing CCTV video for sewer defects. This pre-trained machine learning model uses object detection to quickly analyze CCTV images and video, detect/classify defects based on NASSCO standards, generate annotated results, and produce a numerical summary report of all issues found. Engineering consultants can use this model to automate their quality control (QC) process, saving hours of manual work and adding more efficiency and accuracy to the services they provide to their clients.

For more information contact us at
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Automated Assessment of Common Defects

The **Sewer Pipeline Defect Detection** model detects and classifies common sewer pipeline defects, including:

- Structural defects such as cracks, fractures, breaks, holes, and more.
- Operation and maintenance defects such as deposits and roots.
- Construction defects, including tap breaks, etc.



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Estimate Sewer Repair with Ease

Traditionally, consultants have relied on manual analysis of CCTV video of sewer pipes to create detailed repair recommendations and estimate costs for utility companies. This often tedious process requires combing through reports and calculating figures by hand.

The **BRYX Smart Sewer Repair** model employs knowledge-based AI to efficiently analyze CCTV inspection results and produce actionable insights for clients that align with established engineering standards and policies. Rather than spending valuable time looking through past reports and calculating costs, the model quickly identifies necessary repairs and outputs accurate cost estimates, all without any manual input. It's a faster, more efficient way to deliver results to clients, allowing them to stay proactive with infrastructure upkeep.

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Automated Detection and Recommendations

The **Smart Sewer Repair** model accelerates pipeline maintenance planning with support for the most common repair and rehabilitation methods. The model processes PACP (Pipeline Assessment Certification Program) exchange database files and generates a detailed spreadsheet listing tailored recommendations, complete with cost options for each:

- **Trenchless Sewer Lining – UV Cured**
- **Trenchless Sewer Lining – Steam Cured**
- **Pipe Replacement**
- **Sectional Liner**
- **Test and Seal – Grouting**
- **Light Cleaning**
- **Root Treatment**

When paired with the **BRYX Sewer Pipeline Defect Detection** model, **Smart Sewer Repair** helps consultants gain faster, smarter insights into their client's infrastructure, allowing them to develop and deliver targeted maintenance and repair plans. Additionally, incorporating AI into everyday operations to streamline processes can help firms expand their services, take on more clients, and gain a competitive edge.

Use the **Smart Sewer Repair** model with the **Sewer Pipeline Defect Detection** model to optimize workflows and maximize team efficiency and resources.

