

# GraniteNet

## One Smart Software Solution

PROVEN AI TOOLS FOR SUPERIOR  
PIPELINE ASSET DATA MANAGEMENT

A turn-key Cloud-based platform for an  
automated condition assessment and  
proactive decision making.



PROVEN AI ALGORITHM; REFINED OVER 6 YEARS THROUGH CONTRACTOR & MUNICIPAL USAGE WITH THE PIPELINE ASSESSMENT AND CERTIFICATION PROGRAM (PACP) IN THE UNITED STATES, NOW APPROVED AND LIVE WITH THE WRC PIPELINE CONDITION ASSESSMENT PROTOCOLS.

### What are the GraniteNet Defect Coding Services with AI?

GraniteNet provides WRC approved coding services to carefully evaluate water and sewerage assets so that field crew inspectors can complete work faster, reduce time on the streets, reduce traffic disruption, and avoid coding quality issues. Additionally, Engineers can focus on projects at hand to become more proactive in the field, ongoing inspections can be simplified, seamlessly shared, coded and reviewed using machine vision. GraniteNet can automate an individual customer's workflow parameters to deliver consistent quality, speed up inspections, automate decisions and improve the efficiency of work planning.

### How does GraniteNet deliver its Coding Service?

The Defect Coding As A Service ("DCAAS") is most efficient when using the GraniteNet Cloud Hosted service because the Artificial Intelligence ("AI") processing engine resides in the Cloud making it faster and easier to process large and often repetitive (daily) uploads of data. Using the GraniteNet WebSync product, CCTV inspections are transmitted wirelessly from the field to the Cloud when each inspection is stopped, making the upload process automatic and simple for the inspector. Also, data security is maximized from using secure encrypted data transmissions throughout the day, removing the danger of malware/ransomware being spread through portable drives plugged into the network.

Once the inspections are uploaded to the organisation's dedicated GraniteNet Cloud environment, they will be queued for processing by the "AI Machine". There, the GraniteNet proprietary AI engine and its machine learning algorithms will interrogate the video(s) and classify WRC defect codes associated to the frames within the video stream where the defects are located. After the AI machine has rendered its initial evaluation, each inspection is routed to a certified GraniteNet WRC coder for final review and certification. Once approved, the coded inspections are provided to the customer for final review and acceptance.

Results of the service are made visible via the Web through real time dashboards presented to data managers so that they have visibility into progress and can review the work done. The service is that simple.

GraniteNet provides  
a service for the  
assessment of sewer  
networks based on  
WRC coding.

### GraniteNet includes:

- AI Defect Coding
- Prescriptive Planning
- GIS Mapping
- Basic, Web, Advanced Interface Options

### GraniteNet fuses:

- Workflows
- Artificial Intelligence
- Cloud Computing
- Data captured from existing inspection equipment



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## The Prescriptive Planning Reporting Service

Also, as an additional and separate service, GraniteNet offers a sophisticated decision support service based on the results of the processed inspections to help prioritise risk and organise the types of work that should typically be done to remediate compromised infrastructure. The service is called “prescriptive planning” and it can be configured to provide recommendation reports daily, weekly or on virtually any frequency desired – to identify key infrastructure at risk of failing as well as the suggested method of repair/ replacement based on the out-of-the-box decision logic provided by GraniteNet. A big benefit of this service, for example, is being able use maps to visualize problems and select all of the pipelines with similar rehabilitation needs so that utility decision makers can quantify work, budgets and streamline repairs or contractor for the specific type of work needed to be done (for example a relining project) according to established service level requirements and budget.

## More Details

Utilities / Contractors use the service for:

- Coding inspections (video recordings) they collect on daily basis, saving operator’s time and increasing overall productivity (meters per day).
- Coding their legacy archives of videos that were recorded but never reviewed/assessed.
- Comparing current field inspectors quality to machine-based quality to use for training and consistency.

The GraniteNet Defect Coding service accepts data for coding in the following formats:

- GraniteNet native database and media (any version of GraniteNet), with online upload using GraniteNet WebSync.
- Import existing asset data into GraniteNet and submit it for coding using GraniteNet WebSync, ask for details.
- Contact GraniteNet to confirm the details:
  - If you have raw videos to code, or for details of compatibility with other CCTV software.
  - Or, to check upload of data from your existing asset capture equipment.

In addition to the WRC format reports, an Excel spreadsheet may also be provided that can be customized with specific headers that the client requires. This can simplify sharing of completed inspection to partners and outside users eliminating any current double entry of data, internal tracking and for easy billing reconciliation.

## Cost

The cost for the WRC coding service depends upon several factors, such as the quantity of footage, the type of video format, and any special requirements such as for urgent turnaround times (if any). Simply upload a dozen or so inspections to our Trial Site and we’ll process your inspections so you can compare our WRC deliverables to your own – and we can provide a quote based on the sample set provided.

Please contact your local  
GraniteNet sales rep or  
request a demo for a  
more detailed discussion.



GraniteNet

[www.pearpoint.com](http://www.pearpoint.com)  
+44 (0) 1420 470207  
[Granitenet.sales.uk@spx.com](mailto:Granitenet.sales.uk@spx.com)



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