

 Info360 Asset

E-BOOK

Informed, Actionable, Asset Condition Management and Risk Planning in the Cloud

innovyze.com



Info360 Asset, Innovyze's new software as a service (SaaS) solution, allows water utilities and local councils to streamline the process of capturing inspection data and media in the field for the purposes of asset capture, condition assessment and risk management. Managing these deliverables in a cloud service, Info360 Asset provides an interface to review and verify pipeline condition inspections. Info360 Asset makes it easy for any stakeholder in the utility to visualize, query and report on asset condition, performance and risks associated with failure.

Info360 Asset provides user-configurable analytic tools that leverage asset performance, and condition data to build likelihood and consequence of failure models to determine overall risk for assets in a network. Risk models are continuously updated as inspections are collected in the field, presenting the results on a map and in dashboards.

With reliable asset, condition, performance and risk data, asset managers can more effectively prioritize maintenance, repairs, and renewals, and defend risk-based investment decisions to all stakeholders.

For more details,
click the following sections:

[Inspection Upload Portal](#)

Connecting Field and Office

[Condition Management and Assessment](#)

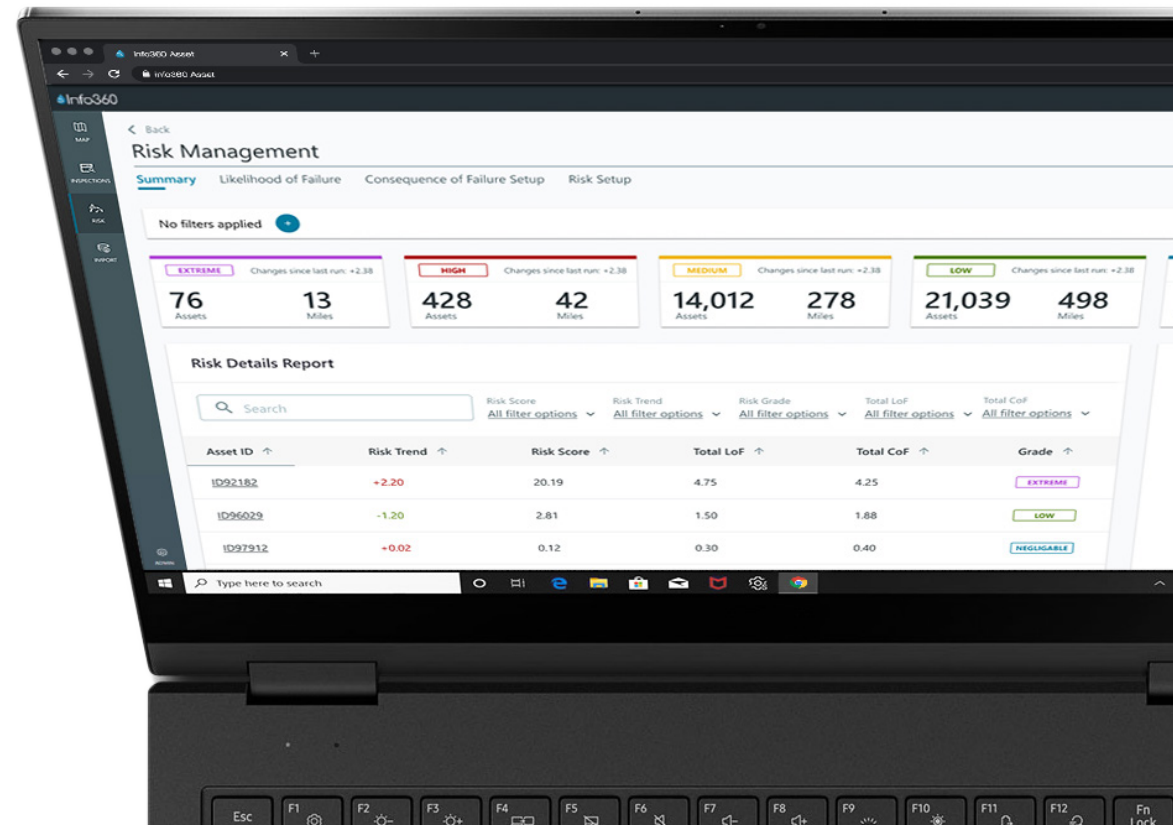
Reviewing Inspections and Scoring Defects

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[Map View of Assets and Inspections](#)

Finding and Managing All Assets



Inspection Upload Portal

Connecting Field and Office

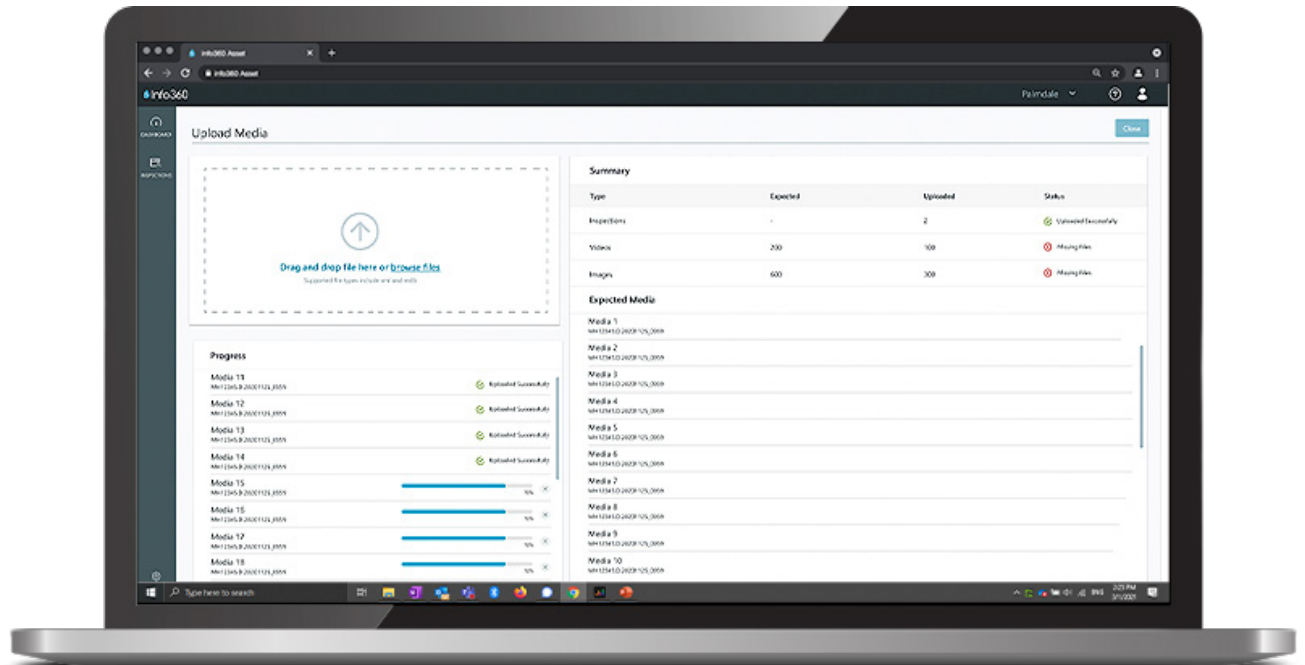
Streamline the process of delivering condition inspection and performance data and media from the field using Info360 Asset's upload portal. Avoid costly inefficiencies associated with incorrect assets or duplicated inspections being performed. Increase crew performance and reliability, monitor productivity, and track the quality of deliverables.

Features – Field (utility or contractor):

- Field crews and supervisor notified which media have been uploaded successfully, which ones have been submitted to the office and clients, and which videos and images are missing.
- The upload status of deliverables can be left at any progress state so that missing media files/ can be uploaded later.
- Verification application for the field supervisor to review and validate inspection data and media prior to submitting to the utility.
- Immediate notification about which inspection(s) was rejected by the operator, and the reason why.

Features – Utility operator

- Notifications of recently uploaded inspections and associated media from the field crews.
- Monitor and track the status of inspections as they move through the review process.
- Auto-generated inspection IDs using the upstream manhole reference, the direction, and the inspection date and time.
- Display of inspections' status: reviewed and published to Info360 Asset registry, review in progress, and waiting for updating from the field.



Screenshots may not be final and are subject to change.

Benefits:

- Constant inspection data stream from the field to the office's centralized asset and inspection management system.
- The Notification system informs and provides clarity to both contractor and utility of inspection approval status.
- Faster access to field data leading to quicker resolution during emergency response (e.g., sewer overflows).
- Better service provide office and clients by the contractor, through higher quality, reliable, and more timely delivery.
- No more external hard drives, zip drives, storage, or backup disasters.
- No loss or misplacement of associated images and videos – avoid wasted time and money.
- Removal of dispersed media storage to avoid inefficient retrieval and poor sharing of data and media.
- Effectively scale your growing inspection program and all of its data.
- Validated and quality-controlled data leads to increased ROI.



Condition Management and Assessment

Reviewing Inspections and Scoring Defects

Info360 Asset's verification application empowers field and office workers to review the quality and accuracy of individual inspections and associated observations.

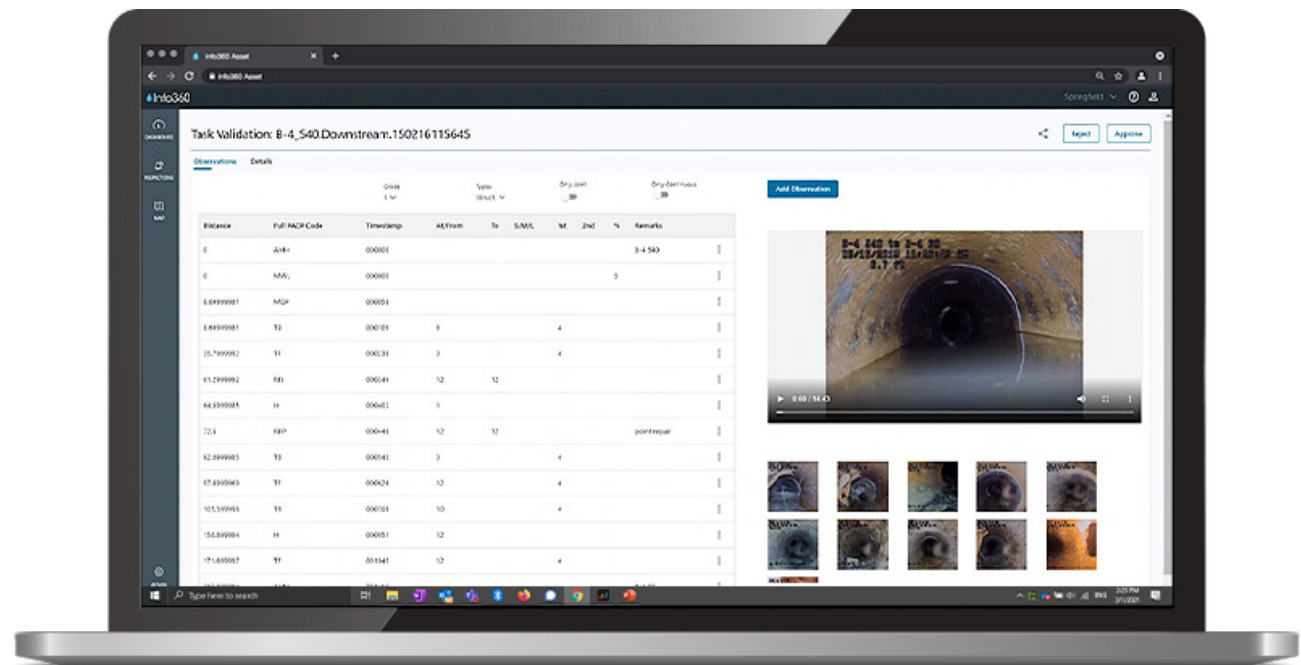
This fit-for-purpose verification includes a validation rules engine to ensure that the inspection complies to the national coding standards. Info360 Asset calculates condition ratings and grades using the relevant scoring algorithm. It also associates inspections to the correct pipes and geo-locates individual observations for displaying on the map.

Features:

- Synchronous integration and interaction between the inspection's observation table, image display, and video replay.
- Ability for inspection reviewers to add, update, or delete observations whilst watching the video.
- Auto-calculated condition ratings based on appropriate national standard.
- Auto-validation of observations based on Info360 Asset and national condition standards rule sets.
- Approved inspections published to asset registry.

Benefits:

- Easy understanding of asset health for any utility stakeholder.
- Reliable and quality-controlled condition and asset data for risk modelling.
- Timely maintenance and repair prioritization due to productive inspection review and defect scoring processes.



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Remaining Life and Risk Assessment

Informing Asset Renewal Decisions

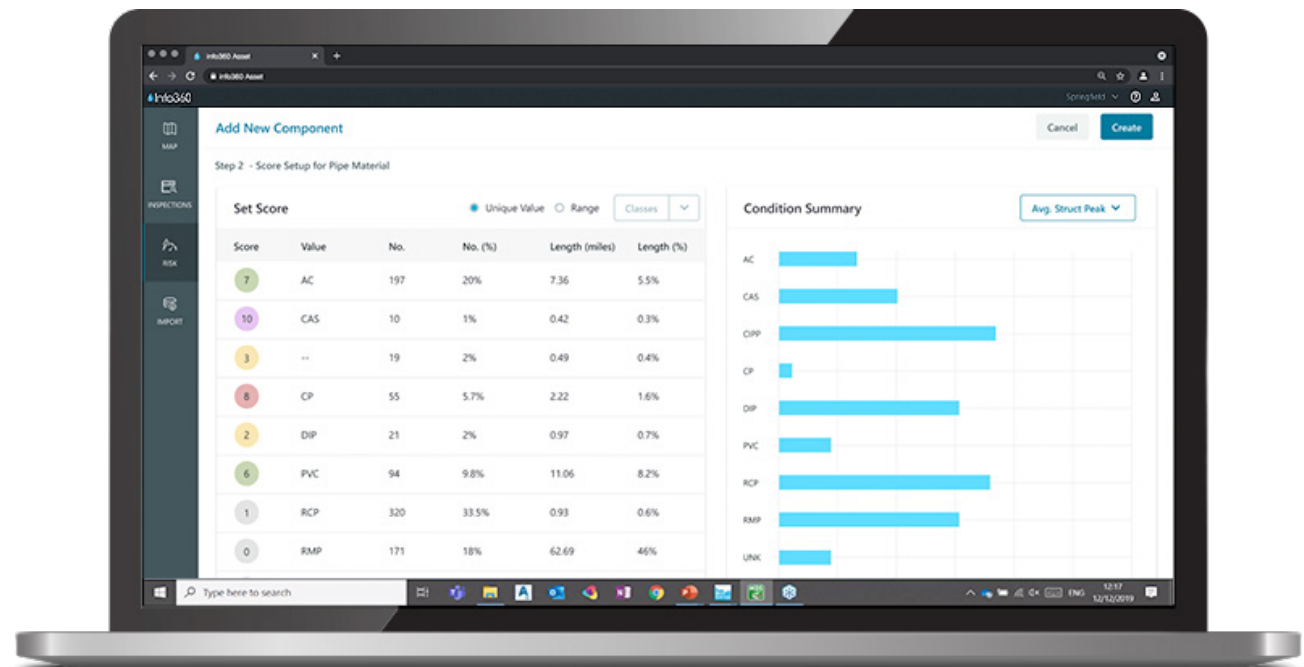
With Info360 Asset condition and risk modelling capabilities, leverage current and historical inspections to accurately evaluate asset condition and performance, assess risk of failure on an asset or cohort basis, and plan new inspections and interventions. Build and apply different risk models to determine the likelihood and consequence of failure, using data and information managed in Info360 Asset and leveraging data from other sources such as GIS layers.

Features:

- Update and monitor current asset condition based on latest inspections.
- Calculate likelihood (LoF) and consequence (CoF) of failure to determine overall risk failure.
- Model multiple LoF and CoF methods using condition, asset, performance, and mapping data.
- Update risk model based on newer condition inspections and incidents.
- Risk reporting including dashboards, graphs, thematic maps.

Benefits:

- Predict the remaining useful life of an asset.
- Accurately analyze risks to predict failure before it occurs.
- Monitor and track risk associated with an individual asset, cohorts, location, and function.
- Justify decisions on cleaning, repair, rehabilitation, and replacement strategies and further inspections.



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Map View of Assets and Inspections

Finding and Managing All Assets

Whether in the office or in the field, visualize and locate asset condition and risk on a map supporting theming and symbology. Regardless of your role or how and where you are accessing the system, you can rely on Info360 Asset as the “single source of truth” for your assets, condition inspections, incidents, and risk calculations.

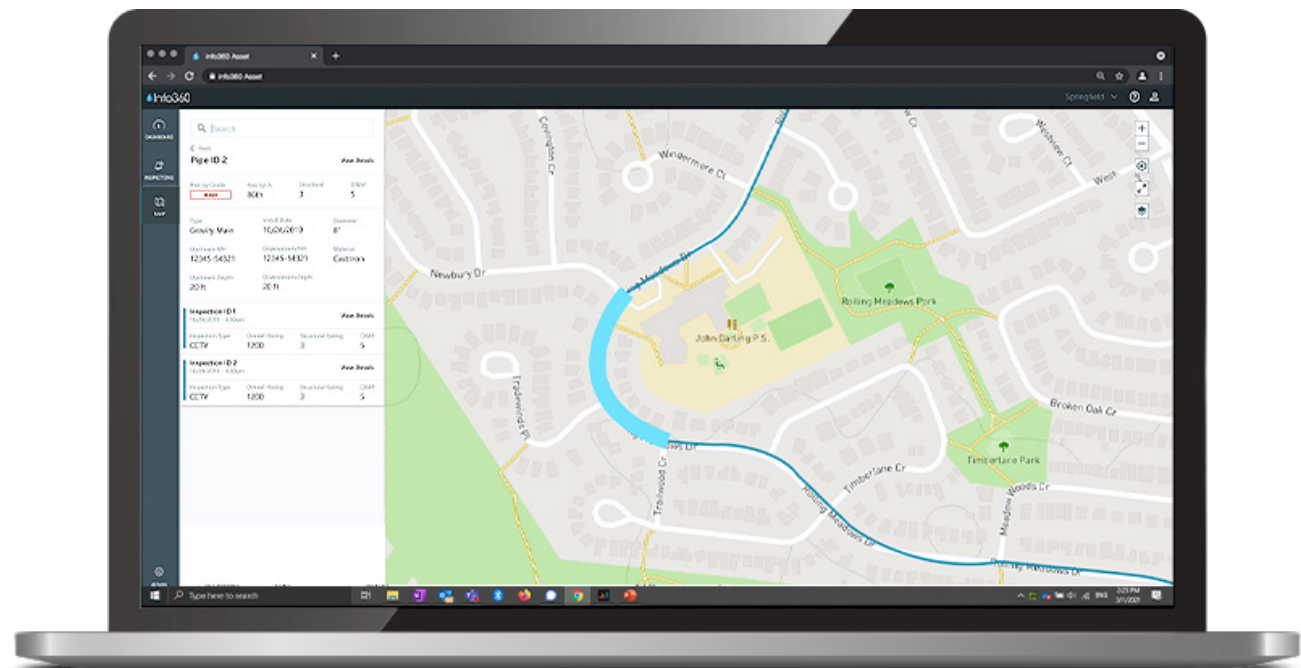
Features:

- Search and locate by asset name or geographically.
- Locate all asset types and distinguish by system type on the map.
- View condition, risk and asset properties while looking at its location on the map.
- Access more detailed asset property details, including associated inspection and media, its connected assets (e.g., upstream and downstream manholes of a pipe), and related failure risks.
- Navigate easily from one asset to another and to associated inspections and risk models.
- Easily share web maps with key stakeholders.

Benefits:

- Easy to use web-based mapping visualization tool for non-technical specialists.
- Democratize asset, condition, and risk data to all stakeholders.
- Understand asset health at an individual asset level up to the entire network.
- Single source and access point to asset, condition, and risk for all stakeholders.

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