integrated high consequence analyst

Regulations for pipeline operators within the Oil and Gas pipeline industry are becoming increasingly rigorous in the fields of **Pipeline Integrity** and **Emergency Response**. The requirements for reporting **High Consequence Areas (HCAs)** has uncovered a need for better tools that assist in the assessment and management of both directly and indirectly affects HCAs.

The aim of the **INTEGRATED HIGH CONSEQUENCE ANALYST** tool is to identify all segments of a pipeline system having the potential to impact an HCA either directly or indirectly.

high consequence area analysis. simplified.

Direct & Indirect HCAs

Directly affected HCAs are those that intersect the pipeline centerline. **Indirectly affected** HCAs are those that are affected by liquid pooling, thermal radiation, or fall within a predefined area (i.e., risk-based distance).

Determining these assets is a relatively straightforward analysis - and one that the pipeline industry has conquered. On the other hand, effectively determining indirectly affected HCAs within an analysis area, while possible to accomplish, does remain a challenge to the pipeline industry.

HCA Analysis Automation

The **INTEGRATED HIGH CONSEQUENCE ANALYST** tool supports the assessment and reporting of both directly and indirectly impacted HCAs within **simple or complex analysis areas**. It allows users to define an analysis area, utilizing a selected offset distance field or more complex predefined polygonal geometry (e.g., pre-determined spill area) that cannot be represented as a single offset value. Point, line, and polygon features are accepted as defined HCAs.

Output is in the form of a PODS compatible database table. The database table contains all necessary HCA analysis results

so that the questions *"What HCAs are potentially affected by this pipeline segment?"* and *"What pipeline segments will potentially impact a particular HCA?"* can be properly reported.
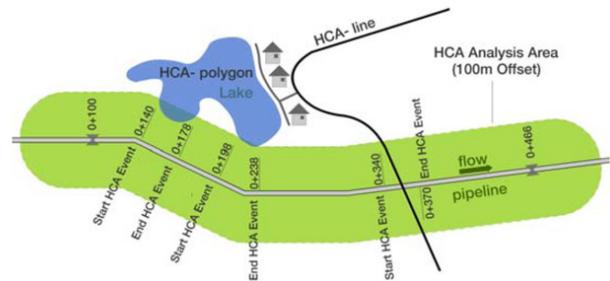
Examples where analysis areas based on an event (e.g., Thermal Radiation) [see above] or a predefined area (i.e., Overland Flow) [see below] have been defined.
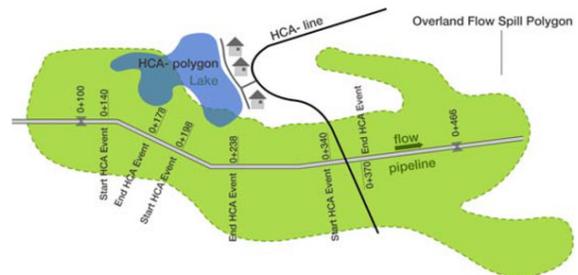
let us help

If your organization is ready to implement the **INTEGRATED HIGH CONSEQUENCE ANALYST** application, contact us to discuss a demonstration, trial, and enterprise licensing.

Questions? Learn more by reaching out to our team at **gis@integrated-informatics.com**.

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