

HUB^{PL}

A Centralized Data Sharing and Collaboration Platform
for Pipeline Engineering Excellence

The Strategic Platform for Oil & Gas Engineering Excellence

What HUB^{PL} Does:

- Improves ROI on software investment
- Improves ROI on pipeline infrastructure

HUB^{PL} Benefits:

- Accelerates project schedules
- Reduces CapEx and OpEx
- Reduces Risk

How HUB^{PL} Does It:

- Increases engineering excellence by allowing your engineers to spend 50-75% more time engineering better outcomes when running automated workflows
- Integrates with your asset database(s) to auto-populate analyses, saving engineers time, reducing simplifying assumptions, and eliminating errors
- Integrates otherwise standalone applications and calculations into one seamless experience by creating a repository of all engineering data and calculations for reuse
- Encourages a collaborative environment that delivers more eyes on the same analysis and reduction in the duplication of effort by allowing users to view cases and calculations made by others, regardless of geography
- Improves consistency and collaboration across the engineering organization, enables more comprehensive peer reviews

HUB^{PL} Integrated Data Environment Apps:

PLTB: Pipeline Toolbox
ACTB: PRCI AC Mitigation Toolbox
ACPT: AC Mitigation PowerTool
APITB: API Inspector's Toolbox
RSTRENG: PRCI RSTRENG
RSTRENG+: The RSTRENG PowerTool
HDDPT: Horizontal Directional Drilling PowerTool
FLUID: Fluid Characterization Simulator
PIPE: Multi-Phase Hydraulics Simulator
X-ING: Workflow Automation for Crossings
HYDRO: Hydrotest PowerTool
MAP: ESRI Maps
DB Import: Asset Database Import/Export
NAV: Asset Hierarchy & Navigation Panel
HTTB: PRCI Hot Tap Toolbox
ENCROACHMENT: Encroachment Manager

PLTB
Pipeline Construction

PLTB
Under Road
Pipeline Crossings

ACTB, ACPT
Powerline Mitigation

PLTB
Anchoring &
Unsupported Spans

PLTB
Wheel Load Analysis
Track Load Analysis

APITB
Plant Equipment
Inspections

PLTB
Pipeline Design

PLTB, HDDPT
Under River Bore Analysis

HUB^{PL}

PLTB
Welding Design
& Inspection

PLTB
Hydrotest

PLTB
Cathodic Protection
Design

PLTB
Blasting Standoff
Design

FLUID, PLTB
Pumps, Compressor, &
Hydraulic Design

PLTB, RSTRENG+
Corrosion & Accidental
Release Assessment

RSTRENG
Underground
Pipeline Repair

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HUB^{PL} Increases Engineering Performance

The Pipeline HUB (HUB^{PL}) from Technical Toolboxes is an Integrated Data Environment for pipeline engineers. It's a broad platform that facilitates engineering productivity. With it, engineers spend more time affecting the bottom line and making sound engineering decisions.

Working with legacy solutions, engineers often spend more than 30% of their time on non-engineering tasks. It results in engineers making simplifying assumptions instead of following the protocols to leverage asset databases effectively. However, with the HUB^{PL}, highly-paid technical professionals spend more time making engineering decisions and less time looking for data, double-checking it, or cutting corners by making simplifying assumptions.

The HUB^{PL} Philosophy is One Platform—One Solution

The Navigator Hierarchy Panel simplifies how engineers respond to audits or prepare for new regulations, like the Mega Rule. It creates an easily searchable analysis history of your assets, which helps your company avoid the costly fines of failed audits.

The HUB^{PL} Integrated Data Environment fosters collaboration and creates a one-stop-shop for engineering and inspection tools that span the pipeline lifecycle. It bridges the divisions between teams caused by incompatible systems, applications, or practices. Teams share data, cases, and calculations efficiently while meeting all IT governance requirements.

HUB^{PL} Accelerates Project Schedules

Automated workflows can save engineers as much as 75% of the time they spend running pipeline calculations and performing analyses. HUB^{PL} workflow automation reduces the time engineers spend running calculations.

One of North America's top engineering consultancy firms recently cited its efficiency and reliability. They found exceptional value in daily operational calculation use-cases. The deciding factor for the company was the wide variety of solutions it put at their fingertips. When faced with design needs that they don't encounter often, their teams would have previously spent one or two weeks searching for solutions. With the Pipeline Toolbox on the HUB^{PL}, they know that they have intuitive solutions built into their daily working tool, which delivers tremendous ROI improvements.

Time-saving HUB^{PL} Applications:

- Navigator Hierarchy Panel
- Ad-hoc Analysis Tool
- Geospatial Analysis Tools
- Workflow and Iteration Engine
- Report Builder

HUB^{PL} Reduces Risk

Unfortunately, simple errors can result in fatalities, as well as hefty fines. Digital transformation reduces risk as it replaces opportunities for error in outdated methodologies. Pipeline Toolbox on the HUB^{PL} integrates with your asset databases to auto-populate analysis inputs. The intuitive, collaborative environment empowers your engineering team to minimize risk and spend more time engineering better outcomes.

- HUB^{PL} reduces the simplifying assumptions that engineers often make under pressure
- HUB^{PL} puts more eyes on each analysis for peer reviews
- HUB^{PL} reduces duplication of effort
- HUB^{PL} decreases data entry typos or manual inputs

based on faulty memories

Do More with Less

In one documented case, a Technical Toolboxes Fortune 100 client found that Pipeline Toolbox gave them an 85% efficiency gain. One engineer took over a workload that had previously required seven, which freed the other six engineers to focus on other value-adding business opportunities.

In another case, a customer's internal study showed it would cost more than \$100,000 per year to build and maintain internal software to do the work of Pipeline Toolbox. Keeping up with the enhancements for automation and collaboration in the latest PLTB version on the HUB^{PL} would drive the cost even higher.

HUB^{PL} lowers upfront costs for new midstream assets by improving design efficiency. Engineering teams accelerate project schedules and adjust to changing field needs during construction more flexibly. For example, a 10% reduction in re-work, troubleshooting, and safety incidents can save millions on a typical new construction project. Thousands of engineers in hundreds of companies use HUB^{PL} for this reason.



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API Inspectors Toolbox
Crossings Workflow
ECDA & Remaining Life
Encroachment Manager
HDD PowerTool
Hydrotest PowerTool
Investigative Dig PowerTool
Pipeline Toolbox
RSTRENG+

About Technical Toolboxes

Technical Toolboxes leads the midstream oil and gas industry with knowledge-based solutions. Our integrated desktop and cloud-based solutions foster engineering productivity and standardization. Professionals around the world look to our industry-recognized instructors for training and development. To improve efficiency, compliance, and productivity, pipeline engineers look to Technical Toolboxes.