# WhereScape 3D

## Automation to fast-track data infrastructure design.

WhereScape 3D seamlessly brings automation to the modeling and design of data warehouses. By automating the tedious and time-intensive tasks of discovery, profiling, architecture, and testing, WhereScape 3D enables organizations to design their data warehouses in a fraction of the time. No more planning. No more coding. No more errors. No more debugging. No more worries.

## FEATURES/3D ADVANTAGE

▶ **Automated Data Model Blueprints:** Generates graphical interface visual models and templates for designing state-of-the-art data warehouses.

▶ **Prototyping Automation:** Automatically builds, tests, and revises data models using real or sample data, speeding up iterative improvements.

▶ **Development and Delivery Fast Tracking:** Integrates with WhereScape RED for accelerated development, delivery, and operations.

▶ **ELT Processing Logic Automation:** Instantly generates ELT processing logic based on source and target models.

▶ **Source System Data Catalog:** Automatically discovers, profiles, and documents data sources, enabling quick identification of data value, gaps, and risks.

▶ **Documentation Creation and Maintenance:** Auto-generates and updates documentation, ensuring accuracy and comprehensiveness.

▶ **Change Impact Assessment:** Swiftly evaluates the impact of source system or data infrastructure schema changes, aiding in decision-making.

▶ **Integrated Planning Automation Toolset:** Offers centralized planning automation in a unified environment, eliminating the need for separate tools.

▶ **Source Data Profiling:** Conducts comprehensive profiling of source data from systems, such as Azure Synapse, Databricks, Google Big Query, and Hadoop, ensuring efficient structure and data comparison.months/years.

## RESULTS

Reduces time to production by

# 80%

Process ingested data faster with hand-coding by

# 12x

Eliminate coding mistakes and debugging by

# 99%

## KEY BENEFITS

▶ Automates routine tasks, enabling IT teams to deliver trustworthy analytics to the business faster and at a lower cost.

▶ Turns concepts into prototypes rapidly, gaining business-user approval before development begins.

▶ Automatically creates and updates documentation, providing complete visibility of data and facilitating governance.

▶ Reduce risk by reality-testing designs to business needs and technical capabilities.

▶ Generates ELT processing logic instantly based on source and target models, expediting development processes.

▶ Share automatically generated ELT processing logic and ELT designs with WhereScape® RED to jumpstart development and delivery.

## OPTIMIZED FOR DATA VAULT

There are different models available when constructing a data warehouse, but when facing a large, complex dataset that will require flexibility and deep analyses, the Data Vault model is the premier option. However the architecture of a Data Vault can be complicated, error-prone, and often requires a steep learning curve. That's where WhereScape 3D comes in! WhereScape 3D provides automation, templates, and visualization tools for the creation of Data Vaults.

> *"The WhereScape RED and 3D solution lets the Abano team create a report that shows ROI on marketing in 15 minutes — which was impossible before the WhereScape Data Warehouse was created.*"
>
> **Abano Healthcare**

## Use Case
## Data Architecture

**Scenario**
Offering a single tool for designing, developing, deploying, operating, and maintaining a data warehouse.

**Use Case**
By creating a full data warehouse with WhereScape and combining data from multiple ERP systems, the creation of reporting data became much simpler and faster.

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**USE CASE SPOTLIGHT**
## Implementing or Migrating a Data Warehouse?

Data architecture is a vital component of implementing a data warehouse.

**Why?**

Because any construction project, whether physical or technical, requires a blueprint. Creating a data warehouse is very much a construction project. The purpose of the data warehouse is to utilize data for analyses and making key business intelligence decisions.

This comes with serious planning.

WhereScape 3D serves as the architect for all that planning. Instead of attempting to design a data warehouse from scratch, 3D offers a cutting-edge visual blueprint, allowing users to conceptualize and develop their data-related goals into a fully evolved physical, automated database.

Save months of pre-planning.

**CASE STUDY SPOTLIGHT**

**TENCATE** protectivefabrics

Tencate Protective Fabrics, a global manufacturer, optimized their data operations using WhereScape's 3D design solution. By integrating disparate ERP systems into a unified data warehouse, they enhanced reporting efficiency and reliability, gaining valuable business insights while maintaining flexibility tailored to their needs.

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### KEY CAPABILITIES

**System Design**

▶ **Automates blueprints:** Turn data concepts into actual designs with intuitive graphical interface visual models and templates.

▶ **Turns concepts into prototypes:** Build, test, and revise data models automaticallyusing real or sample data to test and iterate your design.

▶ **Automatically builds data models:** Collaborate with users early in the project and automatically create designs using normalized star schema, or data vault best practices.

▶ **Tests target schemas:** Design and test target schemas using real data and gain business-user approval before development begins.
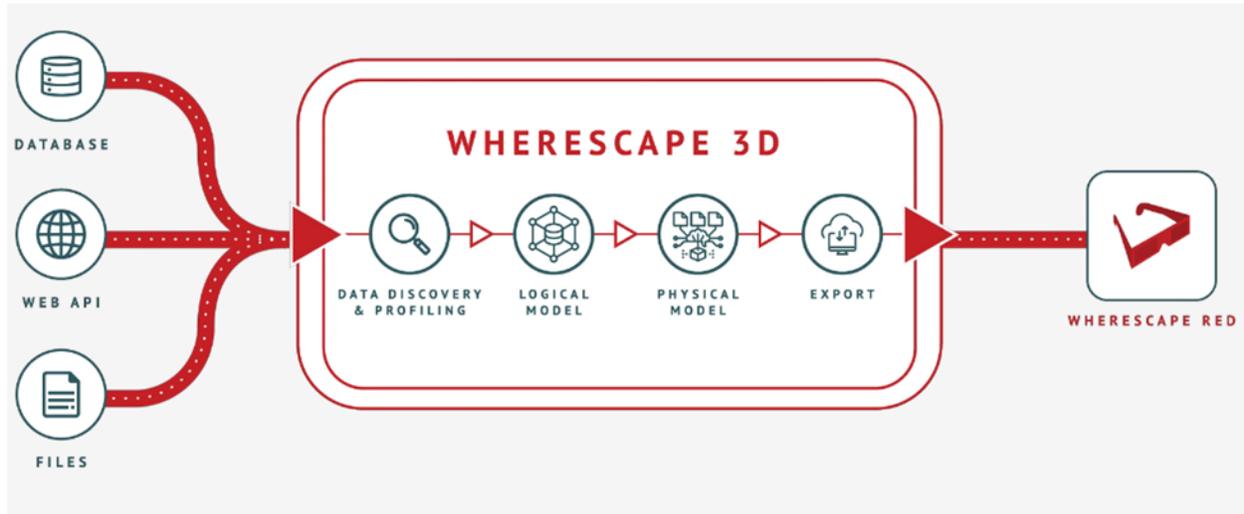
**Workflow Automation**

▶ **Dependency Management:** Manages dependencies between tasks and processes, optimizing the execution sequence.

▶ **Delivers insight into data:** Automatically discover, explore, profile, and document new data sources, or existing data warehouses. Quickly identify data value, gaps, and risks.

▶ **Automates ELT processing logic:** Instantly generate ELT processing logic based on source and target models.

▶ **Creates and maintains documentation:** Auto-generate and update documentation as you make changes to ensure completeness for governance, funding, and internal communications.

**Integration and Compatibility**

▶ **Fast-track development and delivery:** Integrates with WhereScape RED to automate and speed up development, delivery, and operations.

▶ **Assesses the impact of change:** Quickly understand the impact of source system or data infrastructure schema changes on existing data infrastructure.

▶ **Cross-Platform Compatibility:** Supports leading data platforms such as Snowflake, Databricks, Redshift, Azure SQL and more.

▶ **Collaborative Environment:** Facilitates collaboration among development teams, data engineers, and other stakeholders.

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**WhereScape 3D reduces time to production by**

# 80%

## SUPPORTED PLATFORMS

WhereScape adapts to your data environment with seamless automation, whether you stay with your current platform or switch to a new one.



## Take the Next Step with WhereScape 3D

Transform your data infrastructure today with WhereScape Designing a new data warehouse? Migrating an existing data warehouse? Don't go in blind. Eliminate the time, effort, coding errors and debugging that comes with designing it from scratch. WhereScape's 3D design tool provides everything you'll need.

**Connect with us at wherescape.com or email us at sales@wherescape.com.**

## About WhereScape

About WhereScape. WhereScape helps IT organizations leverage automation to design, develop, deploy, and operate data infrastructure faster. More than 1,200 customers worldwide rely on WhereScape automation to eliminate hand-coding and other repetitive, time intensive tasks to deliver datawarehouses, vaults, lakes and marts in days or weeks rather than in months or years. WhereScape has global operations in the USA, UK, Singapore and New Zealand.