

CASE STUDY
ENGINEERING SERVICES

Faster CAPEX Delivery: From Scan to Sign-off

How Élémentaire Consultants designs directly inside 3D facilities with Prevu3D — cutting site visits, improving accuracy, and eliminating costly rework.

Scan to Sign-off: How Élémentaire Compresses the CAPEX Engineering Cycle

How a shared, as-built digital twin became the single reference for design, coordination, and client approval.

Élémentaire Consultants specializes in the execution and optimization of industrial CAPEX projects — from site assessment and 3D scanning to design, coordination, and implementation — for leading food & beverage and industrial manufacturers.

The Challenge

CAPEX projects in active facilities are inherently demanding. Before Prevu3D, the team faced familiar friction points:

- ✧ Incomplete or outdated site documentation
- ✧ Information scattered across tools and formats
- ✧ Costly site visits to validate conditions
- ✧ Rework when as-built didn't match assumptions

In food & beverage and pharmaceuticals, where downtime is expensive and compliance is non-negotiable, these risks carry real consequences.

PARTNER

Élémentaire
Consultants

PROJECT

CAPEX design in
active facilities

SCOPE

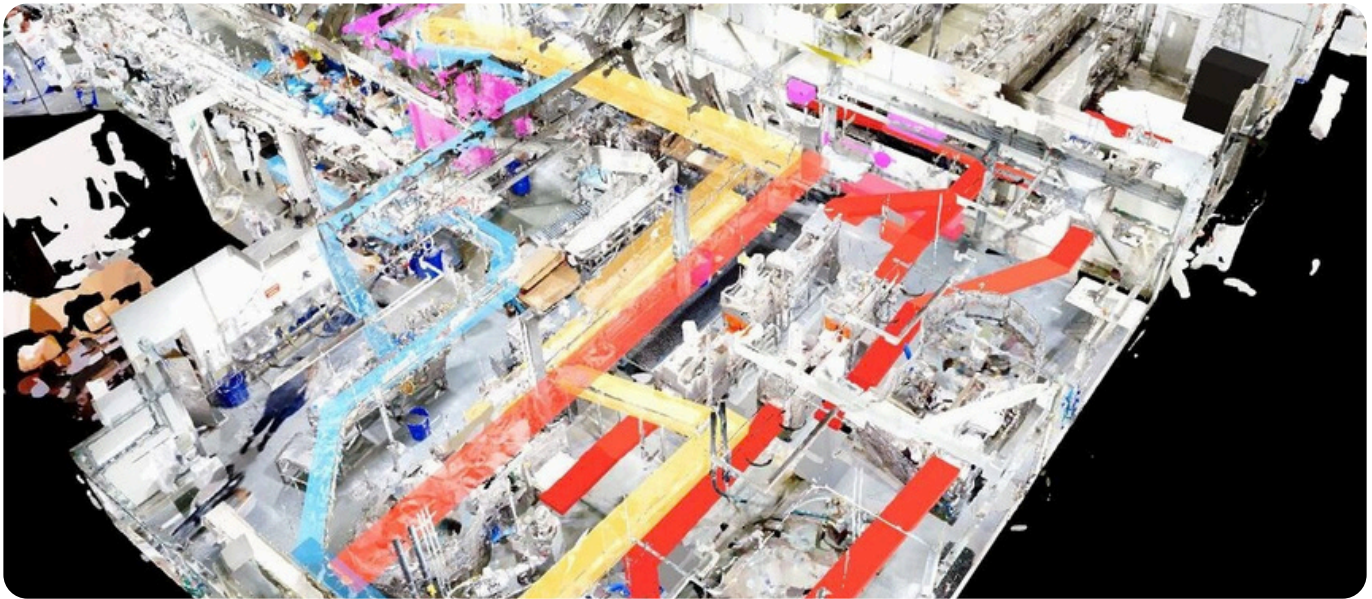
3D scanning, design,
clash detection

INDUSTRY

Engineering Services

Where Prevu3D Made the Difference

The team scans existing facilities, uploads the data to Prevu3D, and plans new equipment and conveyance routes directly inside the as-built environment — so engineers and clients see how new infrastructure interacts with existing systems before anything is ordered.



Proposed layout on an active food processing facility: conveyor routing, process lines, and utility runs inside the as-built digital twin.

Why Élémentaire chose Prevu3D

- ✓ Easy navigation for technical and non-technical users
- ✓ Precise measurement and design in the platform
- ✓ Simple sharing with clients and partners
- ✓ Minimal learning curve and onboarding time

“Prevu3D has become a central tool in our workflows. It allows our team to validate designs, take precise measurements, and plan interventions directly within a digital replica of the facility.”

Malik Sammouda, Eng., President

The Outcome

Engineers, project managers, operations teams, and clients now navigate the same live environment — shortening review cycles and resolving misunderstandings before they become change orders.

- ✓ Fewer site visits through remote validation
- ✓ Faster validation cycles in a shared environment
- ✓ Better accuracy from verified as-built data
- ✓ Fewer on-site adjustments during execution

DELIVERED FOR

Labatt

Sleeman

Olymel

PACCAR

Clashes identified early, spatial planning optimized, and equipment integration validated inside existing facilities.

“By allowing clients to easily visualize their facilities and proposed changes, Prevu3D has improved transparency and trust throughout the project. It's opened opportunities for more proactive planning and innovation that simply weren't possible before.”

Malik Sammouda, Eng.
President, Élémentaire Consultants

About Élémentaire Consultants

Élémentaire Consultants is an engineering firm specializing in the execution and optimization of industrial CAPEX projects, supporting clients across the full lifecycle — from site assessment and 3D scanning to design, coordination, and implementation. Its mission is to deliver efficient, high-quality engineering by leveraging advanced technologies and collaborative workflows.

Prevu3D solutions adopted

RealityPlatform™

Secure, cloud-based reality capture management — transforming point clouds into digital twins for faster, more accurate project delivery.

RealityConnect™ for Revit

Connects reality capture directly to Revit — model faster and validate existing conditions without the performance hit of heavy point clouds.



ABOUT PREVU3D

Prevu3D is the operational as-built platform for industrial teams — turning reality capture into a connected 3D environment that engineering, operations, and compliance teams can act on from anywhere. Built around three pillars of Capture, Manage, and Connect, the RealityPlatform™ transforms scan data from any source into a navigable spatial environment that connects directly to CAD, BIM, ERP, PLM, and IoT systems via RealityConnect™.

Book a meeting with our experts >

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