



From big idea to global business in 6 years.

How Volta Trucks are revolutionizing our cities and the logistics industry

The Swedish Startup, Volta trucks, was born out of a desire to stop unnecessary deaths caused by commercial vehicles. But the danger they are attempting to prevent is not from the risk of collision, instead it's the effect of fumes and particulates that cause enormous damage to the health of human beings around the world.

Background

Founded in 2019, Volta Trucks is developing electric trucks to make cities greener, healthier and more sustainable.

Although the company is less than 4 years old, it already has 700 employees and has a working prototype of its flagship vehicle, Volta Zero, on the streets of London.

This rapid growth may seem surprising to many that have been in the automotive industry for a long time, but is in line with the vision set out by the company: ***To be the leader in zero emission transport, reducing the effects of global warming and making our cities safer, healthier and more pleasant for all.***

To make sure that their audacious timeline targets would be met, they needed to ensure that they working with modern tools and processes that could shave years off traditional development timelines.

After being troubled by the limitations of traditional requirements platforms like Jama, Volta's chief engineers began exploring the marketplace and comparing software solutions.

They wanted a requirements management platform that would allow them to do verification and validation, certification, and live collaboration between their engineers. They also wanted to take a more modular approach to their engineering design as they looked to the future and thought about progressive versions of their trucks.

Eventually, they opted to use Valispace and were impressed by the platform's ability to have alternative containers for components to compare cost and mass.

Today, there are over 300 internal and external users on the Volta Trucks project in Valispace.



I made it a point that I wasn't going to use standard kind of non engineering tools.

The business as a whole should look at tools that we can use from the beginning and adopt the right across our ecosystem.

Ben Anstey

Director of Electrical Systems

VOLTA TRUCKS

Mission update

- March 2023 - Volta trucks secured European Whole Vehicle Type Approval for the all-electric Volta Zero
- Jan 2023 - Volta Trucks announces first production orders of over 300 vehicles. More than €85 million of associated revenue

What Volta Truck's engineers do in VALISPACE

Seamless Engineering Design Process

Volta's engineers had to ensure technical data, internal or external, was up to date and easy to deliver across functions.

They chose Valispace as it allows engineers to design products with ease by ensuring that technical data and engineering documentation are always up to date and easy to access. The Valispace engine automatically recalculates all affected design parameters and requirements' fulfillment, ensuring that engineers save time and minimize the risk of errors.

By streamlining the engineering design process, Valispace helps their engineers focus on the more important aspects of their work.



Reliable Data Management

Valispace simplifies the process of accessing and exporting data, providing users with a quick and easy way to format and deliver internal and external data to the intended audience.

This feature saves time on manual data collection and export, increasing overall efficiency and allows their engineers to focus on the more important aspects of the engineering process.



Integrated Tool Chain

Via the scripting module, users can further customise their workflow to automatically run Python or Matlab scripts. This allows for technical sizing activities to be performed quickly and accurately, enabling users to map requirements and identify gaps in the design.

By utilizing these automated connections, Volta Truck's users save time and reduce the risk of human error.

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Iterative design for the most complex product development in VALISPACE

- ✓ **Automatic data propagation for consistent design:** Prevent manual document updating and ensure traceability throughout your project. Understand who did made what change, when and why.
- ✓ **Continuous verification from design-to-spec:** Trace how product specifications and the system design relate. Ensure the system designed is aligned with requirements by setting up automatic verifications. Reduce the risk of rework and verify faster.
- ✓ **Engineering data insights for better and faster decisions:** Visualise the connections between data and gain better insights. Easily understand the impact between different parts of the design and make informed decisions based on data.

Valispace empowers engineers and all involved parties to collaborate on all non-CAD engineering data. Valispace brings together disconnected data across platforms and documents into one place and enables the automation of data engineering flows related to requirements management, design calculations and iterations, test management, all the way to automatic verification.