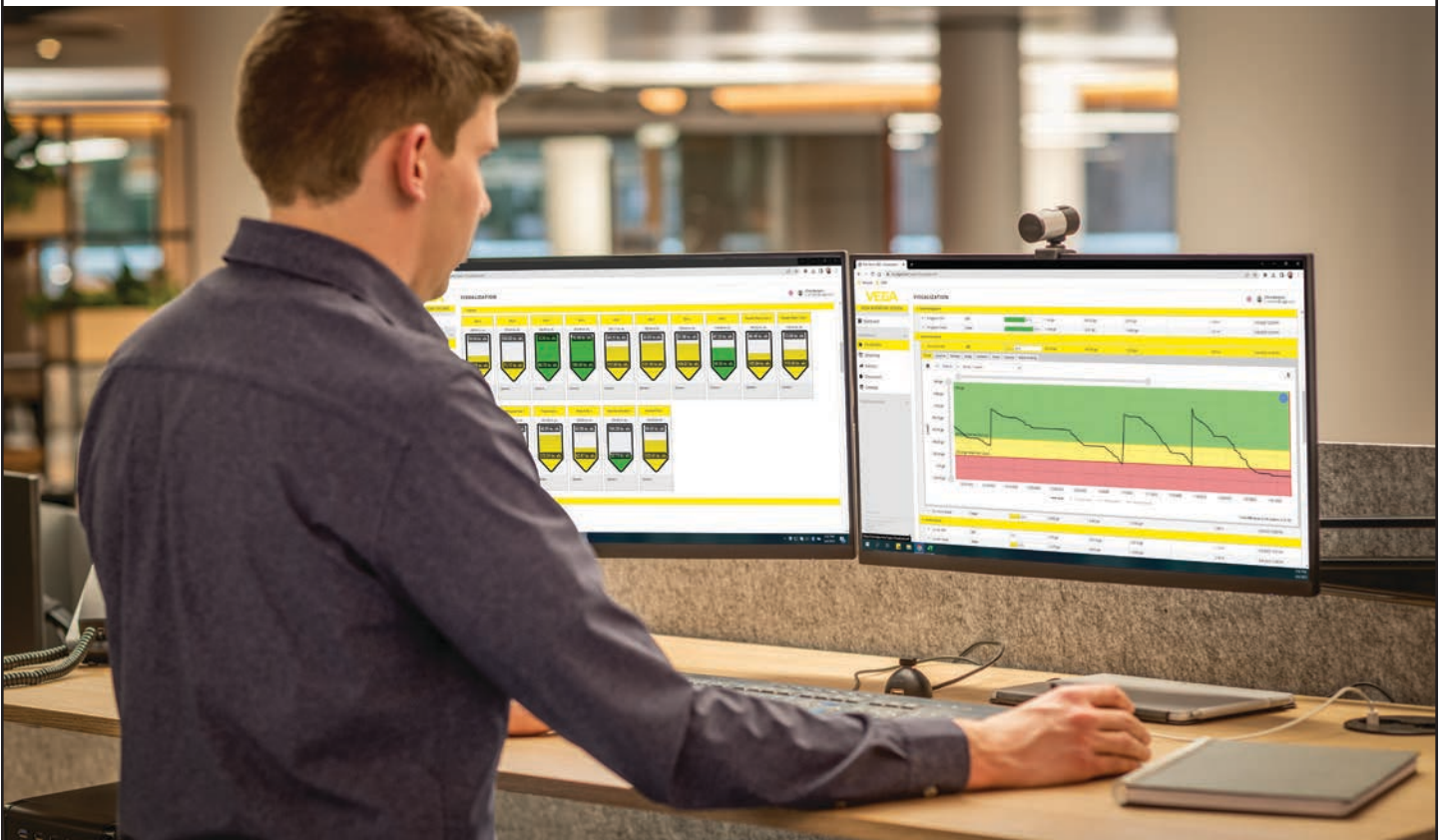


VEGA Inventory System

Better managed inventory at any given moment

Quality information can empower a company to make strategic decisions that drive profit, create competitive advantages, and help grow their business. Unfortunately, lack of quality information is all too common for many businesses, and it can have significant consequences. VEGA understands this challenge and has developed a solution that provides high-quality inventory information so that dispatchers, inventory managers, accounting, and operations personnel can make smarter, more strategic decisions.



Meet VEGA Inventory System

■ Elimination of inventory events:

No more overfilling and stockouts. With VEGA Inventory System (VIS), businesses can manage their inventory proactively.

■ Streamlined logistics:

Better understanding and expansion of the delivery window creates greater flexibility in the delivery schedule, offering more opportunities for optimization and improving last-minute response readiness.

■ Reduced inventory discrepancies:

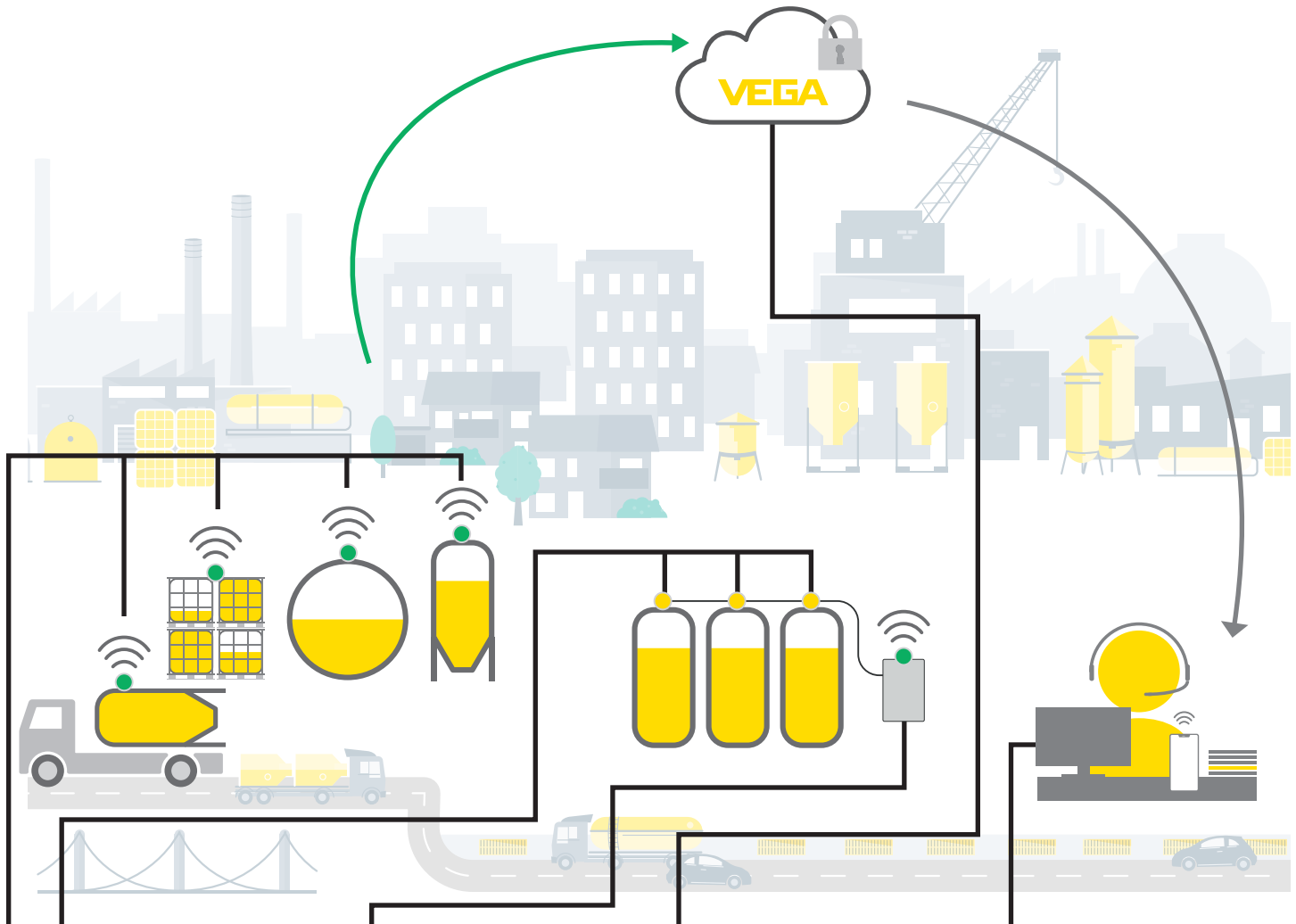
Precise, real-time, physical inventory visualization enables faster identification of discrepancies – thereby minimizing financial implications and enabling quicker discovery of the cause.

■ Improved safety:

No need to climb tanks and silos to perform physical inventory checks, thereby reducing the risk of falls, burns, and chemical exposures.

The VEGA Inventory System solution

VIS is a software platform that enables users to monitor their inventory in real time from any web-enabled device with internet access. It is a paired solution of a cloud-based software with VEGA's robust instrumentation for the measurement of liquids and bulk solids levels in vessels.



■ Measurement

VEGA sensors provide precise and reliable measurement of the position of material in a silo, vessel, or other container, and reports the data to a connected gateway for transmission to the VIS portal.

■ Transmission

VEGA gateways collect measurement data from connected sensors and transmit the data to the VIS portal at defined, regular intervals via cellular communication.

■ Hosting

Measurement and inventory data received from VEGA gateways or autarkic sensors are stored on the VEGA-hosted VIS server. All data is end-to-end encrypted and the hosted service is certified to ISO/IEC 27001 for information security.

■ Visualization

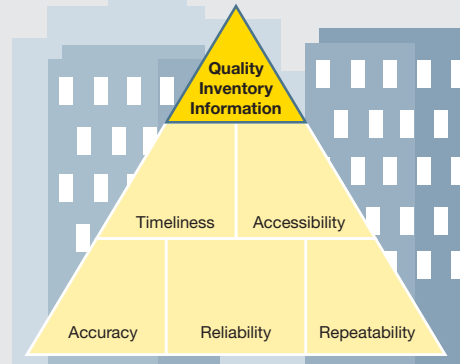
Authorized users can access measurement and inventory data remotely via the VIS website or the VIS app on any web-enabled device.

Autarkic measurement and transmission

For remote or mobile applications where power or connectivity is impractical, the VEGAPULS Air series combines precise measurement, a battery power supply, and cellular communication to the VIS portal in a stand-alone device that can be easily deployed in the field.

High quality inventory information

The attributes of reliability, repeatability, accessibility, accuracy, and timeliness are the foundation of high-quality inventory information. High-quality information creates confidence in the minds of decision makers, enabling them to make smarter, more strategic choices regarding how to optimally manage inventory.



Information at a glance

VIS is a web-based portal to display real-time, physical inventory information. The portal provides a number of tools to make the inventory data more actionable. Four different real-time views of the inventory data are available in VIS, all delivering easy-to-read information at a glance:

■ Table view:

Displays real-time inventory position, i.e. on hand, free space, usable vessel capacity, and timestamp. Daily consumption and coverage can also be determined and displayed for many liquid applications.



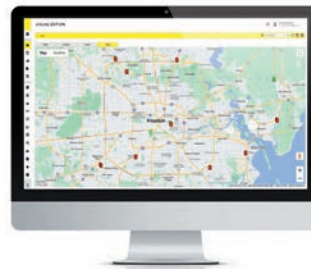
■ Graphic view:

Inventory data at a glance. Representation of inventory position showing alert thresholds and color-coding of inventory status such as reorder or safety stock



■ Map view:

Geographic layout of monitored plants and associated storage vessels with color-coded inventory status



■ Trend View:

Historical and current data presented in a trend chart



VEGA measurement



AIR

AIR series radar level sensors are purpose built for use with VIS. They are fully autarkic sensors; that is, they feature internal battery power, radar measurement, and telemetry in one self-contained device. This is crucial for many logistics applications in which line power is not an option. VEGAPULS Air sensors are wireless, inexpensive, flexible, and reliable. These features provide countless opportunities for logistics and inventory optimization when used with VIS.



BASIC

BASIC series radar level sensors work great with VIS. Basic products are wired devices that are powered by a connected gateway which collects the inventory data and transmits it to the VIS. Desirable in applications where line power is available, frequent readings are desired. These features provide countless opportunities for logistics and inventory optimization when used with VIS.



PRO

PRO series radar level sensors are for the most demanding application and work great with VIS. PRO products are wired devices that are powered by a connected gateway which collects the inventory data and transmits it to the VIS. Desirable in applications where line power is available, frequent readings are desired, and difficult process conditions exist. These features provide countless opportunities for logistics and inventory optimization when used with VIS.