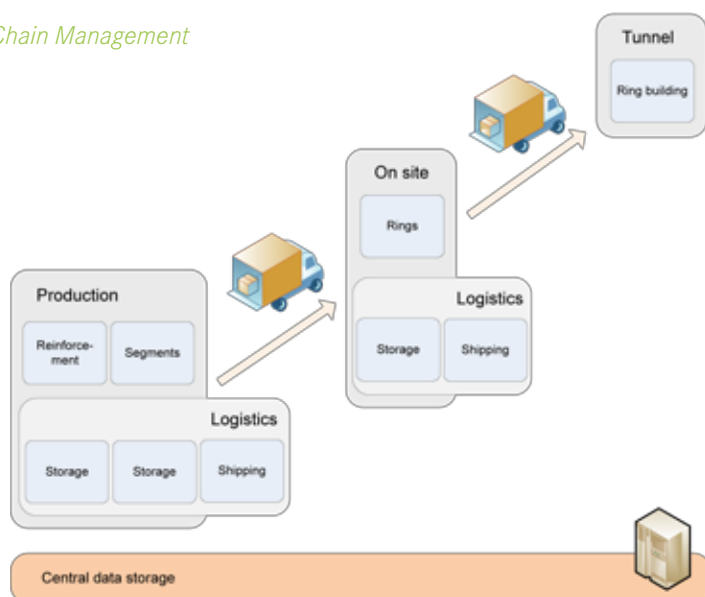# MANAGE
Information

In tunnelling projects worldwide, hundreds of segments are installed every day to create small or large tunnel tubes. Besides smooth segment production flow, data collection during production is getting more and more important. To address this problem, VMT GmbH has developed a modular management system for collecting production data. The Segment Documentation System, short SDS.

Segment Documentation System

The SDS is used for producing and installing segments and other ready-mixed concrete parts on site. All production methods, industrial goods, and production tools are identified and effectively documented using barcode labels or RFID tags. The SDS can use a production forecast to minimize the necessary storage capacities and thus enables the user to reduce storage and labour costs.

Supply Chain Management

From all manufacturing steps, consistent logging can be done for quality assurance purposes. Thanks to automatic reporting and statistics capabilities, the user gets an overview over the entire manufacturing process and can track deadlines and technical specifications. Similarly, SDS provides long-term archiving and document management . If required, production control can be accessed at any time to make modifications.

Segment Documentation System SDS

The Module SDS.Production collects all important process data that directly result from producing a segment. Thus the entire production process is consistently documented. The Module SDS.Site combines and enhances the previously recorded data by key figures from transporting and inventory management on site.

The supporting processes are Reinforcement Production, Prepare the Mould, Moulding, Concreting, Demoulding and Placing/Removing into/from storage. Each manual operation and each process step is gathered by the system using sensors. Furthermore, the database records storage times and locations of the segments and their transportation routes up to their installation in the tunnel.

Based on our SDS standard solution, customized services are offered as options: Engineering, Implementation of customer requirements, Assembly / Installation as well as Support.

Features

- Collecting production and operating data, material movements, and settling times
- Factory View: quality documentation, verification management, reporting, key figures, and statistics
- Data archiving
- SDS is a client server system. Depending on customer requirements, various clients may be used

Advantage

- Product planning and optimization of storage capacity
- Project controlling and process optimization through actual key figures
- Optimization of staff assignment
- Quality Control through all over documentation of all manufacturing steps
- Local Information on call through mobile terminals
- Data flow through the hole process, from the production up to the installation in the tunnel

Options

- Concrete Supplier: Data transfer of all raw material data and mixture data
- Circulation System: Automatic data acquisition and allocation of concrete data (concreted mould...)
- TUnIS Ring Sequencing: Planning and requirement specifications for the optimized segment production
- IRIS.tunnel: Connection of the SDS data with the tunnelling data
- CSV-Data Import and Export

VMT GmbH | Stegwiesenstraße 24 | 76646 Bruchsal | Germany

t +49 7251 9699 0 | www.vmt-gmbh.de

VMT