

For every  
drive the right  
**set-up**

# MSS

## Microtunneling Support System

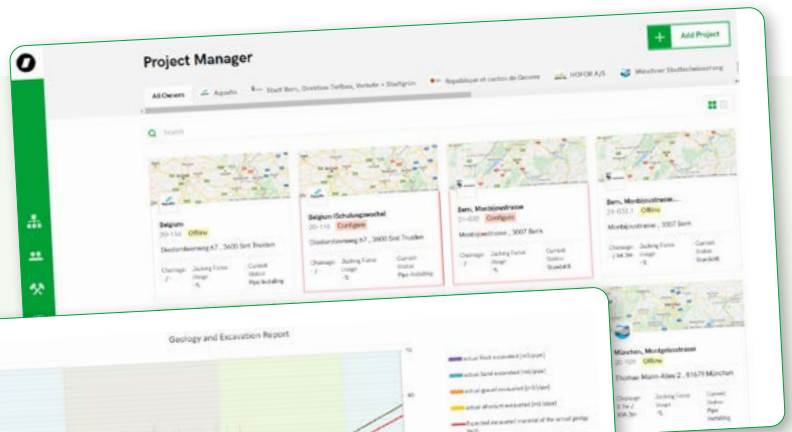
Easy Displaying Complex Matters

- Data management
- Internet in the tunnel
- Online site access via cloud
- Maximal quality assurance
- Real-time visualization of tunneling process
- Process optimization and -documentation

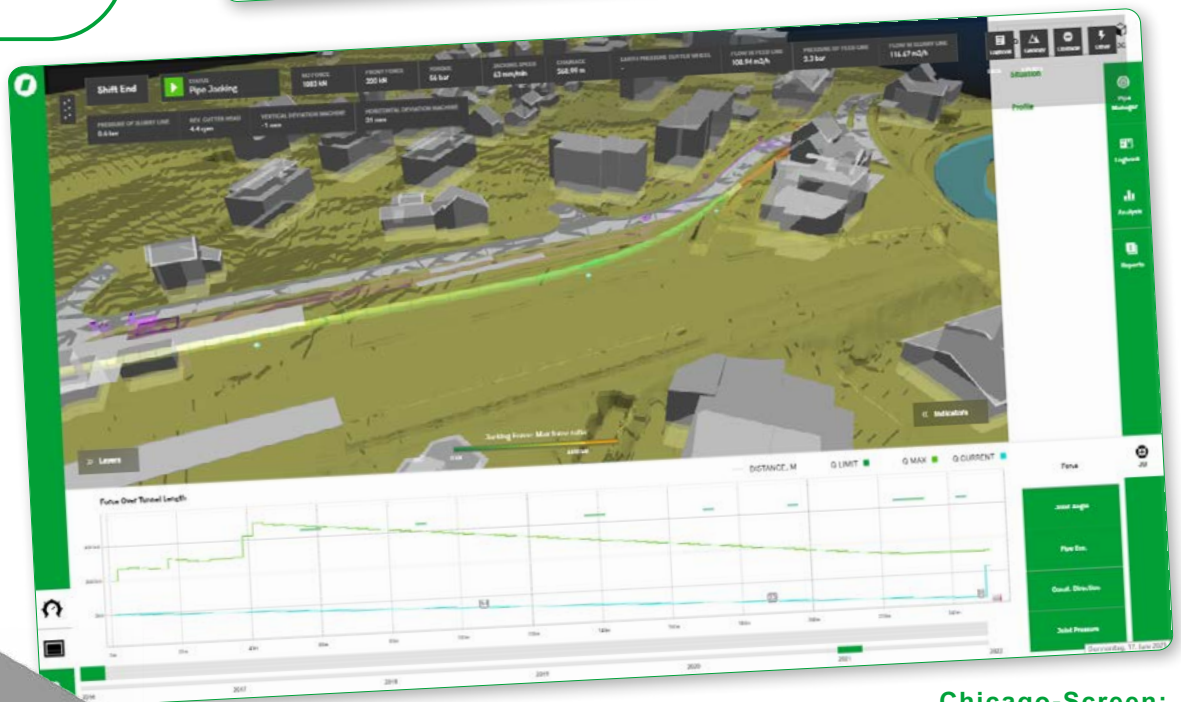
# MSS Microtunneling Support System

Easy Displaying Complex Matters

OFFICE

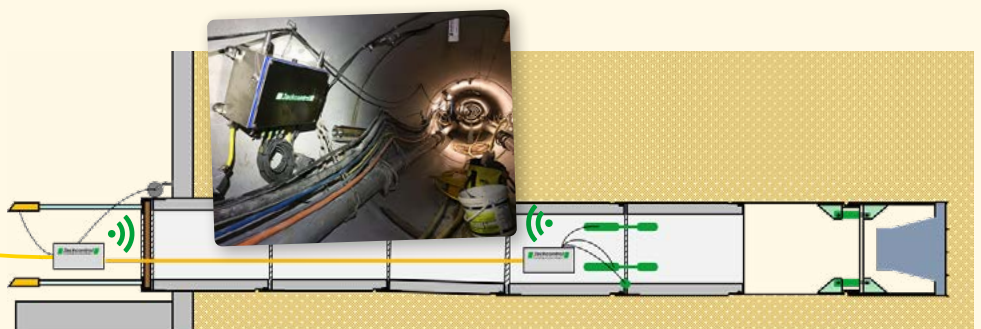


JOBSITE



Chicago-Screen:  
Designed for the TBM-operator

MT.connect



## PROJECT MANAGER

- Entry portal to MSS software
- Project overview
- Project set-up and configuration
- Live Project support from office-PC
- Data management

**Office-Screen:**

**Designed for office workspace**



## BASIC PACKAGE

- incl. MT.connect hardware and site computer
- Database/-manager with permission system to control data access for third parties
- Open data interface for all data on site
- 3D Project visualization
- Pipe Manager: Pipe sequence plan continuously updated and pipe logistics support
- Report Manager: digital shift-, day-, week- and pipe reports in company CI
- Analysis tool for all numerical data

## Option JCPipe

- Structural analysis and design for pipes incl. documents quality assurance
- Monitoring of structural integrity of pipes during jacking process
- Automatic warning

## Option Navigation

- Processing and visualization navigation data
- Compatibility with TUNiS from VMT

## Option 3D/BIM

- Real-3D visualization tunnelling and environment in real time
- Documentation of pipes BIM compatible

## Option JackDirector

- Analysis of correlation between TBM steering angle and pipe joint angle
- prevents excessive steering movements

## Option Hydraulic joint

- Pressure transmission ring for curved drives and for long, difficult drives

## Option EDAR (Pressure transfer ring)

- Elastomeric pressure transmission ring, inner joint seal

## TUNNEL HARDWARE

- interconnectible between VMT and Jackcontrol hardware, all sensors/boxes wired by one and the same tunnel cable
- Internet data transfer
- Internet in tunnel for third parties (LAN & WLAN)
- Hybrid cable for power and data transmission
- Joblight: tunnel basic lighting optional simple and fast plug-in connection
- robust and suitable for tunneling

MT.connect by



## Application range

For each drive (incl. DirectPipe)

### POSSIBLE TRANSMISSION RING

- Wooden Packer
- Hydraulic joint
- EDAR
- direct (e.g. FRP-pipes)
- ... and all combinations of these

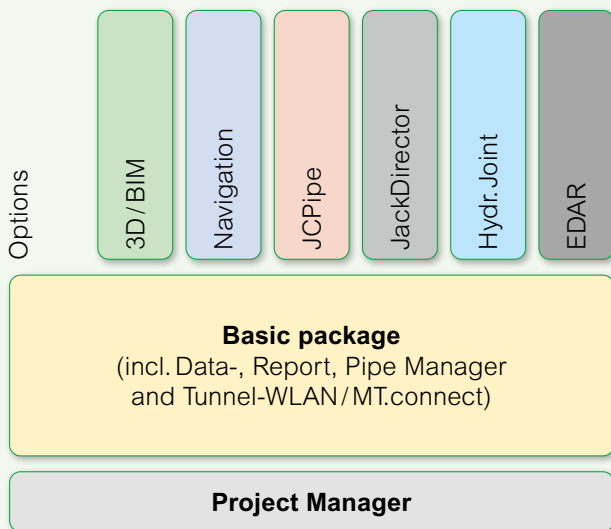
### POSSIBLE PIPE TYPE

- Reinforced concrete
- Polymere concrete
- FRP/GRP
- Composite-pipes
- ... and all combinations of these

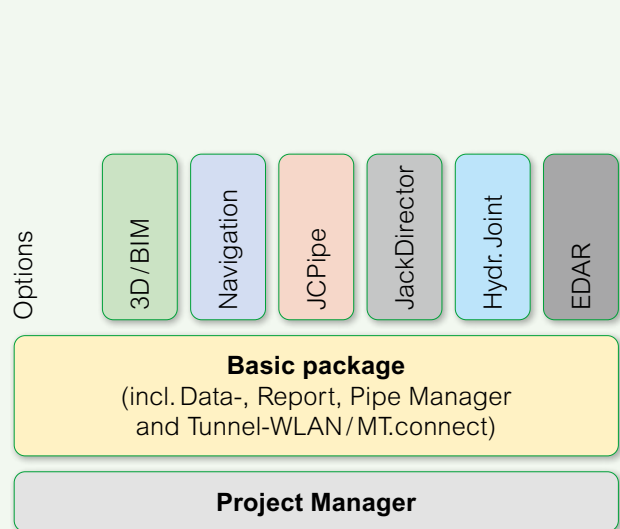
## The company solution

- systematic application of MSS in the Tunneling Company
- Hardware incl. MT.connect
- Owned by the Tunneling Company
- Documents in corporate CI and company logo on surfaces
- Implementation of company-specific solutions (e.g. Interface/integration lubrication system)
- cost advantage by systematic application

### STAND-ALONE-APPLICATION



### COMPANY SOLUTION



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