Tunnelkom

We are digitalizing Your Construction Site

Welcome!
欢迎!

1. Our Team

Peter Schmidt   **(CEO)**

Jens Moll   **(CEO)**

Andreas Ratzke   **(Project Manager)**

Sven Moll   **(Head of Production)**

Jörg Keul   **(IT-Support)**

Monika Goll   **(Team Assistance)**

Corinna Schöllkopf   **(Production Assistance)**

Company Presentation
Tunnelkom GmbH

2. Our Location

Kuhnbergstraße 23
D-73037 Goeppingen / Voralb
Germany
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Company Presentation
Tunnelkom GmbH

3. Our Portfolio
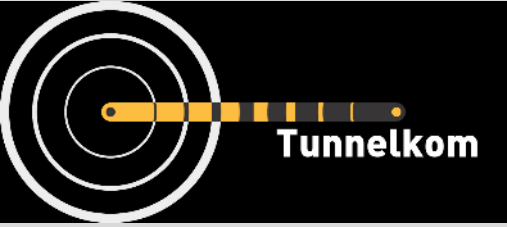
Tunnel Communication and Safety Technology

- Design of a customized Communication- and Safety Concept for the Construction Stage

- Support for the Creation of Your Tunnel Safety Concept, IT Security Plan etc.

- Sales and Installation of the entire Tunnel Communication Equipment
    - 70cm Radio, 2/4m Radio, Tetra Radio, Analog Radio, GSM, WIFI, Fixed Phones etc.

- Saless and Installation of the Safety Equipment
    - Tracking and Locating of People, Vehicles etc., Alerting (Sirens, Flashing Lights), Fire Detection, Air Flow Control etc.

- Customized Plant Control
    - Gates and Barriers, Fire Stops, Pumps and Ventilation Control etc.
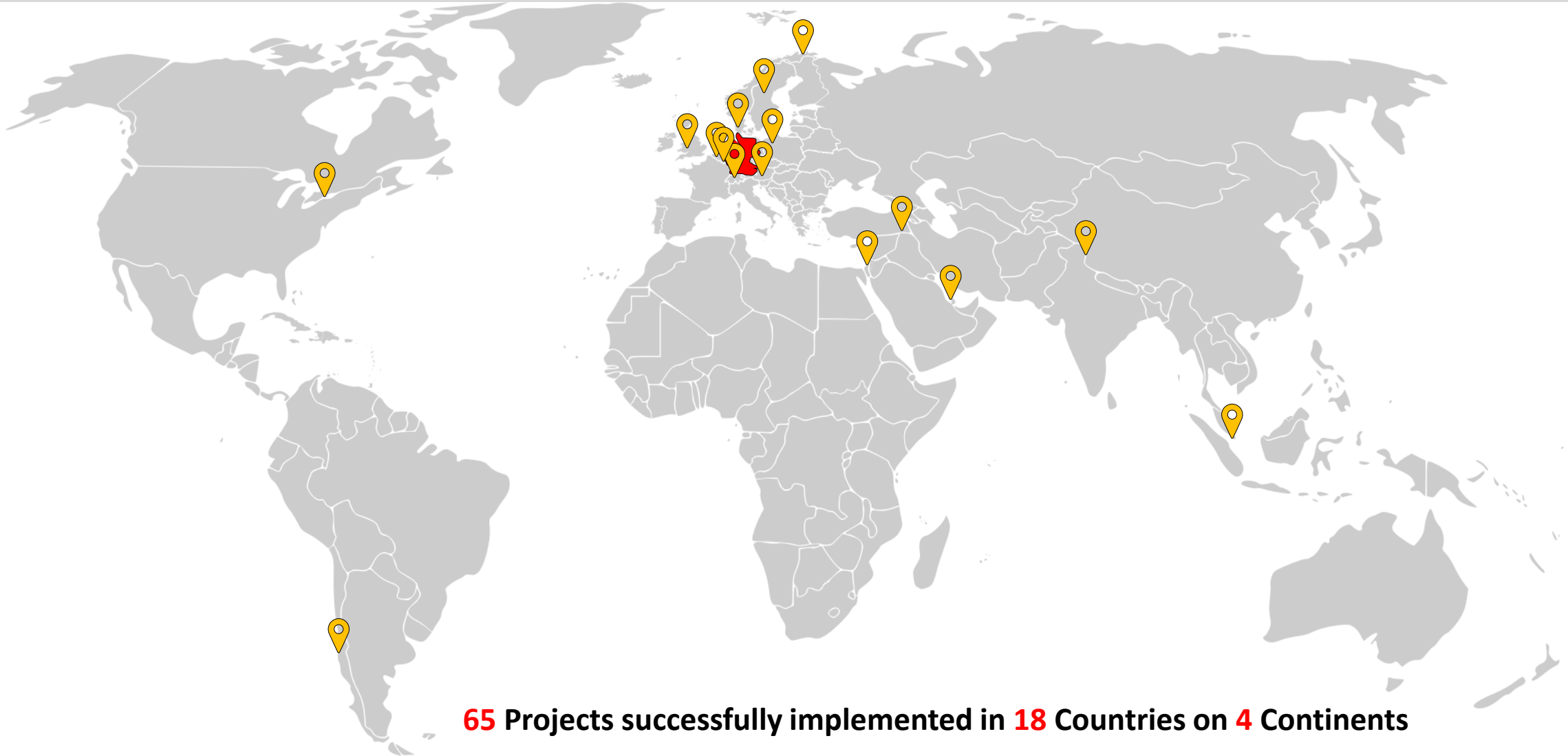
- CCTV

- Phone System (PBX)

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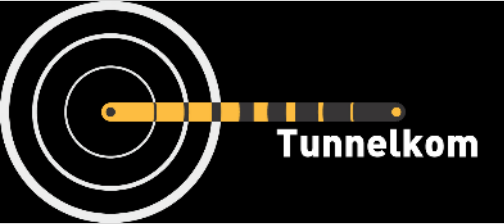# 3. Our Portfolio

IT Infrastructure

- Design of the IT-Infrastructure for Your Construction Projects - worldwide

- Analysis of your Construction Processes and Support for the Digitalizing of them

- Mediation of suitable, construction-related Software

- Customization / Development / Further Development of construction related Software for your Needs together with our Software Partners

- Configuration of Microsoft Office 365 Environments incl. Customization based on your Needs

- Automation of your Email der project-related Emails

- Flexible IT-Support in case of need (Remote or Onsite)

Company Presentation
Tunnelkom GmbH

65 **Projects successfully implemented in** **18** **Countries on** **4** **Continents**

Company Presentation
Tunnelkom GmbH

4. Our Projects

Project 🇩🇪	JV Tunnel Blessberg Sued/Nord
Services	Site Area and Tunnel Infrastructure, DECT, 70cm Radio, Alerting, IT-Equipment, Phone System (PBX)

Project 🇱🇺	PSK Vianden, Luxembourg
Services	Site Area and Tunnel Infrastructure, 70cm Radio, Alerting, Phone System (PBX)

Project 🇩🇪	Exploration Tunnel Kramertunnel
Services	70cm Radio, GSM

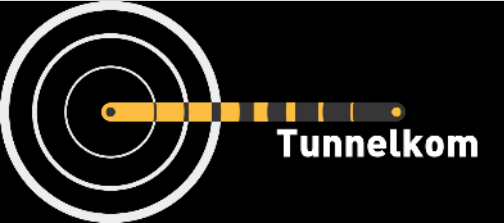| Project 🇩🇪	JV Tunnel Schwaebisch Gmuend
Services	Site Area and Tunnel Infrastructure, DECT, 70cm Radio, Alerting, IT-Equipment, Phone System (PBX)

Project 🇸🇪	Soedermalmstunnel, Stockholm
Services	Site Area and Tunnel Infrastructure, Feste Telefone, Phone System (PBX)

Project 🇩🇪	Tunnel Fleckberg
Services	70cm Radio, GSM

Project 🇩🇪	Tunnel Rehberg and Masserberg
Services	Site Area and Tunnel Infrastructure, DECT, 70cm Radio, Alerting, IT-Equipment, Phone System (PBX)

Project 🇮🇱	Ayalon Sewage Tunnel Tel-Aviv
Services	Site Area Infrastructure, IT-Equipment, Phone System (PBX)

Project 🇩🇪	Buehltunnel Siegen
Services	Site Area and Tunnel Infrastructure, GSM, 70cm Radio, Alerting, IT-Equipment, Phone System (PBX)

Project 🇩🇪	JV U4 Hafencity, Hamburg
Services	Site Area and Tunnel Infrastructure, DECT, 70cm Radio, Alerting

Project 🇩🇪	JV Tunnel Reitersberg
Services	70cm Radio

Project 🇩🇪	Branichtunnel Schriesheim
Services	Site Area and Tunnel Infrastructure, GSM, 70cm Radio, Alerting, People Tracking, IT-Equipment, Phone System (PBX)

Project 🇹🇷	Branch Office Ankara/HEPP Ilisu
Services	IT-Equipment, Phone System (PBX)

Project 🇮🇳	Rohtang Pass Highway Tunnel
Services	Application-Server

Project 🇨🇦	SEC Toronto
Services	Phone System (PBX)

Project 🇳🇱	JV SATURN X, Metro Amsterdam
Services	Site Area and Tunnel Infrastructure, DECT

Project 🇩🇪	Tunnel Rennberg/Feuerfelsen
Services	70cm Radio

Project 🇩🇪	U12 Stadtbahn Stuttgart
Services	Site Area and Tunnel Infrastructure, GSM, 70cm Radio, Alerting, People Tracking, IT-Equipment, Phone System (PBX)

Project 🇩🇪	JV Tunnel Höhnberg/Füllbach
Services	Site Area and Tunnel Infrastructure, DECT, 70cm Radio, Alerting, Phone System (PBX)

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4. Our Projects

Project 🇩🇪	JV ATCOST21 Fildertunnel, UT-Tunnel
Services	Site Area and Tunnel Infrastructure, GSM, 70cm Radio, Alerting, People Tracking, IT-Equipment, Phone System (PBX), Video

Project 🇦🇹	Koralmtunnel KAT3
Services	70cm Radio, GSM, People Tracking

Project 🇩🇪	JV Tunnel Rastatt
Services	Site Area and Tunnel Infrastructure, GSM, 70cm Radio, Alerting, People Tracking, Phone System (PBX), Video

Project 🇩🇪	JV Tunnel Feuerbach
Services	Site Area and Tunnel Infrastructure, GSM, 70cm Radio, Alerting, People Tracking, IT-Equipment, Phone System (PBX), Video

Project 🇩🇪	JV Bypass Schwarzkopftunnel
Services	Site Area and Tunnel Infrastructure, GSM, 70cm Radio, Alerting, Phone System (PBX)

Project 🇩🇪	Tunnel Imberg
Services	Site Area Infrastructure

Project 🇩🇪	JV ATA Tunnel Albaufstieg
Services	Site Area and Tunnel Infrastructure, GSM, 70cm Radio, Alerting, People Tracking, IT-Equipment, Phone System (PBX)

Project 🇩🇪	JV Tunnel Hirschhagen
Services	Site Area and Tunnel Infrastructure, GSM, 70cm Radio, Alerting, People Tracking, Phone System (PBX)

Project 🇦🇹	Gemeinschaftskraftwerk Inn (GKI)
Services	Site Area and Tunnel Infrastructure, GSM, 70cm Radio, Alerting, People Tracking, Phone System (PBX)

Project 🇦🇹	Kaunertal TVM Druckwasserstollen
Services	70cm Radio, GSM

Project 🇩🇪	JV Tunnel Albabstieg Ulm
Services	Site Area and Tunnel Infrastructure, GSM, 70cm Radio, Alerting, People Tracking, IT-Equipment, Phone System (PBX), Video

Project 🇳🇴	Tunnel Nordnes Samuelsberg
Services	GSM, People Tracking

Project 🇦🇹	S10 Neumarkt Mühlviertl
Services	GSM

Project 🇦🇹	Großglockner DWS Bärenwerke
Services	70cm Radio, GSM

Project 🇩🇰	MetNord Copenhagen – Cityringen
Services	Site Area and Tunnel Infrastructure, GSM, Tetra-Radio, Alerting, People Tracking, Phone System (PBX)

Project 🇩🇪	JV ATC Tunnel Cannstatt
Services	Site Area and Tunnel Infrastructure, GSM, 70cm Radio, Alerting, People Tracking, Phone System (PBX), Video

Project 🇦🇹	Lehnenstollen Scheibbs
Services	GSM

Project 🇩🇪	JV Tunnel Trimberg
Services	Site Area and Tunnel Infrastructure, Alerting, People Tracking, Phone System (PBX)

Project 🇩🇪	JV Tunnel Rosenstein
Services	Site Area and Tunnel Infrastructure, GSM, 70cm Radio, Alerting, People Tracking, Phone System (PBX)

4. Our Projects

Project 🇦🇹	JV BL 60.3/60.5 St. Kanzian
Services	GSM, 70cm Radio, People Tracking

Project 🇬🇧	Humber Pipeline Tunnel Project
Services	Tunnel Infrastructure, WLAN, IP-Radio, Alerting

Project 🇩🇰	Baltic Pipe Project, Polen & Dänemark
Services	Site Area and Tunnel Infrastructure, WLAN, IP-Radio, Alerting, People Tracking, Phone System (PBX)

Project 🇩🇪	Neuer Pforzheimer Tunnel
Services	Site Area and Tunnel Infrastructure, GSM, 70cm Radio, People Tracking, Phone System (PBX)

Project 🇸🇬	DTSS2 T-07, Sewer Tunnel Singapore
Services	Site Area and Tunnel Infrastructure, WLAN, IP-Radio, Alerting, People Tracking, Phone System (PBX)

Project 🇩🇪	Tunnel U5 Europaviertel Frankfurt
Services	Site Area and Tunnel Infrastructure, Tetra, WLAN, IP-Radio, People Tracking, Phone System (PBX)

Project 🇩🇪	Tunnel Oberau
Services	Site Area and Tunnel Infrastructure, GSM, 70cm Radio, People Tracking, Phone System (PBX)

Project 🇩🇪	JV Tunnel Wolframstrasse
Services	Site Area Infrastructure, IT-Equipment

Project 🇩🇪	JV Erneuerung Kuckuckslaytunnel
Services	Site Area Infrastructure, Phone System (PBX)

Project 🇦🇹	Perjentunnel, Landeck
Services	GSM, Radio, People Tracking

Project 🇩🇪	Nordstream 2 Pipeline Project
Services	Site Area and Tunnel Infrastructure, WLAN, IP-Radio, Alerting, People Tracking, Phone System (PBX)

Project 🇬🇧	York Potash
Services	Site Area and Tunnel Infrastructure, WLAN, IP-Radio, Alerting, People Tracking, Phone System (PBX), Video

Project 🇦🇹	Tunnel Scharnitz
Services	GSM

Project 🇶🇦	Mesaimeer Pump Station a. Outfall Tunnel, Doha
Services	Tunnel Infrastructure, WLAN, IP-Radio, People Tracking, Phone System (PBX), Video

Project 🇨🇱	Alto Maipo
Services	Tunnel Infrastructure, WLAN, IP-Radio, Alerting, People Tracking, Phone System (PBX)

Project 🇦🇹	Sanierung Gräberntunnel
Services	Phone System (PBX)

Project 🇩🇪	JV ATH, VE10 2. Stammstrecke München
Services	Site Area and Tunnel Infrastructure, WLAN, IP-Radio, Alerting, People Tracking, Phone System (PBX), Video

Project 🇦🇹	JV A26 Danube Bridge Linz
Services	Site Area and Tunnel Infrastructure, GSM, WLAN, Alerting, People Tracking, Phone System (PBX)

Project 🇩🇪	JV Flughafentunnel Stuttgart
Services	Site Area and Tunnel Infrastructure, WLAN, 70cm Radio, Alerting, People Tracking, Phone System (PBX), Video

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4. Our Projects

Project 🇩🇪 **Restructuring Engelbergtunnel**	
Services	Site Area Infrastructure, Phone System (PBX)
Project 🇵🇱 **Tunnel Swienemünde**	
Services	Site Area and Tunnel Infrastructure, WLAN, IP-Radio, Alerting, People Tracking, Phone System (PBX)
Project 🇳🇴 **Lövstakken Tunnel**	
Services	People Tracking
Project 🇩🇪 **Tunnel Boyneburg**	
Services	Tunnel Infrastructure, WLAN, Alerting, People Tracking, Phone System (PBX)
Project 🇨🇦 **AP2 Toronto**	
Services	Site Area and Tunnel Infrastructure, WLAN, IP-Radio, People Tracking
Project 🇨🇭 **Kandersteg Restructuring Lötschberg**	
Services	People Tracking

Project 🇩🇪 **BTO Stuttgart 21**	
Services	Site Area and Tunnel Infrastructure, WLAN, Alerting, People Tracking, Phone System (PBX), Video
Project 🇩🇪 **Aubergtunnel**	
Services	Site Area Infrastructure, Phone System (PBX)
Project 🇩🇪 **Tunnel Ostelsheim**	
Services	70cm Radio, Tunnel Infrastructure, WLAN, Alerting, People Tracking
Project 🇩🇪 **GWK Ibbenbueren**	
Services	Site Infrastructure, Tunnel Infrastructure, WLAN, Alerting, People Tracking
Project 🇩🇪 **Tunnel Maintenance S-Bahn Stuttgart**	
Services	Alerting, People Tracking
Project 🇩🇪 **Tunnel Maintenance Elleringhauser Tunnel**	
Services	Alerting, People Tracking
Project 🏴󠁧󠁢󠁳󠁣󠁴󠁿 **Coire Glass Exploratory Works**	
Services	Tunnel Infrastructure, WLAN, Alerting, People Tracking, Phone System (PBX)

Project 🇩🇪 **Große Wendlinger Kurve**	
Services	Tunnel Infrastructure, WLAN, Alerting, People Tracking, Phone System (PBX)
Project 🇩🇪 **U5 Hamburg Lot 1**	
Services	Site IT-Infrastructure
Project 🇩🇪 **Tunnel Rastatt – Slab Track System**	
Services	Tunnel Infrastructure, WLAN, Alerting, People Tracking, Phone System (PBX)
Project 🇩🇪 **U5 Hamburg Lot 2**	
Services	Site IT-Infrastructure

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5. Tunnel Communication and Safety Technology

Support for the Creation of a Tunnel Safety Concept

- Support for the Creation of a Tunnel Rescue and Safety Concept based on the BoQ and the Requirements oft the Rescue Forces and Authorities

- Support for Coordination Talks with Rescue Forces and Authorities

5. Tunnel Communication and Safety Technology

Sales and Installation of the entire Tunnel Communication Equipment

70cm Radio, 2/4m Radio, Tetra Radio, Analog Radio, GSM, WIFI, Fixed Phones etc.

- Based on many years' experience we can offer you any kind of Communication Technology

- Consulting for Choosing the right Communication Technology and Equipment

- Installation onsite worldwide
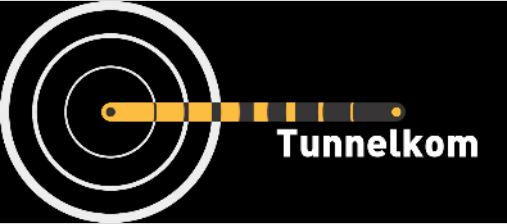
5. Tunnel Communication and Safety Technology

Sales and Installation of the Safety Equipment

People Tracking and Monitoring of the onsite IT-Equipment

- Use of Bluetooth-TAGs for People and Vehicle Tracking

- Customized Visualisation based on the Needs of the Construction Site

Customized Bluetooth / RFID-Bluetooth Combi-TAGs based on Your Requirements:
- Price
- Battery Life
- Additional Features (Push Button)

5. Tunnel Communication and Safety Technology

Sales and Installation of the Safety Equipment

Alerting (Sirens, Flashing Lights)

- Modular equipped Tunnel Units (self-build)

- Customization to the Requirements from the Rescue and Safety Concept

5. Tunnel Communication and Safety Technology

Sales and Installation of the Safety Equipment

Alerting (Sirens, Flashing Lights)

- Central managed Tunnel Alerting via Sirens and Flashing Lights as well as via Smartphone APP

- Implementation of complex Alerting Scenarios with our Alerting and Automation Software TACOS

- Visualisation of Tunnel Alerts incl. Tracing of the Person / Sensor who announced the Alarm

- Integration of local Rescue Forces into all Scenarios
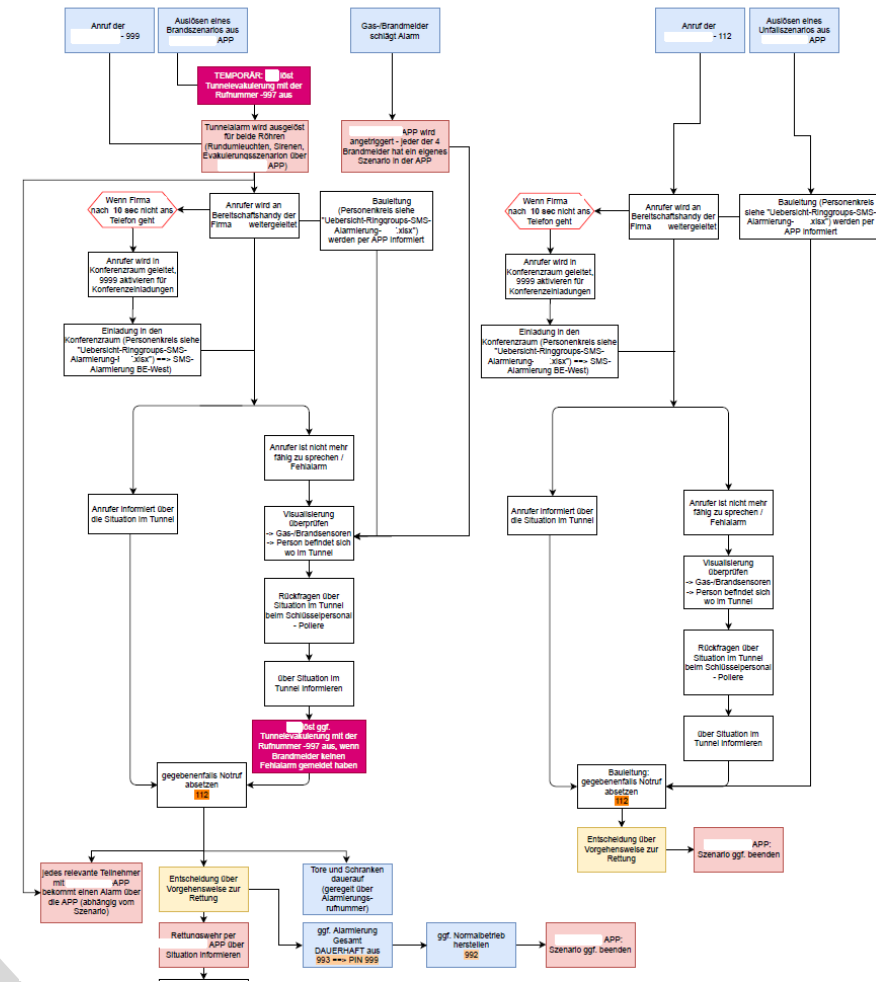
5. Tunnel Communication and Safety Technology

Sales and Installation of the Safety Equipment

Customized Plant Control

- Control of Gates and Barriers, Fire Stops, Pumps and Tunnel Fans etc.

- Customization of the TBM Control Cabin (Visualisation of Cameras, Integration of Phones, Analysis of Sensor Alerts etc.)

5. Tunnel Communication and Safety Technology

Sales and Installation of the Safety Equipment

Integration of Third-party Systems

- **Fire Alarm System**
  - Integration of the Fire Alarm System "MOBS" of Company Heim (Interface to TACOS available)
  - Wireless Fire Detectors flexible utilisable
  - Transmission of Alerts to TACOS
  - Reset of Alerts of the Fire Alarm System

5. Tunnel Communication and Safety Technology

Sales and Installation of the Safety Equipment

Alerting via Smartphone APP

- Use of "SafeReach" APP for Alerting in the Tunnel

- Interface to TACOS available – Exchange of Alerts

- Multilingual Alert Workflows

- iOS and Android APP
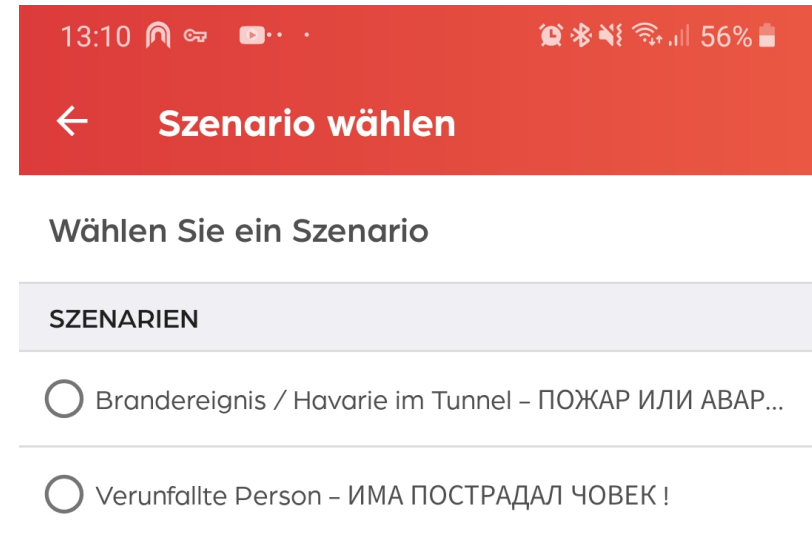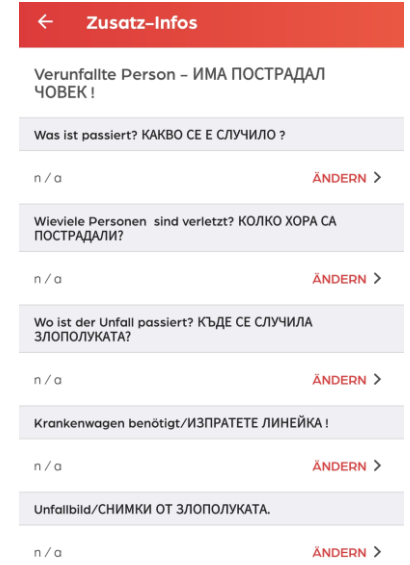
5. Tunnel Communication and Safety Technology
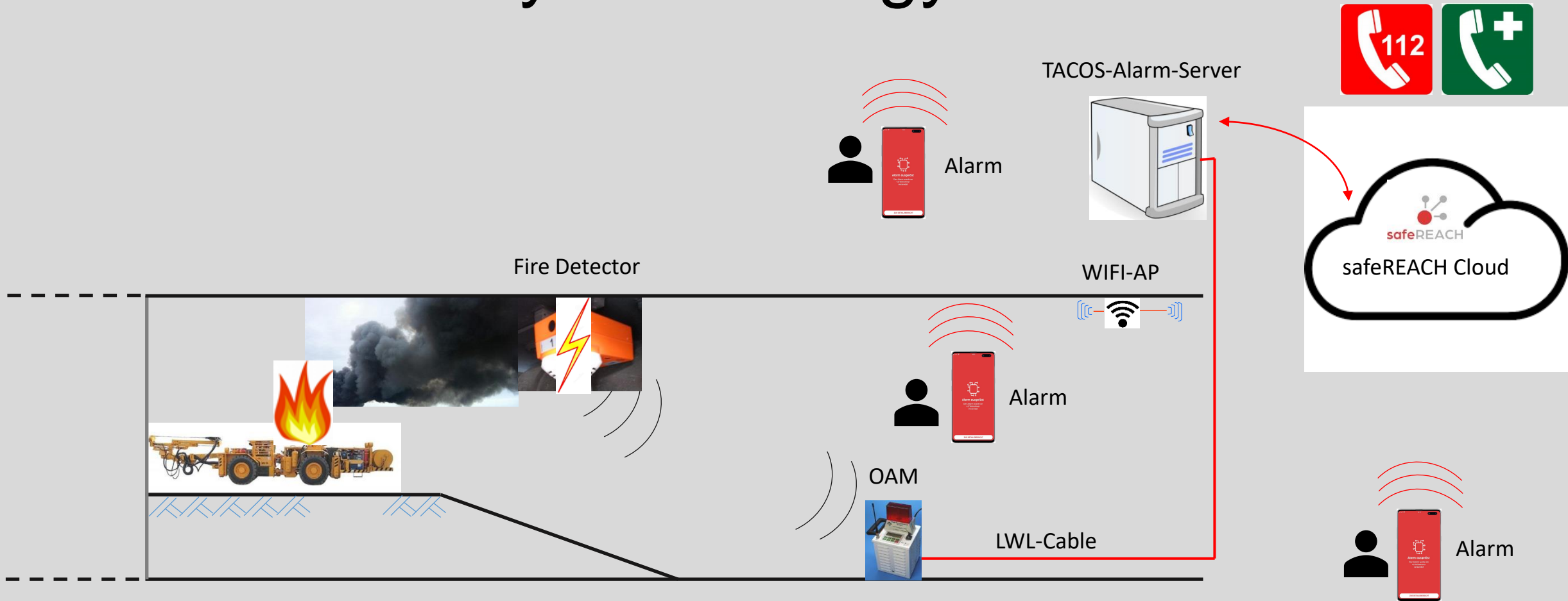
Tunnelkom

TACOS-Alarm-Server

Alarm

WIFI-AP

safeREACH Cloud

Fire Detector

Alarm

OAM

LWL-Cable

Alarm

5. Tunnel Communication and Safety Technology

Sales and Installation of the Safety Equipment

CCTV

- IP-Cameras from Mobotix

- Cameras with Dual- and Single-Lens, as well as Thermal Sensor Cameras available

- Easy Integration into the IP-Network of the Construction Site

- Cost free Control Room Software

- Alerting and Event-based control via Cameras possible

- TACOS Interface

- Central or decentral Recording of Videos and Pictures possible
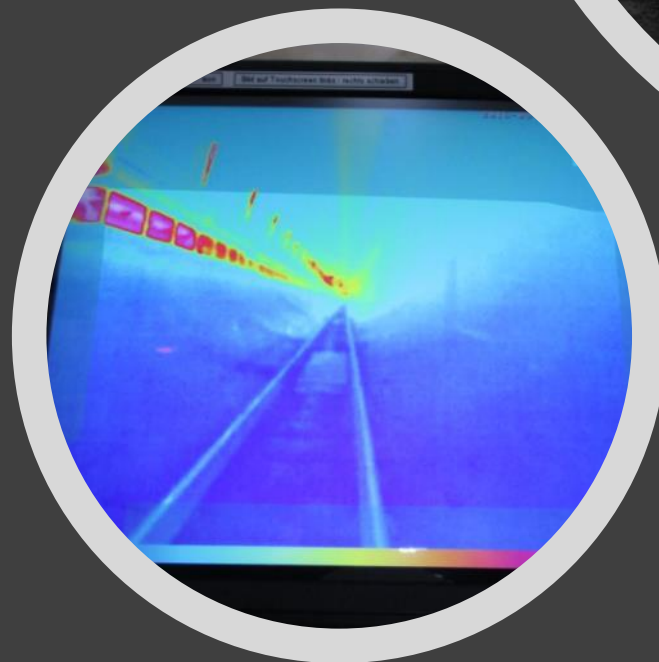
5. Tunnel Communication and Safety Technology

TkImageProcessor – Face Blurring

- In-House Development

- Various Sources possible (Cameras, manual Selection of Pictures etc.)

- Individual Choice of Picture Sources for Face Blurring

- Automatic Upload to Client-Platforms etc.

- Delayed Upload of Pictures in Case of Need

5. Tunnel Communication and Safety Technology

Sales and Installation of the Safety Equipment

Central Control Centre

- Installation and Configuration of a Central Control Centre

- Video Wall

- Event-based Camera Views

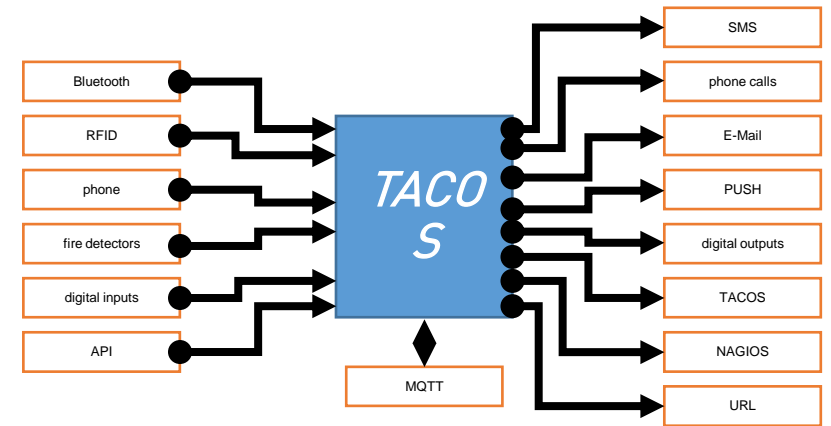# 5. Tunnel Communication and Safety Technology

TACOS … Tunnel Alarm and COntrol (COmmunication) System

TACOS is an in-house developed Software Solution, based for:

- People Tracking and Localization

- Entrance Control

- Alerting and Messaging

- Rule-based Actions and Events

- Interface to other Systems
  - e.g. IoT-Interface

5. Tunnel Communication and Safety Technology

Radio over IP (VOIP) - Radios

ICOM „Advanced Radio System"

- Communication via the Standard WIFI-Network of the Construction Site

- Central Management and Configuration

- Unlimited User-Groups and "Channels" (Talk Groups)

- Full-Duplex

- Status and Short Message Service

- Communication with Mobile Phones possible

- Network Coverage based on the Quality of the WIFI-Network on the Construction Site

- Interface to TACOS available (People Tracking)

5. Tunnel Communication and Safety Technology

Voice over IP (VOIP) – Phone Systems (PBX)

- Asterisk-based IP Phone Systems

- Running Virtualized on Standard-Hardware or in the Cloud
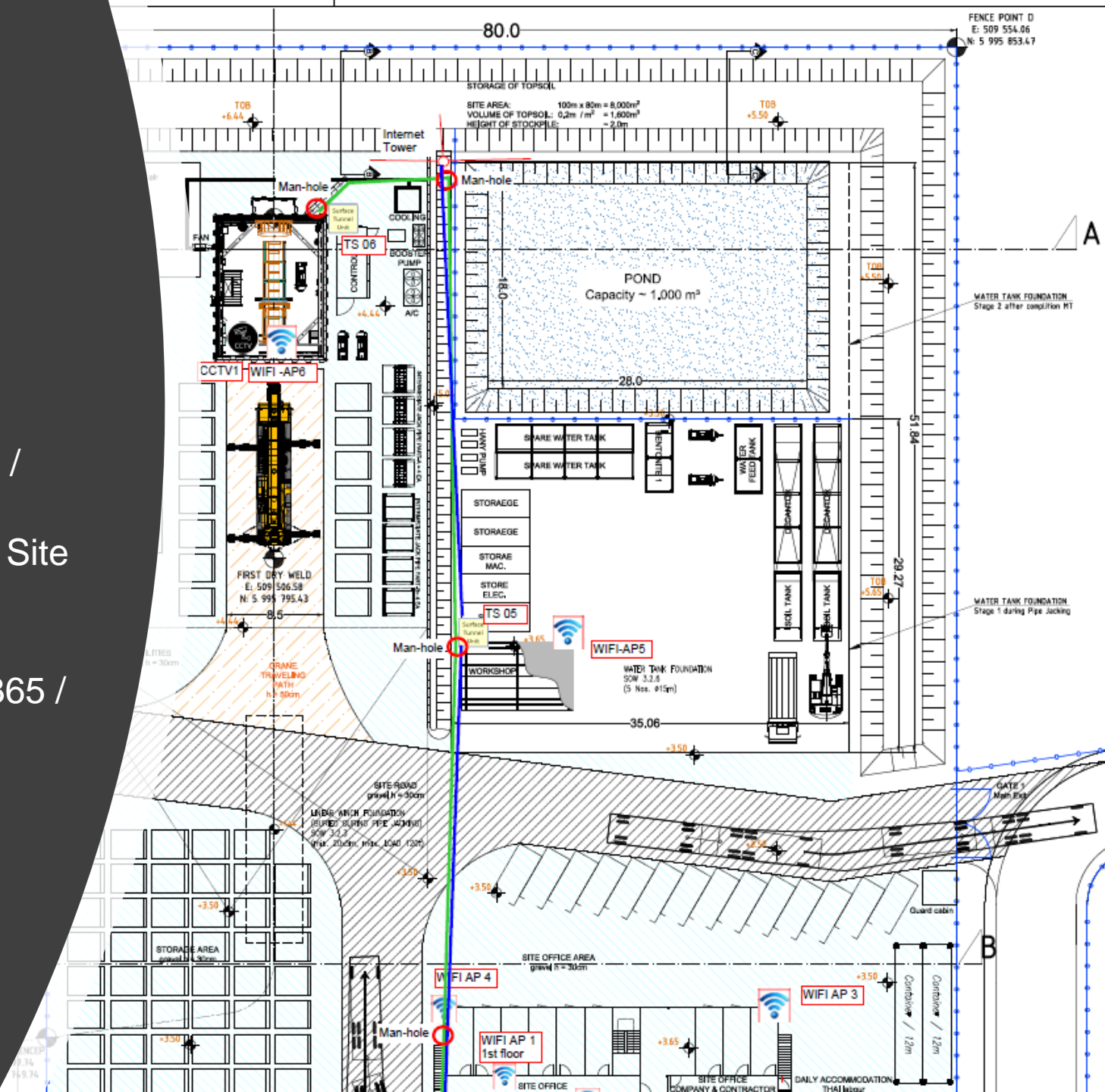
- No license fees

- No User-Limits

- highly flexible utilisable
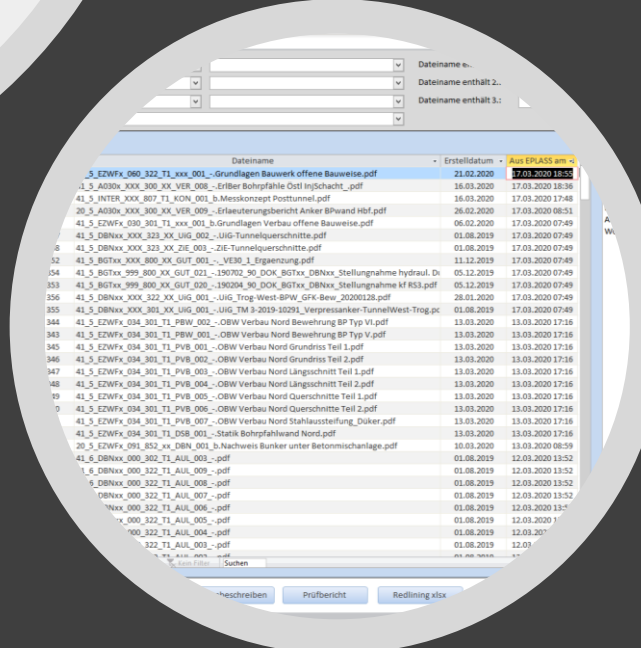
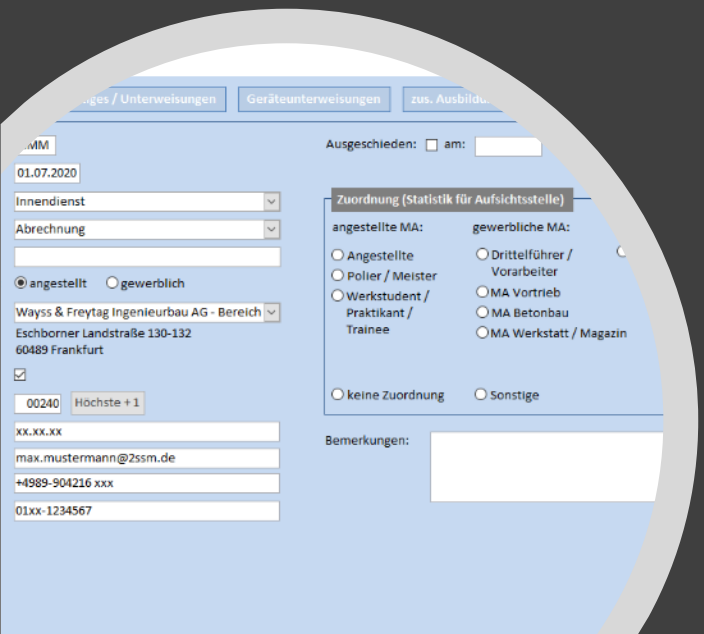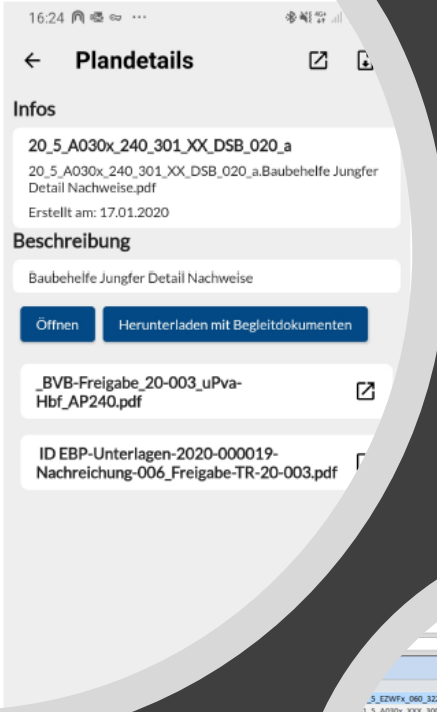# 5. Tunnel Communication and Safety Technology

Network-Infrastructure

- IP-Network everywhere (Site Area, Offices, Tunnel, Other Buildings)

- ONE (IP-) Network for All

- Connections via Copper, Fibre, Radio Link, WIFI, VPN

- Network Virtualisation (VLANs)

- Professional, Controller-based, Wireless Lan (WIFI) Systems

6. IT Infrastructure

- **Design of the IT-Infrastructure for Your Construction Site**
    - Joint Design of the Site Area IT-Infrastructure
    - Cabling Design for the Office Containers / Barracks
    - WIFI Installation in the Office and on the Site Area
    - Internet and Communication Concept
    - Server and Cloud-Infrastructure (Office 365 / local Servers etc.)
    - Site IT-Equipment or „Bring in your Company Device"
    - Remote Access (Connection from Home office / Head Office)
    - IT-Safety Concept

6. IT Infrastructure

- **Analysis of your Construction Processes and Support for the Digitalizing of them**
    - Analysis-Workshops of Your Leading Construction Site Workflows
    - Digitalization / Optimization Proposals
    - Practical Implementation
   - Process-/ Workflow Trainings
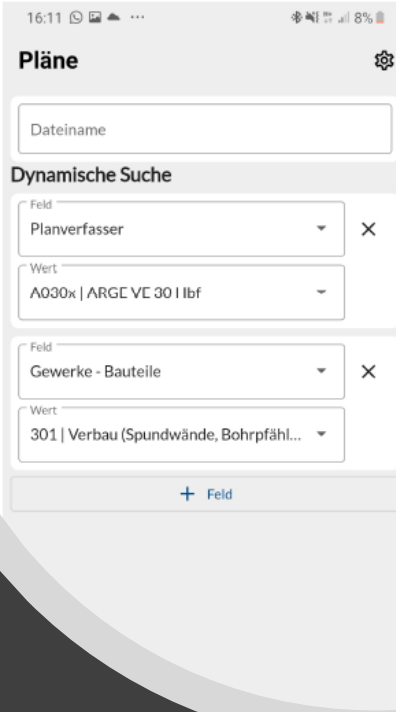
6. IT Infrastructure

Mediation of suitable, construction-related Software

Based on many years' experience with Major Projects we are well versed in construction-related Software

- We are closely linked with many Software Developers and can mediate their Products to You.

- Together with our Software Partners we can customize / develop / further develop the construction-related Software. Therefore, we are analysing your Needs and take care for the further development until the introduction on Your Construction Site
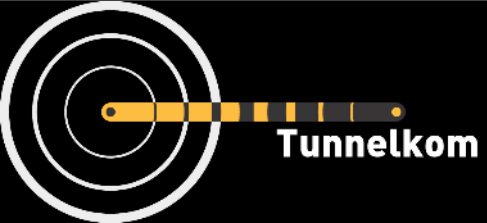
6. IT Infrastructure

Configuration of Microsoft Office 365 Environments incl. Customization based on your Needs

- Configuration of Your customized O365 Environment (Tenant, Licensing, Teams)
- Joint Structuring of Your Project
- Hybrid-Solutions (O365 and Fileserver)
- User Management
- Introduction and Training

Company Presentation
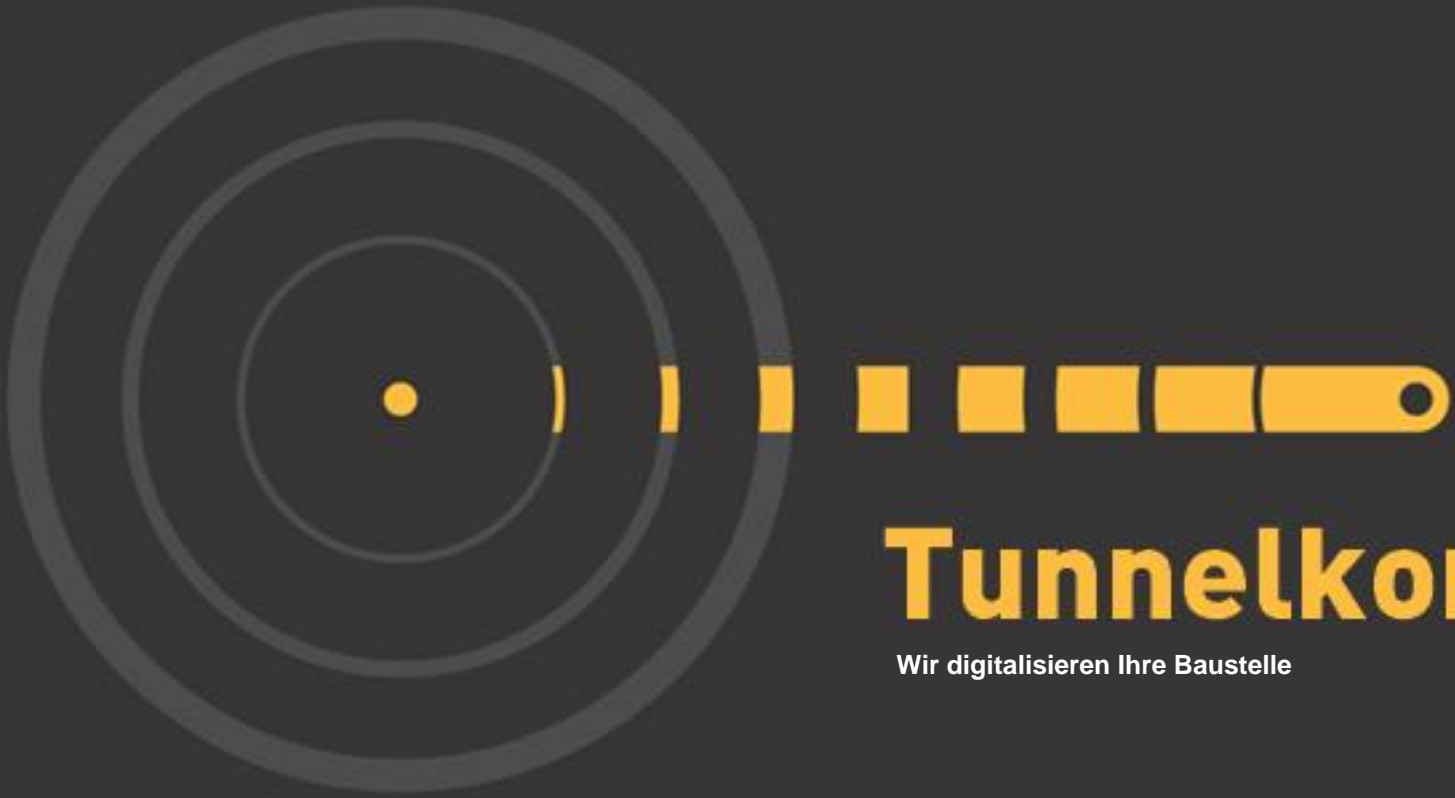Tunnelkom GmbH
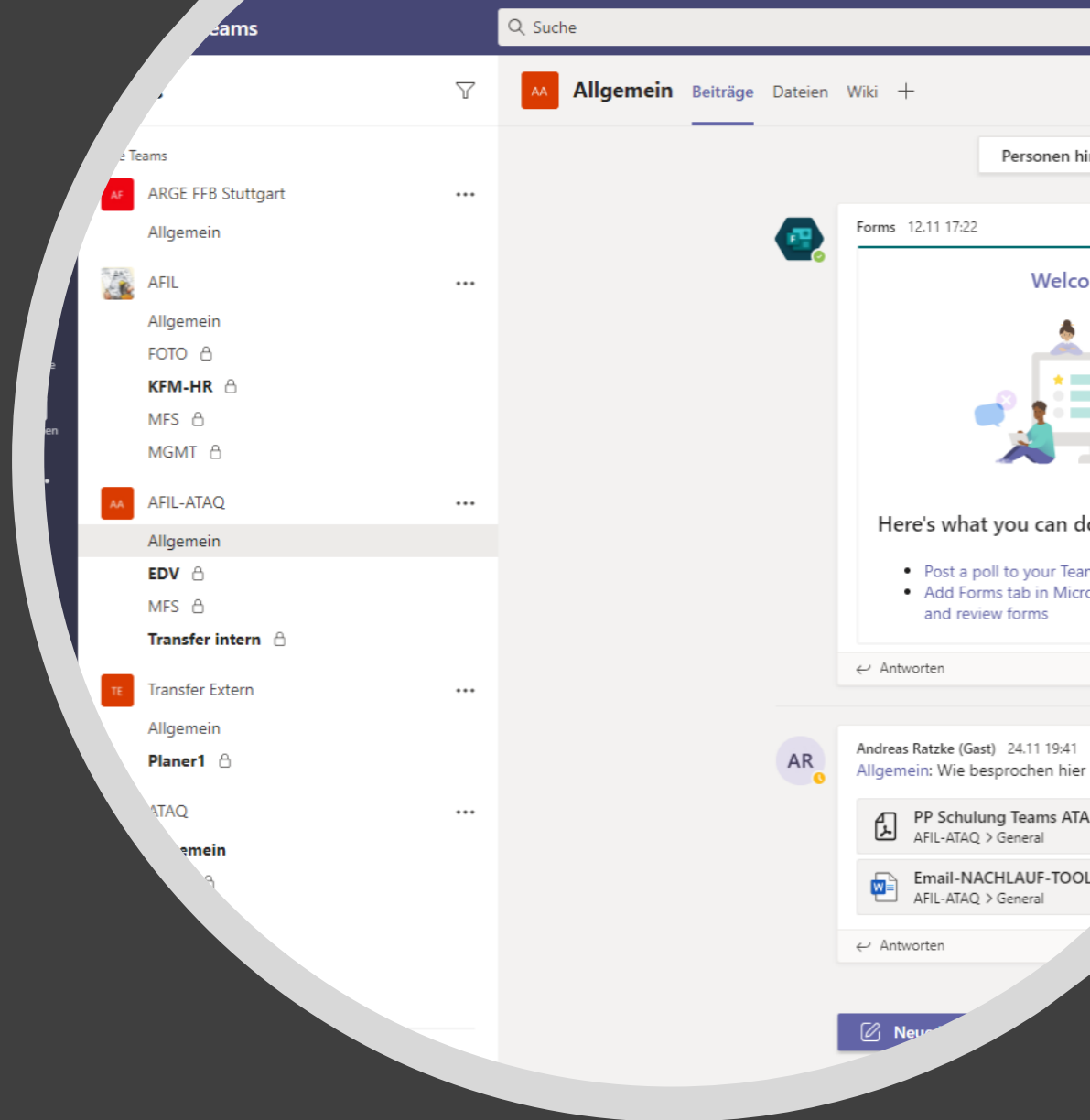
6. IT Infrastructure

- **Automation of your Email der project-related Emails**
  - Fully Automatic Filing of Emails out of Shared Inboxes and Personal Email Inboxes in Outlook
  - Pre-structuring of Emails based on the Email-Domain
  - Structured Filing of Emails based on central managed Filing Standards
  - Multi-Filing based on Email Addressing
  - File Naming based on QM-Standards
  - Doublette Checks
  - AI-based Creation of an Overall Address list
  - In-house development – Integration into each O365-Environment

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Tunnelkom GmbH

6. IT Infrastructure

- **Flexible IT-Support in case of need (Remote and onsite)**
  - Provision of IT-Supports for Your Construction Site (Remote or Onsite)
  - Staff with Site Experiences
  - Flexible Offsetting

sentation

...nelkom GmbH

Tunnelkom

Wir digitalisieren Ihre Baustelle

Many thanks for your attention!
非常感谢您的关注！