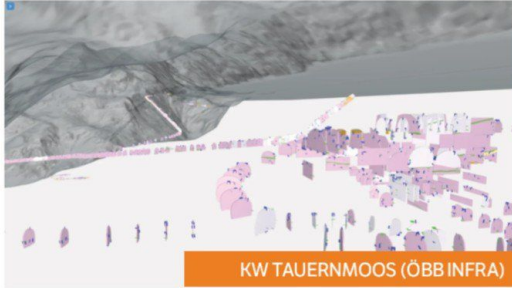


PROJECT REFERENCES

Within a short period of time, **TOMKIT** was able to successfully prove itself in numerous projects. As a highly scalable data platform, TOMKIT can accommodate any number of projects, all of which can be individually configured. A flexible authorization concept determines which access rules apply to the data for individual users or user groups. This ensures smooth collaboration between all those involved in the project, as they always work on the latest version. This allows clients to follow the construction process of the project directly in the web browser in real time.



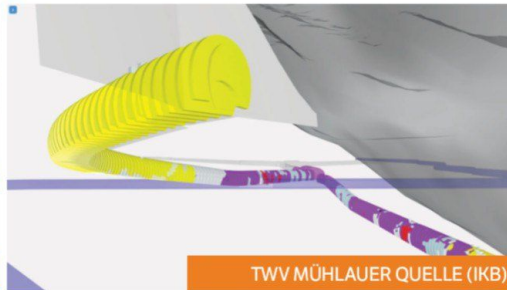
KW TAUERNMOOS (ÖBB INFRA)



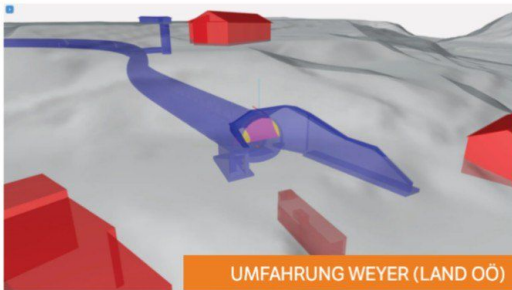
KW OBERVELLACH II (ÖBB INFRA)



KW LIMBERG III (VERBUND)



TWV MÜHLAUER QUELLE (IKB)



UMFÄHRUNG WEYER (LAND OÖ)



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Alpenstraße 10/2
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E-Mail: office@igutech.com
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Projekt Nr. 3
Kraftwerk Tauernmoos

Projekt Nr. 4
Kraftwerk Obervellach II

Projekt Nr. 5
Kraftwerk Limberg III

Projekt Nr. 6
Innsbrucker Trinkwasserversorgung Mühlaier Quelle

MODERN DATA PLATFORM

BAUGEOLOGISCHE DOKUMENTATION

Bestell: Hauptplan Teilquerschnitt Kalotte Ml. Nr. 52 Richtung 02.93 ° Aufnahme 02.03.2020 07.30
 Vorlieb: NORD-KA Tunnelmeter 236.5 m (236.5) AL 1.3 m Überlag. 178.8 m Geologie Stadmann, Thomas
 Maßstab 1:100

GEOLOGIE: TS A: Quarzöcher Gneis, mittelgrau, überwiegend bankig und herrschende Orientierung, bis schwach senkrechte SF-Benignen. Nach bis angetastet, meist mittelstärkige bis verbläulichte und untergeordnet ergussartige Klüftung. TS B: Paragneis, in quarzöcher Schiefer übergeordnet, meist mittelstärkig und geradlinig, vorwiegend überbankig und mittelstärkig. Senkrechte Benignen entlang der SF, häufig hohe T-furch bis angetastet, lokal vererbt.

GEORIE: Teilweise mäßig beanspruchtes Gebirge mit steil nach SSW fallenden Schieferungsflächen (gelegentlich bis schiefelnd zur Kernrichtung streichend) und überwiegend günstigen (oben rau, unten glatt) Transformationsflächen, häufig benutzliche Transformationsflächen und geradlinig, vorwiegend überbankig und mittelstärkig. Senkrechte Benignen entlang der SF, häufig hohe T-furch bis angetastet, lokal vererbt.

MODULE TOMKIT.GEO

3D MODEL (BIM)

SITEPLAN

TOMKIT was designed from the ground up as a **modern data platform** in the cloud. The development was based on open source components in compliance with web standards. Access to the data is independent of the operating system via a **web browser** (Chrome, Firefox, Edge) and is controlled via predefined roles. This means that individual users can work independently on different projects at the same time.

The **geological documentation** can be configured individually for each project. The individual geological parameters are adapted to the conditions directly on site. For the first time, the recordings can be freely defined in 3D space (e.g. cavern). Special queries allow geological data to be comprehensively quantified and made available in the form of sophisticated reports, tables, siteplan and 3D models.

A high-performance **3D viewer** visualizes the stored data from geology, surveying and construction measures directly in the web browser at the push of a button. Data from planning or existing buildings can optionally be displayed. The export for further processing in other systems takes place via IFC (4.3) or GLTF. Geological or geotechnical decision models can be transferred directly to other BIM systems.

Using an integrated **WebGIS**, all recorded elements (rounds, measurement cross sections, drillings, ...) can be displayed with the current tunneling statuses on an interactive site plan. The integration of background data (orthophoto, buildings, drillings, sources, ...) can be configured individually for each project. Using an API, the current progress of the project can be passed on to external GIS applications for display.

MODULE TOMKIT.BAU

MODULE TOMKIT.GTM

In addition to efficient data collection and evaluation, TOMKIT offers special functions for **controlling and calculation**. It is a web-based multi-user system that can be operated with a wide variety of devices (PC, tablet, smartphone). Monthly billing can be accessed using appropriate reports and queries. The **billing models** are exported either via CSV tables or IFC models (BIM).

The measurement data can be imported from various file formats via import interfaces. The graphical evaluations generated from this offers the editor a quick and comprehensive overview of the **deformation behavior** of the tunnel. In addition to time-distance diagrams, vector representation, influence line diagrams and direct integration into a 3D geological model are available.

DATA ANALYSIS

Tunnelmeter	[m]	10			
Überlagerung	[m]	10			
Richtung	[°]	307			
Niegung	[‰]	1.3			
Abschlag	#	1	2	3	4
Abschlaglänge	m	1.3	1.3	1.3	1.3
Ausbruchsverhalten	A1	A1	A1	A1	A1
Lösemethode	Sprengen	CS	CS	CS	CS
Profilmasshaltigkeit	Profilmasshaltigkeit	CS	CS	CS	CS
Bergwasserhältnisse	Neofitras	CS	CS	CS	CS
Gebirgsart	GA 1	GA 2	GA 3	GA 4	GA 5
Festigkeit	festigkeit	100%	100%	100%	100%
Verwitterung	verwitterung	10%	10%	10%	10%
Zerlegung	zerlegung	25%	25%	25%	25%

TUNNEL TAPE

A versatile **report generator** makes it possible to display the stored data in a clear, aggregated form. Special queries and pivot evaluations expand the spectrum of data analysis. External applications (e.g. Excel Power Query) can access the data directly and carry out corresponding real-time analyzes via a protected API (Application Programming Interface).

A completely new developed **tunneltape** generator can display the stored data in a project-specific manner in the form of bar and line diagrams or intersection tracks along the the tunnel axis and render it interactively directly in the web browser. The result can either be exported in the neutral SVG format or in the industry standard DXF Format for further processing in external CAD programs.