

BRENNER BASISTUNNEL
GALLERIA DI BASE DEL BRENNERO
BRENNER BASE TUNNEL



**AN ADVENTURE
FOR EVERYONE**

**COME DISCOVER
TUNNEL WORLD**



Welcome to Tunnel World!

The Brenner Base Tunnel project ... technological, fun, and a different point of view.

For young and old alike.

For amateurs and experts.

For theoreticians and experimenters.

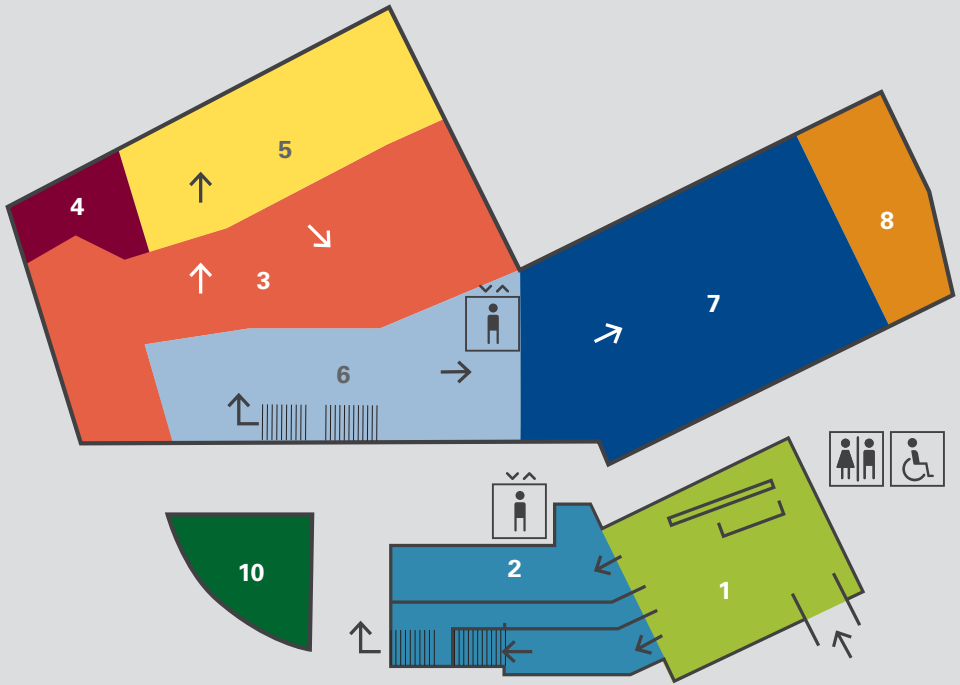
10 worlds, as different and as brightly coloured as each and every one of us, wait for you to explore them. There is definitely something for everyone here!

Discover the currently biggest underground infrastructure project in Europe in this roughly 800 m² exhibit and learn about the exciting world of the Alps.

Lots of displays, on history, geology, topography, tunnel construction, environmental issues and so much more, invite you to touch, discover, play and learn.

The Brenner Base Tunnel (BBT) is a low-gradient railway line running through the Alps; a railway line for the future. The tunnel is the heart of the Scandinavian – Mediterranean TEN-Corridor. At 64 km, it is the longest underground railway connection in the world, a pioneering work of engineering and it will markedly improve passenger travel and freight transport through the heart of Europe.

Upper Level



Lower Level

Start



1. The Brenner Pass

- Reception / Brochures
- Large route layout showing the progress of the excavation
- Footprints over the Alps
- The path over the Brenner Pass **NEW!**
- Radio time machine
- Antique telephone used along the rail line (1) **NEW!**

2. BBT Display Tunnel

- Display tunnel (1) Drill & Blast excavation
- Tunnel construction terms
- Tunnel construction equipment
- Drills for tunnel construction **NEW!**
- Re-breathers with up to 90 minutes of air **NEW!**
- Display tunnel (2) Machine excavation **NEW!**
- Railway Outfitting **NEW!**

3. Adventures for kids

- Giant building blocks
- Construction manager **NEW!**
- A model of the route of the BBT **NEW!**
- Rock drill
- Blasting expert
- Whispering tube
- Stories and legends
- Animals who build tunnels
- Tunnel construction quiz
- Endless tunnel
- Climbing wall
- Jobs deep underground

4. Train simulator

- Railjet train simulator **NEW!**

5. Geology of the Alps

- Drill cores
- Plant life in the Alpine habitat **NEW!**
- Stereo photoviewer
- Groundwater
- Plate tectonics
- Mountain orogeny **NEW!**
- Seismograph

- Microscope
- Magic lenses

6. Technology & traffic

- Antique telephone used along the rail line (2) **NEW!**
- Geophone
- Laser measuring tool
- Tension lines
- Vaulted arch
- Trains as a means of transport
- Ahrental substation **NEW!**
- Straight across Europe
- Traffic Master

7. The Brenner Base Tunnel Project

- New pathways for Europe
- A project makes history
- Well invested
- Model of the Sill gorge **NEW!**
- Photos – Tunnel time machine
- BBT SE
- The works
- One team, one goal **NEW!**
- Facts quiz
- Geological profile with construction work progress
- Tunnel cinema – BBT SE Forum
- Recycle and Re-use **NEW!**
- Our environment – commitment and added value

8. Tunnel boring machine (TBM)

- Model of an “Open Gripper TBM”
- Tunnel boring machines at work **NEW!**
- TBM cutting discs chisels **NEW!**

9. Cutter head

- Original cutter head – (World record-making TBM) **NEW!**

10. Outside area

- Stone xylophone
- Humming stone
- Excavating machine
- Sand transport game

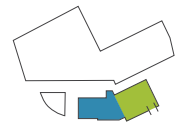


1. The Brenner Pass

**History's fun! 5,300 years – in 12 metres.
Who crossed the Brenner Pass, and when
and how?**

Watch and listen!

From the Stone Age to today: Ötzi, Drusus, Charlemagne, Goethe, right up to you and me: What were and are the reasons to cross the Brenner Pass? What did the road look like in the past, and how did this important route develop? Get to know the lowest Alpine pass, at 1,370 metres above sea level, and cross it yourself – it's more fun in Tunnel World.



2. BBT Display Tunnel

**From the raw rock to the completed
tunnel: How does tunnel construction
work? What machines are needed?
Plus: KABOOM!**

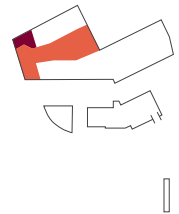
Tunnel construction: Creating underground cavities. A fascinating, difficult construction challenge. Learn your way around construction machinery that you don't see every day, and special words that only experts know. Stroll over the tracks inside a finished tunnel tube and find out what "ETCS" is. And you will definitely impress your friends with what you know about the other big tunnels in Europe.



3. More Adventures for kids

Lots and lots of different stations – and not just for kids! And if you get tired of climbing, you can rest in the cave and listen to Tyrolean stories and legends.

It's not just the Brenner Base Tunnel that's huge, the fun on the climbing wall and the challenge of building a finished tunnel ring from 6 tubbing elements are pretty cool too. Solve the tunnel quiz, discover what animals build tunnels and hear some stories that are not your boring everyday stuff! You can even "whisper" that you are absolutely not ready to leave ...



4. Train simulator

Can you believe your eyes? A Railjet train right in the middle of Tunnel World? That's really something! Step on board and take your places.

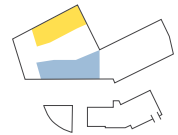
Whether you're the train driver or a passenger, you can't miss this simulator. Put your hand on the accelerator and ... off we go! Regulate the speed of the train on the Brenner line and even if you're having fun don't forget to push the Dead Man's Switch every 30 seconds.



5. Geology of the Alps

**Another way to look at science:
Make it rain! What kind of rock is this?
Jump! Blast! Our Alps are a lot more
exciting than you'd think!**

How the continents were born: Talk about a moving story ... In Tunnel World, you can find out about tectonic plate shifts, how mountains fold and rise in 3D, groundwater flows and lots more, without having to hang around for a few million years. So if you want to jump for joy, go ahead! Our seismograph will measure your good vibrations.



6. Technology & traffic

This is how a traffic jam starts. This is how you measure long distances. This is why a tunnel doesn't collapse! We guarantee "WOWs!!" for young and not-so-young scientists alike!

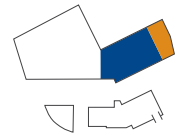
Plane, train, ship or lorry? How much time and how many kilometres does each transportation method require for a goods delivery, and how much pollution does it produce? Compare the data – you'll be surprised! The laser measuring tool lets you measure distances that are much too long for any measuring tape. Try it now! What will the travel speeds of the future be? And if all this is too fast for you: just cause a traffic jam.



7. The Brenner Base Tunnel Project

Wow! This long railway tunnel is being built right near us. Who is working on it? Where are the construction sites? Why is it so hot in the tunnel?

We are all familiar with tunnels – at least the railway and road tunnels that we all travel through. In comparison to them, the Brenner Base Tunnel runs even deeper below the ground. How do you know what kind of rock is inside the mountain where you want to build the tunnels? Take a look at the fascinating drill cores. None of them look like any of the others. Find out all there is to know about tunnel construction!



8. Tunnel boring machine (TBM)

Wow, what's this? An oversized drilling machine? A hi-tech "mole"?

But have you ever seen the "underground factory" that is used to build a tunnel like this? What happens to the excavated rock? And how can you be sure that these "holes" will actually meet where they are supposed to, if you are digging from more than one direction at the same time? Find out how many different kinds of TBM there are and what a tubbing ring is. Only real tunnel experts know things like that.



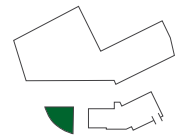
9. Cutter head

A world record!

In May 2017, this cutter head excavated 61.04 m of tunnel in 24 hours.

Do you feel rather small next to it?

And may we introduce you? This is the cutter head of the tunnel boring machine that, working from autumn of 2015 to the summer of 2020, excavated 16,587 metres of hard, compact rock from Ahrental, south of Innsbruck, to Steinach am Brenner. The 49 cutting discs, at an impressive diameter of 8 metres, chewed the rock into little chips. Talk about biting off more than you can chew ...



10. Outside area

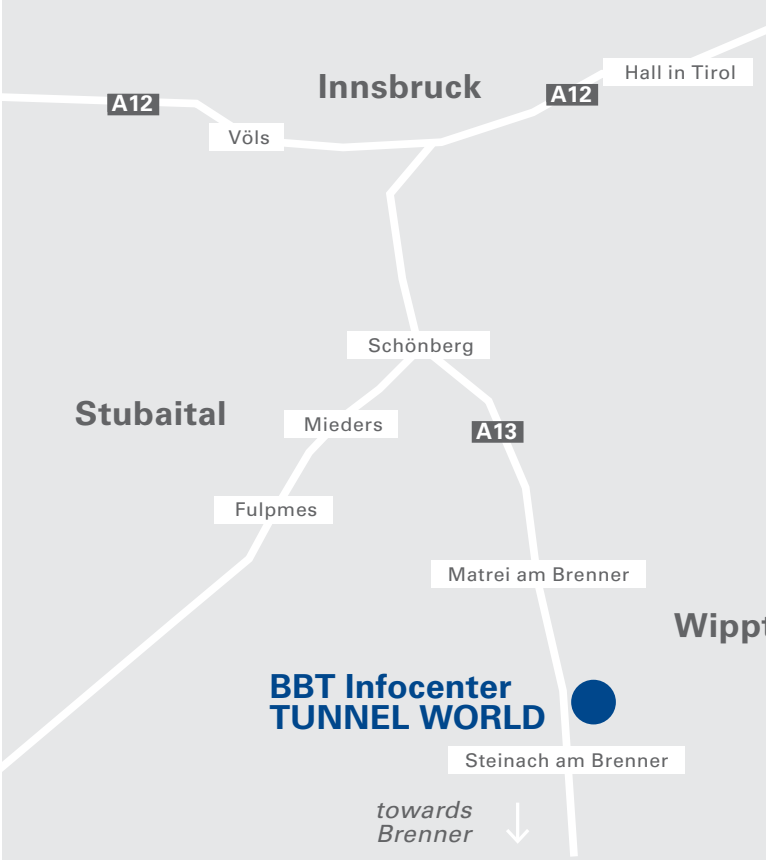
Out into the fresh air! Bet you've never seen a xylophone this size.

Dig up rocks and carry them.

What's that humming noise?

A very special playground ... with lots and lots of rocks. See how good you are at excavating and carrying small rocks. It's not as easy as it looks! Did you know that seemingly "lifeless" rock makes a really great sound? Discover your own musical talent and let our stone xylophone ring!

How to get there



Contact information

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Opening hours and detailed directions:



Entrance is free of charge.
Large parking lot free of charge
Barrier-free access and lift (for prams, strollers or wheelchairs ...)