

# Making of: Berlin Industrial Heritage Bike Routes **DIPL.-ING. ANTJE BOSHOLD**

INTERNATIONAL CONFERENCE ON GREENWAYS | 9-10 OCTOBER 2025 | ABANTO-ZIERBENA, BASQUE COUNTRY, SPAIN















# Who we are

### A cooperation of

- University of Applied Sciences, HTW Berlin
- German Museum of Technology, Berlin
- Senate Department for Urban Development (Berlin's highest monument protection authority)

# What we want

- Making interactions between industry, culture, and urban history known
- and accessible to a broad audience

# What we do

- We do research
- We organize conferences and develop publications
- We design cultural tourism offerings

# Who finances

- Senate Department for Urban Development
- Senate Department for Economic Affairs







# Our Slogan sparks curiosity and supports Berlin's sustainable tourism strategy

# For more Berlin: go here!







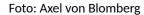


# **Eight high-quality bike routes**

# Berlin as an open-air museum of industrial heritage



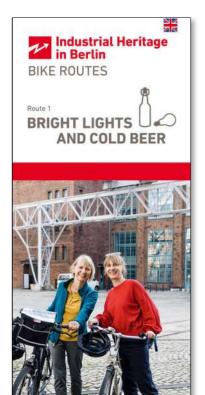


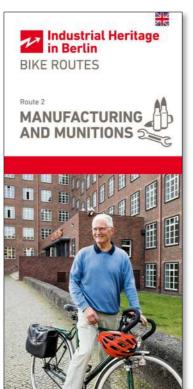




# Our communication tools - analog and digital - German and English

# Designed from the user's perspective













Industrial Heritage in Berlin

INFRASTRUCTURE 0

**BIKE ROUTES** 

**NATURE AND** 



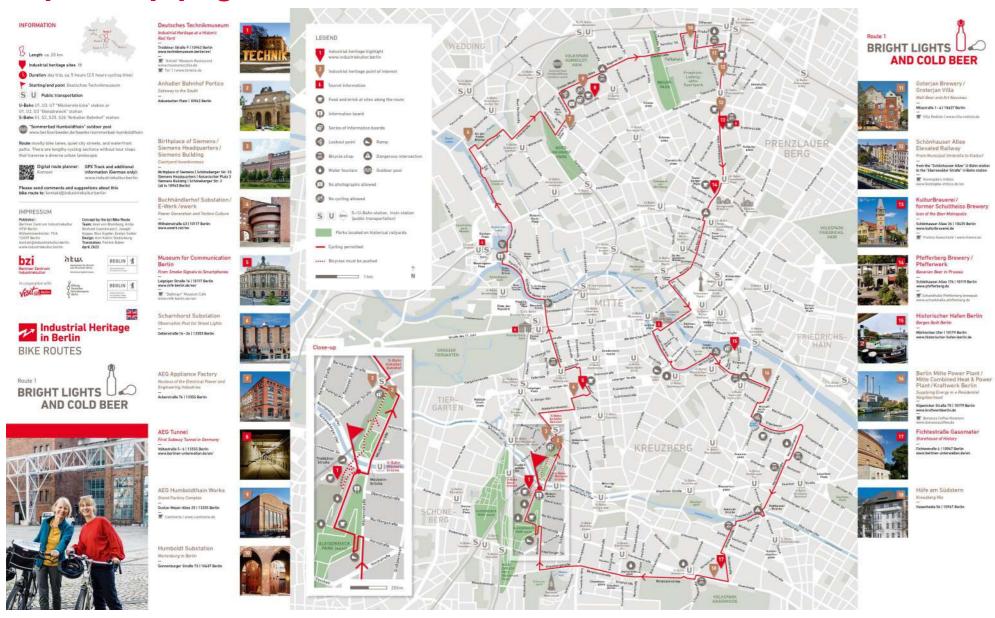








# Flyer map page





# Flyer text page

Route 1

# **BRIGHT LIGHTS**





#### BRIGHT LIGHTS AND COLD BEER BIKE ROUTE

Hard work makes you thirsty! No wonder the Industrial Revolution witnessed the construction of many breweries along-side new factories and working-class neighborhoods, thus quanching the thirst of the rising capital of Serlin. The new oction-fermented brewing process imported from Bavaria was perfectly suited to industrial production. And the hilly topography of Prenziauer Berg (Berg being German for "hill") facilitated the construction of large cellars necessary for cold storage. There were more than a dozen breweries here ground 1000.

With the rise of the electrical power and engineering industries With the rise of the electrical power and engineering industries around 18th, Bert mode the jump from large of by mentiopous is Winders from Pomerantia and Slasia sought their ferture in the boorteam, Small workshope like Siemen S. Bislake, initially located in mur countryants, previ into multivalisational corporations. Bert his becarries a being yound for modern Ide, Underground electric cables were laid must be unter and gas lines, providely the methodopa will hopever. This eleventur, surfaced at electrical abullations. These imposing disturbers of burgering industry changed the locat of the stig, Initially. built in the historicist made popular in Imperial Germany they later favored the style of the New Objectivity. What is more, the electrification of machines, illumination, transpo tation, and communications media changed the working and everyday lives of the city's inhabitants – they were literally

### INDUSTRIAL HERITAGE IN BERLIN

Berlin is a gigantic open-air museum of industrial heritag Our five bike routes invite you to discover a new side of the

plan a whole day for them. All the routes traverse diverse urban environments and stick to retaining waterfront paths, quiet side streets, and official bike lanes, if you feel like taking a break, there are many restaurants and cafés with a specia

GPX Track and additional information (German only):

### HIGHLIGHTS

### **BIKE ROUTES**

city. Each route traces a different chapter of the city's history

- Route 1: Bright Lights and Cold Beer
  Route 2: Manufacturing and Munition
  Route 3: Water and Power
  Route 4: Innovation and Elegance
  Route 5: Railrouts and Runways

### INDUSTRIAL HERITAGE IN BERLIN

Our 18 highlights are representative of Berlin's industrial development. They testify to the city's exceptional rice as an "electro-poies," to hard times and many fresh starts. Beginning with the Industrial Revolution in Prussia, they Bustrate Berlin's transformation into the most modern metropolis on the Continent. Traces of the First and Second World Wars can still be timent. Traces of the First and Second World Wars can still be seen in many places. Some of the siles also bear withness to changes entailed by the building and fall of the Bertin Wall. The highlight is include museums, instantical locations, and even schively operating businesses. Some are open every day, others only by appointment.

the European Route of Industrial Heritage, www.orih.ne



### Bertin Mitte Power Plant | 1964 Mitte Combined Heat & Power Plant I 1997

When the Berlin Wall went up, the capital of East Dermany needed its own energy supply. Thus the Berlin Mitte Power Pleart went ordine in role, it was closed in 1997 when the Mitte Combined Heat and Power Plant opened. In 2006 the logendary techno club Tresor moved into the aputhern tract of the old power plant. Since 2010 Kraftwerk Berlin has been using the 100-meter-long turbine hall for exhibitions and events The new energy facility is a modern combined-cycle power plant. It produces both electricity and district heating at the same time. Thanks to its historic location, the power plant is

### 17 Fichtestraße Gasometer | 1884

Illuminating gas for Berlin's streetlights started being stored here in SIRs. The city's last remaining brick gasometer was none one of low auch attractions. The changeover to electric streetlights in 1937 made the gasometer superfluous. In later page it was excerted into an eit real shallow. The old brick structure served as a more casing for the shelter's massive (down to the space), after which it served as a nursing home and a homeless sheller. After the blockade of West Berlin [1948/49] [see Route 2] it was used as a warehouse for the Senate Reserve. The gasometer was once again repurposed at the end of the Cold War, this time high-end apartments

on fours through the so-called Fichte-Bunker

#### Berlin Tenements

Industrialization brought people to the city. To meet Industrialization brought people to the city. To meet the massive housing demend around spoe, seen reigh-borhoods were built. The bypical Berlin apartment building consisted of a wing facing the street försten-haudi, acide wing [Sattenflipell, and a rear wing firsten-taws] grouped around a coortyparts deep. Another com-sent task seemed coortyparts deep. Another com-sent task seemed coortyparts deep. Another com-sense that the seemed coortyparts deep. Another com-bined of residential and commercial use. Middle-class a bland of residential and commercial use. Middle-class families tended to inhabit the Vonderhaus, whereas the Seitanflügel and Hinterhaus were reserved for the working class. Courtvards provided space for busiheases, either in small carriage bouses or in large structures. Horse stables and cowsheds were also or occurrent. Here existes and counters were also not uncommon in the courtyards – the horses to pull carriages, the cows to supply fresh milk. Heisrich Zille mimortalized the misery of such overcrowded tene-ments in his famous sketches.

### Deutsches Technikmuseum | 1983

Industrial Heritage at a Historic Rail Yard

Designown train tracks and platforms, two roundhouses, and a freight depot that once belonged to the Anhalter Bahnhof freight yard testify to this site's important role in transporta-tion history, inside the Deutsches Technikmuseum (German Museum of Technology) a detailed model shows just how large Mureum of Technology a detailed model shows just how large the historic rail yard was, shrinking from the Analasie Bahn-hof passenger station [see ]] to the York Bridges [see ]] and Budges []. However, the Bridges [see ]] is the York Bridges [see ]] is the State of the State of

### Anhalter Bahnhof Portico | 1880

The Anhalter Bahnhaf passenger station was a place of lenging for Berliners around soon. The first train bound for the Ductly of Anhalt departed from here, and did the "Rivieral Express." After the station was demolished (1959–61), the only thing left of Franz Schwechten's monument of urban railway architecture was the gortico of the main building. Electric arc lamps by Siemens made the old entrance hall so bright that, as one contemporary witness raved, "you could read the tinies print." An important safety factor for railroads is the ability to transmit information about the progress of trains and break-downs. The telegraph technology developed by Siemens came right on cue. Connecting trains with telegraph lines was one of

### Birthplace of Siemens | 1847 Siemens Building | 1915

For Steve Jobs and Apple It was a garage. For Siemens it was a small workshop in a rear courtyard. Here in the shadow of the Achalter Bahnhol station, the "Siemens & Halska Telethe Adnutive Batheide station, the "Siemens & Holiste Tele-graph Construction Company" began by transformation into the worldwide industrial concern we know today. The company established its bedoputertor here in your now it is home to the Tagesappeal newspaper. When the headquarters was moved to the neety created Siemensstatil per Bedue's I district in Spandau, the company still wented to retain a preventer in the historic location, close to the government district. Thus a representative office was built here in 1919 (from the Mövenpick Hebel).

#### Buchhändlerhof Substation | 1928 E-Werk | 1993–1997 ewerk | 2005

Bertin's second power plant (1885) was constantly expanded, and it quickly filled the limited space of the cramped courtyan in which it was built. The new three-phase technology allowe electricity to be generated on the edge of the city and transmi ted downtown with almost no loss of power. Substations wen ow necessary to transform that high voltage electricity into ower voltage and distribute it to a local network. Thus in 1996 lower vottage and datificate it to a local instructs. This in rigid the power plant became a publishion, providing electricity to Potastamer Plata and other locations. After the fall of the Berlin Walt, the oldest power generating facility in Germany was repurposed as E-Wark, a bethaples of the global schoor onve-ment. It now serves as an event various under the name ewerk.

From Samule Signated to Sometyborney.

The Masseum for Communication was originally founded in sidns on the world's first potent museum. The historic building separated to the patient of building many services and services and

### Scharnhorst Substation | 1927 Observation Foot for Street Lights

This substation has a special feature: a glass observation post as meters high for supervising the city's streetlights. Down to the 1940s, an employee decided the right time to turn the lights on and off. Hans Heinrich Müller, chief architect for the Bertin electric company Bewag, developed a modern style of architecture that venerated electricity as if it were holy. His "cathedrals of electricity" symbolize the great importance substations had for the city's rapid urban and industrial de

#### AEG Appliance Factory | 1890

Muclous of the Electrical Plower and Engineering Industrie
The Allgemeine Elektricitäts Gesellschaft (AEG) (see Roule 3), founded by Emil Rathenau, rose to become a world leader in the electrical engineering industry. This history is still reflected in its magnificent factory buildings. Starting in 1890, trend-setting appliances and electrical parts were produced here. The facade along Ackaratralia, designed by Franz Schwechten (Kaiser Wilhelm II's chief architect), features the forat ornamentation typical of histo

www.berliner-unterwellen.ds/an/

First Squays labors in serming:
A sign-mater furnest connected the AEB appliance factory with the
AEB Humboldhain Works. Electric trains transported both materials and workers between the two locations. The construction was surely useful, but it also served for demonstrate that a subwey ops-tern like the London Underground could be built in Berlin. In World It was an air raid shelter for the company's employees.

### AEG Humboldthain Works | 1894-1941

Motors, machines, and electrical appliances – the range of pred-ucts made at the new AEG location around spoo was enormous. Although constructed only a few years apart, there is an unmistakable aeathetic difference between the AEG appliance factory and the New Objectivity architecture of the buildings created by world-renowned industrial designer and architect Peter Behrens The monumental assembly hall for large machines is especially impressive. In 1984 the works closed and numerous buildings were demotished. Those left intact are now landmarked and cor

### 10 nboldt Substation | 1927

Rana Heinrich Müller took over the building division of flews Hans isleninch Müller took over the building division of Beways in spa. He designed substations at lover Berlin that were reminiscent of castles. For he was fascinated by Mariethary is the substated of the second of the second

### Groterian Villa | 1907

The malt beer specialties patented by Christoph Groterjan were the main attraction of the small brewery that opened at & Milastraße in 1897. A typical Berlin banquet hall with a nine pin bowling alley and a beer garden with room for 1,500 più boding alloy and a beer garden with room for 1 you gueste veer mendro to boost beer consumption. Right down the street, et a Milastralis, the horemanier built an ernative ride in 1902 as his principal bene and fusiciere build an ernative ride in 1902 as his principal home and fusiciere build an ernative ride in 1902 as his principal not wideling. A hosoidal and suggest factory moved into the pradiction hist. The benopes that first accommodated the "Milas Lichighalis" move theater and than until 1902, a rehearmal stape for the Volksholden on Rossa-Lustrebung Plazi. The system is more coupled by a horistimal store, and the villa is home to a restaurant.

### 5 Schönhauser Allee Elevated Railway | 1913

It is strange to think of a subway running over a viaduct. To avoid the technical difficulties involved in digging a tunnel under the Spree and local buildings in the early 20th century. the Berlin government opted for a cheaper alternative; an slavated railway. The elegant construction by U-Bahn architect Alfred Grenander was given the nickname "municipal umbrella," as it protected strelling city residents from the weather. When it was built, the viaduct was opposed by property owners concerned their buildings would shake shop owners worried about falling profits, residents dreading the noise, and passengers shocked by the proposed ticket prices. Today it is designated as a historic landmark.

### Schultheiss Brewery | 1878

Breehouse, horse stable, restaurant - these labels are still to prevenbules, notes exactor, residented - tries is speed are stoll to be found on the buildings that Franz Schwechten began erect in 1878 for one of the largest breweries in Europe. Workshop for disabled people, childcare facilities, and bath areas attast and stayed in business until 1968. Today the Kultur Brauerei is a place to eat, drink, and dance, it is also home to a movie theate a bicycle rental agency, and a museum devoted to everyday life

The Tourist Information Center also offers quided tours.

### Sinth of a firend

In 1853, a merchant named Jobst Schultheiss bought a small browery and became Berlin's most successful beer monger. New owners took over in 1864, but the name stayed the same. For Schulltheiss was by then a familiar brand. Very quickly. Schultheiss became one of larges brand. Very quickly, Schulluhisis became one of Largest industrial speraface in Berlin In It not only brewed beer but also council and an alternative services and an alternative services. It so when an and even the compact, it so who have and of the delivation of Germany manked brasks in the compacty is between the conservation of the services of t rei GmbH was created: it continues to brew traditional Schultheiss beer.

### Pfefferberg Brewery | 1844 Pfefferwerk | 1990/2002 Barwier Beer in Prussia

This between the solution energy fields right outside the city gate by Bravrian brewments. Dutting energy fields right outside the city gate by Bravrian brewmenter. Joseph Fletfer, a placeer of insulativit base prediction who brought for encipe for bentem-fermented larger beer to Berich. The affiliated beer garden briving durit! World WH. Is Schattless are equived the brewsery in yeap, and been production caused in year. The production facility was later heme to chrookate facing, a workseast belong, and.

#### the Pfefferwerk Verein zur Förderung von Stadtkultur, an organ ization devoted to revitalizing urban spaces, developed idea or a social and cultural center. And they proved successful Today the brewery is a hub of arts and culture and also beasts various accommodation and nightlife options. A new brawput is once again serving up beer brawed on the premises. And the architecture of the beer garden still reflects the atmosphere of

### The Stiffung Pfefferwerk offers tours upon request.

Two other former broweries are located nearby Konigsstadt Brewery (1850) | Saarbrücker Straffe 24 | www.pidak.de Bitzow Brewery (1876) | Prenzlauer Alleo 242 |

Acques south sector for centuries, waterways were the missi important transport routes to and from Berlin. Traditional steam hugs, historic barges, and excitacip passenger beats moved at the historic barbor near the Molleddown Lock voide this history. This location is the historic can of Berlin, which is medieval transis was a more soland on the Spres. The city was first mentioned in which was considered to the solar transition sources in out, This handow file appeared in a charter is the source of the saying, "Barges built Berlin," Around 1900 loads of bricks so desperately needed for residential build-ings were brought from Brandenburg to Berlin by steam lugs and barges. Coal was shipped from Lusatia and Silesia to the and bargers. Coal was shipped from Custalia and Sileskia to the energy-hungy methopolis. Today, the habotor in run by around too volunteers from the Berlin-Brandesburg Schrifffehrer. They marked the habotoris boats and organize worsts. Proceeds from the Lotte Foundation are currently being used for remain the whibitions and information benefits, future plans include reopening the restaurant boat and creating a far-root along the lock to provide more speake for violence on Enterlement.

#### There is an exhibition in the carpo hold of the barge "Resulte Appeliks"

Steamboal cruises mark the beginning and end of the season Historic steamboals take passengers to Köpmick and back.

### Höfe am Südstern | 1908

The Höfe are Sidshern are an example of courtyards with upscale commercial space flanked on both sides by elegant apartment buildings facing the attrest. The peah building on Hasesheide has a front yard. Each floor has a six-room apartment with a maid's room and separate servant acces The apartment building on Körtestraße is much more modes In between are four courtyards dedicated to commercial space, suitable for different kinds of businesses. This comple marks the final stape in the development of Kreuzberg Mis architecture. It is characterized by rear buildings with larg windows and courtyards with vehicle access to both str wondows and courty-ords with vehicle access to both streets. Today, the courty-ord commercial spaces are a prestigious location for businesses of all kinds. An old villa in the second courty-ord, once home to a manufacturing family, in now used by an advertising agency.

#### IMAGE CREDITS

# **Public Feedback**

"The descriptions are neither too detailed nor too brief, and include special tips!"

"The routes are well designed, in terms of locations and paths.

Truly excellent!"

"Why did I never notice these fantastic buildings before?

Now I finally know what they are!"

"The combination of history, culture, and nature makes the bike routes a special experience!"

"We are very enthusiastic.

The tours are
informative in a really good way."

"I discovered streets and places that I had never seen before."



# How did we achieve this?

# **Cooperation and collaboration!**





# **Expert advice**

# What did we learn?

# Inside knowledge about

- Germany's industrial heritage bike routes, e.g. in Ruhr Region
- Berlin's cycling infrastructure
- Berlin's requirements for route signposting
- "State of the art" developments in
  - > storytelling
  - > marketing
  - > digital communication media
- Target groups
  - > city explorers and adventure seekers
  - > history enthusiasts and knowledge seekers





# Joint action

# Clear division of tasks

# **Berlin Centre for Industrial Heritage (bzi)**

**Industrial Heritage** Competence Center

- develops bike routes
- creates communication media

# Berlin Senate Department for Transport Cycling Competence Center

- integrates the routes in Berlin's cycling infrastructure
- implements directional signage

### visitBerlin

### **Marketing** Competence Center

includes the routes in city marketing







Sightseein

Eve

Accommodation & Travel deals

Tickets & tours



### For more Berlin: go here!

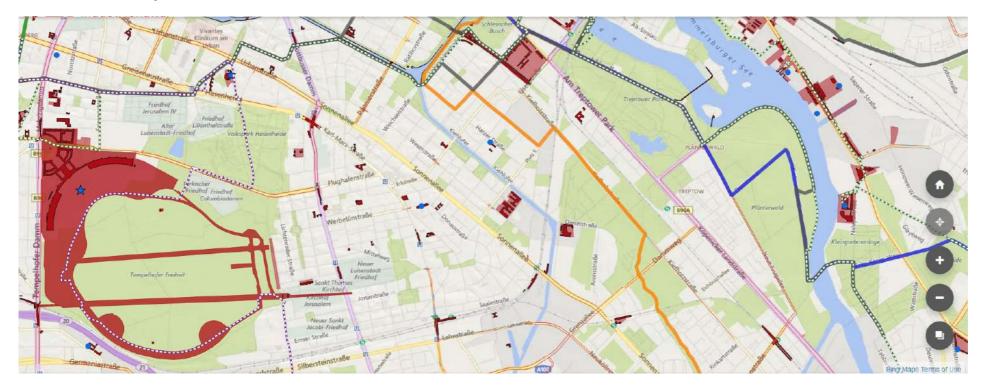
Cycle through Berlin on your own - and away from the tourist hotspots. These eight bike routes turn Berlin into a giant open-air museum of industrial heritage. We have selected the most beautiful routes, the most interesting places and the most exciting stories for you.

DETAILS & BOOKING



# Digital planning tool Spatial visualization

- we put two layers of information on top of each other
  - > Berlin's bicycle network
  - > Berlin's industrial heritage monuments
- we developed the first draft of the route on screen





# Informal cooperation Test rides by bike

# **Around 100 test cyclists**

- Funding bodies
- Cycling experts (senate and district level)
- Tourism experts (visitBerlin and district level)
- Industrial heritage experts (institutes, associations)
- Stakeholders from 140 sites (that are part of the 8 routes)
- Marketing partners (e.g. tour guides)
- "Ordinary" cyclists
- > Feedback on bike paths
- > Feedback on site descriptions
- > Feedback on route stories





# Our success factors

# **Close involvement of funding bodies**

We regularly updated the Berlin Senate on the project development.

# **Close exchange with experts**

We regularly spoke from concept to implementation with all relevant partners.

### **Broad participation**

We ensured quality through the outside perspective of test cyclists.

# **Enthusiastic multipliers**

Many of the involved partners became marketing multipliers who are promoting the bike routes on their own communication channels.





# Conclusion





Foto: Thomas Kierok





https://industriekultur.berlin/erleben/fahrradrouten







