Welcome to Hamburg!

Hinnerk Stüben



Universität Hamburg

DER FORSCHUNG | DER LEHRE | DER BILDUNG

NEC User Group Meeting

Hamburg

12–14 June 2024

Acknowledgement

- All pictures and maps from Wikipedia / Wikimedia.

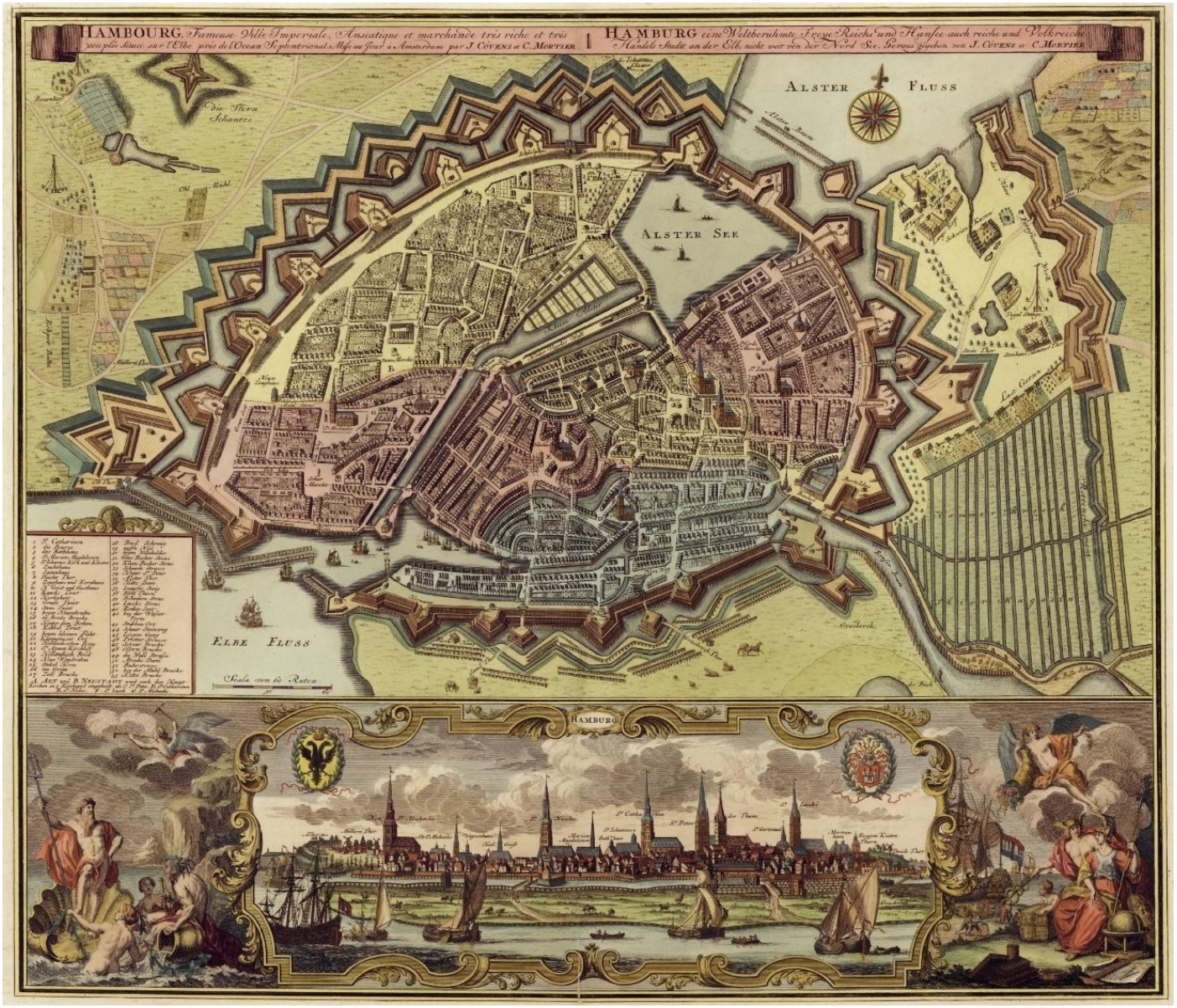
Hamburg – Germany's "Gate to the World"



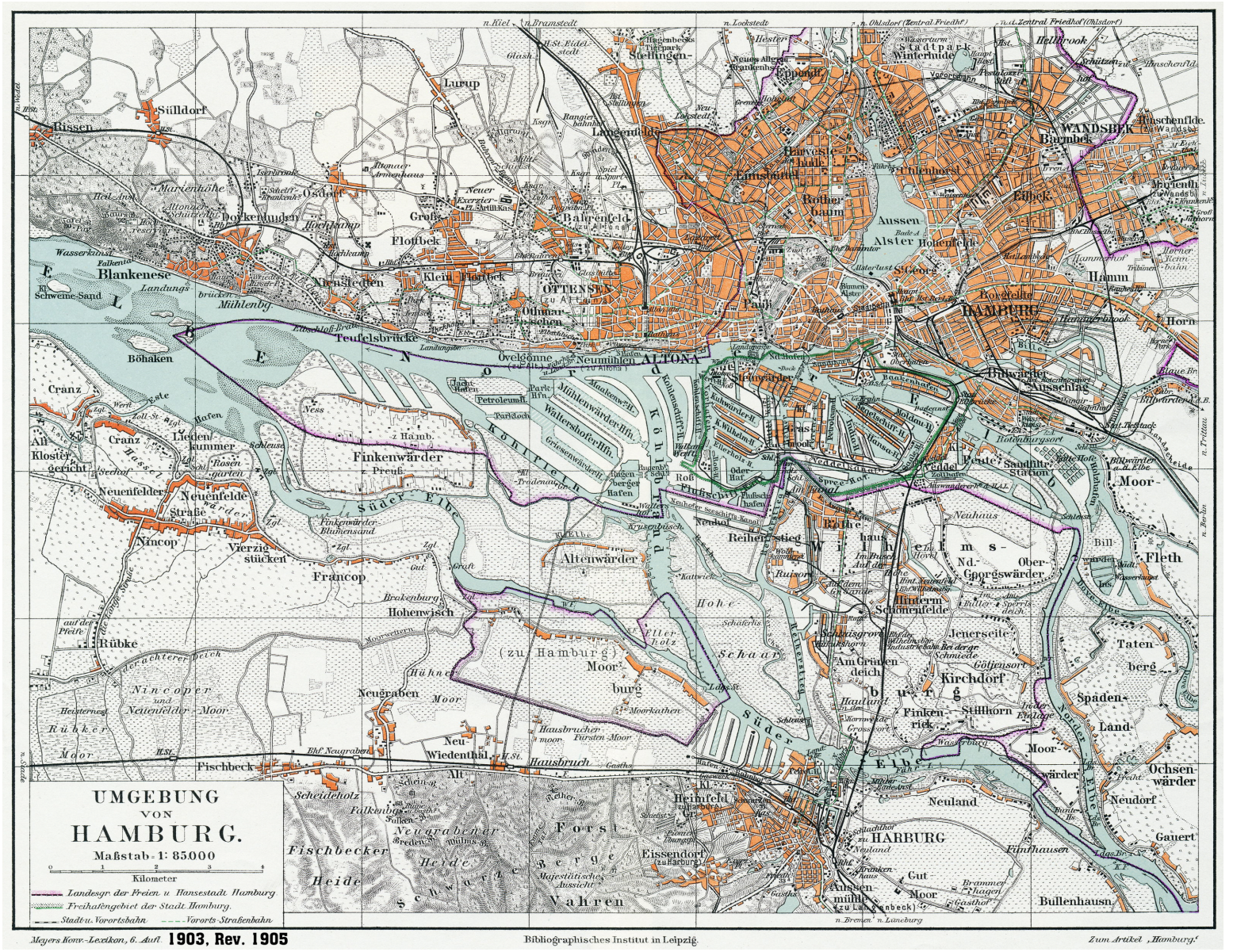
Hamburg – Germany's "Gate to the World"



Hamburg in 1730



Hamburg in 1905



Hamburg today



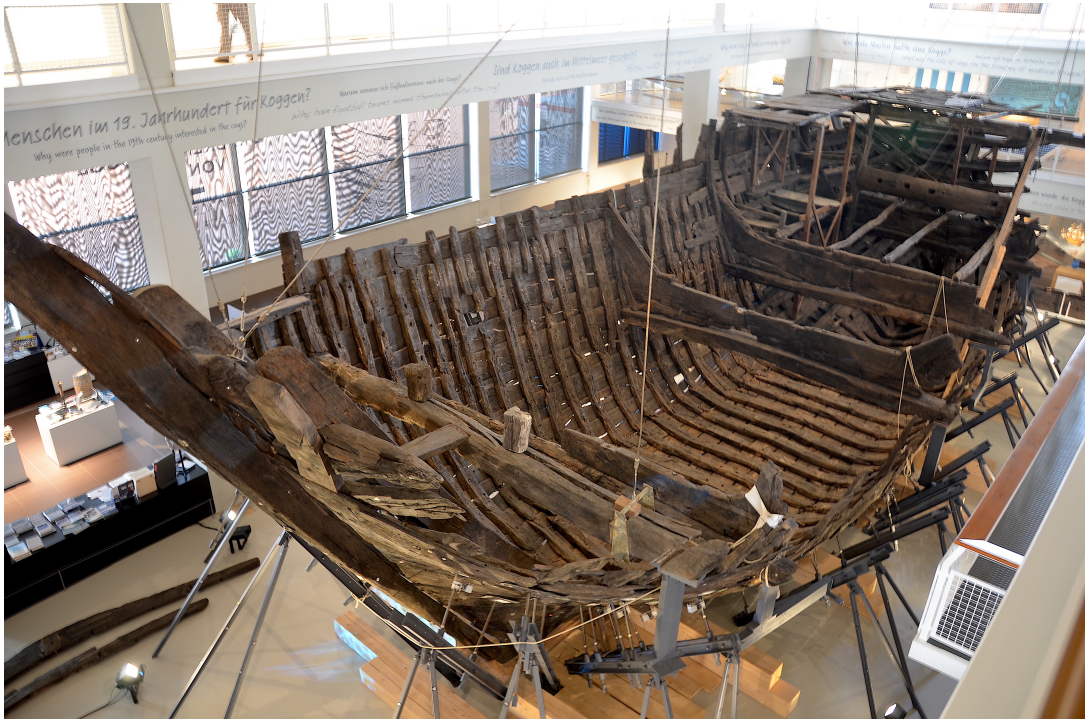
Free and Hanseatic City of Hamburg

- Free
  - means a *free imperial city* of the *Holy Roman Empire*
- Hanseatic City
  - refers to the medieval *Hanseatic League*
- today
  - Hamburg is a *city state* of Germany

The Hanseatic League (13th to 16th century)



Hanseatic cog





Rickmer Rickmers (launched 1896)



Speicherstadt (built from 1883 to 1927)





Container ships



Container terminal



Barkasse



Industries

- founded in Hamburg
  - Hapag-Lloyd (shipping, HAPAG founded 1845, Norddeutscher Lloyd founded 1875 in Bremen, merged 1970)
  - Arubis (metals and mining, predecessor Norddeutsche Affinerie AG founded 1866)
  - Blohm & Voss (ship building, founded 1877)
  - Beiersdorf (consumer goods, founded 1872)
  - Otto (retail, e-commerce, founded 1949)
  - Tchibo (coffee retailing, founded 1949)
  - Lufthansa Technik (aircraft maintenance, founded in 1995)
- headquarters in Hamburg
  - Philips Germany (founded 1926 in Berlin)
  - Airbus (manufacturing plant in Hamburg-Finkenwerder)
- others
  - petroleum oil refineries (located in Hamburg-Harburg)
  - NXP semiconductors, Nexperia (factory in Hamburg-Lokstedt)

A few numbers

- people
  - 1.9 million inhabitants (2nd-largest city in Germany)
  - 1.3 million jobs (30 % commuters)
- port
  - 3rd-largest in Europe
  - 34 % of German exports
  - 7.7 % of German imports
- bridges
  - $\approx$ 2500
- internationality
  - $\approx$ 100 consulates

Press and media city

- printed media
  - Die Zeit (founded 1946)
  - Der Spiegel (founded 1947)
  - Stern (founded 1948)
  - $\approx 50\,\%$ of nationwide magazines are made in Hamburg
- TV
  - Tagesschau (View of the Day, news and public affairs) is the oldest TV programme in Germany (started in 1952)
- German News Agency (founded 1949)

The Alster



The Alster


Ringkanal
Alster
Brabandkanal
Alster
Skagerrakkanal
Inselkanal
Eppendorfer
Mühlenteich
Stadtparksee
Leinpfad-
kanal
Alster
Barmbeker
Stichkanal
Goldbekkanal
Mühlenkamp-
kanal
Osterbekkanal
kanal
Rondeel-
teich
Rondeelkanal
Isebek-
Langer Zug
Hofwegkanal
Feenteich
Uhlenhorster
Kanal
Eilbekkanal
Außen-
alster
Munds-
burger
Kanal
Kuhmühlenteich
Binnenalster
1000 m
Innerstädtische Alsterkanäle
in Hamburg

Kleine Alster – Little Alster



Binnenalster – Inner Alster



Außenalster – Outer Alster



The river Alster



Frozen Alster (2012)



Rathaus – Town hall (1897)



Main churches (mostly 12th to 13th century)







Historic houses, Nikolaifleet / Deichstraße



Historic houses, Petersstraße



Historic houses, Krameramtsstuben



The Great Fire (1842)



World War II



North Sea flood in 1962



North Sea flood in 2013



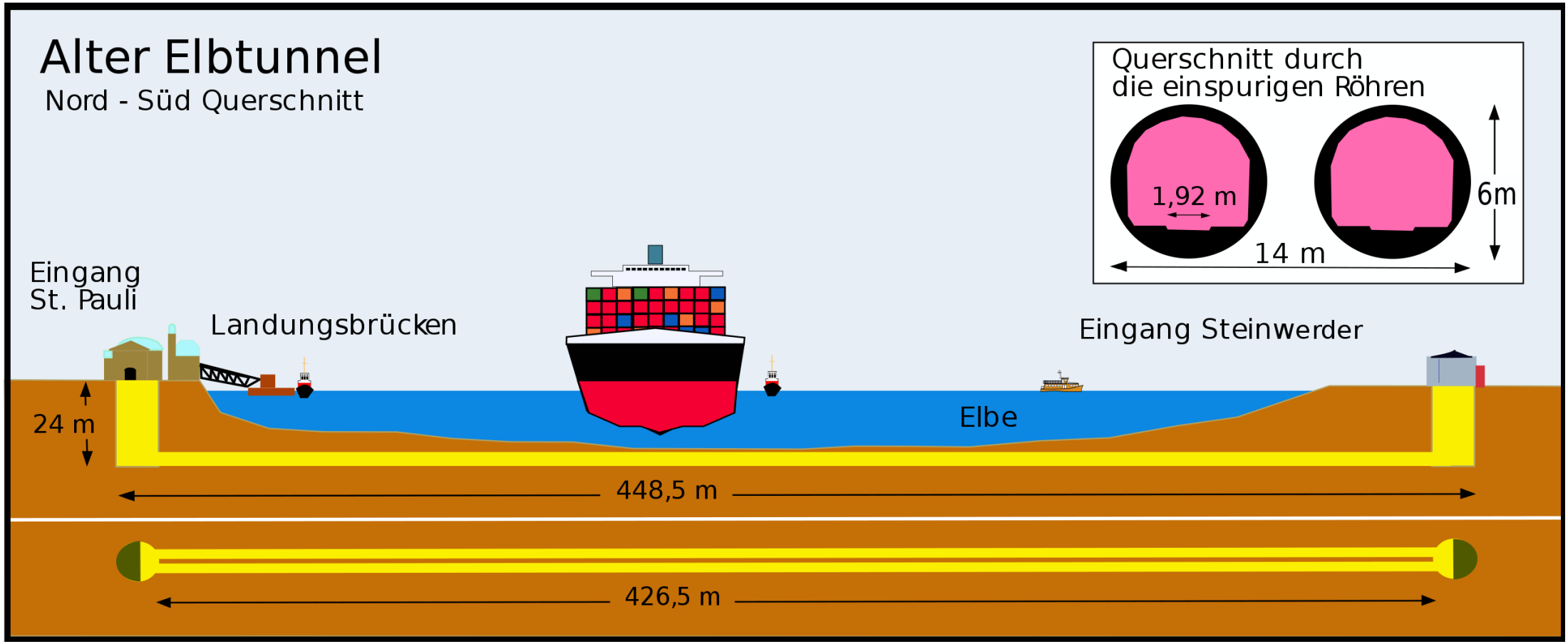
Helmut Schmidt (1918–2015) 1976



Helmut Schmidt (1918–2015) 2014



Elbtunnel (1911)



Elbtunnel (1911)



Elbtunnel (1911)



Elbtunnel (1911)



Elbtunnel (1975)



Elbbrücken



Main station (1906)



Main Station



Underground (Rödingsmarkt, 1912)



Underground (Rödingsmarkt, 1912)



Underground (HafenCity, 2012)



Chilehaus (1924)



TV tower (1968)



HafenCity



HafenCity



Classical music – Elbphilharmie (2016)



Classical music – Laeiszhalle (1908)



Musical theatres



The Beatles in Hamburg (1960–1962)





St. Pauli / Reeperbahn / Große Freiheit



Funfair / Hamburger Dom



Zoo / Tierpark Hagenbeck (1907)



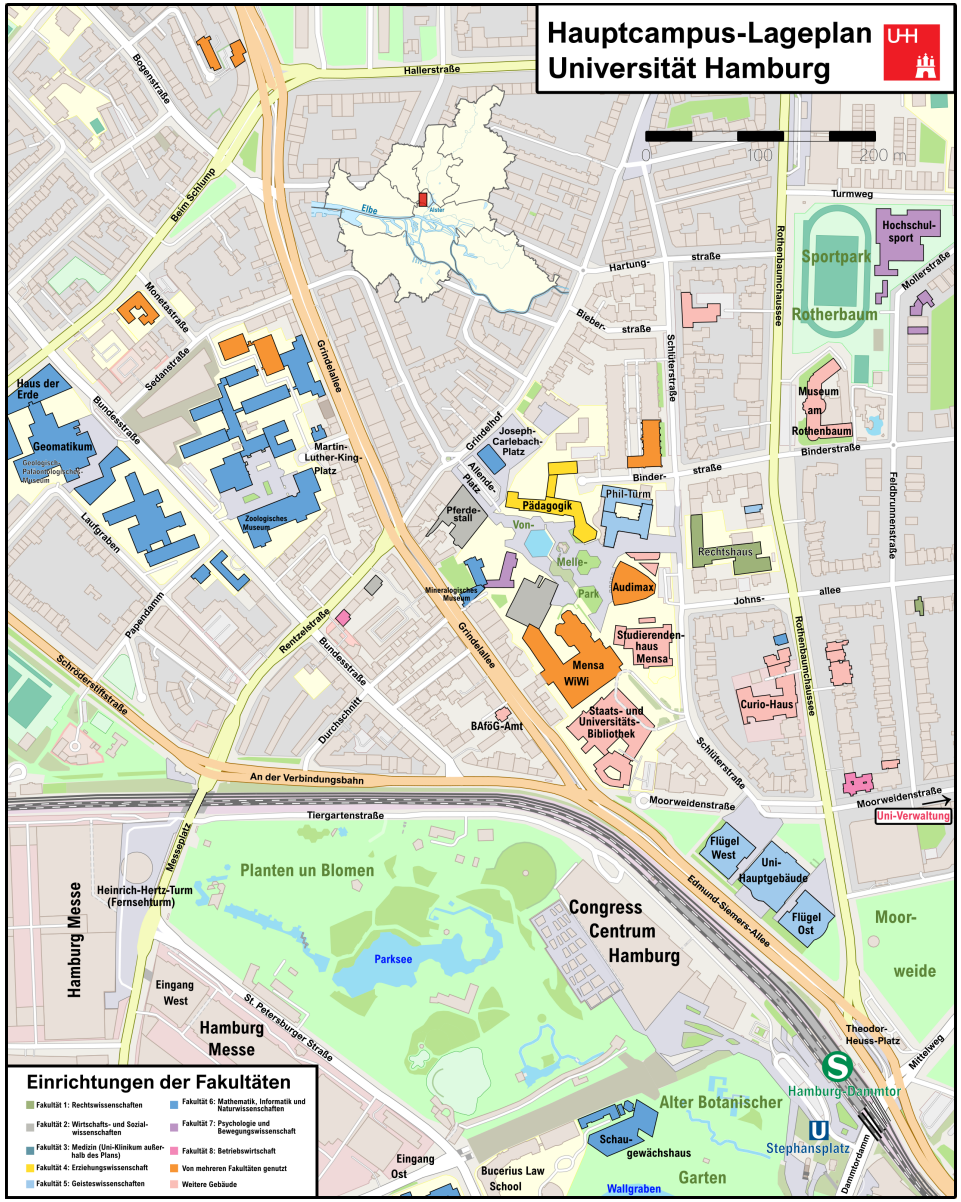
Miniatur Wunderland

$\longrightarrow$ https://www.miniatur-wunderland.de/

Universität Hamburg, main building (1919)



Universität Hamburg



Universität Hamburg, campus Von-Melle-Park



Universität Hamburg, Auditorium Maximum (1959)



Protests of 1968

- see:

  https://de.wikipedia.org/wiki/Unter_den_Talaren_%E2%80%93_Muff_von_1000_Jahren

- the picture can be downloaded from:

  https://www.uni-hamburg.de/newsroom/campus/2017-11-08-unter-den-talaren.html

Bergedorf Observatory (1909)



University Hospital Eppendorf (UKE)



Technische Universität Hamburg



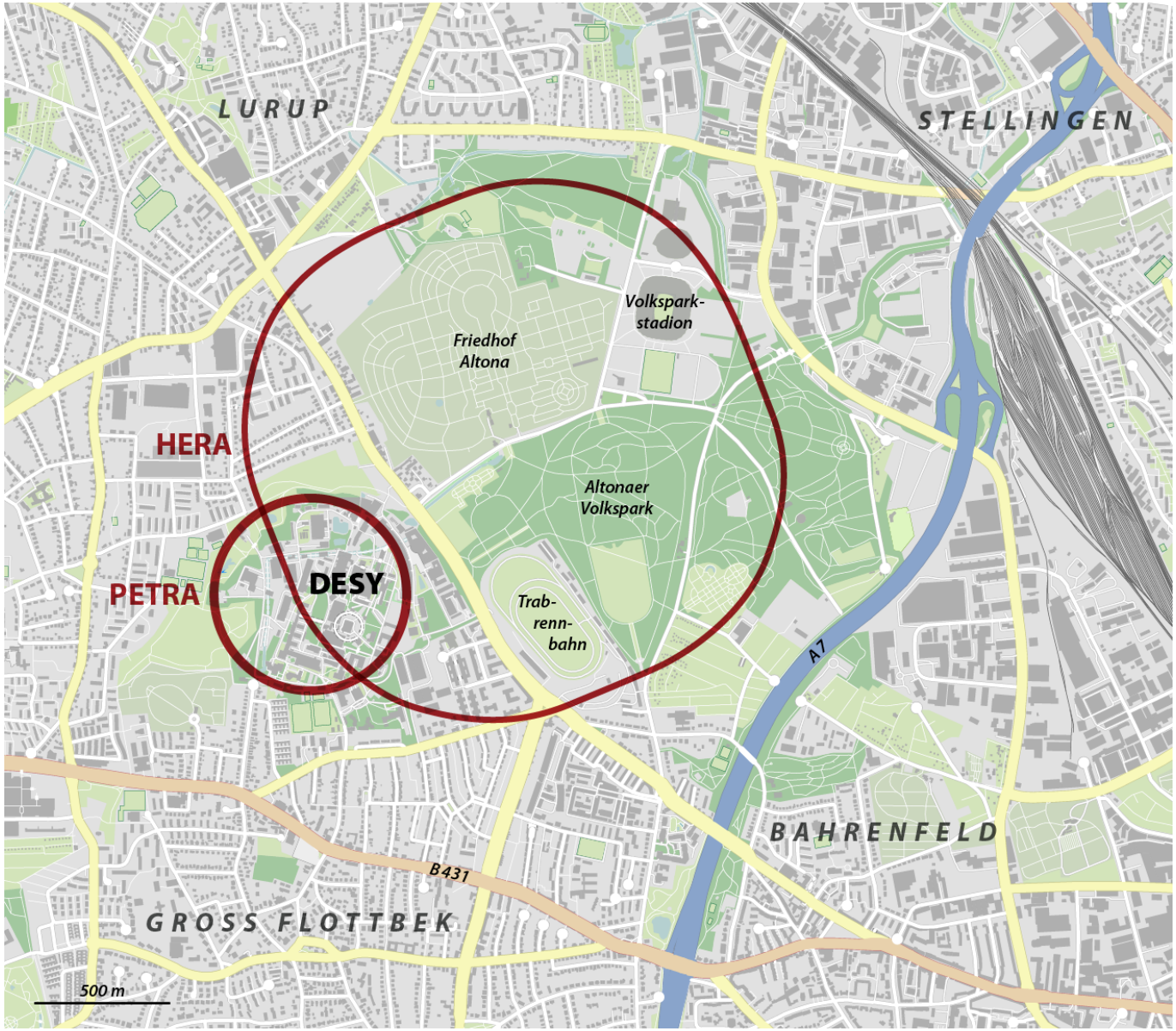
Helmut-Schmidt-Universität / Universität der Bunderswehr Hamburg



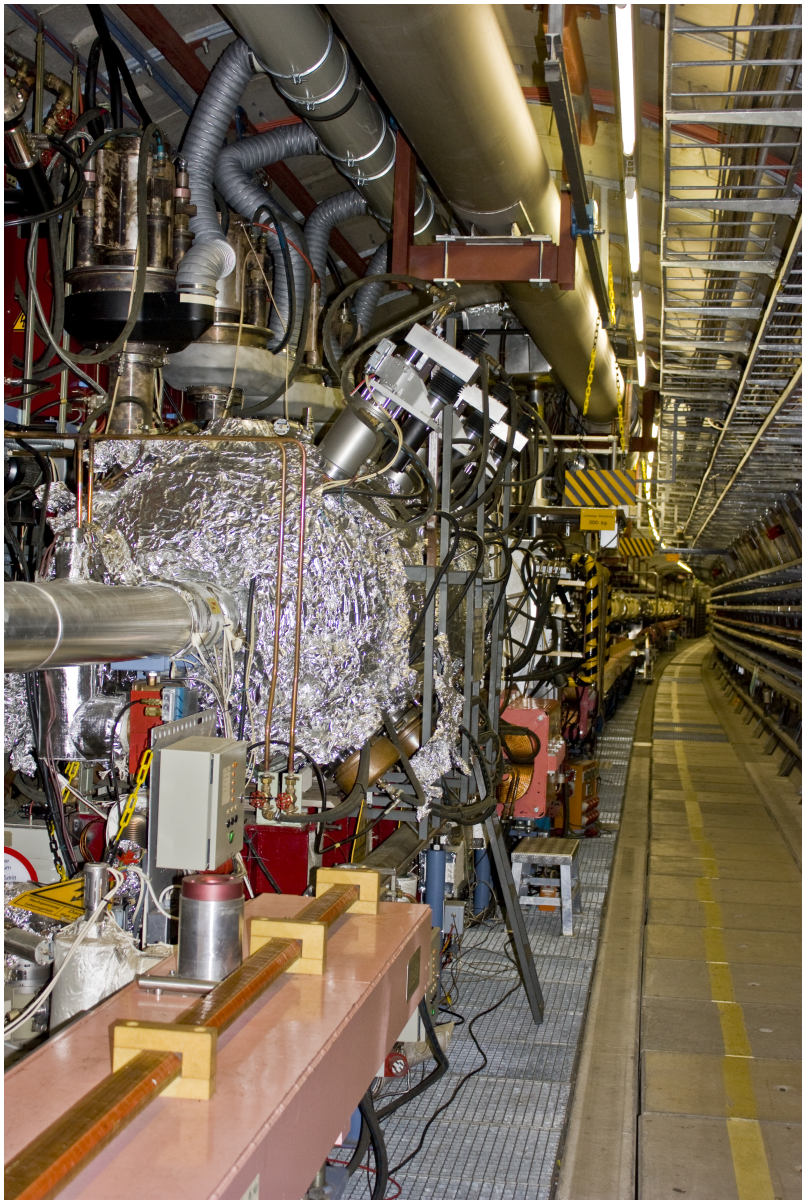
HafenCity Universität



DESY – Deutsches Elektronen-Synchrotron



DESY, HERA particle accelerator (operated 1992–2007)



DESY, PETRA II experiment hall



DKRZ – Deutsches Klimarechenzentrum



New NEC HPC Cluster



New NEC HPC Cluster

