



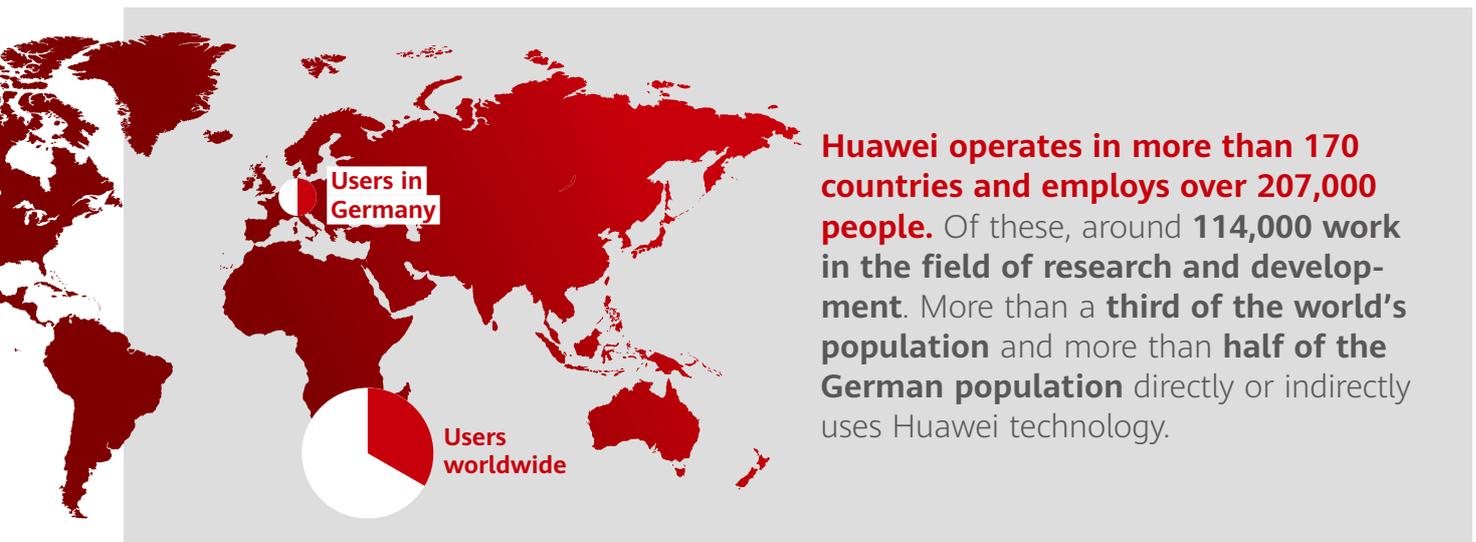
HUAWEI TECHNOLOGIES

Company profile

ABOUT US

Huawei is a leading global provider of solutions for information and communications technology (ICT). With its six business units – **Connectivity, Computing, Devices** (end devices such as laptops, smartphones and wearables), **Automotive, Digital Power, Cloud**, Huawei addresses three customer groups – carriers (network operators), enterprises (corporate customers) and consumers (end users).

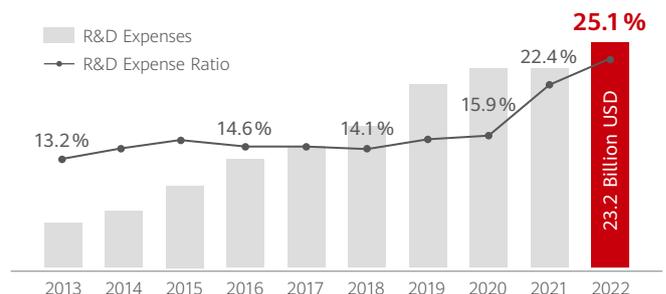
Connectivity
Computing
Devices
Automotive
Digital Power
Cloud



In 2022, the company generated sales of approx. USD 92.4 billion and a profit of approx. USD 5.1 billion. Huawei continues to increase its investment in research and development. **In 2022, it invested USD 23.2 billion, representing 25.1% of total annual revenue.** This brings total R&D spending over the past 10 years to more than USD 140 billion.

R&D Expenses Over Past 10 Years

Huawei Investment & Holding Co., Ltd



Note: All amounts were converted into USD using the closing rate at the end of 2022 of US\$ 1.00 = CNY 6.9533



Huawei occupies **fourth place** in the **EU Industrial R&D Investment Scoreboard**, which the European Commission published in December 2022.



Huawei takes **96th place** in **Fortune Global 500 ranking 2022**.

The company has **45 of the 50 largest telecommunications operators in the world among its customers**.

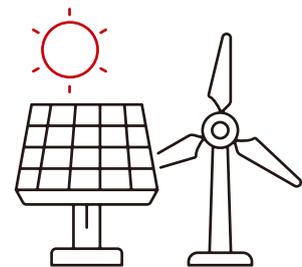


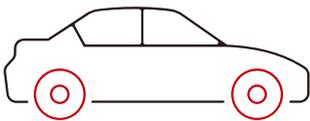
Huawei is a fully **privately owned company** that is **100 percent owned by its workforce**.

In October 2014, Huawei was the **first Chinese brand to be included in the list of the top 100 brands** in the Interbrand ranking.



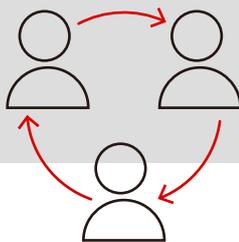
The vision of the **Digital Power business unit** is to **digitize energy supply** in order to contribute to a smart and green future through technological innovations to contribute to a smart and green future. By December 2022, Huawei Digital Power has helped its customers to generate more than 695 billion kWh of green electricity and and save 19.5 billion kWh of electricity. This has reduced their CO₂ emissions by 340 million tons, which is equivalent to planting 470 million trees.





Huawei is increasingly integrating **ICT** into the automotive industry and helping automotive manufacturers to develop digitally connected vehicles through **smarter vehicle components**. In May 2019 Huawei established the **Intelligent Automotive Solution Business Unit (IAS BU)**. By the end of 2022, it had launched more than 30 intelligent automotive components on the market, including innovative solutions for **intelligent driving, intelligent cockpit** and an **open platform for autonomous driving**. Huawei itself does not manufacture cars, but instead supports automotive manufacturers in building better vehicles.

Huawei has a **rotation system** in which **three board members** – Ken Hu, Sabrina Meng, and Eric Xu – rotate at the top of the company every six months. The Chairman of the Board of Directors is Howard Liang.



The company is **headquartered** in **Shenzhen**, China. Huawei was founded in **1987** by **Ren Zhengfei**.





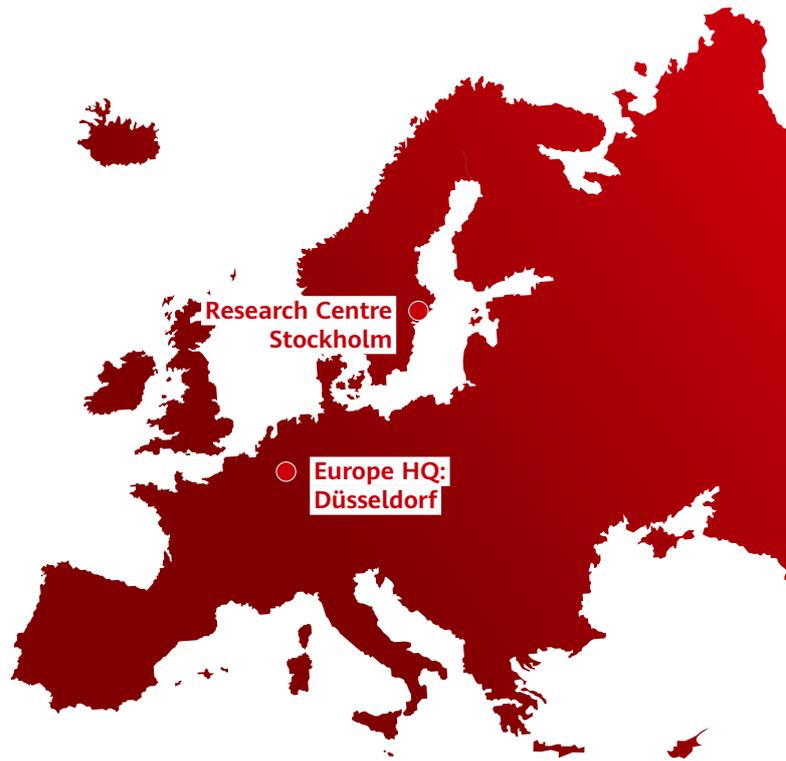
HUAWEI IN EUROPE

The **opening of a research centre in Stockholm began Huawei's activities in Europe in 2000**, which is now considered **the company's most strategic market alongside China**.

Today, the company employs more than **13,300 people in Europe**, **70 percent hired locally**.

Revenue in EMEA amounted to **USD 21.5 billion** in 2022.

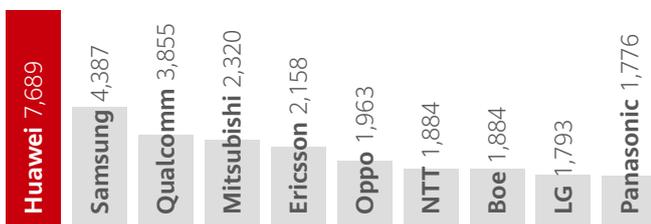
In terms of the number of patents granted in 2022, **Huawei is ranked number one in both the Chinese Patent Office and the European Patent Office**.



Globally, Huawei filed 7,689 patent applications with the World Intellectual Property Organization (WIPO) in 2022. At the end of 2022, Huawei held more than **120,000 valid patents in over 45,000 patent families worldwide**.

More than **2,500 employees work in Huawei's 31 European research facilities**, spread across **13 European countries**.

Leading companies in international patent applications in 2022



Sources: WIPO Statistics Database, 2022

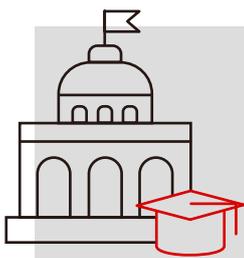
Lu Yong is President of **Huawei Europe**.

The company's **European headquarters** are **based in Düsseldorf**.



HUAWEI IN GERMANY

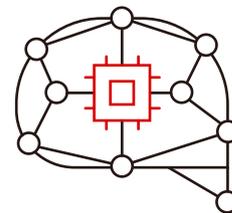
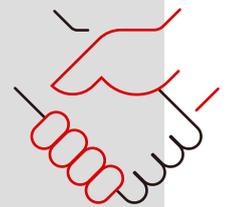
Huawei has been active **in Germany since 2001** and employs more than **2,000 people** at **22 locations in 15 cities**.



Huawei is also **focusing on research and development** in Germany. To this end, it has entered into **cooperations with numerous universities and research institutions**, including the RWTH Aachen University of Applied Sciences, the Technical University of Munich and institutions of the Fraunhofer Society. In Munich, **Huawei maintains the Munich Research Center (MRC)**, the company's largest research centre in Europe with over **400 researchers**. In addition 170 additional researchers are employed at our R&D centers in Dresden, Nuremberg and Weilheim. In total, Huawei conducts research at **31 sites in Europe**.

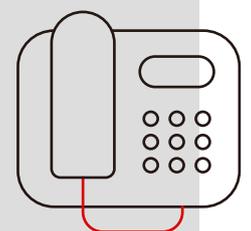
The company has a **broad customer base** in Germany, from the **major mobile network operators** to **regional network operators** and **industrial companies**.

Since 2006, Huawei has entered into more than **228 collaborations on research projects in Germany, with a total of 54 different institutions**.



Since 2020, Huawei has been offering **AI training based on the AI processors of the Huawei Ascend series** at the **Karlsruhe Institute of Technology (KIT)**, the **TU Kaiserslautern, TU Dresden** and **TU Clausthal**.

Huawei is a long-standing **technology partner** of **Deutsche Telekom, Vodafone** and **Telefónica** for mobile and landline network expansion.



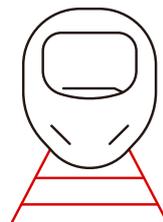
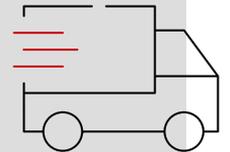
Huawei is a dedicated partner to German politics and business, including through its active participation in

- BITKOM – Bundesverband Informationswirtschaft Telekom-
munikation und neue Medien e.V.
- VATM – Verband der Anbieter
von Telekommunikations- und
Mehrwertdiensten e.V.
- BREKO – Bundesverband
Breitbandkommunikation e.V.
- BUGLAS – Bundesverband
Glasfaseranschluss e.V.
- eco – Verband der deutschen
Internetwirtschaft e.V.
- Deutsche Breitbandinitiative
- DsiN – Deutschland sicher im Netz e.V.
- German Datacenter Association e.V.
- Wirtschaftsrat der CDU e.V.
- Wirtschaftsforum der SPD e.V.
- Nationaler Digitalgipfel
- Initiative D21 e.V.
- MINT Zukunft e.V.
- acatech – Deutsche Akademie
für Technikwissenschaften
- Allianz für Cyber-Sicherheit
- LAG – Logistics Alliance Germany
- Verband Deutscher
Wirtschaftsingenieure e.V.
- MÜNCHNER KREIS –
Übernationale Vereinigung für
Kommunikationsforschung e.V.
- BSW Bundesverband Solarwirtschaft e.V.
- Bundesverband Energiespeicher Systeme e.V.
- Deutsch-Chinesische
Wirtschaftsvereinigung e.V.
- bne – Bundesverband Neue
Energiewirtschaft e.V.
- Die Chinesische Handelskammer
in Deutschland e.V.
- ZVEI – Zentralverband Elektrotechnik-
und Elektronikindustrie e.V.



At the Hanover Trade Fair 2021, Huawei joined forces with **FORCAM**, a partner for lean management solutions, and **TRUMPF**, a partner for plant locations, to present **wireless factory solutions**.

In the enterprise business, we offer ICT solutions among others for the retail sector, public institutions, the financial industry, the healthcare sector, and for companies in the transport and logistics sector. Customers include, for example, the retail company Müller, Asklepios Kliniken, and the Max Planck Institute for Heart and Lung Research in Bad Nauheim.



Huawei and its partners supply **Deutsche Bahn** (the German national rail) in the field of rail **communications technologies** (GSM-R solutions).



In February 2021, it was announced that Huawei, together with **Deutsche Telekom**, would set up one of the **largest 5G campus networks in Europe** on the premises of the German Trade Fair grounds in Hanover. Huawei delivers RAN technology. 1.4 million square metres of trade fair grounds will be equipped with 5G.



In November 2011 Huawei **was the first company from China** to open a **representative office in Berlin**.

The **Dresden Research Center (DRC)** serves as a **research location** in the field of software.

Düsseldorf: Germany and European Headquarters

In November 2018, Huawei opened its **Security Innovation Lab** in Bonn to work **closely with German industrial partners, research institutions and specialist authorities**. The main objective of the laboratory is to minimize the **cybersecurity risks of future information and communication technologies** and to contribute to **certification and global standardization** in the field of security.

More than **80 employees** work at the **Manufacturing Technology Center in Weilheim**, focusing on collaboration between German suppliers and partners, research and development of manufacturing process technologies, as well as testing and trial runs for Huawei components.

Nuremberg Research Center (NRC) with **Power Conversion Technology Lab** and showroom for **Digital Power Solutions** as well as a **PV Proof of Concept Lab**

Munich: Headquarters of Germany's largest research centre

In **Munich**, Huawei also runs an **OpenLab**, which enables **local industrial partners and customers in Europe** to drive forward **digital innovation**. Together, leading industrial partners in Munich are working on solutions for digital production, including **the use of 5G and WiFi6**.

Huawei opened a **Digital Competence Center** in **Saarbrücken**, Germany in November 2021. Here, a **team of proven experts works with partners from research, science and business across Germany and beyond its borders** in the fields of **artificial intelligence and cybersecurity**.



With its **Digital Seeds program**, Huawei enables **students** from German universities to gain **insights into China's largest private company** and to get to know the innovative technology scene and entrepreneurship culture on site.

Huawei's head of Germany is **Tommy Zhou** (CEO, Huawei Technologies Deutschland GmbH), **Walter Haas** is **CTO**, **Dr. Michael Lemke** **CSO**, **Dennis Zuo** **Chairman of the Board** and **Ingo Veith** **VP and Head of Public Affairs & Communications**.

More information about Huawei can be found here:

<https://www.huawei.com/de/deu/huawei-deutschland>

<https://de.linkedin.com/company/huawei-germany>

https://twitter.com/huawei_germany

https://www.tiktok.com/@huawei_germany

<https://www.digitalseeds.de>

Note: The percentage changes compared to the previous year were calculated in CNY. The amounts have been converted into USD at the closing rate of 31 December 2022 of USD 1.00 = CNY 6,9533. The figures have been rounded to the nearest 0.1 billion CNY/US dollars.