



## Seven facts about artificial intelligence:

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### 1.) The cradle of artificial intelligence

The term “artificial intelligence” was coined at a workshop held as part of a research project on artificial intelligence at Dartmouth College in New Hampshire in 1956. Today, the Dartmouth Conference is considered the inaugural meeting for research into artificial intelligence.

### 2.) The great unknown

Big data is a concept that most Germans know nothing about. According to TNS Infratest, 74 percent have never heard of it, while only 9 percent feel able to offer an explanation of what the phrase means. Big data refers to huge amount of data, which is captured, analyzed, and processed. It is the basis for artificial intelligence.

### 3.) Learning from millions of images

Deep learning is an aspect of machine learning that relies on a multi-layered neural network inside a computer, with a structure reminiscent of the human brain. While a small child needs only experience a few cats to then recognize all cats as such, the computer needs to see millions of cat pictures before it can recognize a cat.

### 4.) Smart assistants

The market research organization Gartner predicts that by 2024, some 10 percent of activities with the potential to endanger human lives will be performed by smart systems. One example is assistance systems in vehicles. These will enable future vehicles to communicate more effectively, detect their surroundings more accurately, process data more rapidly – and eventually drive completely autonomously.

### 5.) As clever as a human being

Experts are expecting to create an artificial intelligence that is on a par with human intelligence before the end of this century.

## **6.) Bosch Center for Artificial Intelligence**

In the period to 2021, Bosch will invest some 300 million euros in the Bosch Center for Artificial Intelligence, with around 100 experts researching artificial intelligence at three locations (Bengaluru, Palo Alto, and Renningen).

## **7.) Future Bosch products will be intelligent**

Ten years from now, scarcely any Bosch product will be conceivable without artificial intelligence. Within just five years, products featuring artificial intelligence are expected to account for 10 percent of Bosch sales.

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*The Bosch Group is a leading global supplier of technology and services. It employs roughly 390,000 associates worldwide (as of December 31, 2016). According to preliminary figures, the company generated sales of 73.1 billion euros in 2016. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected industry. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to create solutions for a connected life, and to improve quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 450 subsidiaries and regional companies in some 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. The basis for the company's future growth is its innovative strength. At 120 locations across the globe, Bosch employs 59,000 associates in research and development.*

*The company was set up in Stuttgart in 1886 by Robert Bosch (1861-1942) as "Workshop for Precision Mechanics and Electrical Engineering." The special ownership structure of Robert Bosch GmbH guarantees the entrepreneurial freedom of the Bosch Group, making it possible for the company to plan over the long term and to undertake significant up-front investments in the safeguarding of its future. Ninety-two percent of the share capital of Robert Bosch GmbH is held by Robert Bosch Stiftung GmbH, a charitable foundation. The majority of voting rights are held by Robert Bosch Industrietreuhand KG, an industrial trust. The entrepreneurial ownership functions are carried out by the trust. The remaining shares are held by the Bosch family and by Robert Bosch GmbH.*

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