

# 10 breakthrough technology inventions in 2016

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Looking back at the top 10 breakthrough technology inventions that are highly appreciated by the scientific community in 2016.

## 1. Hyperloop One

Elon Musk has opened up for people a high-speed transportation system. This year, he has successfully released and tested Hyperloop One, a super-fast airship that can reach 186k ??/ h in just 1.1 seconds. Its maximum speed can reach 1288km / h and average speed reaches 970km / h, which means you can move from Sam Francisco to Los Angeles in just 35 minutes. This is really a revolution in passenger transport speed.



The average speed of an existing commercial flight in the world is 925 km / h.

## 2. Passive Wi-fi

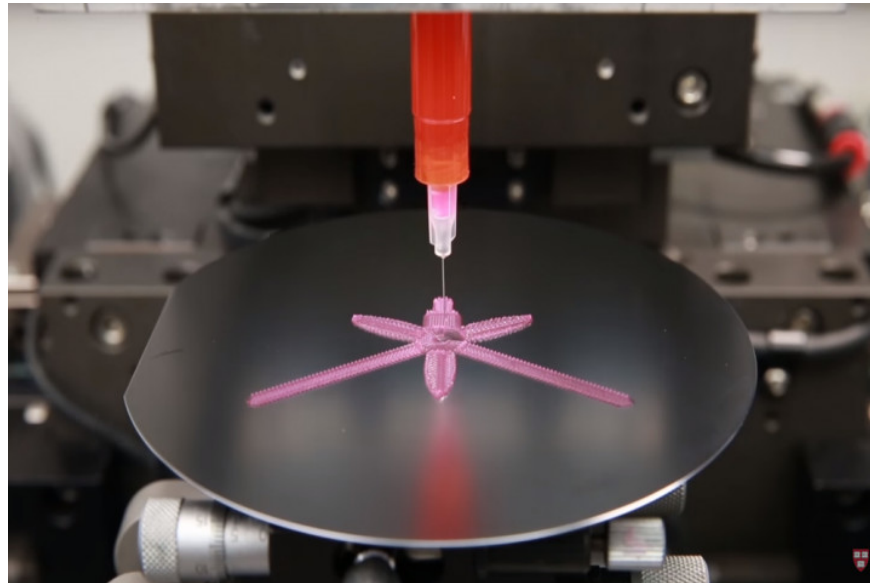
Researchers and students at Washington University have found new ways to use energy-saving wi-fi 10,000 times more commonly known as passive wi-fi.



Although the network speed may be slower, this is nothing compared to the tremendous benefits that passive wi-fi gives the battery. This new technology is expected to help the idea of home automation and smart home applications more useful.

### **3. 4D printer**

While 3D printing technology has just begun to be accepted and applied in life, scientists have launched 4D printing technology. This new printing technology is still based on the principles of 3D printing technology but is more complete.



With 3D printers, we can create a 3D space object but with 4D printing technology, the printed objects can also change shape over time. Because of the creation of special materials, the products of 4D printing technology will transform into other shapes when stimulated by one touch or an electric current.

4D printing technology will print the future of the world.

### **4. Drone carrying people**

Currently, Drones are quite popular and widely used in the world. The fact that robots can fly like unmanned aircraft is no longer strange, but what if a Drone can transport people from one place to another like a taxi?

The drone manufacturing companies have produced a new generation of drones that can transport people as a personal means of transportation.



If you intend to own a drone, you need to remember that it is completely different from a flying car. You can control your flying car but with this drone its route is pre-programmed and only carries one person.

## **5. High-level artificial intelligence, AlphaGo**

AlphaGo is Google's artificial intelligence software that has been beaten by the Korean world champion.

In the past, artificial intelligence defeated chess-based people and chess, but it was a big step for Go. Because the flag is extremely complex with countless tactics, far from chess. With the victory of AlphaGo, people are getting closer to real artificial intelligence.

## **6. HDMI Alt Mode**

## HDMI Over USB-C

Connect a Native HDMI Source Directly to an HDMI Display.

No Adapter. No Converter.



HDMI Alt Mode a device will help you connect to any device using USB-C port to devices using HDMI port. You won't need any other adapter or hardware to connect your smartphone, just one cable and all will be resolved.

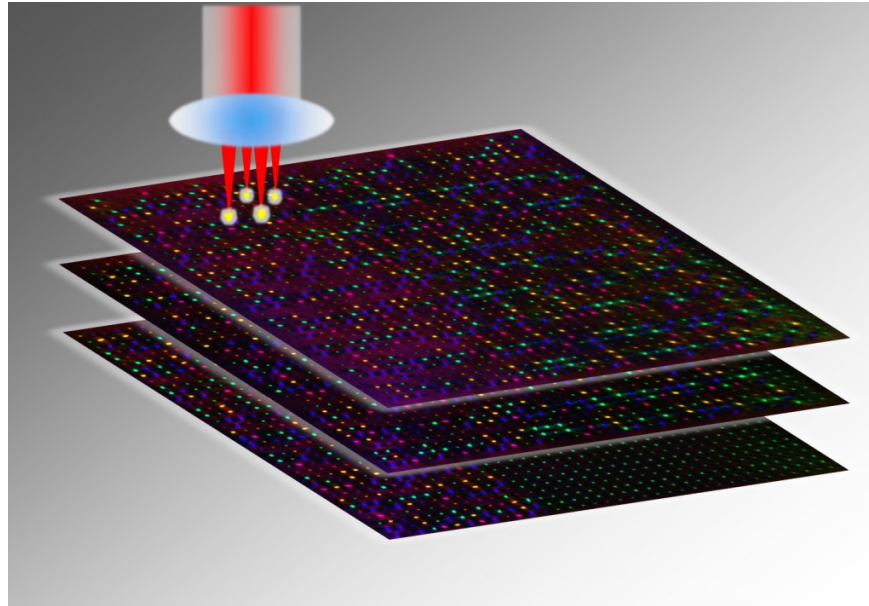
## 7. Blu-ray Ultra HD disc



Blu-ray Ultra HD is an ultra-high-capacity disc that can store videos in 4K resolution and HDR video.

Currently, the use of Blu-ray Ultra HD has not been popular because only the corresponding transmitter and the new generation TV can read it.

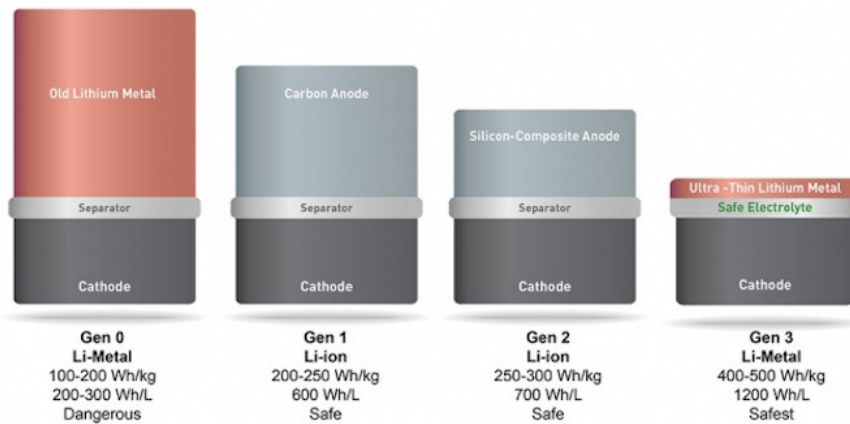
## 8. 5D disc



Today, we have so many things to store in hard drives, but how long the data will last. Current popular hard drives such as hard disks, SSDs and Blu-ray discs are limited in time.

Scientists have helped us solve this problem when inventing a 5D disk. This device allows 360 TB storage and lasts 13.8 billion years in normal conditions. This means that the 5D disc's life is higher than the sun's lifespan. It can even withstand extremely high temperatures of up to 1000 degrees centigrade. This is a spectacular step forward for data media.

## 9. Li-Metal battery



Anyone who uses modern technologies is interested in battery life. If your phone battery is not good, it is like a high-tech brick. Currently, we are using Li-Metal batteries extensively but it will soon be replaced by Li-Metal batteries invented by Solid Energy System. Li-Metal batteries are smaller, faster and have twice the capacity of li-battery batteries. This is indeed good news for all those who use modern technology.

## 10. Jetpack helps people "fly like birds"



You can fly in the sky at 3050m at 96km / h, which sounds unbelievable, but with Jeck Aviation's Jetpack JB-09 it happened. Do not use any tricks such as pushing water or mini helicopters, JB-09 actually comes out of fictional movies to help people fly freely in the air.

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