



...folge uns ins Neutrino-Zeitalter



Neutrino® Energy steht für absolute Zukunftstechnologien, für eine "bessere und gerechtere Welt", da geht es um viel mehr als nur kurzfristige technische Lösungen.

The future is coming ... unstoppable:

As we've seen these types of rapid changes in our lifetimes, many of which were predicted years ago, some of these make one wonder what adjustments we need to make in the near future.

The **FUTURE** is approaching **faster than one can handle....!**

In **1998**, Kodak had **170,000** employees and sold **85%** of all photo paper worldwide.

Within just a few years, their business model disappeared and they went bankrupt.

What happened to Kodak will happen in a lot of industries in the next **10** years and, most people won't see it coming.

Did you think in **1998** that **3** years later you would never take pictures on film again?

Yet digital cameras were invented in **1975**. The first ones only had **10,000** pixels, but followed Moore's law. So as with all exponential technologies, it was a disappointment for a time, before it became way superior and became mainstream in only a few short years. It will now happen again with Artificial Intelligence, health, autonomous and electric cars, education, **3D**printing, agriculture and jobs. Welcome to the **4th** Industrial Revolution. Welcome to the **Exponential Age**.

Software will disrupt most traditional industries in the next **5-10** years.

Uber is just a software tool, they don't own any cars, and are now the biggest **taxi** company in the world.

Airbnb is now the biggest hotel company in the world, although they don't own any properties.

Artificial Intelligence: Computers become exponentially better in understanding the world. This year, a computer beat the best Go-player in the world, **10** years earlier than expected.

In the US, young **lawyers** already don't get jobs. Because of IBM's **Watson**, you can get legal advice (so far for more or less basic stuff) within seconds, with **90%** accuracy compared with **70%** accuracy when done by humans.



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So if you study law, stop immediately. There will be **90%** less lawyers in the future, only **specialists** will remain.

Watson already helps nurses diagnosing **cancer**, its **4** times more accurate than human nurses.

Facebook now has a **pattern recognition software** that can recognize faces better than humans. In **2030**, computers will become more intelligent than humans. (**NEVER!/Albert**)

Autonomous cars : In **2018** the first self driving cars will appear for the public. Around **2020**, the complete industry will start to be disrupted. **You don't want to own a car anymore**. You will call a car with your phone, it will show up at your location and drive you to your destination. You will not need to park it, you only pay for the driven distance and can be productive while driving.

Our kids will never get a driver's licence and will never own a car.

It will change the cities, because we will need **90-95%** less cars for that. We can transform former parking spaces into parks.

1.2 million people die each year in car accidents worldwide. We now have one accident every **60,000** miles (**100,000** km), with autonomous driving that will drop to **1** accident in **6** million miles (**10** million km). That will save a **million** lives each year.

Most car companies will probably become bankrupt. Traditional car companies try the evolutionary approach and just build a better car, while tech companies (**Tesla, Apple, Google**) will do the revolutionary approach and **build a computer on wheels**.

Many engineers from Volkswagen and Audi; are completely terrified of **Tesla**.

Insurance companies will have massive trouble because without accidents, the insurance will become **100x cheaper**. Their car insurance business model will disappear.

Real estate will change. Because if you can work while you commute, people will move further away to live in a more beautiful neighbourhood.

Electric cars will become mainstream about **2020**. Cities will be less noisy because all new cars will run on electricity.



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Electricity will become incredibly cheap and clean: Solar production has been on an exponential curve for **30** years, but you can now see the burgeoning impact.

Last year, more solar energy was installed worldwide than fossil. Energy companies are desperately trying to limit access to the grid to prevent competition from home solar installations, but that can't last. Technology will take care of that strategy. **THE FUTURE WILL BE NEUTRINO ENERGY TECHNOLOGY**

With cheap electricity comes cheap and abundant water. **Desalination** of salt water now only needs **2kWh** per cubic meter (@ **0.25**cents). We don't have scarce water in most places, we only have scarce drinking water. Imagine what will be possible if anyone can have as much clean water as he wants, for nearly no cost.

Health: The **Tricorder X** price will be announced this year. There are companies who will build a medical device (called the "**Tricorder**" from Star Trek) that works with your phone, which takes your retina scan, your blood sample and you breath into it.

It then analyses **54 bio-markers** that will identify nearly any **disease**.. It will be cheap, so in a few years everyone on this planet will have access to world class medical analysis, nearly for free **Goodbye, medical establishment**.

3D printing: The price of the cheapest **3D** printer came down from **\$18,000** to **\$400** within **10**years. In the same time, it became **100** times faster. All major shoe companies have already started **3D** printing shoes.

Some spare airplane parts are already **3D** printed in remote airports. The space station now has a printer that eliminates the need for the large amount of spare parts they used to have in the past.

At the end of this year, new smart phones will have **3D** scanning possibilities. You can then **3D** scan your feet and print your perfect shoe at home.

In China, they already **3D** printed and built a complete **6**-storey office building. By **2027**, **10%** of everything that's being produced will be **3D** printed.

Business opportunities: If you think of a niche you want to go in, first ask yourself: "In the future, do I think we will have that?" and if the answer is yes, how can you make that happen sooner?

If it doesn't work with your phone, forget the idea. And any idea designed for success in the **20**th century is doomed to failure in the **21**st century.



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Work : 70-80% of jobs will disappear in the next 20 years. There will be a lot of new jobs, but it is not clear if there will be enough *new* jobs in such a short time. This will require a rethink on wealth distribution.

Agriculture : There will be a \$100 agricultural robot in the future. Farmers in 3rd world countries can then become managers of their field instead of working all day on their fields.

Aeroponics will need much less water. The first Petri dish produced veal, is now available and will be cheaper than cow produced veal in 2018. Right now, 30% of all agricultural surfaces is used for cows. Imagine if we don't need that space anymore.

There are several start-ups who will bring insect protein to the market shortly. It contains more protein than meat. It will be labelled as "**alternative protein source**" (because most people still reject the idea of eating insects).

There is an app called "**moodies**" which can already tell in which mood you're in. By 2020 there will be apps that can tell by your facial expressions, if you are lying. Imagine a political debate where it's being displayed when they're telling the truth and when they're not