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BLENDING MAN AND MACHINE

THE CONNECTION TO THE WORLD THROUGH AUTONOMOUS HIGH-TECH SYSTEMS, SUCH AS TESLA OR THE AMAZON ROBOT CART THAT DELIVERS PACKAGES TO YOUR DOOR (LAST MILE DELIVERY).

ARMS AND HANDS

If we look at humans, technology is already quite advanced in replacing or at least providing extra help for our senses. For example, we have 3D printed hands to pick up products from a conveyor belt. These hands can move fast because the material and construction are much lighter, but you can also safely use a robot hand, for example, for soldering and screwing (so-called Cobots).

EYES

The eyes in the digital world are cameras that help us to make automatic observations. For example, it is possible to see whether something is right or wrong. We can make observations with special night vision devices and detect errors with detection cameras for medicines, or detect bacteria based on recognition, which helps to save lives.

NOSE

For the nose, sensors have been developed that measure, for example, milk quality and consequently, the health of a cow. Or a multi-sensor space telescope with a radius of 30 km that can be used to look deep into the universe. And from space, we can examine the earth with highly advanced instruments using satellites.
And then there are noses. These are sensors that take measurements of glass. Glass splinters, which can jump out of a glass, are detected right through molten glass. This prevents you from ingesting glass shards when, for example, you are having a beer.

BRAINS

Three photographs of each bottle are taken at lightning speed with an eye sensor that filters out the wrong bottles. The storage of all these photos can be seen as brains, given the amount of data used in this type of computer.
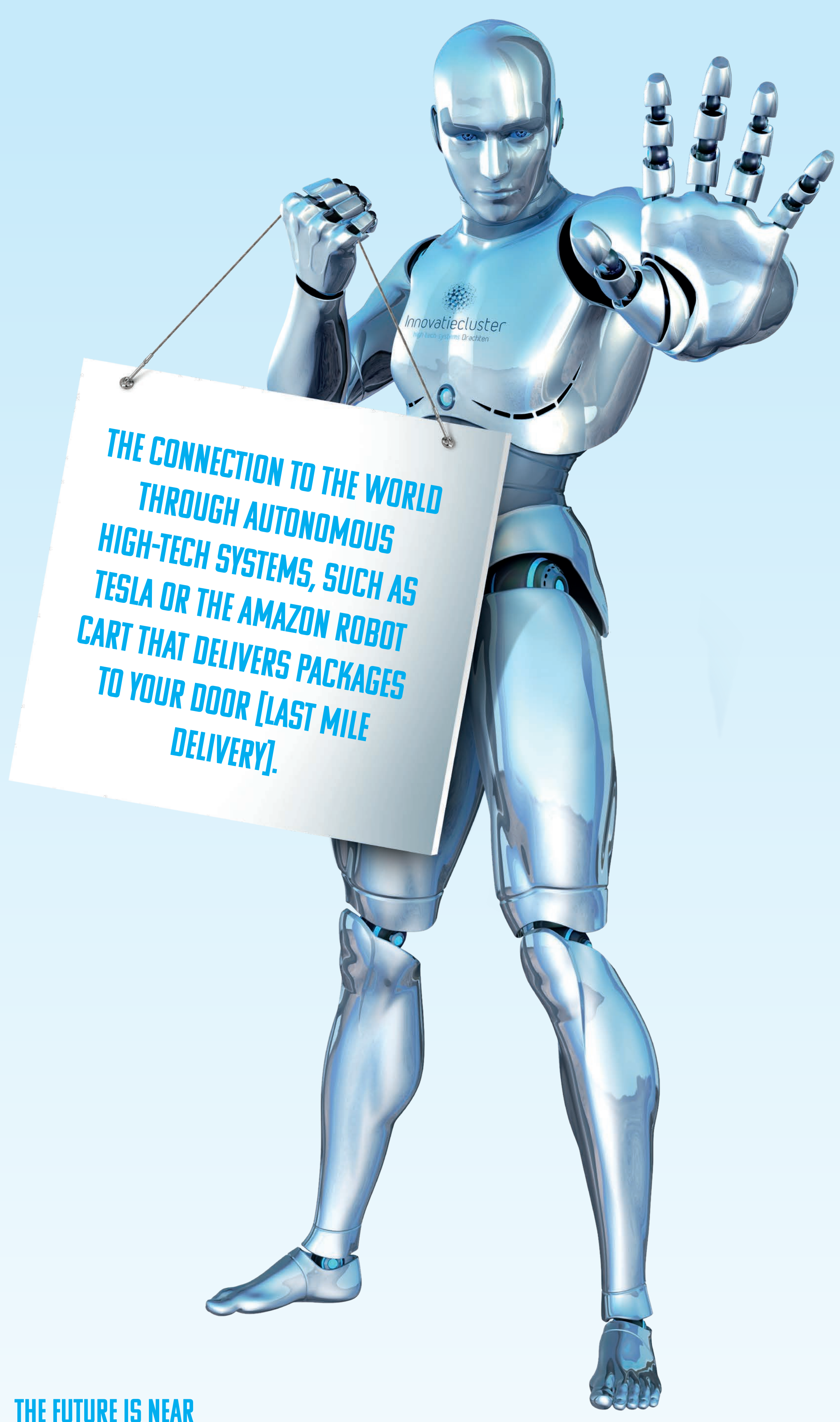
But we can also compare the satellite dishes of Astron with our brains. A satellite dish collects more information in one year than the entire internet in the Netherlands put together. As an example, Philips has its own health cloud with data storage where millions of users' IP addresses are stored and health patterns are studied.

FEET AND LEGS

As a replacement for our feet and legs, there is a so-called exoskeleton. This is an external skeleton that supports people in their movements and allows them to do things that they cannot do themselves, such as lifting 450 kg. And in the transport industry, we see more and more automated guided vehicles that transport goods in factories.

MOUTH - SPEECH

If it's about speech, you can soon go to the RUG for a master's programme in Voice Technology. This course is about controlling systems by means of speech, or the other way round. The system talks to you. These are just a few examples, as there are many more developments in the field of human machine interfaces.

THE FUTURE IS NEAR

Are you interested in these techniques, but also in solving societal problems? Then you have come to the right place at our high-tech companies of Innovatiecluster Drachten! You can contribute to the collective approach against famine, for better health, the quality of water, clean energy, climate action, but also for peace and good security.

YOUR FUTURE IS CLOSER THAN YOU THINK!

GET CONNECTED

GET SMART, GO TO PARTOFTHESMART.NL

Innovatiecluster
high tech systems Drachten

22	4300	275	45	50
INTERNATIONAL COMPANIES	FTE OF WHICH 1550 ARE INNOVATIVE	INTERNSHIPS (2020)	NATIONALITIES WITHIN THE COMPANIES	PRODUCT LAUNCHES (A YEAR)

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