

#### VERSIONS

Arabic, English, Spanish:  
19 x 30 min.

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#### ORDER NUMBER

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## Foresight

Mankind has always dreamed of being able to see into the future. Scientists try to create things that others might regard as pie in the sky. For example, innovative medical procedures or new industrial materials, intelligent communication technology or revolutionary approaches to environmental conservation. All this is only possible if researchers are independent and creative, and if they have the courage to break new ground. But how much of the research being carried out into futuristic projects is science, and how much of it is fiction? What methods are employed? What are the positive and negative aspects of trying to anticipate the future?

### 08 Motorized Farming – The Next Agricultural Revolution [VoD](#) [SD](#)

They sow seeds, pull up weeds and spread fertilizer. It is hoped that small farming robots will one day be able to work completely autonomously and carry out all the jobs that need to be done out in the fields. Researchers all over the world are working on high-tech solutions to one of the most urgent problems facing humanity: To produce enough food as the world's population continues to grow.

### 09 Supersonic Race [VoD](#) [SD](#)

In four-and-a-half hours from Europe to Australia. It may sound like pie in the sky, but it may soon become a reality, with a supersonic plane currently being developed by engineers in England. And they are not alone. Researchers in other parts of the world are also working on ideas to usher in a new era of civilian flight. Their common aim is not just to make air travel even more rapid, but also profitable and environmentally friendly.

### 10 Mega Metropolis – Architecture as Selling Point [VoD](#) [SD](#)

Cities are growing in many parts of the world. They compete on an international level for investments and labor. Architecture can become a key factor in location appraisal, as well as an expression of a globalized working environment. But does urban planning on such a gigantic scale necessarily lead to fresh economic momentum?

### 11 21<sup>st</sup> Century Sport – Performance-Enhancing Technology [SD](#)

Technical equipment in top-level sport is gaining in importance. Research institutes are continually developing new materials and devices to help athletes break records and win medals. Using examples from the world of winter sports, we demonstrate how even small changes in equipment can mean the difference between victory and defeat.

### 12 The Food of Tomorrow [VoD](#) [SD](#)

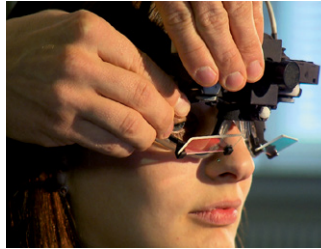
Researchers and inventors are at work in laboratories and trial kitchens to develop the foodstuffs of tomorrow. Technically speaking, there are few limits. German scientists have for example succeeded in manufacturing a fat-free sausage – something food technologists had thus far deemed to be impossible. But are these new foodstuffs also effective in counteracting diet-related illnesses?

### 13 Mankind 3.0 – The Future of Information [VoD](#) [SD](#)

Modern man produces and consumes a vast amount of data around the clock. And in the face of such a tremendous tide of information, he is dependent on the services of data providers and communicators. But just how reliable are service providers in the electronic sphere? Do we have everything under control – or are we under control? How will we use information in the future, and what kind of information will it be?

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#### 14 A Bright Future for Robots VoD HD

Will robots soon be able to do the housework, to talk, clean and cook independently? That looks unlikely in the short-term, despite huge advances in robotics. The picture is quite different in industry and space travel though, where robots already play a key role – and their performance is improving.

#### 15 The Synthetic Materials of Tomorrow SD

Today's world would be inconceivable without synthetic materials such as plastic. But crude oil as the basis for most plastics is finite, and non-degradable materials represent a huge environmental problem. So scientists are busy developing bioplastics made out of vegetable matter.

#### 16 Aeroplanes of the Future VoD HD

People do not just want to fly safely, comfortably and quickly, they also want air travel to be environmentally sound and good value for money: Scientists and engineers are developing new propulsion systems aimed at making that possible. Initial results of their work are encouraging. The future belongs to quiet and comparatively clean aeroplanes.

#### 17 Life Saving Cells VoD SD

Stem cells are cells that can in principle differentiate into other specialized kinds of cells: For example, they can be used to replace damaged blood cells or repair organs. A great deal of hope is being pinned on stem cells in the fight against many so far incurable diseases. But it is still difficult to contain the risks of such therapies, and their application throws up ethical questions.

#### 18 The 3D-Effect VoD HD

3D movies are impressive to watch, but viewers need to wear clunky glasses and some people report negative physical reactions. Medical researchers, camera manufacturers and graphic designers are working on new technologies that could soon address these problems.

#### 19 The Hunt for Genetic Treasure VoD SD

Genetic researchers worldwide are searching for the key to illnesses such as cancer, Alzheimer's and Parkinson's. They assemble their insights and clues as to the origins of these diseases like pieces of a giant puzzle. It might eventually be possible to simply switch off defective genes that cause diseases.

#### 20 The Textiles of the Future HD

Intelligent materials that supply the skin with pharmaceutical products, protective vests with air conditioning or textile sensors that monitor bodily functions – scientists and the textile industry are working hard to design the clothing of tomorrow, often with health or safety benefits.

#### 21 The Vision of a New Factory VoD SD

The factory of the future should be efficient, use renewable energy sources and have zero emissions. This is not just a utopian vision. Around the world, thousands of research teams are developing manufacturing technologies that make both economic and ecological sense.

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#### 22 [How 3D Printing is Changing Our World](#) [VoD](#) [HD](#)

Economists expect 3D printing will trigger a new industrial revolution. The technology is already used to manufacture all kinds of components. And just as music and books can be downloaded from the Internet, in future consumers will be able to print replacement parts at home.

#### 23 [Small Hydropower Stations, Big Future](#) [VoD](#) [HD](#)

Hydropower plants supply clean energy. But large-scale projects often have major drawbacks of an ecological, financial or technical nature. So researchers are looking for ways to make small hydropower plants efficient and affordable.

#### 24 [Multi-Talented Algae](#) [VoD](#) [HD](#)

Algae are miracles of versatility: They absorb CO<sub>2</sub> from the atmosphere, they can be used as food and as fertilizer, are deployed in cancer research and promise to become a viable alternative to fossil fuels. Researchers are only just beginning to explore the vast potential of these organisms.

#### 25 [Refuse as a Key Resource](#) [VoD](#) [HD](#)

Our cities generate treasure – concealed in garbage. Rare metals and other scarce materials can be found in old cell phones and cars, but also in derelict buildings. Extracting these materials presents scientists and engineers with a challenge.

#### 26 [New Momentum for Trade Vessels](#) [HD](#)

International shipping blasts close to a billion tonnes of carbon dioxide into the air every year, as well as toxic grime and dust. Some studies claim that air pollution from shipping is responsible for up to 50,000 premature deaths per year in Europe alone. Austrian captain Andreas Lackner has joined forces with naval architects to develop a low-emissions sail-powered freighter: a wind-propelled hybrid ship that will only have to switch on its engines when it's dead calm out on the water.