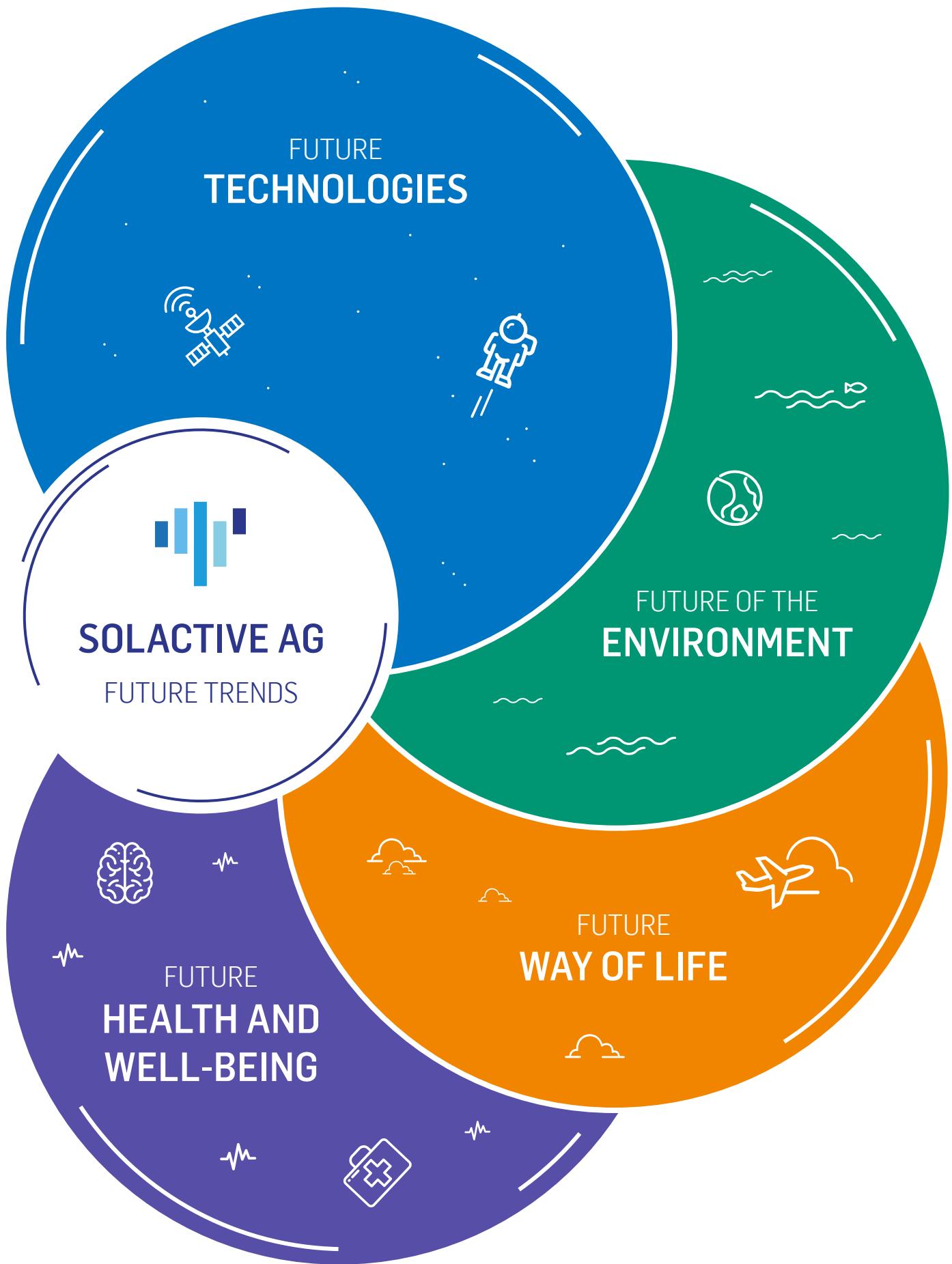


SOLACTIVE FUTURE TRENDS

The Change of Tomorrow Begins Today

SOLACTIVE FUTURE TRENDS



EXECUTIVE SUMMARY

SOLACTIVE FUTURE TRENDS

High conviction themes for megatrend investing.

The **Solactive Future Trends** offer beta-exposure to long-term trends through a range of different indices. The idea is to anticipate megatrends that could significantly impact the world for at least the next decade. **Megatrends are inevitable major long-term evolutions in society, economics, or the environment, that affect our lives while having an impact on politics.**

We concentrate on major beneficiaries of particular trends and create indices in the following categories: **Future Technologies, Future of the Environment, Future Way of Life, and Future Health and Well-Being.**

On the hunt for the next life-changing development, investors can adjust their portfolios around these trends as early as possible.

Let's tackle it now!

The index concepts in this document are based on future-oriented investment ideas. Our view on the presented long-term developments has not changed due to the coronavirus – to the contrary, some of the covered developments in society or technology may even have accelerated due to the pandemic.

INTRODUCTION

THE CHANGE OF TOMORROW BEGINS TODAY

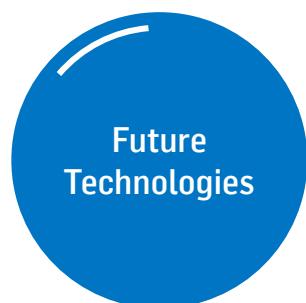
The **Solactive Future Trends** offer our high conviction themes in the field of megatrends and thematic investing. As megatrends, in general, can also refer to past long-term trends, and stock prices reflect expected future cash flows, our approach is to focus on anticipated future-oriented megatrends that could significantly impact society during at least the next decade.

The word megatrend has its origin in the early 1980s, when John Naisbitt, active in the field of future studies, published his book "Megatrends: Ten New Directions Transforming Our Lives".¹ The Oxford Dictionary defines a megatrend as "an important shift in the progress of a society or of any other particular field or activity; any major movement".²

Examples matching this definition are digitalization, increasing computing power, the rise of the internet, the phenomenon of social media, secular shifts in the interest rate environment, global warming, and demographic changes. By having early anticipated these trends, as well as having effectively identified their major beneficiaries and economic implications, investors could have tremendously gained from accurate predictions. However, this claim is easy to make ex-post.

Ex-ante, predicting the future is a very challenging task as forecast errors compound in a forecast's time window. What we attempt to identify with the **Solactive Future Trends** are long-term future-oriented megatrends. Based on today's knowledge, we seek to identify some of tomorrow's most promising investment themes, as well as to select the major beneficiaries of these individual trends.

We identify four major categories for the **Solactive Future Trends**, under which we summarize our high conviction index concepts. The categories are:



Future
Technologies



Future of the
Environment



Future
Way of Life



Future Health
and Well-Being

[1] Naisbitt, John (1982). *Megatrends: Ten New Directions Transforming Our Lives*.

[2] Lexico. Powered by Oxford.

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FUTURE TECHNOLOGIES



From stone artifacts enabling the dawn of agriculture to the steam engine paving the way for the industrial revolution, technological breakthroughs have continuously shaped the development of humanity. New technologies – such as digital technologies – are already embedded in the social fabric of many developed countries and are also stemming socio-economic changes in emerging nations. These revolutionary developments are reshaping our economies. In doing so, they are providing avenues for the creation of new social, financial, and human capital, as well as simultaneously opening new investment horizons and growth opportunities.

Amongst the top beneficiaries of future technological advances will not only be those that generate them. Namely, corporations willing to constantly embrace innovation and leverage it into their core processes are set to gain a competitive edge relative to their less-dynamic peers. Those at the forefront of technology adoption will ultimately drive smarter, as well as more robust and profitable business models – creating higher value for their stakeholders.

What does Solactive do in the Future Technologies Space?

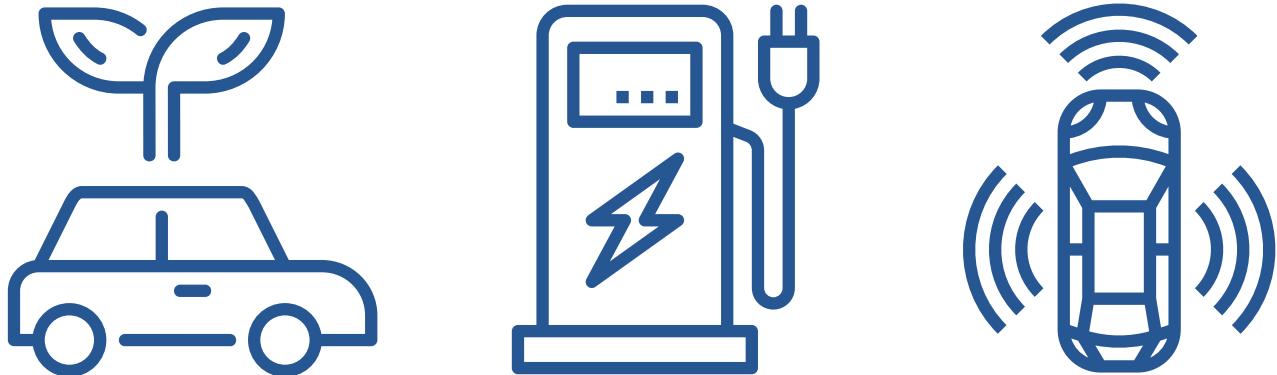
Our technology-related index offering is set to gain from societal and economic shifts derived from the never-ending string of technological disruption that will shape our future. The companies that compose them are both those leading the way towards a tech-driven world, as well as those better set and willing to incorporate new technologies in their corporate strategy. Solactive's "Future Technologies" index concepts provide conclusive investment opportunities in the near to long-term future, as technologies mature and proliferate further within our societies.

Future Technologies – Our Index Offering

As technological trends evolve, so do our research practices. We are constantly transforming our indexing methodologies to offer novel solutions catering to the changing dynamics of the investor community. Our research ecosystem powering these indices is – in itself – driven by a mix of cutting-edge technologies such as natural language processing, coupled with expert insights. Please find our high conviction indices composed of the leaders in their respective field below:

- > Solactive ARTIS® Automotive Ecosystem Evolution
- > Solactive ARTIS® Robotics and AI Index
- > Solactive ARTIS® Worldwide Connectivity Index
- > Solactive ARTIS® Quantum Computing Index





powered by **ARTIS®**

The automotive industry is going through disruptive changes, such as the development of alternatives to the combustion engine and rapid advancements of self-driving vehicles. The **Solactive ARTIS® Automotive Ecosystem Evolution Index** is designed to benefit from these game-changing innovations.



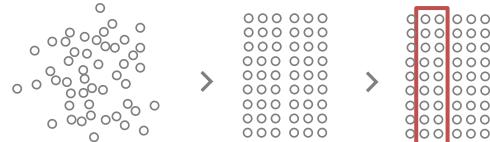
Investment idea

Global trends in sustainability and digitalization urge the automotive industry to change significantly. Eco-friendly and self-driving vehicles will likely form the core of the future automotive ecosystem.

The Solactive ARTIS® Automotive Ecosystem Evolution Index provides exposure to companies that benefit from disruptive changes in the automotive industry. The index consists of five flexible baskets that can be combined or used as standalone indices. The baskets cover five business segments: electric vehicles and key components, charging infrastructure and batteries, raw materials for electric vehicle batteries, hydrogen, and autonomous driving.



ARTIS®



Companies are selected by ARTIS®, our proprietary natural language processing algorithm that allows us to build a deep understanding of the products and services a company offers.

To create such insight, ARTIS® goes through large volumes of publicly available information such as annual reports, business descriptions, or financial news and identifies which companies and to what degree they are relevant to the respective theme.



Top index constituents

> Tesla	> Livent Corporation
> NIO	> Plug Power
> Blink Charging	> Veoneer



Index Description:

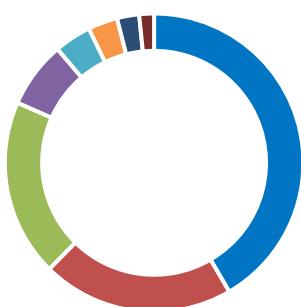
This index is designed to benefit from sustainable and disruptive changes in the automotive industry, including alternatives for combustion engines as well as self-driving vehicles. We have created five sub-themes that can be combined in any desired way. The five different focus areas are carefully selected in order to ensure a coverage of the entire future vehicle value chain:

- EV producers & key components manufacturers
- Charging infrastructure & battery providers
- Raw materials for EV batteries (battery-grade lithium, cobalt, manganese, and graphite miners)
- Hydrogen (hydrogen vehicle producers, hydrogen manufacturers, and providers of storage solutions)
- Autonomous driving pioneers

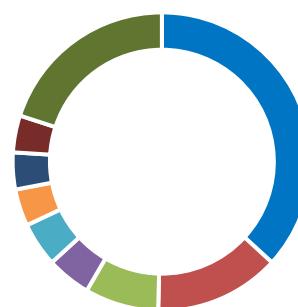
The companies are shaping the future of mobility. Fighting pollution through innovative and disruptive engine technologies or inventing new ways in transportation are at the center of attention for all index constituents.

Sector and country weights, equal weight index version with all five categories

(Size and liquidity filters: FF sec-level mcap > 100m USD, ADTV 6 months > 1m USD)

Composition by Sector


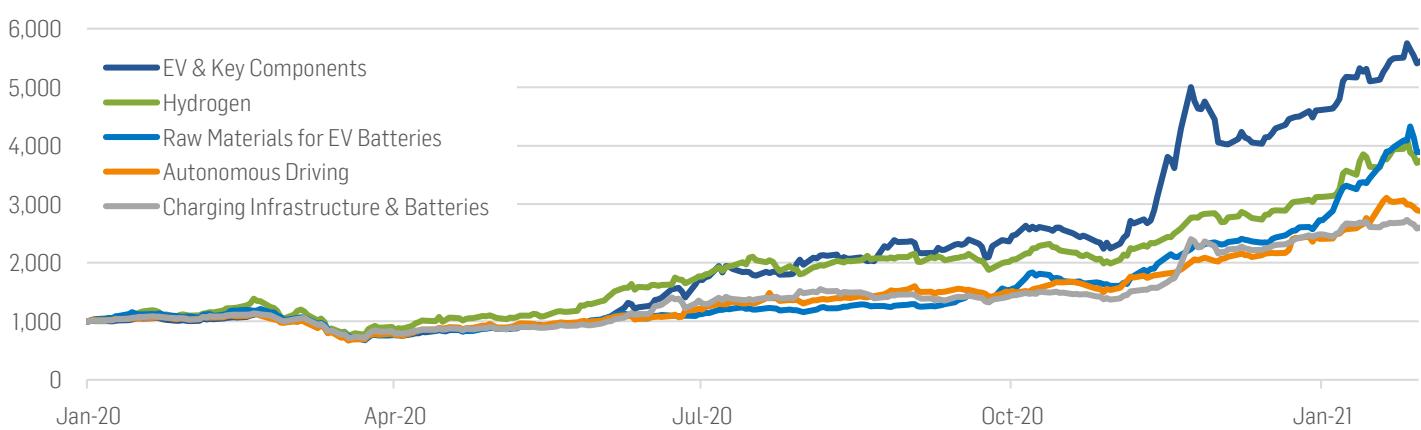
- Industrials
- Technology
- Consumer Durables
- Basic Materials
- Utilities
- Consumer Services
- Energy
- Finance

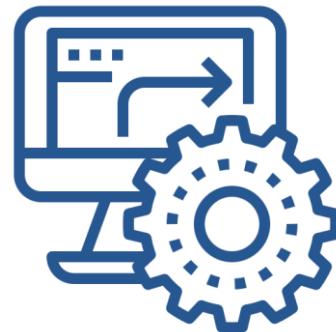
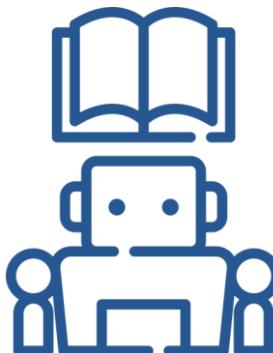
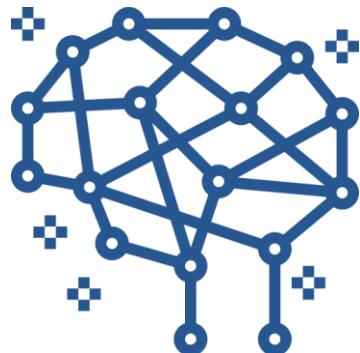
Composition by Country


- United States
- China
- Japan
- Cayman Islands
- Australia
- Canada
- Netherlands
- South Korea
- Other

Back-casts: Dec-31, 2019 until Jan-29, 2021, equal weight versions with 25 constituents per category

(In USD, Total Return)





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New technologies around artificial intelligence (AI) and automation are taking center stage. Robots, smarter machines, and applications are gaining ground in daily life and business. Our **Solactive ARTIS® Robotics and AI Index** tracks companies pushing robotics, AI, and automation to new levels.



Investment idea

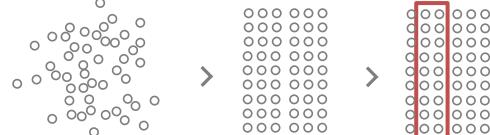
In the past decades, advances in robotics, artificial intelligence (AI), and automation have shifted to replace blue-collar to white-collar jobs. This shift is often seen as a threat to humans, but it may instead represent one of the most exciting opportunities of our time.

Fields such as healthcare, mobility, education, and many others, are set to benefit in major ways. We expect that future innovations in AI and automation will have a big say on the shape of our future.

The Solactive ARTIS® Robotics and AI Index is composed of global players active in the forefront of the AI and automation fields.



ARTIS®



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To create such insight, ARTIS® goes through large volumes of publicly available information such as annual reports, business descriptions, or financial news and identifies which companies and to what degree they are relevant to the respective theme.



ARTIS® top picks

> Amazon	> ABB
> Nvidia	> BrainChip Holdings
> Fanuc	> Shanghai Kelai Mechatronics Engineering



Index Description:

Robotics and AI are typical examples for complex industries or technologies that are being developed by experts in leading companies, and research institutions. Whereas the progress is visible by the year, the technologies are far away from a wide-spread use. The potential is enormous, and we may be at a historical inflection point. The index constituents are expected to play a major role in the shift towards beneficial incorporation of new technologies into our business and daily lives. The recent COVID-19 pandemic eventually accelerates the transition towards automation.

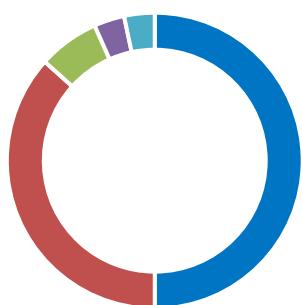
The index constituents are either active in robotics, automation, AI, or a combination of such. This includes industrial robots, autonomous robots, industrial and factory automation, as well as machine learning.

With respect to specific industries, the index appears quite diversified. Out of 30 constituents, six companies are active in „Industrial Machinery“, followed by four „Semiconductors“ companies, and three companies in both the „Electrical Products“ and „Electronic Equipment/Instruments“ industries. Unsurprisingly, the index has a high weight in US companies as well as Asian companies.

Sector and country weights, equal weight index version with 30 constituents

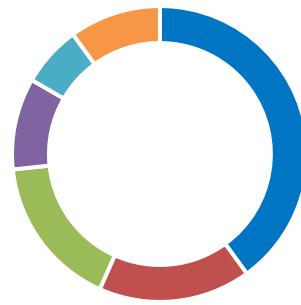
(Size and liquidity filters: FF sec-level mcap > 100m USD, ADTV 6 months > 1m USD)

Composition by Sector



- Technology
- Industrials
- Consumer Durables
- Consumer Services
- Healthcare

Composition by Country



- United States
- Japan
- China
- South Korea
- Australia
- Other

Back-cast: Dec-31, 2019 until Jan-29, 2021, equal weight versions with 30 constituents

(In USD, Total Return)





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Globally, everything is becoming more connected. Technological advancements have made broadbands more efficient, and more relied upon in our day-to-day life. Our **Solactive ARTIS® Worldwide Connectivity Index** tracks companies revolutionizing global connectivity.



Investment idea

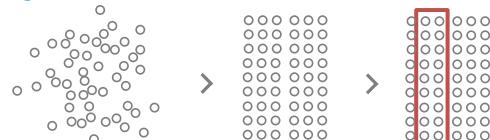
Over the past couple of decades, networks have become faster and evolved to be an essential part of the functioning of global societies and economies.

Further advances and developments in the field are set to embed the internet in daily life and business to an even greater degree. Examples of this fact can be visualized given the relevance that technologies such as 5G or the Internet-of-Things are expected to have in the shaping of our future.

The Solactive ARTIS® Worldwide Connectivity Index is composed of global players active at the forefront of next generation mobile networks, data centers, and the interconnectivity of things.



ARTIS®



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To create such insight, ARTIS® goes through large volumes of publicly available information such as annual reports, business descriptions, or financial news and identifies which companies and to what degree they are relevant to the respective theme.



Top index constituents

> Qualcomm	> Sivers Semiconductors
> Nokia	> Apple
> Verizon Communications	> Inseego



Index Description:

A wide array of technological advancements are possible due to the use and availability of reams of data. Global data volumes are expected to grow at an accelerated speed, from 33 zettabytes (ZB) in 2018 to 175 ZB in 2025. The Solactive ARTIS® Worldwide Connectivity Index builds on the exponential growth of data volumes as well as smart ways to connect the world. People, societies, and businesses around the globe rely on fast and efficient data solutions.

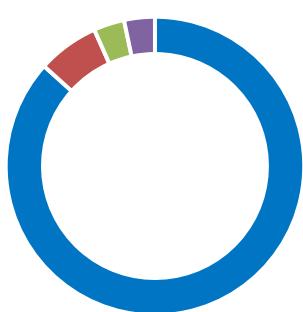
The index invests in companies empowering smooth connectivity solutions. Its constituents enable 5G connectivity, data transmission, interconnectivity of data centers, and work on innovative Internet of Things solutions. With exposure to providers of data infrastructure, hardware, as well as applications, the investment idea behind the index is to benefit from the digitalization of everything and the increasing loads of data.

More than half of the index members are active in the field of electronic technology, and, within this field, in the semiconductors and telecommunications equipment industries. With respect to country allocation, more than 60% of the companies are incorporated in the United States.

Sector and country weights, equal weight index version with 30 constituents

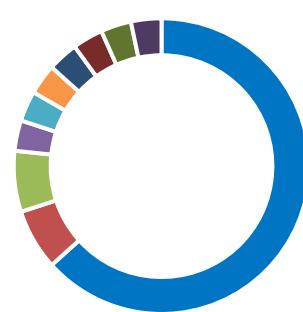
(Size and liquidity filters: FF sec-level mcap > 100m USD, ADTV 6 months > 1m USD)

Composition by Sector



- Technology
- Finance
- Industrials
- Consumer Durables

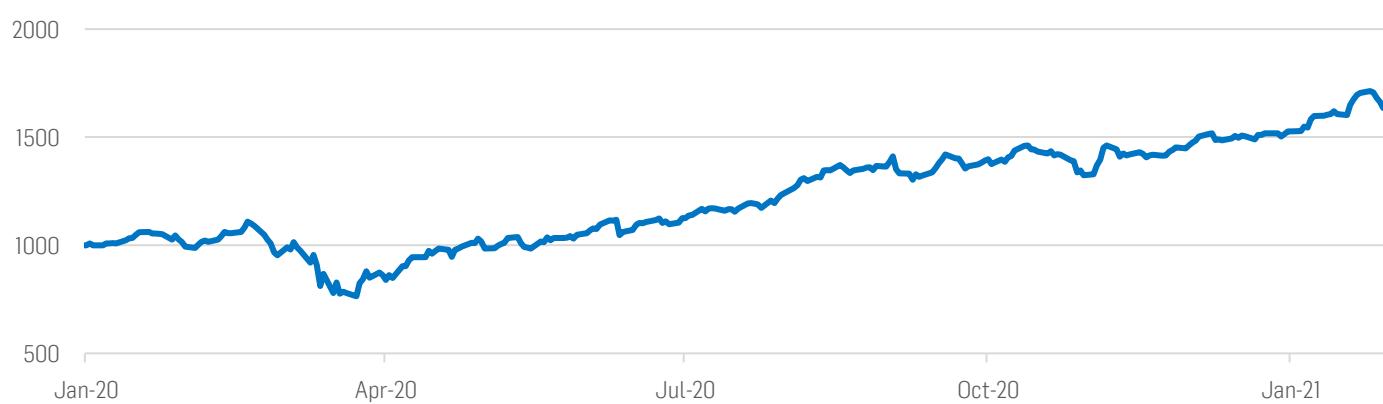
Composition by Country



- United States
- China
- Taiwan
- Finland
- Sweden
- France
- Japan
- Canada
- Netherlands
- Cayman Islands

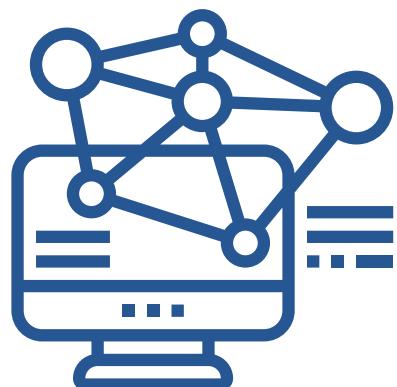
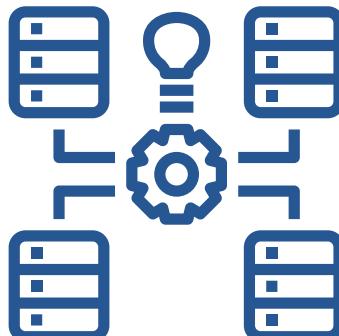
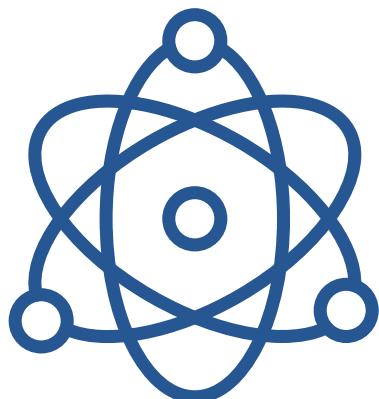
Back-cast: Dec-31, 2019 until Jan-29, 2021, equal weight versions with 30 constituents

(In USD, Total Return)



SOLACTIVE ARTIS® QUANTUM COMPUTING INDEX

INVESTING IN THE NEW ERA OF COMPUTING



powered by **ARTIS®**

Quantum computing is an advanced technology that allows to go beyond the current limits of computational power. The **Solactive ARTIS® Quantum Computing Index** tracks companies developing quantum computers and provides exposure to the early adopters of this technology.



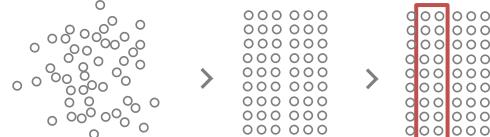
Investment idea

The era of quantum computing provides humankind with the opportunity to go beyond current technical limits: quantum technology allows solving complex problems and analysing massive amount of data more efficiently. The technology is still in the inception phase, but once established as a mature technology, the quantum computing industry will likely grow exponentially.

With the Solactive ARTIS® Quantum Computing Index investors gain exposure to pioneering companies of the quantum computing industry. The index is composed of both companies that are developing quantum computers and early adopters of this technology.



ARTIS®



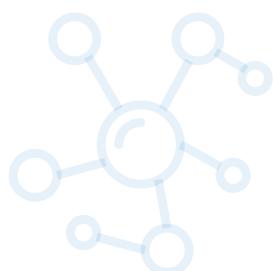
Companies are selected by ARTIS®, our proprietary natural language processing algorithm that allows us to build a deep understanding of the products and services a company offers.

To create such insight, ARTIS® goes through large volumes of publicly available information such as annual reports, business descriptions, or financial news and identifies which companies and to what degree they are relevant to the respective theme.



Top index constituents

> IBM	> Keysight Technologies
> Perspecta	> Alphabet
> Honeywell International	> Amazon



SOLACTIVE ARTIS® QUANTUM COMPUTING INDEX

INVESTING IN THE NEW ERA OF COMPUTING

Index Description:

Focusing purely on companies developing or preparing to use quantum computing, the goal of this index is to provide exposure to leading companies and early adopters. There are two major types of companies among the index constituents: those developing the quantum computing technology (e.g., Alphabet, IBM) and those exploring ways to implement it in their line of business (e.g., J. P. Morgan, Vodafone, and Boeing).

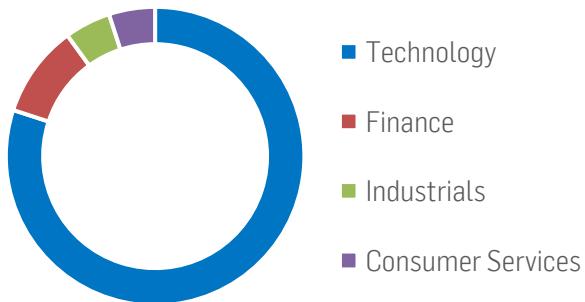
All index constituents have revenue streams beyond quantum computing. However, the selected companies are expected to be among the beneficiaries, once the technology will be implemented broadly. We identify 20 relevant companies. We expect this list to further grow over time, along with advancements in quantum computing and its use cases.

Quantum computing offers new possibilities. Conventionally, computers operate bits that can be either 0 or 1. Quantum computing uses Qubits that can represent both states at the same time. This helps to analyze different outcomes simultaneously, which allows completing the most complicated operations faster. Quantum computing brings value to various industries: from artificial intelligence and cybersecurity to chemical simulations and financial modeling.

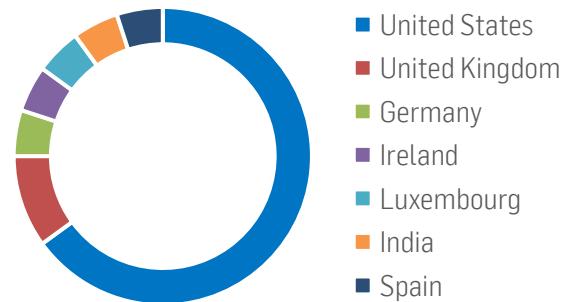
Sector and country weights, equal weight index version with 20 constituents

(Size and liquidity filters: FF sec-level mcap > 100m USD, ADTV 1 months > 500k USD)

Composition by Sector

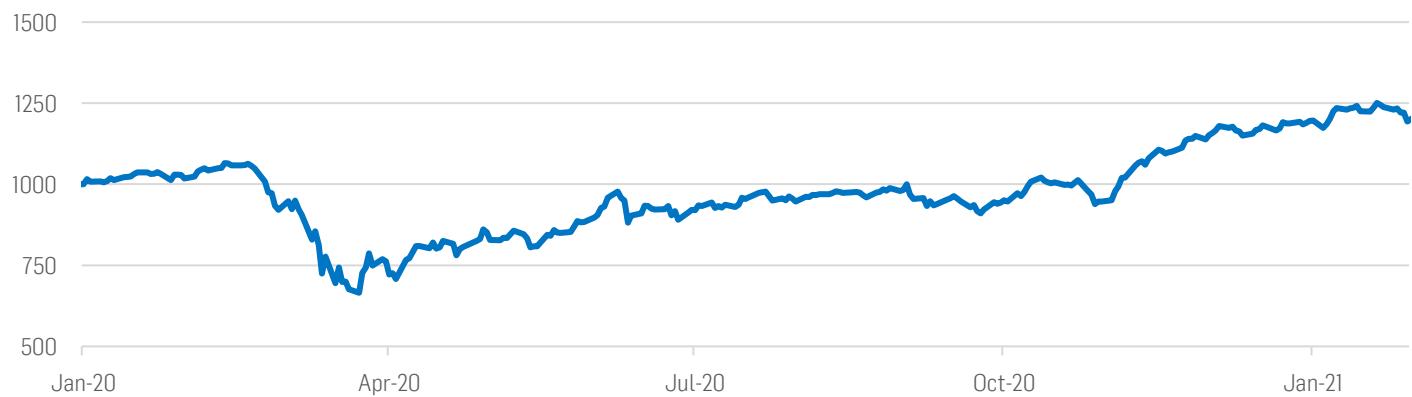


Composition by Country



Back-cast: Dec-31, 2019 until Jan-29, 2021, equal weight versions with 20 constituents

(In USD, Total Return)



FUTURE OF THE ENVIRONMENT



Our world is changing at an ever-increasing pace. This evolution is reflected through structural changes that are set to revolutionize our day-to-day life on varying degrees. As our communities become progressively shaped by major trends, our societal landscape is set to do so as well on previously unimaginable ways. For instance, with the advent of gene editing, automation and new manufacturing technologies, and artificial intelligence.

Technological and industrial progresses are not only enabling more efficient means of production and a more comfortable lifestyle but also come at the cost of negative second-order effects. Society is becoming increasingly aware of the externalities of its development and consumption and is taking actions to combat them. Examples of this trend can be observed from the shift towards eco-friendly energy sources, or with the increasing need to preserve the environment.

What does Solactive do in the Environmental and Sustainability Space?

Solactive's "Future of the Environment" index concepts are set to benefit from the increasing societal awareness of environmental and sustainability issues that are affecting our world's future. The growth of their underlyings will follow as citizens and corporations alike become more and more conscious of the negative consequences of industrial advancements and an increase in global consumption. Therefore, we are committed to develop indices tracking the performance of companies that are enabling a greener future – which, in turn, are set to benefit from humankind's transition towards a more sustainable economy.

Future of the Environment – Our Index Offering

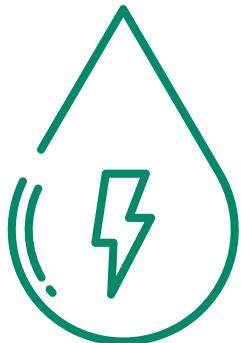
We are constantly working on new and thought-provoking environmentally-friendly index solutions in order to add value to the investment community. Our research ideas and inspiration for these concepts are derived from both ground-breaking trends and our interactions with experts in the field of sustainable investing. Please find the list of high conviction index concepts we have created within this space below:

- > Solactive ARTIS® Clean Energy Index
- > Solactive ARTIS® Hydrogen Index
- > Solactive ARTIS® Sustainable Mobility Index



SOLACTIVE ARTIS® CLEAN ENERGY INDEX

ELIMINATING CO2 EMISSIONS WITH RENEWABLE ENERGY



powered by **ARTIS®**

We need to rely on renewable energy sources to fight climate change and guarantee sustainable electrification. The **Solactive ARTIS® Clean Energy Index** tracks companies that provide renewable energy or contribute to the value chain, in order to keep pace with a growing demand.



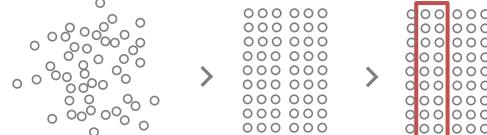
Investment idea

Nowadays, the energy sector is particularly shaped by two forces: growing demand for electricity and climate change. Renewable energy sources respond to both challenges: they ensure adequate electrification without greenhouse gas emissions. Politics, multinational initiatives, and environmental awareness amongst citizens continue to drive the energy revolution in the future.

The Solactive ARTIS® Clean Energy Index covers companies in the field of renewable power generation and distribution. It encompasses the leaders along the value chain of clean energy production. The three major sources are water, wind, and sunlight.



ARTIS®



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ARTIS® top picks

> Avangrid	> Brookfield Renewable Partners
> Tesla	> NextEra Energy
> Siemens Energy	> General Electric



SOLACTIVE ARTIS® CLEAN ENERGY INDEX

ELIMINATING CO2 EMISSIONS WITH RENEWABLE ENERGY

Index Description:

The Solactive ARTIS® Clean Energy Index consists of companies at the forefront of the renewable energy industry. The index primarily covers the following major forms of clean power:

- Hydro power (including electricity generation as well as production and installation of hydro power facilities)
- Wind power (including off-shore and on-shore electricity generation as well as production and installation of turbines)
- Solar power (including electricity generation, as well as production and installation of photovoltaics).

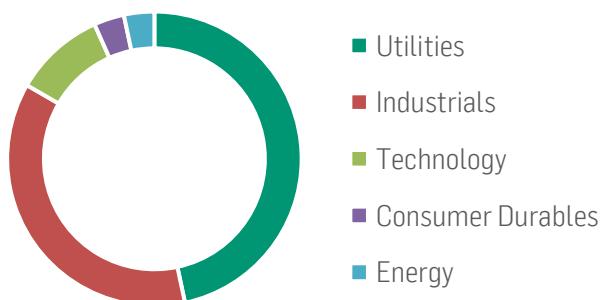
These three sources of renewable energy account for around 95% of the global renewable energy generation capacity. Thus, the index focuses on the leading technologies in the sustainable power generation with the potential for further scalability and worldwide implementation.

All companies in the index are well positioned along the value chain of renewable energy. Index constituents are active in energy generation, energy distribution, storage as well as manufacturing and installation of turbines or panels.

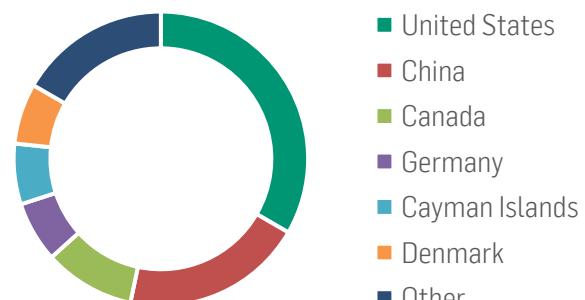
Sector and country weights, equal weight index version with 30 constituents

(Size and liquidity filters: FF sec-level mcap > 100m USD, ADTV 6 months > 1m USD)

Composition by Sector



Composition by Country



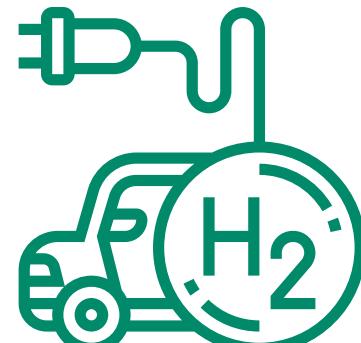
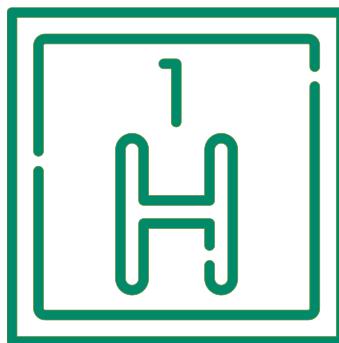
Back-cast: Dec-31, 2019 until Jan-29, 2021, equal weight versions with 30 constituents

(In USD, Total Return)



SOLACTIVE ARTIS® HYDROGEN INDEX

INVESTING IN THE TRANSITION TO A ZERO-EMISSION SOCIETY



powered by **ARTIS®**

Hydrogen is the cleanest energy carrier with zero carbon emissions during combustion. The **Solactive ARTIS® Hydrogen Index** tracks the performance of companies engaged in the generation, storage and usage of hydrogen as a green alternative to conventional energy sources.



Investment idea

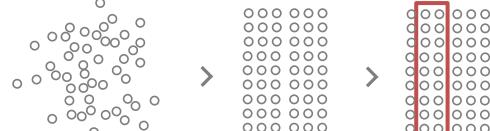
Hydrogen is a carbon-free energy carrier, which has the capability to become a key power supply standard for the next generations. The manifold applications of hydrogen create opportunities to reduce carbon emissions across many industries.

The Solactive ARTIS® Hydrogen Index provides exposure to the companies that contribute to the evolution of the energy industry.

Under the assumption that a wide-spread use of the cleanest energy carrier is feasible over the years to come, the index constituents will have a bright future ahead.



ARTIS®



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To create such insight, ARTIS® goes through large volumes of publicly available information such as annual reports, business descriptions, or financial news and identifies which companies and to what degree they are relevant to the respective theme.



Top index constituents

> Plug Power	> Bloom Energy Corporation
> Ballard	> PowerCell Sweden
> Nel	> ITM Power



SOLACTIVE ARTIS® HYDROGEN INDEX

INVESTING IN THE TRANSITION TO A ZERO-EMISSION SOCIETY

Index Description:

The Solactive ARTIS® Hydrogen Index is comprised of a narrow set of 30 companies which will play a major role in the evolution of the hydrogen industry. The index includes both so-called pure-plays and second-order key beneficiaries of the rise of hydrogen as a clean energy source. These companies are engaged in the generation, storage, and consumption of hydrogen as an alternative energy source.

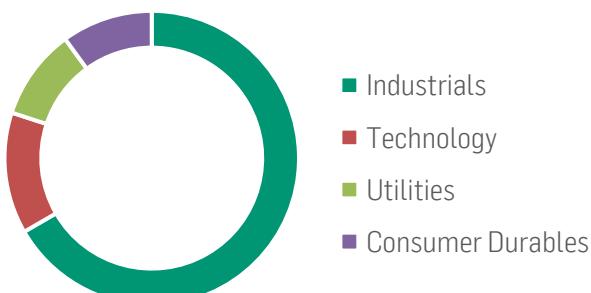
The index is not limited to core companies since there are only a few pure-play companies that are liquid enough to be reflected in an index. There are two reasons for this: high costs of the clean hydrogen production and high initial investments. As a result, many of the industry's developments are being achieved by large non-pure-play companies, since they can afford to bear entry costs as well as R&D expenditures. However, over time, the number of active players in the hydrogen industry or in related value-chains is expected to increase.

The recent stock price performance of the index constituents is very strong, especially that of pure plays. It appears that companies active in the hydrogen economy are already benefitting from the observed increase in demand for hydrogen-based solutions, as well as from the industry's expected continuation of strong growth.

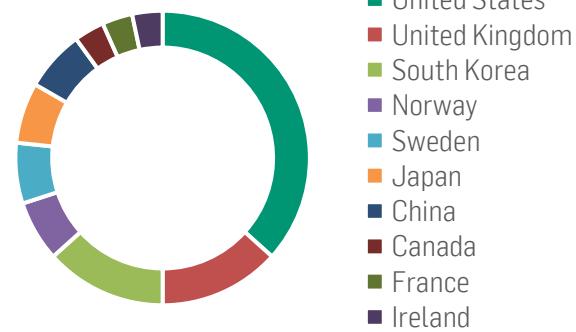
Sector and country weights, equal weight index version with 30 constituents

(Size and liquidity filters: FF sec-level mcap > 100m USD, ADTV 6 months > 1m USD)

Composition by Sector

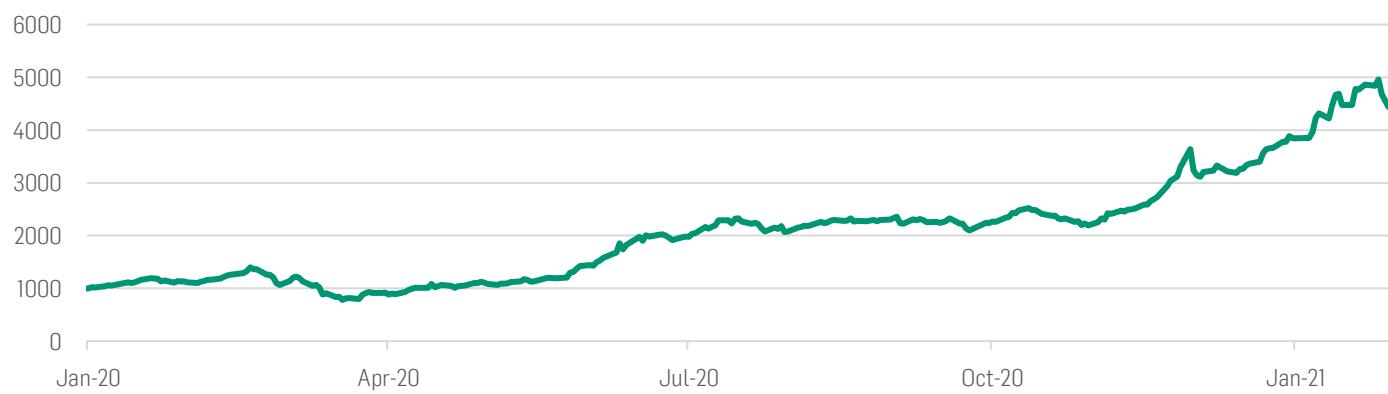


Composition by Country



Back-cast: Dec-31, 2019 until Jan-29, 2021, equal weight versions with 30 constituents

(In USD, Total Return)



SOLACTIVE ARTIS® SUSTAINABLE MOBILITY INDEX

INVESTING IN ALTERNATIVE TRANSPORTATION METHODS



powered by **ARTIS**®

How environmentally-friendly are our cities? To enjoy the benefits of living in a metropolitan area and building on a sustainable future, we need clean mobility solutions. Our **Solactive ARTIS® Sustainable Mobility Index** tracks companies enabling sustainable ways of coming from A to B.



Investment idea

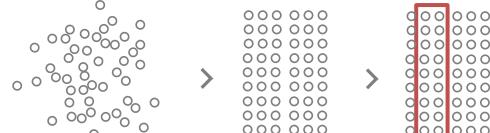
Population growth, as well as its flock towards global metropolises, will prove to be a challenge for urban planners within the next generation.

Congested urban centers are not the only externality overpopulation may bring. A rise in pollution could also result from a worldwide increase in fossil fuel consumption by traditional means of transport.

Our index benefits from the rise in demand for sustainable mobility solutions. The index focuses on micro mobility, such as bicycles, electric bicycles, and e-scooters, as well as on public transportation. With increasing climate awareness, the Sustainable Mobility Index counts on a rethinking of mobility.



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Top index constituents

> Lyft	> Yadea
> Uber	> Giant Manufacturing
> Niu	> Facedrive



SOLACTIVE ARTIS® SUSTAINABLE MOBILITY INDEX

INVESTING IN ALTERNATIVE TRANSPORTATION METHODS

Index Description:

Walking, bicycle, e-bike and e-scooters, public transport, carpools, taxis, and cars. This list is a sustainability ranking for personal mobility, as for example within cities. Whereas nothing beats walking for environmental and health reasons, the Solactive ARTIS Sustainable Mobility Index focuses on a combination of convenient – where also speed matters – and sustainable ways of moving forward.

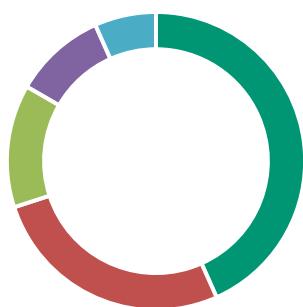
The index concentrates on sustainable mobility, such as micro mobility (bicycles, scooters, etc.) electric micro mobility, public transport, car sharing and pooling.

Companies within the index are platform providers of mobility solutions, bicycle and parts producers, or producers of e-scooters, among others. The index offers exposure to a mix of manufacturers as beneficiaries of the fast-evolving trend around micro mobility, and newly emerged companies that offer technological solutions as for example in the field of ride-on-demand. The companies are pioneers as well as well-established players in getting people from one place to another in a sustainable way.

Sector and country weights, equal weight index version with 30 constituents

(Size and liquidity filters: FF sec-level mcap > 100m USD, ADTV 6 months > 1m USD)

Composition by Sector



- Consumer Durables
- Technology
- Industrials
- Consumer Services
- Finance

Composition by Country



- United States
- China
- Taiwan
- Cayman Islands
- Canada
- Netherlands
- Japan
- South Korea
- Other

Back-cast: Dec-31, 2019 until Jan-29, 2021, equal weight versions with 30 constituents

(In USD, Total Return)



FUTURE WAY OF LIFE



Global society is evolving rapidly. Consequentially, our lifestyles are changing alongside with it. On the one hand, global improvements in health and education levels have resulted in longer lifespans, as well as in better quality of life. On the other hand, technological developments are shaping not only the way we consume and spend our leisure time but also how we interact and socialize with one another in a digitalized world.

As continuous changes in demographic and lifestyle trends are taking place along with a catch up by emerging economies towards better living standards and higher wealth levels, an ongoing shift in the consumer behavior space is expected. Companies that serve the customer needs of today and tomorrow by offering adequate goods and services will benefit from the dynamic changes of society. The requirements to digitalize and cater an ageing – and more urbanized – global population are among the top challenges for companies to adjust for towards the society of the future.

What does Solactive do in the Field of Future Lifestyle?

Solactive's "Future Way of Life" index family is set to benefit from the developments of firms well suited to meet the necessities of a continuously changing society. Our perspective is that companies that are able to better adapt to previously-unthinkable and non-stopping global evolutions will not only profit from but also grow alongside them. Such beneficiaries stem from a wide array of businesses, from the online gaming and streaming sectors, to the builders and developers of future cities – as well as consumer-oriented companies growing in a rising degree of consumerism.

Future Way of Life – Our Index Offering

We are constantly working on thought-provoking index concepts related to social developments and the future lifestyle in order to make this trend easily accessible for the investment community. Our inspirations for these concepts are derived from closely monitoring and evaluating long-term shifts in economic and societal activity. High conviction indices we have created within this space are the following:

- > Solactive ARTIS® Future of Entertainment Index
- > Solactive ARTIS® Experience over Goods Index
- > Solactive ARTIS® Food Innovation





powered by **ARTIS®**

Our everyday activities are becoming ever-more digital. The means of entertainment have followed this trend and changed radically. Our **Solactive ARTIS® Future of Entertainment Index** tracks companies set to benefit the most from future developments in the world of entertainment.



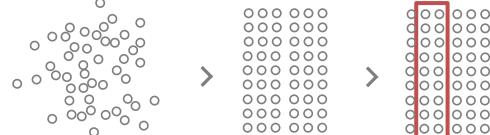
Investment idea

Technological progress enables various forms of entertainment that were previously inconceivable. Currently, people are a click away from playing videogames with gamers worldwide or consuming on-demand video and audio streaming.

The Solactive ARTIS® Future of Entertainment Index is comprised of companies that are disrupting the entertainment industry. The index constituents are revolutionizing the world of entertainment by providing video and music streaming or video- and online games. These companies make digital experiences tangible and enable the users to get entertained every day.



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Top index constituents

> LiveXLive Media	> Take-Two Interactive Software
> NetEase	> Activision Blizzard
> Walt Disney Company	> Bilibili



Index Description:

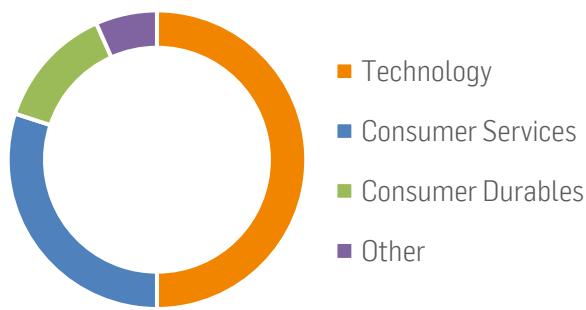
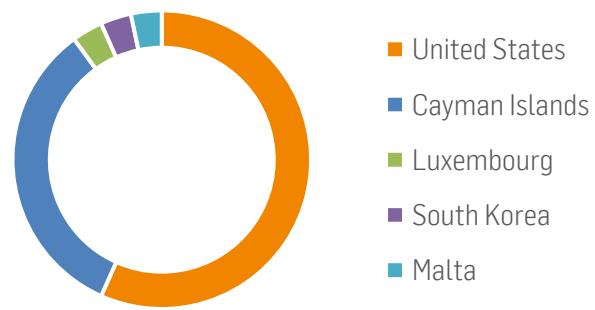
The Solactive ARTIS® Future of Entertainment index includes companies that are enabling leisure activities in the digitalized world. Companies eligible for the index have been selected based on their relevance to the following segments:

- Online gaming (including computer and mobile videogames, esports streaming, and game consoles)
- Video streaming (including movie streaming, live broadcasting, and video sharing websites)
- Music streaming (including podcasts and audio streaming platforms)

Digital platforms match users to either a service or content or providers of such. The use is non-rival, meaning that more than one user can consume at the same time. The scalability plays a major role and offers plenty of upside potential – as revenues grow with users whereas costs can be controlled. The underlying business models are centred around the distribution of digital content – with the main applications being related to having fun. The 30 constituents would have performed well over the year 2020 and are expected to benefit from future developments in the digitalization of everything.

Sector and country weights, equal weight index version with 30 constituents

(Size and liquidity filters: FF sec-level mcap > 100m USD, ADTV 6 months > 1m USD)

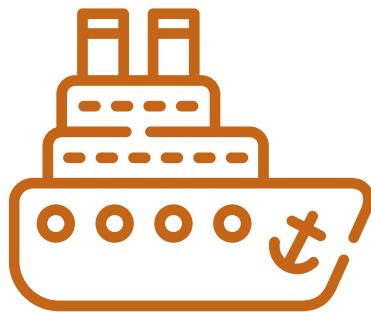
Composition by Sector

Composition by Country

Back-cast: Dec-31, 2019 until Jan-29, 2021, equal weight version with 30 constituents

(In USD, Total Return)



SOLACTIVE ARTIS® EXPERIENCE OVER GOODS INDEX

INVESTING IN THE EXPERIENCE ECONOMY



powered by **ARTIS®**

Experiences and impressions bring people more joy and happiness than material goods. Our **Solactive ARTIS® Experience over Goods Index** tracks companies set to benefit the most from the culture of enjoying experiences rather than owning things. It is about a lasting change in consumer behavior.



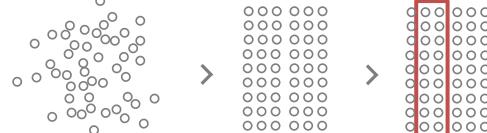
Investment idea

Throughout time, consumption patterns are constantly changing. Millennials often prioritize experiences over material goods since the former provides profound emotions and long-lasting memories. But not only the young folks' spending behaviors change, as it is a human desire to experience adventures. Imagine a businesswoman taking a sabbatical to explore the world or a retiree visiting art festivals and going on city trips.

The Solactive ARTIS® Experience over Goods Index' constituents are shaping the experience economy which is all about enjoying experiences instead of owning goods.



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Top index constituents

> Lyft	> Carnival Corporation
> LiveXLive Media	> Uber Technologies
> Quhuo	> Walt Disney



SOLACTIVE ARTIS® EXPERIENCE OVER GOODS INDEX

INVESTING IN THE EXPERIENCE ECONOMY

Index Description:

The index is designed to track the experience economy, which is growing thanks to changing values and shifting consumption mindsets. The index constituents sell emotions, feelings, and experiences through their services, or enable to share things. The index reflects well-established and rather old businesses as well as new economy companies. The index provides exposure to the following fields of the experience economy:

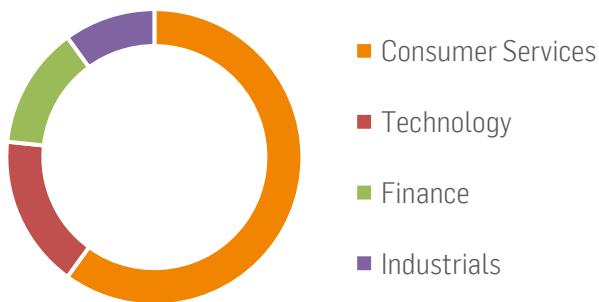
- Events (including planning and organization of festivals and concerts)
- Travel (including accommodation, transportation, and popular vacation activities)
- Sharing rather than owning (including flat sharing and ride sharing)

These fields are shaping the experience economy. Seven out of 30 companies are active in the industry Hotels / Resorts / Cruiselines, with four hotel chains and three cruise liners. Four companies are active in Other Consumer Services, running online travel services. Thus – based on the industry exposure – the index appears quite diversified despite its niche theme.

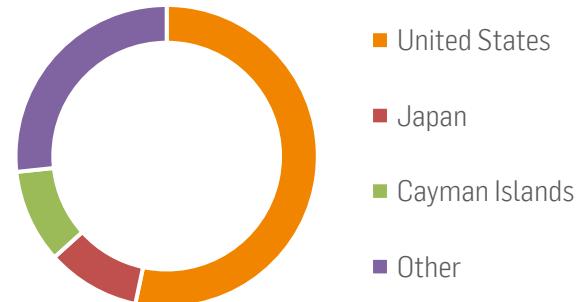
Sector and country weights, equal weight index version with 30 constituents

(Size and liquidity filters: FF sec-level mcap > 100m USD, ADTV 6 months > 1m USD)

Composition by Sector



Composition by Country



Back-cast: Dec-31, 2019 until Jan-29, 2021, equal weight version with 30 constituents

(In USD, Total Return)





powered by **ARTIS®**

High population growth rates and increasing health awareness incentivize food producers to shift towards efficient manufacturing and healthier products. The **Solactive ARTIS® Food Innovation Index** tracks industry leaders, which actively shape science-based solutions to food manufacturing.



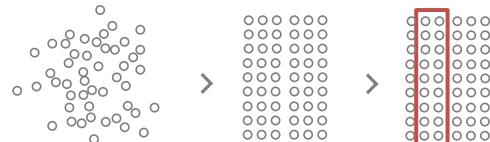
Investment idea

Nowadays, the food industry faces two main challenges: how to nourish around 10 billion people by 2050 and how to address the trend of health awareness. To tackle these issues, healthy nutrition solutions, plant-based proteins, and dietary supplements are needed. Innovative food producers implementing science-based solutions are likely to have a competitive advantage in the market.

The index provides exposure to the leading and most innovative companies in the food industry. The constituents are at the forefront of healthy nutrition, vegan food manufacturing, and dietary supplements production.



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Top index constituents

> Beyond Meat	> Maple Leaf Foods
> Burcon NutraScience	> BellRing Brands
> Archer-Daniels-Midland	> Kerry Group



Index Description:

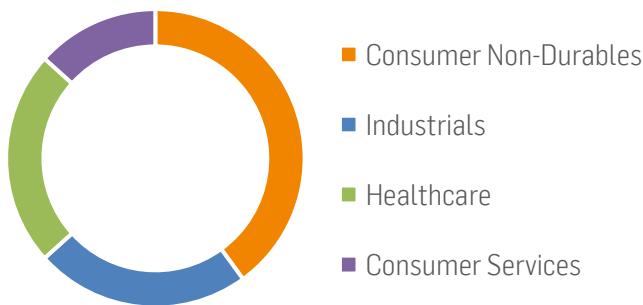
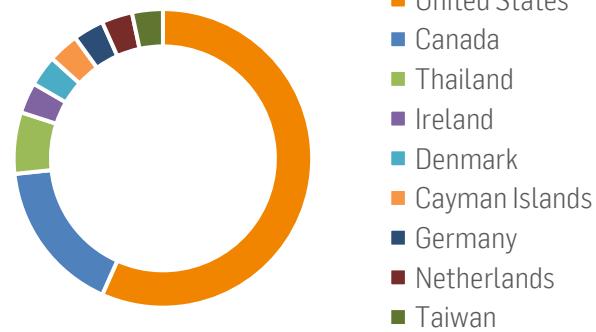
Companies that implement innovations in food manufacturing will have a solid base to grow, and the index focuses on early adopters in the field. The companies in the index are taking advantage of the latest technologies in the food industry and offer a healthy and efficient diet. Thus, they contribute to the achievement of Zero Hunger – the second Sustainable Development Goal adopted by the United Nations Member States. To cover the main areas of food innovation, we carefully choose companies that are active in the following segments:

- Healthy nutrition (protein meals, healthy snacks, organic ingredients)
- Vegan food (plant-based protein, ready-to-cook solutions)
- Science-based nutrition solutions (dietary supplement, flavorings)

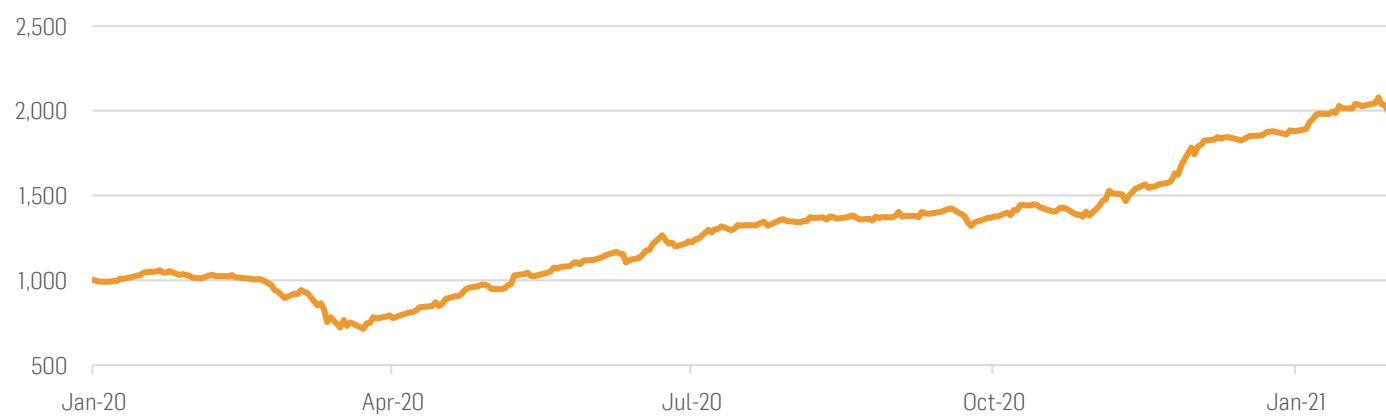
In the Solactive ARTIS® Food Innovation Index, we apply a negative screening to filter out unhealthy nutrition, such as junk and fast food, as well as candy, soda, and sugar-loaded nutrition.

Sector and country weights, equal weight index version with 30 constituents

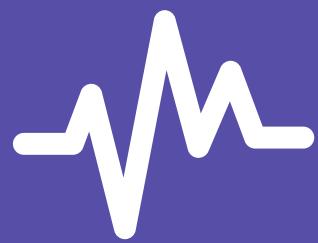
(Size and liquidity filters: FF sec-level mcap > 100m USD, ADTV 6 months > 500k USD)

Composition by Sector

Composition by Country

Back-cast: Dec-31, 2019 until Jan-29, 2021, equal weight version with 30 constituents

(In USD, Total Return)



FUTURE HEALTH AND WELL-BEING



Over recent history, progress in areas such as vaccination and sanitation have dramatically increased our life expectancy. We expect that technological breakthroughs in disciplines such as healthcare, robotics, genomics, and biotechnology will continue to significantly improve our health and well-being. These improvements will fundamentally change how we prevent, diagnose, and cure diseases. Indeed, sustaining well-being besides treating illnesses will increase in importance for humankind. The youngest example is the tragic coronavirus pandemic.

Each breakthrough and innovation, while reshaping our understanding and expectation of healthcare, are also coming with their own challenges. Increasing lifespan and costs are putting an additional strain on our healthcare system. To rise up to the challenge, measures to boost efficiency are enabled through big data and mobile health technologies, allowing non-traditional companies to enter the medical markets, as for instance in the fields of diagnosis and monitoring.

What does Solactive do in Health and Well-Being?

Solactive's "Future Health and Well-Being" index family is set to benefit from the societal shift towards a better quality of life, as well as from medical and technical innovations such as genetic modification. This shift will push companies to provide evermore focused patient care and innovations that will drive growth in a number of sectors – from pharmaceuticals and computer science to well-being. Therefore, we are committed to develop indices composed of companies that are shaping a healthier future.

Future Health and Well-Being – Our Index Offering

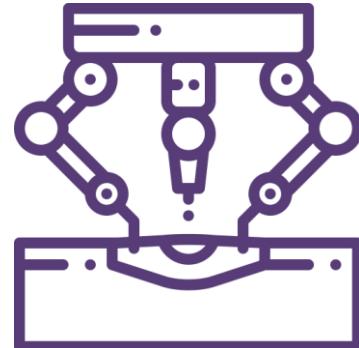
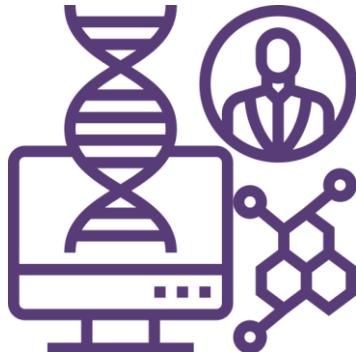
Companies operating at the forefront of maintaining and improving humankind's healthiness and well-being are at the center of Solactive's research endeavors. Science and developments in fields such as innovative healthcare and well-being offer plenty of investment opportunities. We are constantly working on new index ideas and concepts in this space – please find two high conviction themes in the following:

- > Solactive ARTIS® Smart Healthcare Index, consisting of five sub-themes:
Medical imaging, robotic surgery, biotech and genomics, e-Health, and data-driven health
- > Solactive ARTIS® Future Fitness Index



SOLACTIVE ARTIS® SMART HEALTHCARE INDEX

INVESTING IN TECHNOLOGICAL ADVANCEMENTS IN HEALTHCARE



powered by **ARTIS®**

HealthTech and advanced methods of medical data collection, processing, and interpretation ensure optimized patient treatments. Our **Solactive ARTIS® Smart Healthcare Index** tracks leading companies that develop and implement intelligent technologies in healthcare.



Investment idea

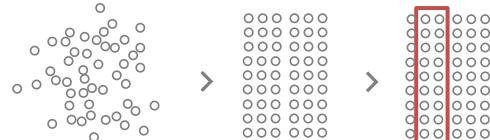
Progress in interdisciplinary sciences is shaping our healthcare system. Innovative technologies ensure efficient diagnostic, surgery, and (post-treatment) monitoring. Major players developing and implementing such technologies are revolutionizing healthcare and will benefit from further industry growth.

The Solactive ARTIS® Smart Healthcare Index focuses on five distinctive themes and covers the following fields: medical imaging, robotic surgery, biotech and genomics, e-health, and data-driven health.

As industry leaders and fast-growing entrants, the index constituents enable a healthy future.



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Top index constituents

> Koninklijke Philips	> Teladoc Health
> TransEnterix	> DexCom
> CRISPR Therapeutics	> MTBC



SOLACTIVE ARTIS® SMART HEALTHCARE INDEX

INVESTING IN TECHNOLOGICAL ADVANCEMENTS IN HEALTHCARE

Index Description:

The index consists of companies actively defining technological advancements in the healthcare industry. We have created five portfolios that cover the whole patient journey from diagnostics to health monitoring:

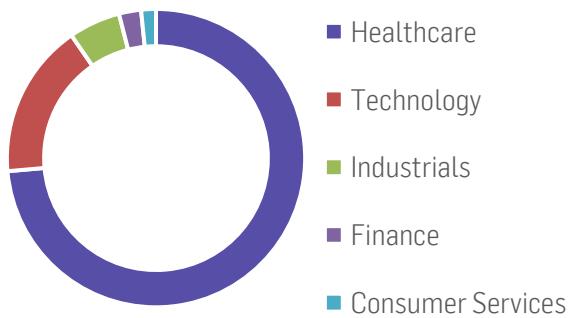
- Medical imaging – companies ensuring (early) diagnostics via visual representation of the human body
- Robotic surgery – companies enabling precise and safe surgeries with the help of machines and robots
- Biotech and genomics – companies revolutionizing biotechnology, e.g., by creating treatment for rare diseases
- E-Health – companies digitalizing the patient experience and offering remote and digital health services
- Data-driven health – companies collecting and processing medical data to benefit from progress in big data and AI

The compositions can be combined or considered as stand-alone indices. The index constituents shape the future of health by exploring and developing cutting-edge biotechnology, health robotics, diagnostic imaging, wearables, and internet of medical things solutions. Employing innovative technologies, these companies enhance both length and quality of life.

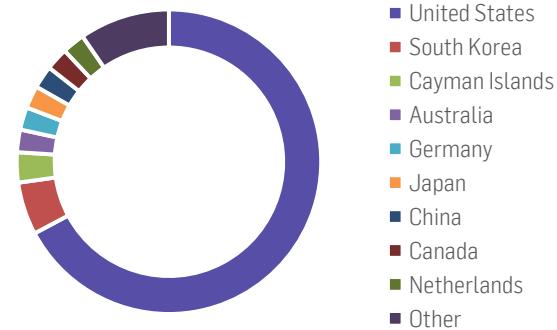
Sector and country weights, equal weight index version with all five categories

(Size and liquidity filters: FF sec-level mcap > 100m USD, ADTV 6 months > 1m USD)

Composition by Sector

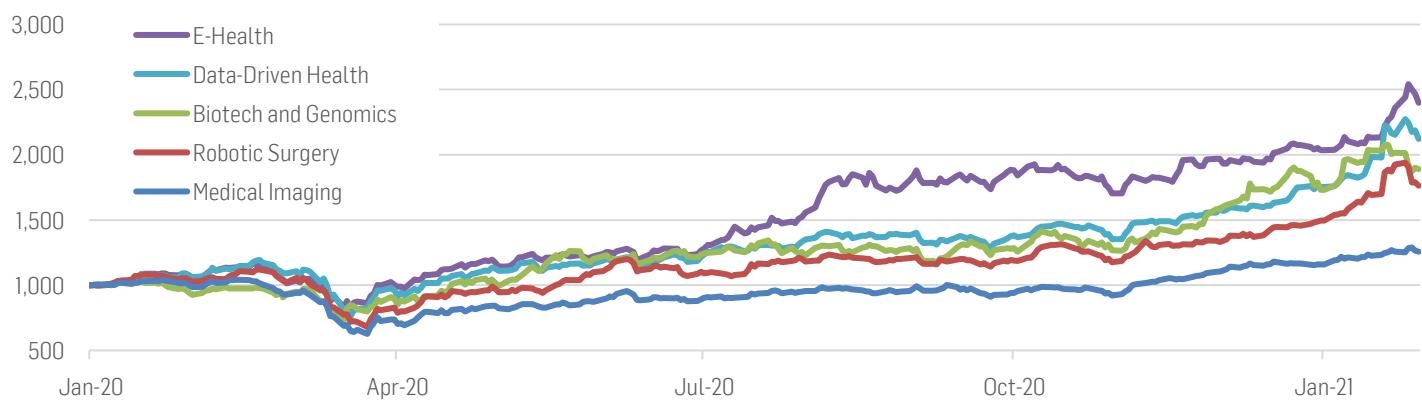


Composition by Country



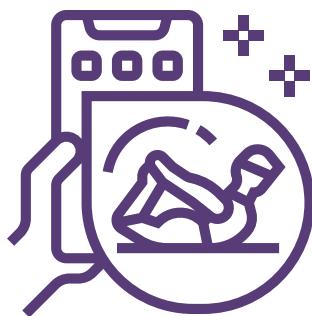
Back-casts: Dec-31, 2019 until Jan-29, 2021, equal weight versions with 25 constituents per category

(In USD, Total Return)



SOLACTIVE ARTIS® FUTURE FITNESS INDEX

INVESTING IN THE NEW ERA OF SPORTS



powered by **ARTIS®**

A great degree of connectivity and data usage is enabling an evolution in the sports industry. Trending examples are smart fitness equipment and on-demand training. Our **Solactive ARTIS® Future Fitness Index** tracks companies that enable customers to lead a healthy lifestyle in a digitalized world.



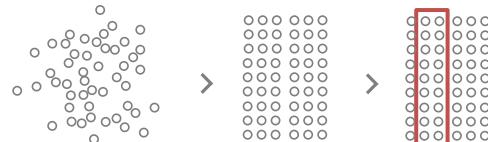
Investment idea

Advanced technologies are constantly changing different aspects of our lives. Fitness is among the industries experiencing a boost through digitalization. Activity trackers, interconnected sports equipment, and on-demand trainings are set to revolutionize the fitness economy.

Against this backdrop, we have created the Solactive ARTIS® Future Fitness Index. The index provides exposure to companies that disrupt the fitness industry, producing high-tech fitness devices, smart sports equipment, and digital training platforms. The index constituents are the major beneficiaries of the trend towards digitization in the sports industry.



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To create such insight, ARTIS® goes through large volumes of publicly available information such as annual reports, business descriptions, or financial news and identifies which companies and to what degree they are relevant to the respective theme.



Top index constituents

> Peloton Interactive	> Huami Corporation
> Nautilus	> Rexon Industrial
> Dyaco International	> Johnson Health Tech



SOLACTIVE ARTIS® FUTURE FITNESS INDEX

INVESTING IN THE NEW ERA OF SPORTS

Index Description:

The Solactive ARTIS® Future Fitness Index benefits from advanced technologies enabling remote sports activities and making fitness more efficient. The index encompasses companies that are active in the following business segments:

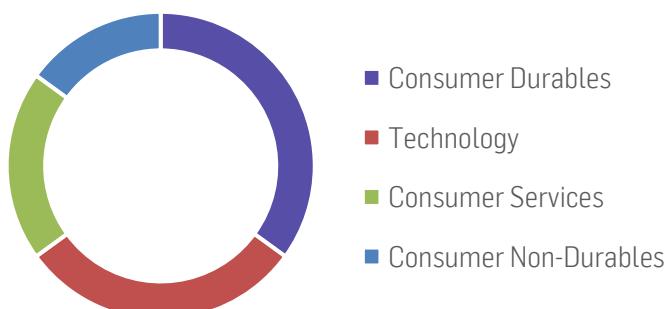
- Home workout equipment (interconnected fitness equipment, including treadmills, indoor bikes, etc.)
- Fitness devices and wearables (fitness trackers, smartwatches, and body condition monitoring devices, among others)
- Digital community (online training platforms, customized and optimized training plans, on-demand videos).

All companies benefit from the rising appetite for on-demand sport activities. This long-term trend is based on the constantly increasing pace of life, growing health awareness, and the development of the isolation economy due to the Covid-19 pandemic. The index constituents gain considerable advantage from these market developments and are expected to demonstrate further growth.

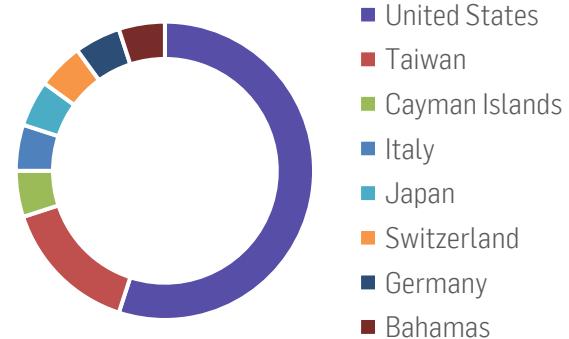
Sector and country weights, equal weight index version with 20 constituents

(Size and liquidity filters: FF sec-level mcap > 100m USD, ADTV 6 months > 1m USD)

Composition by Sector

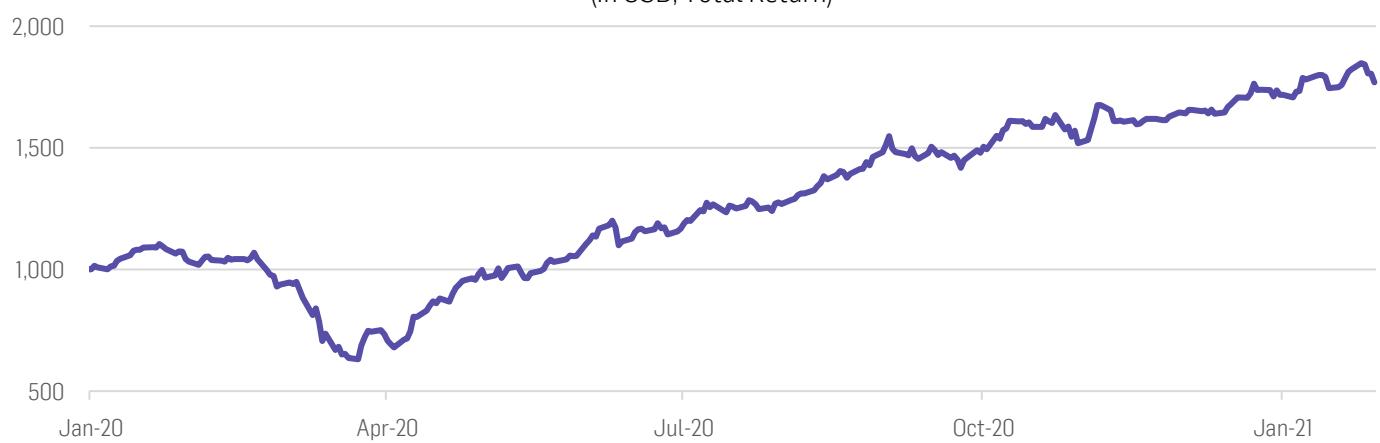


Composition by Country



Back-cast: Dec-31, 2019 until Jan-29, 2021, equal weight versions with 20 constituents

(In USD, Total Return)

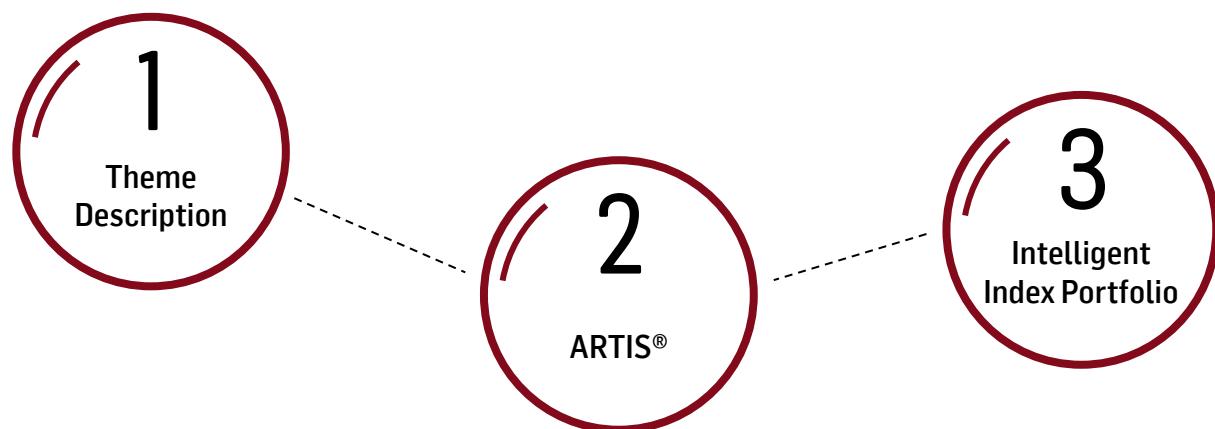


ARTIS®

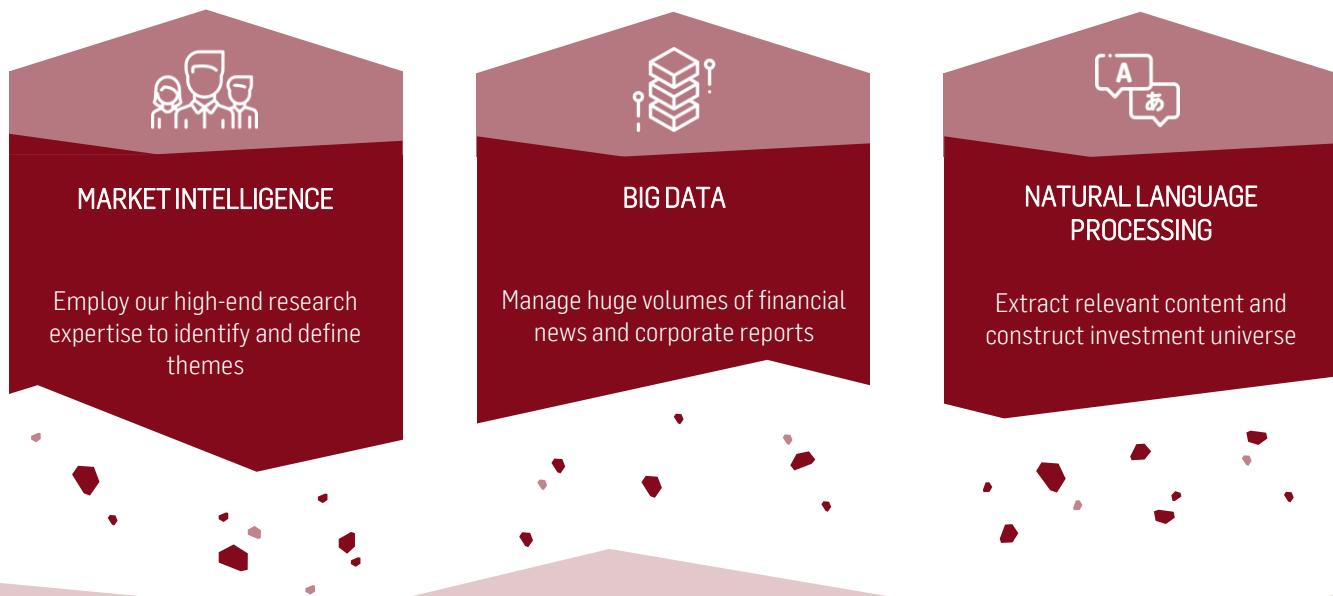
POWERED BY INNOVATION

Solactive's dedicated and skilled team of data scientists and developers work meticulously on a new generation of index development engines, making use of the latest technological infrastructure to apply cutting edge machine learning and natural language processing to a huge amount of data. The result is **Solactive's Algorithmic Theme Identification System: ARTIS®**.

ARTIS® is Solactive's proprietary natural language processing software that identifies thematic exposures in companies by analyzing more than 500,000 text documents. It functions as a multi-dimensional classification tool that generates a deeper understanding of the products and services a company offers, especially when that company is active in multiple markets and offers various product lines. As such, we use ARTIS® to find companies that are relevant players in the respective theme and use that universe to create indices.



The Three Pillars



Disclaimer

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