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The increasing complexity, number, and magnitude of challenges that today’s businesses need to address mean that companies are no longer able to survive on their own, let alone thrive. As a result, business ecosystems are on the rise since they have been proven to provide significant competitive advantages and other benefits for their members.

This development requires a new conceptual framework to better illustrate the new economic order, ultimately giving rise to a new equation for calculating future global market size. There has long been a need for quantitative evidence on the market potential of business ecosystems. In addition to theoretical and qualitative work on business ecosystems, this study pursues a quantitative approach to the topic with the aim of quantifying market size and potential in global business ecosystems.

The new framework that this study proposes is based on the Ecosystem Strategy Map. It positions the human in the centre, surrounded by ten Life Areas that comprehensively represent human needs. All products and services in ecosystems can be structured around the end consumer using these ten Life Areas. There are also 15 overarching Ecosystem Domains, which represent a second means of structuring products and services.

By 2030, two thirds of global economic activity will take place within one third of Ecosystem Domains. The Ecosystem Domains that will represent the majority of global economic activity will be Infrastructure (18%), Customised and Fast Demand Fulfilment (15%), Personal Wealth and Legal (14%), Holistic Wellbeing (13%), and Adaptive Development (6%).

B2B Services will be the fastest-growing global Ecosystem Domain.

Living is the largest Life Area in all global regions examined and will still be the largest in 2030.

Health is expected to be the fastest-growing Life Area in the world between now and 2030.

The study made use of the UN’s standardised ISIC codes, which were mapped onto the ten Life Areas and 15 Ecosystem Domains of the Ecosystem Strategy Map. A validated quantitative model was then used to calculate the market potential for business ecosystems in different regions (world, Europe, NAFTA) by examining value added. Market sizes in 2019, 2025 and 2030 were also explored to identify developments and changing value potential over time. This examination of different points in time and different economic regions generated significant findings for almost all industries and market participants.

The results of the study provide today’s managers and leaders with clear guidance to successfully navigate the increasingly complex world of business, enabling companies to find the ideal strategic position for their ecosystem within the Ecosystem Life Areas and Domains. This guidance for securing the greatest future wins in ecosystems can be summarised in six simple steps:

1. Establish an ecosystem mindset by investing in change management.
2. Expand focus by eliminating any existing boundaries.
3. Carry out honest and in-depth analysis of the organisation’s capabilities to determine its current position on the Ecosystem Strategy Map.
4. Decide on the target position using the insights from this study.
5. Find the right partners beyond traditional industry boundaries that will enable the company to offer greater value to its end customers.
6. Pull everything together and put it into practice.

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6. Pull everything together and put it into practice.
1 Industries are converging, merging and fusing

The ongoing digital transformation is currently giving rise to advanced smart technologies such as cyber-physical systems, the internet of things (IoT), on-demand computer system resources, and cognitive computing. One essential capability for making use of these technologies is data and analytics. Together, these technologies enable increased connectivity and decentralised decision-making. Some industries are suffering as a result of this transformation – for example, industries whose products have become commodities (e.g. telecommunications, stock trading, transport services) or industries in an intermediary role that has been leapfrogged by digital transformation (e.g. banks). On a holistic level, however, there is great potential for increased efficiency.

However, it is no longer just business models that are being called into question: the traditional industry-focused perspective as a whole is also being challenged. The increasing complexity, number and magnitude of challenges that today’s businesses need to address mean that companies are no longer able to survive on their own, let alone thrive. In the future, we will no longer think in terms of industries and value chains alone. To ensure success, companies will have to establish themselves in business ecosystems. Business ecosystems will lead to tectonic shifts in all industries: industries will converge, merge and fuse, and organisations will need to constantly adapt (e.g. moving from automotive production to multimodal mobility solutions). This new era of economic thinking will require new ways of organising business.

2 Drivers of change in business

Three key drivers for the emergence of business ecosystems can be identified: platforms, merging product and service, and data sharing.

Many business ecosystems contain platforms

Digital platforms are penetrating and shaping most areas of business. For example, e-commerce is increasingly shifting to platforms, and other industries – such as the printing industry or asset managers – are discovering subscription models. Disruptive change within individual industries has become commonplace. This is fundamentally nothing new in business, but the speed of change today is enormous and unprecedented. Many (but not all) business ecosystems are based on digital platforms that facilitate and accelerate distribution of resources and coordination between participants. Therefore, platforms are a key part of the infrastructure that enables and simplifies business ecosystems and collaboration among their members. Uniform protocols and standards and a corresponding governance structure are further core elements of platforms. Owners of platforms play a central role in ecosystems without contributing anything tangible to the system. Not all companies have to become platform owners, but they do need to think in terms of business ecosystems. This is necessary in order to learn how the collaboration of different players to meet customer needs can open up new business areas for everyone involved.

It is important to make a distinction between platforms and business ecosystems. Platforms provide the basis for many ecosystems by reducing transaction costs and enabling network effects. Business ecosystems, on the other hand, enable companies to evolve from an isolated value chain to a value network with other players: these create vendor lock-in and do not necessarily have to be platform-based.

Merging product and service drives business ecosystem development

Of course, collaboration across company boundaries is not new, but it is becoming more important as a way to ensure future success. Customer needs are becoming increasingly complex and can no longer be satisfied by individual product solutions. For example, the human need for mobility can only be satisfied through the interplay of public, shared and private offerings. In addition, suitable infrastructure (e.g. roads, mobile internet), energy supply and financing are needed. Integrated solutions that comprehensively focus on these aspects are required to meet customer needs. Business ecosystems provide a platform for such collaboration, enabling companies to work together to create value for customers. The use of data and analytics is critical to the success of business ecosystems, as it enables companies to understand customer needs and preferences and to develop products and services that meet these needs. The use of digital platforms also enables companies to create value through the sharing of resources and the coordination of activities.

References

3 Schmidt, H., 2019.
The established economic order is getting shaken up. Companies are increasingly realising that they need to transform their traditional business models, and that data-driven services and business models are becoming indispensable. More data and knowledge about customers and their needs leads to the merging of formerly separate industries: multi-industry ecosystems emerge by sharing and jointly analysing data.

Digital transformation will not turn every business model and every company upside-down, but the general conditions will change for all companies: blurring boundaries between products and services will play just as important a role as technology.

### Data sharing is becoming a key success factor

The third key driver of ecosystem dominance in business is the need for data sharing. Individual companies have neither the ability nor the resources to gain the all-important insights into customer data that they need to develop their value proposition. To do so, they almost invariably need to access data from other companies. At the same time, however, attracting employees with the necessary skills also plays an important role. Many companies cannot hire experts quickly enough in sufficient numbers – the battle for talent is extremely tough. In this respect, it makes sense to join forces with other companies to gain data collection and data analytic capabilities.

### 3 The consequence: the emergence of multi-industry business ecosystems

Technological advances, combined with human-centric design, have created the success of digital platforms in the last decade. This was visible during the development of the four major tech giants – Google, Apple, Facebook (now Meta) and Amazon, also known as GAFA. Today, these companies are emerging as the first digitally enabled, human-centric ecosystems, representing the beginning of the ecosystem era. At the same time, large Chinese ecosystem companies such as Alibaba, PingAn and Tencent are growing even bigger and faster than their American counterparts.

A comparison of the market value of the world’s most valuable companies (see Figure 1) shows this development: it can be clearly seen that companies in traditional industries (e.g. oil, gas, financial sector) are being replaced by digital platforms and ecosystems. In addition to this new dominance of tech giants, there has also been enormous growth in the total market values of the top 10.

![Fig. 1 Market value of the 10 most valuable companies in 2011 and 2021](image-url)

<table>
<thead>
<tr>
<th>Name</th>
<th>Market value 2011</th>
<th>Name</th>
<th>Market value 2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>ExxonMobil</td>
<td>$417.2bn</td>
<td>Apple</td>
<td>$2,252.3bn</td>
</tr>
<tr>
<td>A Chinese oil and gas company</td>
<td>$326.2bn</td>
<td>Microsoft</td>
<td>$1,966.6bn</td>
</tr>
<tr>
<td>Apple</td>
<td>$321.1bn</td>
<td>Saudi Aramco</td>
<td>$1,897.2bn</td>
</tr>
<tr>
<td>ICBC</td>
<td>$251.1bn</td>
<td>Amazon</td>
<td>$1,711.8bn</td>
</tr>
<tr>
<td>Petrobras</td>
<td>$247.4bn</td>
<td>Alphabet (Google)</td>
<td>$1,538.9bn</td>
</tr>
<tr>
<td>BHP Billiton</td>
<td>$247.1bn</td>
<td>Facebook</td>
<td>$870.5bn</td>
</tr>
<tr>
<td>China Construction Bank</td>
<td>$232.6bn</td>
<td>Tencent</td>
<td>$773.8bn</td>
</tr>
<tr>
<td>Royal Dutch Shell</td>
<td>$228.1bn</td>
<td>Tesla</td>
<td>$710.1bn</td>
</tr>
<tr>
<td>Chevron</td>
<td>$215.8bn</td>
<td>Alibaba</td>
<td>$657.5bn</td>
</tr>
<tr>
<td>Microsoft</td>
<td>$213.3bn</td>
<td>Berkshire Hathaway</td>
<td>$624.4bn</td>
</tr>
</tbody>
</table>

1 Financial Times, 2011.

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Incumbent players are being challenged or disrupted
The emergence of business ecosystems, fuelled by the drivers mentioned above, has several implications for business. One is massive new competition from outsiders: incumbent players are being challenged or disrupted by newcomers which were little-known or even completely non-existent a few years earlier. Companies will no longer be able to base their strategies on tactics for gaining a competitive advantage against their traditional competitors. The new competition is from rapidly emerging ecosystems.

Ecosystems also shorten product life cycles because they accelerate innovation, and thus the development of new products. A single innovative idea can disrupt an entire industry and its established companies overnight. To defend against this, companies need to leverage their strengths: individual knowledge of customer needs, know-how, and potential access to the entire business ecosystem are key advantages that companies must build on.

Example: Apple Pay
Apple introduced Apple Pay in 2014. The company acts as an intermediary between banks and stores by simplifying the payment process, using near-field communication (NFC) and Apple Wallet. Apple is thus attacking typical banking business and occupying the all-important customer touchpoint. The power of Apple’s existing ecosystem has forced banks to become part of it. Non-Apple credit cards had to be integrated when the service first launched, but the Apple Card was introduced as a credit card for Apple Pay in 2019. The banking partner of the Apple Card is Goldman Sachs. Omer Ismail, formerly responsible for the Apple Card at Goldman Sachs, said at the IGNITION: Transforming Finance event that the Apple Card cannot make any profit at the conditions offered; it is more about gaining a foothold in a new market. Apple has not limited itself to the financial services market: for example, similar activities can be observed in the healthcare market with Apple Health.

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8 Hicks, H. M., Gilcreast, A., Marais, H. et al., 2021.
Small numbers of companies monopolise access to customers
The companies behind large business ecosystems based on platforms monopolise access to customers across actors from all industries: they control capabilities, define standards for the entire system, and thus determine the nature of interaction and networking within the ecosystem.

In this kind of platform-based business ecosystem it is important to understand that ecosystems are a winner-takes-all paradigm. Once a platform has established itself and the ecosystem on top of it has formed, it is almost impossible to compete against it. In this case, the best course of action – and the way to go for most companies – is to join the ecosystem. Dealing with ecosystems is a matter of companies understanding the new framework, finding their way around it and finding their own role in it. Regardless of the role in which money is earned, more will become available for everyone as the ecosystem gets bigger.10

Example: Facebook is monopolising the communications market through acquisitions
Facebook initially started with a digital platform and a clear user promise: “give people the power to build community and bring the world closer together”. This value was delivered by a transaction-based business through connecting social media users with advertising customers. Over time, Facebook then continuously expanded its platform into an ecosystem through acquisitions (e.g. WhatsApp, Instagram) and partnerships (e.g. third-party apps such as Tinder or Spotify). In the future, this will be extended with new augmented and virtual reality ecosystem-based services in the recently announced “Metaverse” digital world.

Facebook already analyses usage patterns by identifying devices and locations across its apps and websites to customise content and user experience. Drawing on information about user behaviour and preferences enables Facebook to provide targeted advertising. Moreover, Facebook has been establishing joint services and solutions with many of its B2B clients to help these clients do business better (e.g. through data-driven campaigns that are highly customised to their target groups). Using its family of apps and partnerships, the Facebook ecosystem leverages and multiplies complementary inputs into a seamless user experience. From its very beginning, Facebook has been going through the transformation from a narrow platform-based social media business to an ecosystem that integrates a comprehensive range of needs and creates superior value propositions.

Competition must be thought of much more broadly, adding sustainability as a crucial element. Up until now, the focus of sustainability considerations has often been on the individual company. Some parts of the supply chain are considered, but complete and comprehensive examination of the entire ecosystem is rarely carried out. There are several reasons for this, not least the fact that thinking in ecosystems is not yet comprehensively established. However, this is necessary: sustainability issues can only be solved holistically, involving all stakeholders. An industrial company, for example, will need to rely on close collaboration with its suppliers and its entire ecosystem if it wants to reduce its environmental footprint. For industrial companies, most carbon emissions are in the supply chain and not within the company itself. Digital platforms enable these efforts to increase sustainability in ecosystems; for example, by providing a cloud-based system to help the entire ecosystem track, report and reduce carbon emissions.13

We are approaching a new era with new standards for what characterises a good and successful business. Creating impact, especially with a focus on sustainability, will become a fundamental imperative. This is an issue that companies will struggle to address on their own; ecosystems will be important for this transformation.

4 Creating impact with a focus on sustainability
Sustainability will be a key issue in the future: 90% of people say it is important that companies act sustainably and comply with the UN’s Sustainable Development Goals. But sustainability is more than just a component of a business model: it will be a new way of doing business. Companies will exist in an apparent conflict between profit and sustainability, even more clearly than is the case today. To resolve this and harmonise the two goals, companies will have to think in new ways and, as a result, engage strategically with business ecosystems. We need to rethink the entire economic system to successfully meet the challenges ahead.

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10 Fasnacht D., 2018.
11 PwC, 2015.
12 Global Goals Campaign, n.d.
The new economic order is creating a new perspective for examining business

1 A new paradigm: from B2C and B2B to ecosystem-to-human

The new economic order is changing our perspective for examining companies (see Figure 2). This new paradigm represents a shift from business-to-business (B2B) and business-to-customer (B2C) models to ecosystem-to-human (E2H)\textsuperscript{14}.

Strategic E2H thinking means looking at the big picture and asking “how can we make human lives easier? And who can we do it with?” This new paradigm is characterised by two major changes within companies:

1. **Change in focus of value creation**

2. **Change of company identity**

The focus of value creation describes why value is created and who it is created for, based on the company’s stated purpose. A company’s identity defines its operating model and how value is created. Joining an ecosystem involves a change in a company’s focus of value creation – for example, shifting from a focus on technology or assets to human needs. Its identity will also shift from self-centred to collective and holistic. This is associated with a change in the company’s operating model: whereas the focus has traditionally been on internal optimisation, the focus is now on optimising the entire ecosystem and adding new members to grow together. Instead of the company offering its own products and services, the focus in the ecosystem era must be on seamless and integrated solutions for human needs developed with partners. These solutions no longer originate from in-house research that is separated from the market; instead, they are developed together with customers in a data-driven process. The aim is no longer to be the best company, but to solve important problems in a network of companies.

This new perspective is reflected in the division of human needs into Life Areas. End customers use products and services depending on their needs. Thus, they are using offers from companies whose value propositions best match their individual needs. In the ecosystem era, the boundaries between individual company contributions to complex and integrated ecosystem offerings will become increasingly blurred. Companies must therefore understand and decide which Life Areas they want to serve in order to focus effectively on fulfilling core human needs.

**Fig. 2 Companies vs. ecosystems**

<table>
<thead>
<tr>
<th>Companies</th>
<th>View</th>
<th>Ecosystems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technological (narrow, specific, feature-driven)</td>
<td>Focus of value creation</td>
<td>Human needs (broad, user-driven, in the spirit of the age)</td>
</tr>
<tr>
<td>Self-centred</td>
<td>Company identity</td>
<td>Collective and holistic</td>
</tr>
<tr>
<td>Internal optimisation</td>
<td>Operating model</td>
<td>Optimisation of the entire ecosystem</td>
</tr>
<tr>
<td>Adding resources, labour and supply</td>
<td>Growth</td>
<td>Adding ecosystem members</td>
</tr>
<tr>
<td>Own services and products</td>
<td>Portfolio</td>
<td>Seamless, integrated experiences with partners</td>
</tr>
<tr>
<td>Research-driven</td>
<td>Innovation</td>
<td>(Customer) data-driven</td>
</tr>
<tr>
<td>Be the best company</td>
<td>Promise</td>
<td>Solving today’s important problems together</td>
</tr>
</tbody>
</table>

Source: Kawohl, J., Krechting, D., 2022. [Forthcoming].

\textsuperscript{14} Kawohl, J., Schilling, R., 2020.
2 The Life Area perspective: centred on human needs

Ecosystems ultimately fulfil human needs across all areas of life. From an E2H perspective, ecosystem products and services can be structured in ten Life Areas around the human in the centre. They are a holistic representation of life.

**Mobility**

Mobility is based on people’s need to change locations, regardless of the chosen means of transport. Common forms are land, water and air transport. The products and services offered provide freedom, flexibility and individuality to avoid isolation and seclusion. Hence, this Life Area includes mobility services such as taxis, subways, ferries and planes; personal vehicles such as cars, motorbikes and bicycles; and the necessary infrastructure such as roads, highways, train stations, harbours and airports. For a holistic representation of this Life Area, mobility manufacturing must also be added to this list, such as resource production, component manufacturing and vehicle assembly, along with supporting IT solutions such as navigation systems, autonomous driving software or car sharing apps.

**Health**

Health addresses the desire to maintain physical and mental health and to avoid any physical pain or health problems. The deeper concern is the fear of no longer being able to work properly or to live a long, healthy and active life, which is essential to thrive in today’s meritocracy. Therefore, proper sanitation and healthcare are required. Further objectives are improving the speed and quality of treatment. Goods and services included in this Life Area range from preventing illness, through preservation of health to aftercare. Typical market participants are hospitals, medical institutions, residential care facilities, pharmaceutical companies, medical technology manufacturers and health insurers. In addition to these players, others have entered the market by offering digital health services such as health trackers, fitness apps, brain training or hospital management solutions. Sanitation, wastewater treatment, nutritionists, fitness coaches and restaurants focusing on health are also assigned to this Life Area as they all prevent people from becoming ill.

**Recreation**

People will eventually feel the urge to recover, which is the human need targeted in the Life Area Recreation. This desire can either be satisfied with sleep or other recreational activities. Nevertheless, the definition of the latter option tends to be highly individual: some people might prefer calm activities such as sleeping, relaxing or wellness, whereas others might favour more active alternatives such as sports, travelling or pursuing a hobby to recharge. In general, fulfilling this need should avoid exhaustion, demotivation and stress while simultaneously increasing productivity, concentration and general wellbeing. Improving work-life balance is another objective in this Life Area.

**Work**

The focus of the Work Life Area lies in creating value for others. There are two possible motives for this: people can either work to earn money, or can volunteer to feel good. The former is necessary to build up financial resources to enable participation in the economy and society by purchasing products and services. This is also connected to the aspiration of social status, recognition and financial security. Typical examples in this Life Area are employment services to find work; offices and production facilities providing the necessary work infrastructure; tools, machines, administrative software to facilitate work; and consulting and coaching services to improve productivity.

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Consumption satisfies the fundamental need for survival and allows people to maintain good hygiene. This includes basic goods such as food, beverages and clothing, as well as products and services for personal care and appearance. In addition to products for everyday use, this Life Area also includes fast-moving consumer goods such as home care products and flowers, and luxury items such as watches, jewellery and handbags. Consumption of these goods and services goes beyond satisfying basic needs and enables people to develop better self-esteem and a better attitude towards life – for example, through good food and clothing. As a result, typical players in this Life Area include supermarkets, bars, restaurants, hairdressers, cosmetic studios and fashion stores.

Socialising is centred around needs related to love, sexuality, family and friends. Humans are social beings and fear being alone or excluded from society. In other words, products and services within this Life Area satisfy the human need to interact and communicate with other human beings. They allow a person to build affectionate, trusting and empathetic relationships, and an overall feeling of belonging. Common places where these needs are catered for include social networks, clubs and associations, as well as constructs of social coexistence reaching from marriage and family counselling to sex work.

The Entertainment Life Area focuses on the human desire for enjoyment. Similar to Recreation, the right way of satisfying this human need varies strongly depending on the individual. Products and services in this Life Area deliver or support entertainment, such as movies, music, games, books, sports, comedy, going to a theatre or art gallery, or any other form of consuming entertaining media. The motivation is to escape boredom and the fear of missing out, since participating in these activities creates a sense of belonging. People also gain experience, insights and knowledge while having fun.

The main human need underlying Spirituality is finding enlightenment, transcendence, belief and faith in life. The purpose of this search is to find meaning, stability and orientation in life, working against the fear of being lost in a fast-paced world. Common products or services in this Life Area include church services or other religious gatherings, meditation seminars and stays in monasteries. Most of these goods and services make people feel that they belong to a social group.

Goods and services located in the Education Life Area serve the human need to gain knowledge, learn about the truth and acquire a holistic understanding of the world by developing a certain skill set. This is grounded in the wish to advance in life, which is necessary for people to create opportunities for their children. In addition, lack of knowledge increases the risk of receiving insufficient income. Education is usually carried out in schools and universities, but the learning process can also happen in other contexts, both vocational and non-vocational.

Living is based on the human need to live in and experience a safe, fair, stable and comfortable environment. Having a roof over one’s head and living in acceptable or pleasant conditions creates a place of safety, retreat and recovery. Homes should ideally be available at a reasonable price. Typical categories for goods and services for this human need are housing, planning, construction, renting, maintenance and interior design, along with appliances such as washing machines or dishwashers. It also includes government services that ensure a safe, fair and stable environment.
3 The Ecosystem Strategy Map

Compared to standalone companies, ecosystems and their participants can leverage greater efficiency through “the power of many.” To realise this advantage, companies must understand their current position and future options to participate in and/or build ecosystems. Using the E2H perspective, ecosystem players can be categorised into three major roles depending on their relationship with the end customer: Orchestrators, Realisers and Enablers⁶ (see Figure 3).

- **Orchestrators** offer products and services to end customers through a (digital) B2C service platform (e.g. Amazon Alexa, Google’s smart-home ecosystem, supermarkets).
- **Realisers** provide products and services for end customers (e.g. Mercedes, Hilton, Digital Business University).
- **Enablers** support Realisers and Orchestrators with products, services or a (digital) B2B service platform (e.g. IBM, PwC, Boeing).

These three roles are the second dimension of the Ecosystem Strategy Map, alongside the ten Life Areas. They make it easier to understand the relationships between a company and the end customers, and between partners in the entire ecosystem. Combining the roles with the ten Life Areas results in the Ecosystem Strategy Map (see Figure 4).

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4 From Life Areas to ecosystems and Ecosystem Domains

Thinking in ecosystems in a business context creates benefits on two levels:

- **Value creation**: ecosystems operate very cost-effectively and flexibly. They use the ongoing digital transformation of the economy to their advantage. This means that ecosystems can benefit from ever-decreasing transaction costs, which rewards collaboration with specialists who can do the task more cost-effectively instead of relying on less flexible traditional supply chains and labour pools. Ecosystems realising these benefits are called multi-actor ecosystems17.

- **Value consumption**: ecosystems create dominant value propositions. They offer integrated experiences that have a higher value because the work involved in creating a bundled experience is carried out by the ecosystem instead of the end customer. This is possible thanks to self-propelling positive feedback loops (e.g. network effects, the data-driven innovation flywheel). Ecosystems realising these benefits are called multi-product ecosystems18.

In summary, platform-based ecosystems benefit from network effects to lock in co-creators when creating offerings and to lock in customers consuming these offerings. The Ecosystem Strategy Map is the basis for the Ecosystem Domains and Super Domains (see Figure 5). There are eleven Ecosystem Domains and four Super Domains19:

- **Seamless Mobility** is located entirely within the Mobility Life Area. However, while the Life Area simply encompasses goods and services allowing people to change location, this domain focuses on the trend towards more efficient and integrated solutions allowing people to reach their destinations more easily. Relevant topics in this context include autonomous driving, shared mobility and e-mobility.

- **Holistic Wellbeing** is located in six Life Areas: Health, Recreation, Work, Consumption, Spirituality and Living. However, this Ecosystem Domain is mainly centred around health. Consequently, this domain includes concepts such as digital health, preventive healthcare, healing architecture, elderly care, corporate health, and complementary and alternative medicine.

- The Recreation Life Area includes the Rest and Relaxation Ecosystem Domain. As with Holistic Wellbeing, the topics relevant to this domain make it clear that this domain focuses on people’s overall health: wellness helps to reduce people’s stress levels, travelling helps people get into a different headspace, and exercising helps to clear the mind.

- **New Work** can be allocated to the Life Areas Work and Living. It is centred around the exploration of new forms of working together and workforce management. As a result, topics such as new workplaces, the gig economy, new forms of collaboration and associated developments in the field of human resources are relevant in this domain.

- **Personal Wealth and Legal** is located in the Work, Living and Consumption Life Areas. This domain’s focus is on the creation and protection of personal wealth. Thus, this category includes topics such as individual finance and investment, which deals with managing personal financial activities such as income generation, saving, investing and wealth protection. It also includes legal and tax, which handles robbery, wealth allocation during divorces and paying taxes; and activities in real estate such as buying and renting private properties.

- The Consumption, Socialising and Living Life Areas are relevant for the Customised and Fast Demand Fulfilment Ecosystem Domain. This is built around the everyday consumption of products and services. Some examples of important topics in this context are the sharing economy or new agricultural concepts such as vertical farming, clean meat or indoor aquaculture. B2C products and services which allow people to outsource daily tasks such as cleaning, food shopping or furniture assembly also fall within this domain, along with areas such as advertising, e-commerce and retail, as these enable consumption in the first place.

- **Belief and Mindfulness** is located entirely within the Spirituality Life Area. It deals with self-exploration and provides orientation in life through topics such as religion, esotericism, and awareness exercises such as meditation, reflection and coaching.

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The new economic order is creating a new perspective for examining business. Typical topics include networking, online and offline communication services, communities and associations, as well as dating services, therapy, counselling and sex.

Adaptive Development is situated within the Education Life Area and covers concepts such as lifelong learning, formal education and academia. The objective is to obtain the skills needed to successfully complete everyday tasks and challenges.

Located in the Entertainment Life Area, Personalised Pleasure covers all individual ways that people can enjoy themselves. Accordingly, the spectrum of relevant topics in this Ecosystem Domain is very broad, ranging from sport events, gaming and arts to digital media.

Smart Environment is an Ecosystem Domain which touches the Living and Mobility Life Areas. The purpose of this domain is to create interconnection within people’s living environments; as a result, this domain includes topics such as smart cities, smart homes and home improvements (such as DIY projects) or devices for gardening (such as robot lawnmowers).

In contrast to all the Ecosystem Domains mentioned above, Security differs as it is generally relevant for all Life Areas, mainly for the roles of Enablers and Realisers. Therefore, it is a Super-Enabler and Super-Realiser Domain. Ecosystems in this domain are directed towards businesses and end customers. Relevant topics include IT security, privacy, identity, defence and law enforcement.

Infrastructure has the same characteristics as Security: it is needed in all Life Areas, making it another Super-Enabler and Super-Realiser. The focus here is again on businesses and end customers.

Topics which fall within this domain include smart buildings and construction, smart energy, smart logistics and e-government, as well as telecommunications and financial transaction products and services.

The B2B Services Ecosystem Domain has implications for all Life Areas. However, it is only important for the Enabler role. Examples include products and services in the fields of consulting, law, accounting, insurance, banking and administration which are offered exclusively in the B2B context.

Industry 4.0 is another Ecosystem Domain focusing on business customers. Ecosystems in this domain commonly offer service and maintenance products and services, such as predictive maintenance or condition monitoring, as well as smart production solutions leveraging artificial intelligence, industrial IoT, computer-aided technologies, product lifecycle management and robotics.

Source: Kawohl, J., Krechting, D., 2020c.
To date, current and future market size and potential of business ecosystems have not been widely quantified. However, such data is essential for making informed strategic decisions for the ecosystem era. In order to evaluate the future business landscape, we transformed the traditional product view of industry classifications into the ecosystem world. We used a mixed-method approach consisting of quantitative and qualitative analyses. These analyses are the main output of this study.

We explored market size and potential in 2019, 2025 and 2030 to identify developments and shifting value potential over time. Detailed data on value added in each Life Area and Ecosystem Domain for the world, the NAFTA countries and Europe in 2019 (latest data), 2025 and 2030, including rankings and growth (based on 2019), can be found in Appendices 1 and 2.

Methodology

We used the UN’s ISIC\textsuperscript{20} classification, revision 4, which is an internationally established standard for classifying economic sectors and industries. ISIC divides the overall economy into sections and divisions at a high level, as well as into more detailed industry groups and classes. Based on the detailed descriptions of the individual areas, we allocated these classifications to Life Areas and Ecosystem Domains. This was based on objective qualitative proxy data, which allowed unambiguous allocation. Where this was not possible, allocation was based on a qualitative expert estimate. The allocations were finally quality assured in three independent rounds of validation with different experts.

Using this methodology, we enriched the Ecosystemizer framework – i.e. the Life Areas and the Ecosystem Domains – with quantitative economic data. To do this, we developed a model that converts any economic data based on the ISIC classification to the Life Areas and the Ecosystem Domains. We calculated the market potential for global business ecosystems by examining the nominal value added\textsuperscript{21}, which is the most accurate measure of current and future economic size and relevance of Life Areas and Ecosystem Domains\textsuperscript{22}.

\textsuperscript{20} United Nations, 2008.
\textsuperscript{21} Value added is sales revenue less cost of purchases of inputs and supplies (operating expenditure) required for production. It represents the value-added contribution of the sector to the economy. The sum of value added across all industries, by definition, equals national GDP. As such, sector value added is also referred to as sector GDP. Value added includes compensation for labour (wages and salaries), net indirect taxes, depreciation, rent and operating surplus. The data are presented in nominal terms (IHS Markit).
\textsuperscript{22} Underlying data: IHS Markit, 2021.
1 Life Areas in numbers

Living, Consumption, Health, Mobility and Work are the largest Life Areas

Across all time points examined, the top five Life Areas were Living, Consumption, Health, Mobility and Work. Figure 6 shows the current global size of these Life Areas by value added.

Ranking of Life Areas remains stable worldwide

The ranking of the largest Life Areas worldwide will still be the same in 2030 as it is today, and all but three of them will increase their share of total value added. The exceptions are Recreation and Entertainment, which will decrease slightly; and Mobility, which will suffer a significant loss.

Living has the largest market

Living is the largest Life Area globally, in Europe and in the NAFTA region today, and will still be the largest in 2030. Businesses satisfying the human need to live in a safe, fair, stable and comfortable environment can expect the largest market potential. Life has a stable share of value added across the regions at just over 20% of total value added, which translates to $15,981.65bn currently and $28,489.49bn in 2030 on the global level.

Regional differences in second and third place

Consumption (eating, drinking, clothing, personal care and everyday demands) and Health (staying physically and mentally fit and having access to proper sanitation and health care) follow in second and third place, but with regional differences:

- Globally, Consumption is the second-largest Life Area and Health is the third-largest, and this will be unchanged in 2030. For 2030, this means $26,293.12bn of value added in Consumption and $22,430.61bn in Health.
- The NAFTA region shows the opposite picture, both now and in 2030: Health ($6,691.07bn in 2030) is and will remain ahead of Consumption ($5,680.33bn in 2030).
- In Europe, the same can be expected: in 2030, Health ($5,431.01bn) will be ahead of Consumption ($5,018.97bn).
Growth of Life Areas will vary depending on region and timeline
While the absolute sizes of the Life Areas are similar, there are considerable differences when it comes to the question of which Life Areas – and thus, which human needs – will grow the most in the future and be most attractive, depending on both the region and the timeline (2025 or 2030) in question.

Health offers the highest long-term growth on a global level up to 2030
The global ecosystem Life Area growth map (see Figure 7) shows which Life Areas have the greatest long-term market potential up to 2030: Health offers the greatest growth opportunities worldwide (78.78%), followed by Living (78.26%) and Work (77.94%). These three are also set to grow the most in Europe: Living by 62.15%, Health by 61.70% and Work by 60.18%. In the NAFTA countries, Mobility will only play a minor role (9th place, 55.84%). The highest long-term growth in this region will be in Health (67.03%), Work (63.72%) and Recreation (60.82%).

![Global ecosystem Life Area growth map (forecast of global growth up to 2030)](image)
NAFTA and Europe will lag behind global growth

Overall, it is striking that the growth rates in NAFTA and Europe, which are roughly on par with each other, are set to lag significantly behind global growth. Overall, however, growth rates are higher in NAFTA than Europe (see Figure 8).

In the short term (up to 2025), Consumption will have the fastest growth worldwide

From a global perspective, Consumption will have grown the most by 2025 (41.60%), thus offering the greatest short-term growth opportunities for companies that satisfy the human need of belonging. In this timeframe, Consumption is followed by Socialising (40.42%) and Health (40.11%). Living, the largest Life Area, ranks fourth on the global level (39.82%). In Europe, Living will grow the most (33.69%), followed by Health (33.53%) and Work (31.98%). The NAFTA region offers the greatest short-term growth opportunities for Mobility companies (34.03%), followed by Work (33.47%) and Health (32.11%).

<table>
<thead>
<tr>
<th>Life Area</th>
<th>NAFTA Growth Rate</th>
<th>Europe Growth Rate</th>
<th>World Growth Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Living</td>
<td>4.29%</td>
<td>4.49%</td>
<td>5.40%</td>
</tr>
<tr>
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<td>4.19%</td>
<td>4.49%</td>
<td>5.29%</td>
</tr>
<tr>
<td>Education</td>
<td>4.13%</td>
<td>3.96%</td>
<td>5.33%</td>
</tr>
<tr>
<td>Socialising</td>
<td>4.30%</td>
<td>4.14%</td>
<td>5.35%</td>
</tr>
<tr>
<td>Spirituality</td>
<td>4.22%</td>
<td>4.21%</td>
<td>5.36%</td>
</tr>
<tr>
<td>Consumption</td>
<td>4.01%</td>
<td>4.04%</td>
<td>5.34%</td>
</tr>
<tr>
<td>Work</td>
<td>4.07%</td>
<td>4.11%</td>
<td>5.38%</td>
</tr>
<tr>
<td>Recreation</td>
<td>4.07%</td>
<td>4.11%</td>
<td>5.27%</td>
</tr>
<tr>
<td>Health</td>
<td>4.12%</td>
<td>4.17%</td>
<td>5.42%</td>
</tr>
<tr>
<td>Mobility</td>
<td>3.69%</td>
<td>4.17%</td>
<td>4.90%</td>
</tr>
</tbody>
</table>
2 Ecosystem Domains in numbers

The Super Domain Infrastructure offers the greatest market potential

The largest current market size, regardless of region, is offered by the Infrastructure Super Domain ($14,687.45bn worldwide). This will still be the case globally, in Europe and in NAFTA in 2030 (see Figure 9).

Seamless Mobility will no longer be in the top 5 Ecosystem Domains in 2030

Globally, Infrastructure is followed – both today and in the long term – by Customised and Fast Demand Fulfilment ($21,503.05bn in 2030) and Personal Wealth and Legal ($19,750.04bn in 2030). The decreasing relevance of Mobility compared to other business ecosystems is also reflected in the Ecosystem Domains: Seamless Mobility ($5,165.70bn) is currently the fifth-largest domain, but it will lose this place to Adaptive Development by 2030.

Personal Wealth and Legal will be the second-largest Ecosystem Domain in Europe

On the European market, Holistic Wellbeing is currently still in second place ($2,712.26bn). However, it will not be able to hold this position by 2030, being surpassed by Personal Wealth and Legal, which is expected to generate $4,523.88bn in 2030. Customised and Fast Demand Fulfilment currently offers businesses the fourth-largest opportunities ($2,573.37bn in 2019) and is expected to remain in this position in 2030 ($3,874.51bn).

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**Fig. 9** Size of Ecosystem Domains in 2019, 2025 and 2030
Holistic Wellbeing is the third-largest Ecosystem Domain within NAFTA

In the NAFTA region, Holistic Wellbeing is currently the third-most attractive Ecosystem Domain ($3,160.44bn) and is expected to remain in this position in 2030 ($5,324.17bn), behind Infrastructure and Personal Wealth and Legal. This reflects the great importance of the Health Life Area. In contrast, Customised and Fast Demand Fulfilment is set to lose a significant market share.

Ecosystem strategy heat map

The ecosystem strategy heat map (see Figure 10) shows which Ecosystem Domains have the greatest growth potential worldwide up to 2030 and which Life Areas these domains are located in. It thus provides an intuitive initial overview for future positioning of businesses.
Growth rates in Europe and NAFTA below global level
The results of the Life Areas analysis show that the expected growth rates of Ecosystem Domains are significantly higher on a global level than in NAFTA and Europe (see Figure 11).

Highest global ecosystem growth rates within B2B services
Businesses can expect the highest global growth within B2B Services: this Ecosystem Super Domain is set to grow by 43.64% in the medium term and 84.46% by 2030. It is followed by Personal Wealth and Legal, which is expected to grow by 41.92% in the medium term and 83.73% in the long term. Organisations positioning themselves within the Holistic Wellbeing Ecosystem Domain can expect it to grow by 40.31% in the medium term (4th place) and 78.86% in the long term (3rd place). Customised and Fast Demand Fulfilment is set to rank third in the medium term (41.59%), but will lose out significantly in the long term, only reaching eighth place (75.10%). Instead, Adaptive Development offers an attractive growth rate of 76.27% in the long term.
**Personal Wealth and Legal will have the strongest growth of any Ecosystem Domain in Europe**

For companies focusing on the European market, a clear picture emerges both in the medium and long term: Personal Wealth and Legal offers the best growth prospects (medium term: 37.41%, long term: 68.33%), followed by B2B Services (35.05% and 63.76%), Holistic Wellbeing (33.73% and 62.02%), and New Work (32.78% and 60.74%). The largest Ecosystem Domain – Infrastructure – is expected to have the fifth-strongest growth (31.01% and 59.73%).

**Holistic Wellbeing set to undergo strongest growth in NAFTA up to 2030**

A remarkably different result – and thus, a different basis for strategic decisions – can be seen when looking at the growth of the Ecosystem Domains in NAFTA: whereas B2B Services are expected to remain in second place in terms of both medium- and long-term growth (36.93% and 68.05%), remarkable changes can be observed for the other Ecosystem Domains. Until 2025, Seamless Mobility looks set to offer the highest growth in this region (37.01%), but is expected to drop to sixth place (57.60%) in the long run. Seamless Mobility is set to grow by just 15.04% between 2025 and 2030. This is the lowest level of growth of all Ecosystem Domains, confirming the picture of low growth of Mobility in the NAFTA region. By 2030, Seamless Mobility will lose the top spot to Holistic Wellbeing (69.03%), which is only set to reach fifth place in the medium term (32.86%).

New Work will be close behind B2B Services with growth of 34.79% in the medium term, but is set to lose one place in the ranking to Personal Wealth and Legal in the long term (65.46%). Security, a Super Domain that has not appeared before, has the fourth-highest medium-term growth rate (34.76%) and the fifth-highest (58.89%) in the long term.

**Economic attractiveness of Ecosystem Domains in NAFTA and Europe**

To illustrate the economic attractiveness and market potential of Ecosystem Domains, we have combined the two most relevant variables, as seen in Figure 12: long-term growth rates and absolute size. Using NAFTA and Europe as examples, this immediately shows which Ecosystem Domains are particularly attractive: Holistic Wellbeing, Infrastructure, and Personal Wealth and Legal. All three of these have high growth rates and large markets.
Business ecosystems will dominate the future of economic thought and action. In this study, we have presented a framework for the new ecosystem era and calculated values to create a sense of the scale of these changes. To help shape this transformation, we conclude with recommendations for action and an answer to the question of how to navigate this new business landscape.

**Step 1**

**Establish an ecosystem mindset and invest in change management**

Like almost every change, this one starts in your mind. So, the first step to successfully transform yourself and your business for the ecosystem era is to develop an ecosystem mindset. This will be crucial for overcoming industry-based thinking and establishing the new mindset among you and your colleagues and throughout your entire organisation: everyone must anchor the needs of their customers in their thinking (just like the Life Areas) and look for answers in partnership-oriented ecosystems.

This mindset also includes an awareness of the need for significant investment of both time and money: never forget that the largest ecosystem companies (e.g. Amazon or Uber) had to overcome a long dry spell of unprofitable years. These years are key for profitable positioning within ecosystems in the future. It is essential to invest in change management now, but this must be carried through all steps. Fundamental rethinking within the entire organisation cannot be achieved overnight and requires carefully planned change management: everyone in the company must be individually brought on board and helped to think differently about value generation and open collaboration within the ecosystem23.

**Step 2**

**Expand your game board and look for new games to play**

We have shown that one result of the emergence of business ecosystems is the challenging of established companies by newcomers, to the point where their entire business models are disrupted. Your second step should be to expand your game board, stay on the lookout for new competitors and look for new games to play. Once the right mindset has been established beyond your own company boundaries and previous business relationships, you should begin to expand your focus and eliminate any boundaries that may exist. The game has changed, so new players will enter the field and new games can be played. To be prepared, you need to be on the lookout for new competitors, enter new playing fields and find or secure your position.

While you’re doing that, keep in mind that success in the ecosystem era depends more on helping other companies to innovate than on innovating for yourself. Ecosystem building is often incremental: it’s about extending your value proposition by applying it to previously unrelated products and services. A good example of this is Google Nest: this started with a smart digital thermostat that can be controlled on the go. Then came security features, and finally the system was opened up to other companies: fitness trackers from Fitbit can now tell the system when you’re awake, and cars from Mercedes-Benz can share their location so that your heating comes on at the right time24.

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Step 3

Take stock and analyse your organisation’s capabilities

The third step is to take stock and to honestly analyse your organisation’s capabilities and its product portfolio. Think about who the end users of your products and services are and which human needs you meet. During this analysis, remember to focus on the value you can contribute to an ecosystem. Your value proposition must contribute to increasing the value of the entire ecosystem. In turn, the ecosystem must increase your own value generation. This interaction between all the players involved is the only way for ecosystems to realise their full potential and go beyond conventional partnerships. To perform the necessary analysis, it is essential to answer three questions for your business:

• Which human needs do you address? The answer to this question shows which Life Areas your business is located in and which Ecosystem Domains are relevant to you. Be very precise here, and do not rule out Life Areas too quickly. To do this, think about which other companies use your products or services to satisfy customer needs that may not be part of what you consider your core business.

• Which capabilities and assets do you offer? The nature of these assets can be very different. Examples include physical assets (e.g. production facilities), intangible assets (e.g. patents or customer lists), relationships with other players in an ecosystem (e.g. with a supplier of special inputs for your product), and the intellectual capital of your workforce (e.g. relevant competencies at your customer touchpoint or in data science).

• What data and data sources can you tap and which dots can you connect? Data will be one of the most important things for the success of your business in the future, almost regardless of your business model. Every company, therefore, needs to develop a data strategy that identifies not only the data sources, but also the purposes of data processing and analysis, and the corresponding tools required. As we have explained, the need for data sharing is an essential driver for ecosystems. Therefore, the available data and data sources improve your position within the ecosystem.

The answers to these questions give the current positioning of your company on the Ecosystem Strategy Map. This can tell you exactly which roles your business is positioned in, and which Life Areas and Ecosystem Domains it serves. You will probably find that you are already part of many Ecosystem Domains.
Follow the value streams to develop your ecosystem strategy

After these analyses, the next step is to determine your target position. Previously, no quantified basis for deciding on your target positioning within business ecosystems had been available. Our study, however, now gives you this basis for the fourth step: follow the value streams. Now you can make an informed decision on the future direction of your business to address upcoming challenges and shifts, and actively shape the changes. To do this, you need to understand and determine which Life Areas and Ecosystem Domains you are able to serve and which role you would like to take. Think about which ecosystems you could be involved in, even if you are not currently involved in them. Which new customer groups can be addressed via partners? What data and data sources could be useful to partners? Now you can develop your ecosystem strategy, focusing on four areas:

- **Role focus**: in this strategy, companies focus on positioning themselves in one role, potentially across several Life Areas. An example is a mobile network operator that acts as an Enabler and provides its technology in several Life Areas.

- **Life Area focus**: this strategy is characterised by a focus on one Life Area. Several roles or just one role can be filled in this area. If a telecommunications company were to opt for this strategy, this might be in the Entertainment Life Area. The company could focus on investments, assets and (management) competencies to become a leader in this Life Area.

- **Life Area expansion**: this strategy involves expanding focus to at least one other Life Area. The aim is to develop new sales and revenue potential. For example, a telecommunications provider could tap into the Life Area of Education through collaboration or acquisitions.

- **Life Area integration**: in this strategy, companies integrate a new role in a Life Area. Companies can do this by expanding their own activities and collaborating, or through acquisitions. For a telecommunications provider, such a strategy would be conceivable in the Work Life Area, for example, if the company is already positioned there as an Enabler and a Realiser. To fill the entire Life Area, the company could develop offerings as an Orchestrator within New Work. This can range from providing office space on the company’s own premises to arranging jobs via partners – for example, by using a digital platform.

These basic strategies are intended to show a possible position and thus serve as a reference. The strategy options must fit the current positioning of your organisation; therefore, your company must either already have the necessary assets and capabilities, or be in a position to obtain them. In combination with our quantified market potential, you can derive real options for action to position your company in the ecosystem-based economic order.

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25 Kawohl, J., Krechtling, D., 2020d.
Step 5

Find the right partners, invest in trust and in-depth understanding

Once your target position has been determined, the fifth step is to go in search of partners who you can work with to achieve the targets and implement the strategies. Consider which products, services and capabilities from other companies could be leveraged to complement your offerings and better serve the human needs of your customers. Remember: in the age of ecosystems, very few companies can succeed alone. Be creative here, and do not prematurely rule out partners just because working together with them was previously unthinkable. It is often the unconventional partnerships that create the greatest value.

This step is based on your position and the value you bring to the ecosystem. You should focus your efforts on this value. For other issues, search for partners with a core purpose focused on these issues. These may well be capabilities that are very close to your core contribution, so ask yourself the following questions:

• What do you need to make your own core capability better than everyone else’s?
• Which partners can help you fill those gaps without compromising the differentiation of their value proposition in the marketplace?
• Are there areas of high risk that should be shared with partners?

The answers to these questions will show you which partnerships you should enter. Once a decision has been made, it is not set in stone and may change over time, and will be driven by external factors as well. For fruitful partnerships, more is needed than a cooperation agreement or joint launch events. First, you must understand what is important to your partners, what motivates them, and what is at the core of their DNA. This is best achieved when you and your partners work closely together, without necessarily expecting a concrete result. Closely connected to this is a high level of mutual trust, which is necessary to jointly build a successful business ecosystem. For this to succeed, it is helpful to conduct objective performance measurements to show each player that they are all investing in the ecosystem to the best of their abilities and thus benefiting from it26.

When selecting your partners, make sure that they are prepared to adopt a sustainable way of doing business. We are convinced that sustainability will become very important in the future, especially in the Life Areas Mobility, Living and Consumption and the corresponding Ecosystem Domains. But it is also highly likely to gain importance in other areas, driven by considerations such as energy issues.

Step 6

Pull everything together and put it into practice

The sixth and final step: pull everything together, put it into practice, and you and your organisation will be equipped to succeed in the ecosystem world. It is likely that you will not manage to finalise all steps on the first try: there will always have to be adjustments, and several iterations will be necessary. You will probably find that the shape of the ecosystem as you envisioned it at the beginning of the process bears little relation to what develops in practice. There will be ups and downs along the way, but remember that some of the greatest ecosystems have had some failures on their journeys – and without those failures, they would not be where they are now. Therefore, a key success factor for building your ecosystem is learning from things that do not go as planned.

To get started with the ecosystem project for your business and to go through the individual steps, the Ecosystem Strategy Map will help you. Starting with your current ecosystem positioning, the map can help you to gain valuable insights when kicking off your ecosystem project. It can be further used to develop a strategy to work out the best moves to your target position, which is the basis of your ecosystem strategy. Finally, it can also help you to identify new partners and create ecosystem offerings.

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References

Birkinshaw, J., 2019

Fasnacht D., 2018

Financial Times, 2011

Forbes, 2021

Gassmann, P., Herman, C., Kelly, C., 2021
Are you ready for the ESG revolution? strategy+business.

Global Goals Campaign, n.d

Hein, A., Schreieck, M., Riasanow, T. et al., 2020

Hicks, H. M., Gilcreast, A., Marais, H., Manning, C., 2021
A CEO guide to today’s value creation ecosystem. strategy+business, (103), 75–91.

Hojlo, J., Parker, R., Newmark, E., 2020
IDC FutureScape: Worldwide Future of Industry Ecosystems 2021, IDC.

IHS Markit, 2021
Website. Available at: https://ihsmarkit.com/index.html [Accessed 19 October 2021].

Insider Inc., 2019

Jacobides, M. G., 2019

Jacobides, M. G., Cennamo, C., Gawer, A., 2020
Distinguishing between Platforms and Ecosystems: Complementarities, Value Creation, and Coordination Mechanisms. Available at: https://8dc2143b-87ef-4888-82ec-3db9521c8f92.filesusr.com/ugd/0b15b1_7e0678d2815541bb920c77e c41e4d305.pdf [Accessed 4 November 2021].
References

Kawohl, J., Schilling, R., 2020

Kawohl, J., Krechting, D., 2020a

Kawohl, J., Krechting, D., 2020b

Kawohl, J., Krechting, D., 2020c

Kawohl, J., Krechting, D., 2020d
The 4 Strategic Directions of Ecosystems. Available at: www.ecosystemizer.com/blog/the-4-strategic-directions-of-ecosystems [Accessed 15 November 2021].

Kawohl, J., Krechting, D., 2022
[Forthcoming]. Ecosystemize your business – how to succeed in the new economy of collaboration. Ecosystemizer.

Leinwand, P. & Mani, M. M., 2021

PwC, 2015
Make it your business: Engaging with the Sustainable Development Goals. Available at: www.pwc.com/gx/en/sustainability/SDG/SDG%20Research_FINAL.pdf [Accessed 19 October 2021].

Schmidt, H., 2019
Die Industrie entdeckt die Subscription-Economy. Available at: www.netzoekonom.de/2019/10/05/die-industrie-entdeckt-die-subscription-economy/ [Accessed 03 November 2021].

United Nations, 2008
## Appendix

### Appendix 1: Life Areas in numbers (nominal value added)

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<th>Year</th>
<th>World</th>
<th>Europe</th>
<th>NAFTA</th>
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</thead>
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<td>$2,368.6bn (4)</td>
<td>$2,647.59bn (4)</td>
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<td>$3,012.09bn (4)</td>
<td>$3,548.48bn (4)</td>
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<td>+ 39% (8)</td>
<td>+27% (10)</td>
<td>+34% (1)</td>
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<tr>
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<tr>
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<td>+58% (6)</td>
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<td>+77% (5)</td>
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<td>$3,385.75bn (6)</td>
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<td>+77% (7)</td>
<td>+53% (9)</td>
<td>+56% (8)</td>
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### Entertainment

- **2019**: $4,181.97bn (7)
- **2025**: $5,841.63bn (7)
- **2030**: $7,373.65bn (7)

### Living

- **2019**: $15,981.65bn (1)
- **2025**: $22,346.11bn (1)
- **2030**: $28,489.49bn (1)

### Appendix 2: Ecosystem Domains in numbers (nominal value added)

<table>
<thead>
<tr>
<th>Ecosystem</th>
<th>Year</th>
<th>World</th>
<th>Europe</th>
<th>NAFTA</th>
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<tr>
<td><strong>Smart Environment</strong></td>
<td>2019</td>
<td>$3,531.01bn (8)</td>
<td>$844.12bn (9)</td>
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<td>2025</td>
<td>$4,910.89bn (8)</td>
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<td>$1,094.82bn (9)</td>
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<td>2030</td>
<td>$6,051.93bn (8)</td>
<td>$1,271.66bn (9)</td>
<td>$1,268.93bn (9)</td>
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<tr>
<td><strong>Seamless Mobility</strong></td>
<td>2019</td>
<td>$5,165.7bn (5)</td>
<td>$1,277.38bn (6)</td>
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<td>2025</td>
<td>$6,978.42bn (6)</td>
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<td>$8,430.28bn (6)</td>
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<td>$2,171.24bn (7)</td>
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<tr>
<td><strong>Holistic Wellbeing</strong></td>
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<td><strong>Rest and Relaxation</strong></td>
<td>2019</td>
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<td>2025</td>
<td>2030</td>
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<tr>
<td><strong>Customised and Fast Demand Fulfilment</strong></td>
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<td>$4,093.8bn (4)</td>
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</tr>
</tbody>
</table>
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