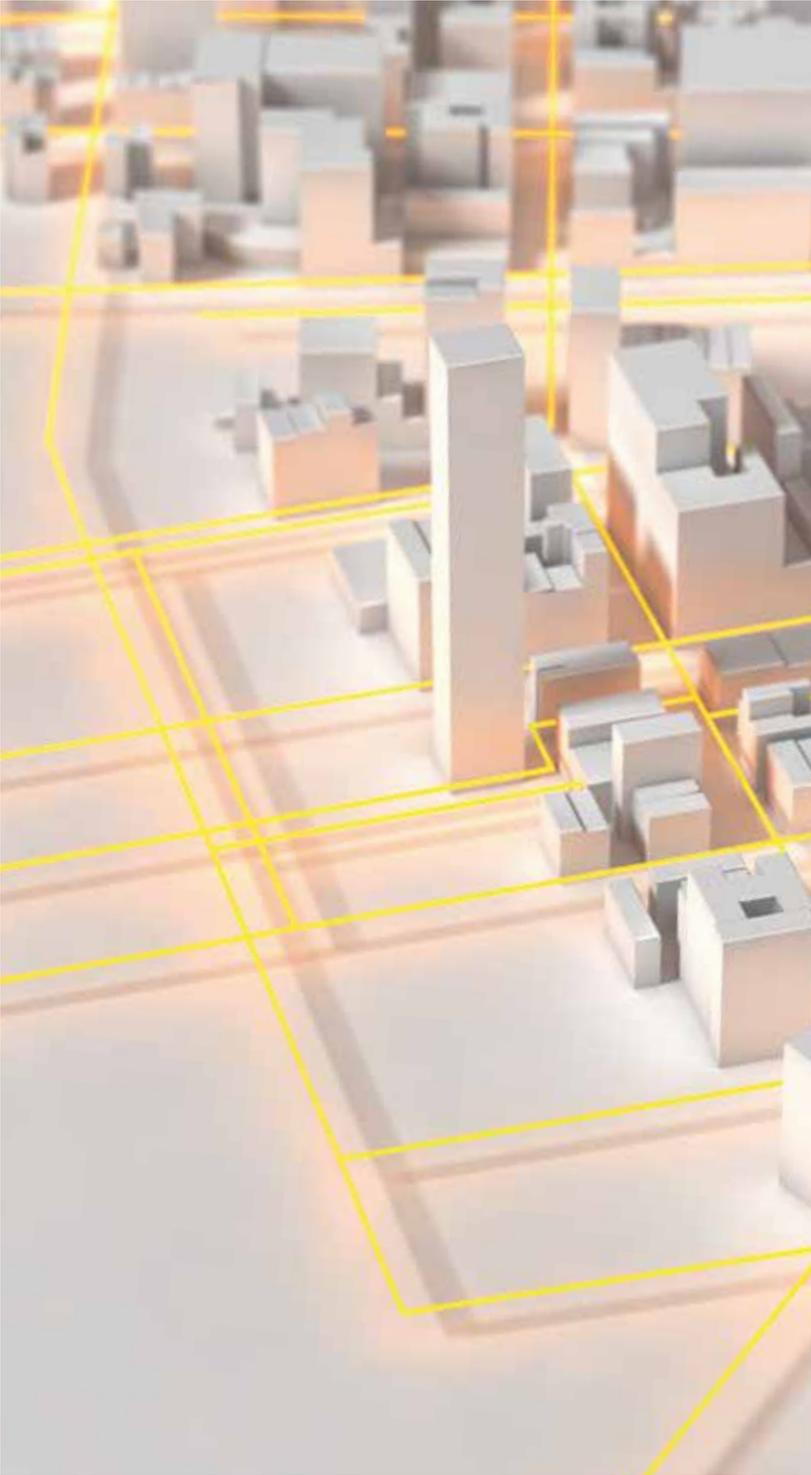
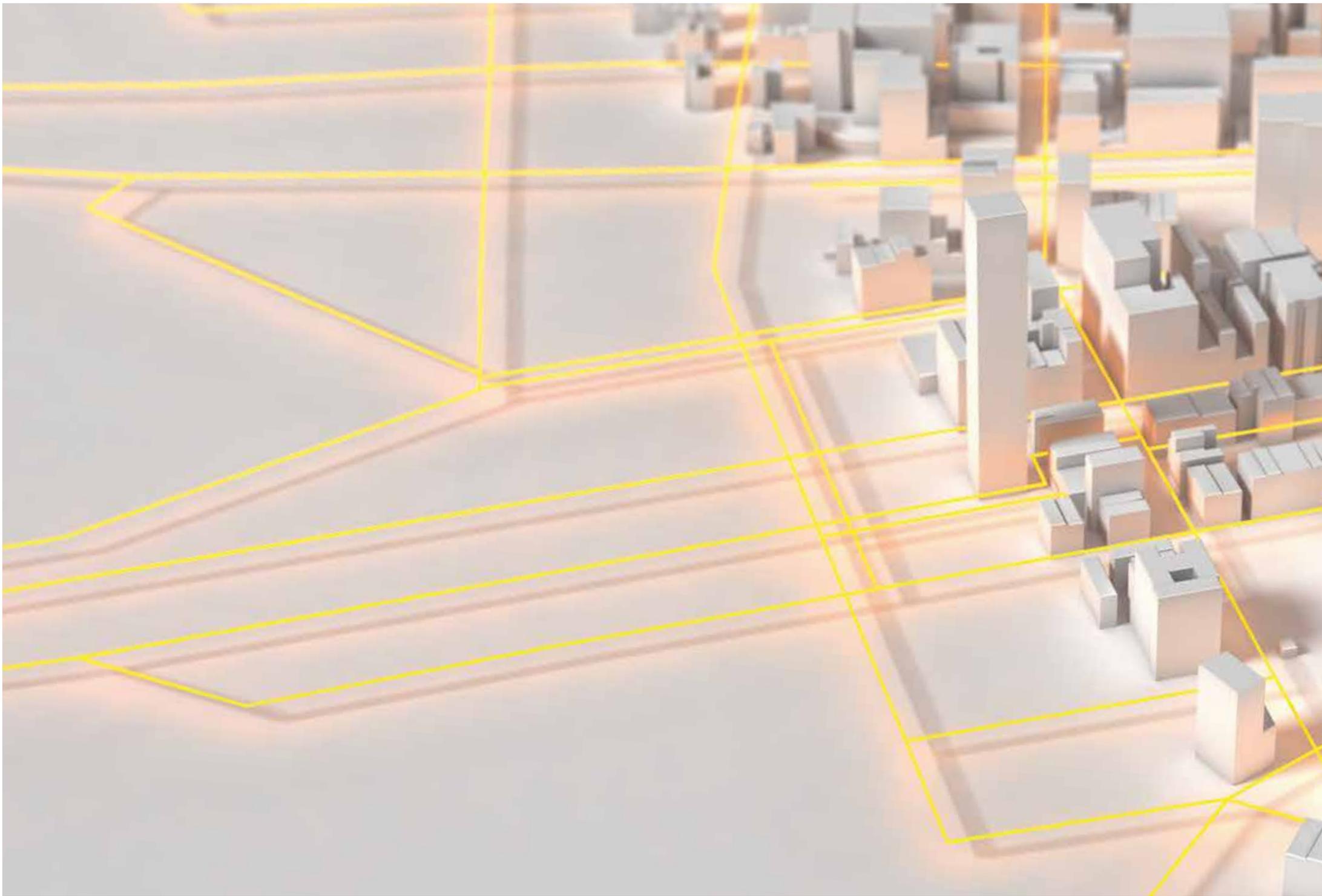


# VIVAVIS

DECODING THE FUTURE



THIS IS US



## New Challenges

Welcome to the networked world! As digitization progresses, billions of smart components will be connected and communicate with each other in the **IoT (Internet of Things)**. The possibilities are infinite, the data volumes are enormous, which makes their control a difficult and complex task. Therefore, this new world requires comprehensive and modular solutions.

**VIVAVIS** combines our competencies and our portfolio around infrastructures and infrastructure-related IoT topics. We develop solutions that decode complex processes, translating them into intuitive applications: „**DECODING**“. **VIVAVIS** is a professional partner for visionary companies facing the challenges of the digitization and networking of business processes. More than 10,000 customers from the energy and municipal sectors, as well as industry and building management, rely on the comprehensive know-how of our group across a variety of sectors, thereby profiting from the maximum possible added value.

## Reliable IoT Solutions

Over decades, our expert systems and components from the fields of control engineering, metering, geoinformatics, asset management and energy optimization have proven their worth in a variety of fields. We have further developed and expanded our portfolio for digitized supply networks, intelligent building complexes, industry 4.0, critical infrastructures or smart services, combining them into comprehensive, data driven **DECODING IoT solutions**. Scalable and easy to configure. Efficient and effective.

**VIVAVIS** solutions are fully **interoperable**,  
reducing cost and effort for interface development and maintenance to a significant degree.

**VIVAVIS** solutions are **modular and configurable**.  
Our platform philosophy reduces your operating costs while maximizing application possibilities.

**VIVAVIS** solutions are available as **cloud and mobile applications**,  
thereby enabling access to applications and data anytime and anywhere.

**VIVAVIS Advanced Analytics** solutions are drivers of growth.  
Intelligent data analysis provides you with a basis for the development of new business fields.

## HERE'S WHAT WE OFFER

With our **DECODING IoT Philosophy** to Smart Grids and Smart Cities

### 1 Capacity Optimization

**VIVAVIS** helps you to balance the volatility in low- and medium-voltage grids to ensure reliable grid operation and optimized grid operation schedules, thereby providing visionary energy suppliers with an ideal tool for planning, detailed forecasts, precise control and intervene whenever necessary. All this is vital for the stable and secure operation of power grids.

### 2 Smart District Solutions

**VIVAVIS** aids you in the planning and equipment of individual properties through to entire districts in an energy- and IoT-optimized manner, thereby enabling you to enhance urban living spaces and, at the same time, to implement new business models.

### 3 Asset Management

**VIVAVIS** enables you to acquire measuring and status data from your IoT infrastructure for analysis and predictive simulation and to profitably use them for the operation and maintenance of your assets.

Our **DECODING IoT Solutions** are based on Smart Technologies

### 1 Advanced Analytics Methods

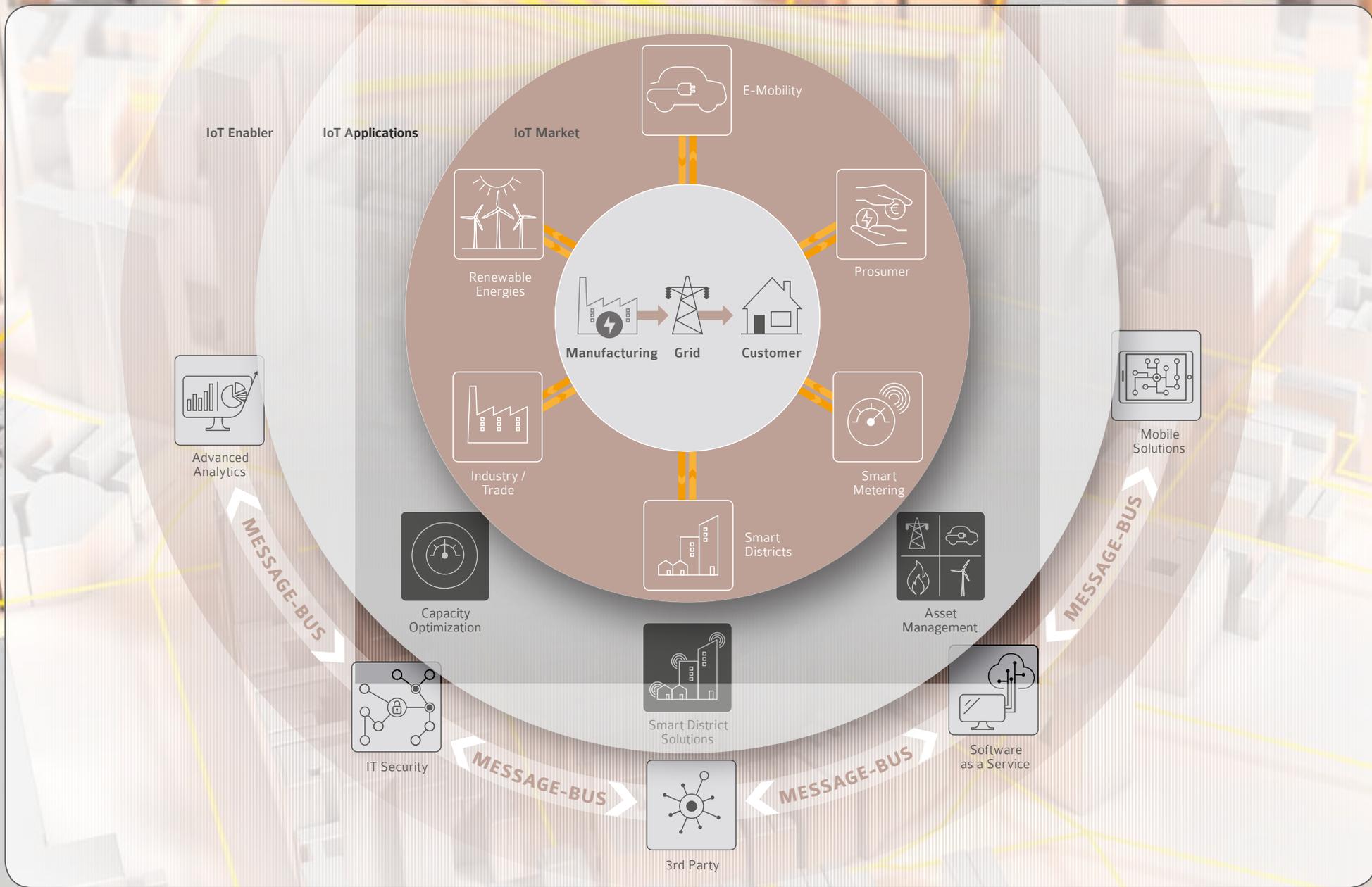
**VIVAVIS** uses methods such as predictive analytics, data mining, big data analytics and location intelligence. Predicting future events and behaviours enables you to better assess the impact of potential changes to your business strategy and to develop new business models.

### 2 Interoperability of Individual Applications

A common software platform in **VIVAVIS** uses established and well-proven technologies and standards, combining them into a uniform communication and solutions architecture, thereby making process and user interfaces much simpler.

### 3 Hardware Platform Strategies

The modular hardware toolkit of **VIVAVIS** offers maximum flexibility. Moreover, we guarantee that customer-specific components will still be configurable in the future.



IoT Enabler

IoT Applications

IoT Market

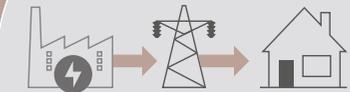
E-Mobility



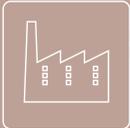
Renewable Energies



Prosumer



Manufacturing Grid Customer



Industry / Trade



Smart Metering



Mobile Solutions



Advanced Analytics



Capacity Optimization



Asset Management



Smart Districts



Smart District Solutions



Software as a Service



IT Security



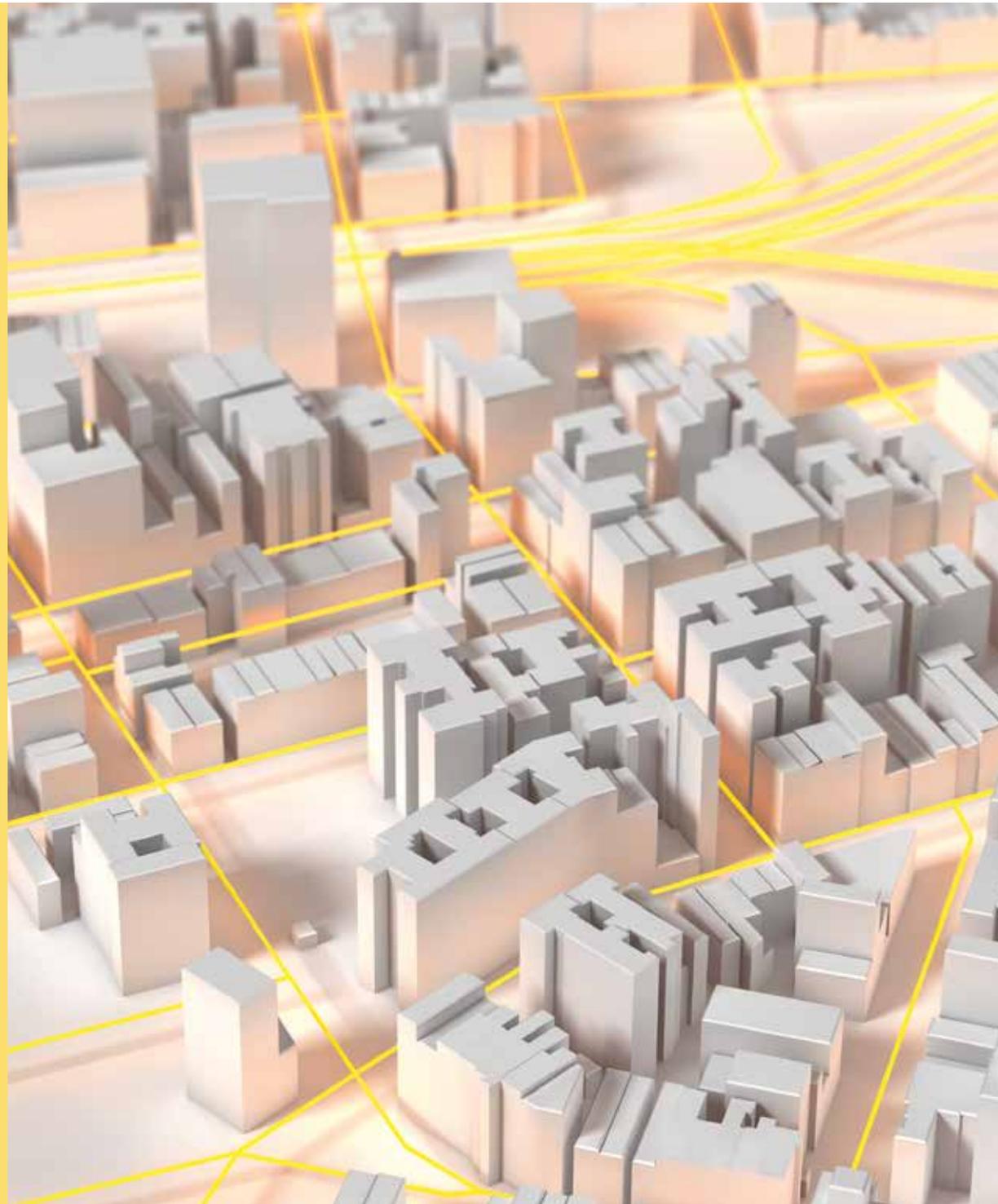
3rd Party

MESSAGE-BUS

MESSAGE-BUS

MESSAGE-BUS

MESSAGE-BUS



THIS IS WHAT WE CAN

## Capacity Optimization

The intelligent solutions of **VIVAVIS** enable you to create an infrastructure which makes the best possible use of all the acquired data, combining them with one another to ideal effect. Thus, your network control system becomes a capacity optimization system. An exchange of power grid data ensures that it is always up to date. All these are basic requirements for the smart, stable and secure operation of your power grids.

**VIVAVIS** keeps your medium- and low-voltage grid always under control, even with an increased proportion of energy fed into the grid from wind energy and photovoltaic systems, or in the event of increasing numbers of electric vehicles.

## Asset Management

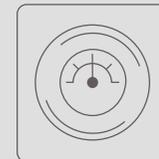
**VIVAVIS** helps you to obtain measurement and status data from your IoT infrastructure. Based on usage, age and specifics, **VIVAVIS** enables predictive data management, from the acquisition and operation through to the maintenance and, eventually, retirement of your assets.

For instance, an integrated asset library provides all information on components, links additional values of your choice and, if required, uses **VIVAVIS** 3D laser scans for the virtual visualization of your systems and equipment. In addition, warning systems help to prevent malfunctions.

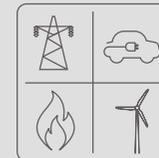
## Smart District Solutions

**VIVAVIS** enables you to operate individual properties or entire districts as cells in the low-voltage distribution system in an energy and capacity-optimizing manner. Smart IoT sensors enhance office or rental properties and simplify their operation. Various applications, including intelligent parking management, temperature control, optimization of waste disposal, consumption and leakage measurement, are available and can be easily integrated into existing application environments.

Our **VIVAVIS** service offers technical infrastructure planning, delivery and installation of IoT components and administration of data from integrated expert systems. Additionally, handling of the system is made easy by means of a management software which includes final-customer visualization via app and widget-based web interface.



Capacity Optimization



Asset Management



Smart District Solutions



## WE ARE VIVAVIS

As pioneers, we shape the future of digital infrastructures, driving digitization forward and helping to master Big Data. Our technologies and services enable customers to open up new and sustainable areas of business.

### **Our unique expertise and our comprehensive service are:**

#### **Sustainable**

In total, we can rely on a total of 150 years of know-how from our partners in IDS Group

We are proud of our long-standing partnerships with clients from a variety of different sectors: energy suppliers, industry, housing and municipal companies

#### **Integrated Concepts**

Hardware and software plus service and support – all from one source

#### **Future-Proof**

Interoperable, modular and scalable

Cloud and mobile first

Advanced Analytics-ready

**VIVAVIS** is a registered trademark of

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