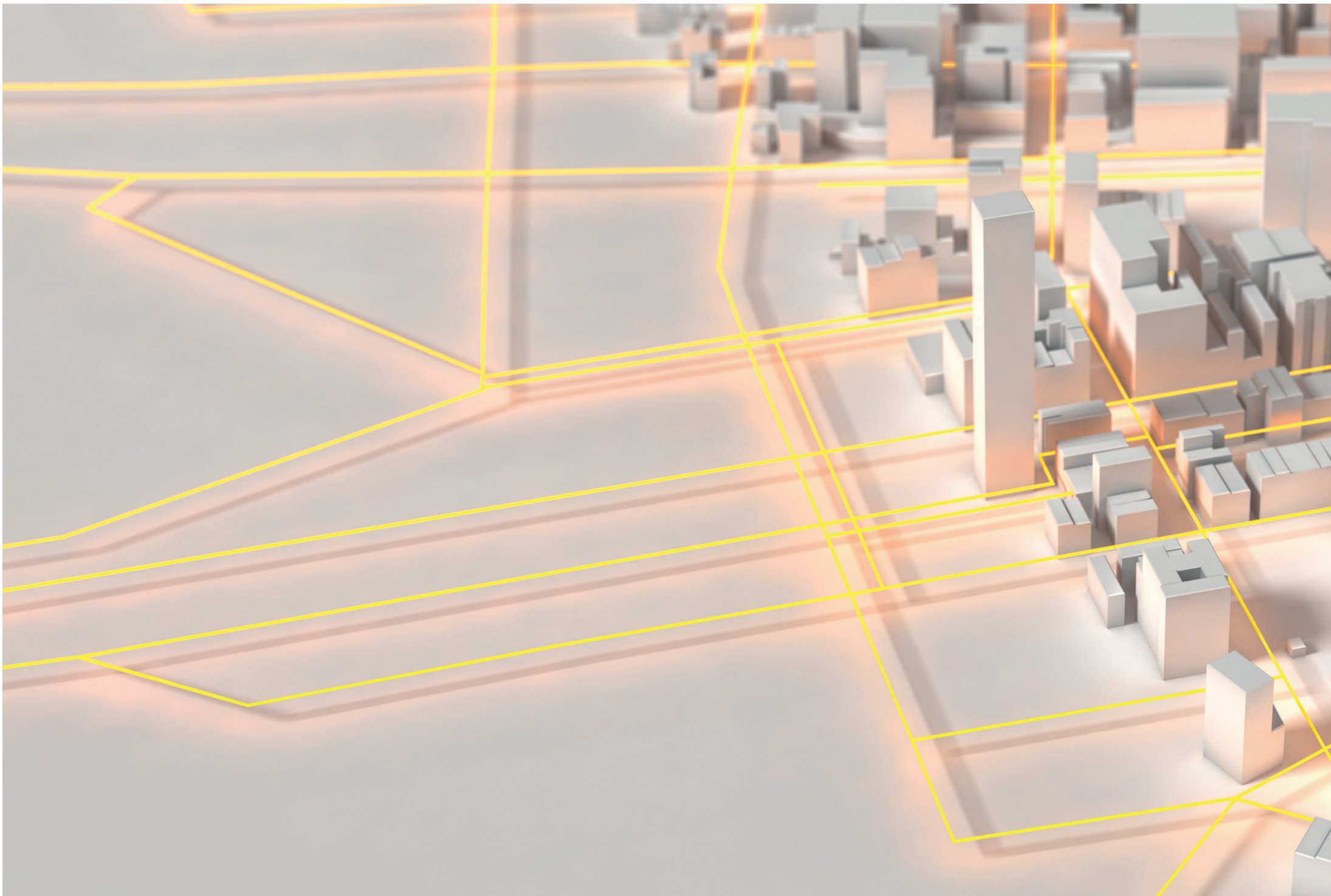


# VIVAVIS

DECODING THE FUTURE



THIS IS VIVAVIS



## FACING NEW CHALLENGES

Welcome to the networked world! Increasing digitization will connect billions of intelligent components within the Internet of Things (IoT) and enable communication among them. Options are manifold and the amount of data is enormous. It requires a lot of knowledge to control these amounts. Holistic and modular technical solutions are therefore mandatory.

**VIVAVIS** concentrates competences and portfolio around infrastructure and infrastructure-related IoT topics. We develop solutions that decrypt complex processes and translate these processes into intuitive applications, in short, we offer **DECODING**. **VIVAVIS** is the expert partner for companies facing the challenges of digitization and interconnected business processes. More than 10,000 customers among municipalities as well as in the sectors energy, industry and facility management already rely on the extensive expertise offered by our group of companies and benefit from the greatest possible added value.

## RELIABLE IOT SOLUTIONS

Over decades, our expert systems and components have proved themselves in the fields of control technology, metering, geospatial information, asset management and energy optimization. We improved our portfolio with regard to digitized supply networks, intelligent building complexes, industry 4.0, critical infrastructures or smart services and developed holistic data-driven **DECODING IoT solutions** – scalable and easy to configure, efficient and effective.

Solutions by **VIVAVIS** are completely **interoperable!**

Effort for interface development and maintenance is thus remarkably reduced.

Solutions by **VIVAVIS** have a **modular structure!**

Our platform philosophy minimizes operating costs and maximizes opportunities.

Solutions by **VIVAVIS** are available as **cloud** and **mobile applications!**

You can access applications and data everywhere at any time.

**VIVAVIS Advanced Analytics** solutions drive growth!

Based on intelligent data analysis you can establish new business fields.

## WELCOME TO THE WORLD OF VIVAVIS

Our DECODING philosophy is based on tried and tested products, software as well as services and complemented with IoT enabling technologies. This way we are able to flexibly combine systems and gain new insights by means of Advanced Analytics. We thus create added value and enable new business models for our customers.

Systems by **VIVAVIS** meet highest standards on IT security. They are available as software as a service and mobile solutions.

**VIVAVIS** develops cross-divisional solutions for

- energy supply
- closed distribution system operation
- industry
- housing sector
- local government

We thereby use control technology, telecontrol as well as automatic meter reading and offer smart metering and smart grid applications. Our customers can count on high-performance energy as well as load management and rely on data forecasts to optimize water consumption or schedules.

Integrated solutions by **VIVAVIS** are able to receive, qualify and prepare any kind of data; they monitor, control, regulate and communicate effectively.

Contact us to talk about your future business cases!

**VIVAVIS – DECODING THE FUTURE**

## OUR KEYS TO THE FUTURE

### 1 SaaS/Cloud

The digitization of the energy industry not only manifests in adaptations of new renewable technologies and the roll-out of smart measurement technology. It also changes operating models of various solutions and systems. **VIVAVIS** actively accompanies this transformation and offers tailor-made system solutions for a wide range of applications in the energy industry.

### 2 Interoperability/IoT

**VIVAVIS** takes into account interoperability with upstream and downstream systems. Furthermore, we apply established industrial standards to create holistic communication and solution architectures. You are thus able to exchange IoT data from different domains smoothly and improve maintenance and operability of processes and user interfaces. Furthermore, you can provide information wherever needed. Scalable, ready for use with multiple clouds and providing maximum flexibility – this way your acquired data serves as perfect base for new business models.

### 3 Advanced Analytics

**VIVAVIS** uses processes such as predictive analytics, data science, big data analytics and location intelligence. By means of forecasts about future events and behaviour of components and systems, you are able to optimize maintenance and preservation strategies for instance. In addition, you can better anticipate effects of changes to your business models and strategies.



# VIVAVIS

BUSINESS FIELDS



Housing sector



Local government



District management



Energy supply



Industry



IoT data platform



Capacity optimization



Closed distribution system operation



Sustainable water management



Advanced Analytics



GIS



Asset management



Energy management



e-Mobility



Mobile solutions



Big data



IT security



Message bus



Software as a service

Basis

Enabler for IoT

Solutions

CONTROL TECHNOLOGY

METER/SENSOR DATA MANAGEMENT

OPTIMIZATION OF ENERGY CONSUMPTION

GEOSPATIAL INFORMATION

IT/DATA SECURITY

SENSORS/ACTUATORS

SMART DEVICES

ENGINEERING

## OUR PORTFOLIO



### Grids

**VIVAVIS** systems have been designed for future grids. They make use of all acquired data to operate your network at optimum capacity. Exchanging data ensures permanent topicality, which is the basic requirement for keeping grids smart, stable and secure. With solutions by **VIVAVIS**, you are always in control of your medium and/or low voltage networks even in times of increasing volatility caused by injecting energy generated by wind parks and solar farms or an ever-growing number of car charging stations.



### Metering

With **VIVAVIS**, you are able to manage every meter in the field in a secure and reliable way. Furthermore, you are always able to provide complete and verified data to various applications within your company. Be it classic automated meter reading to capture data from RLM meters (metered exit quantities) or data acquisition with smart metering systems (iMSys) and smart meters – simply compile and shape your individual system. Even **VIVAVIS** metering solutions especially tailored to the European market are available on the same application platform.



### Districts

With solutions made by **VIVAVIS**, you manage individual properties or even whole districts in a way that optimizes energy consumption and capacity utilization. Smart IoT sensors increase the value of office buildings or rental property and facilitate their management. Numerous applications such as smart parking solutions, temperature control, optimization of disposal, consumption or leakage measurements can be realized and are easily integrated into already existing application environments. Besides technical infrastructure planning, **VIVAVIS** services also include delivery and installation of IoT components as well as administration of data provided by integrated expert systems.



### Water

The **VIVAVIS** process control system for water industries takes over all kinds of centralized control and monitoring tasks. With its high degree of scalability, you can use the process control system with every size of water or wastewater grid. Thanks to its high-performance properties, the system is particularly suitable for complex and extensive networks. We combine our proprietary products to modular integrated solutions that provide every essential element required for up-to-date automation processes.



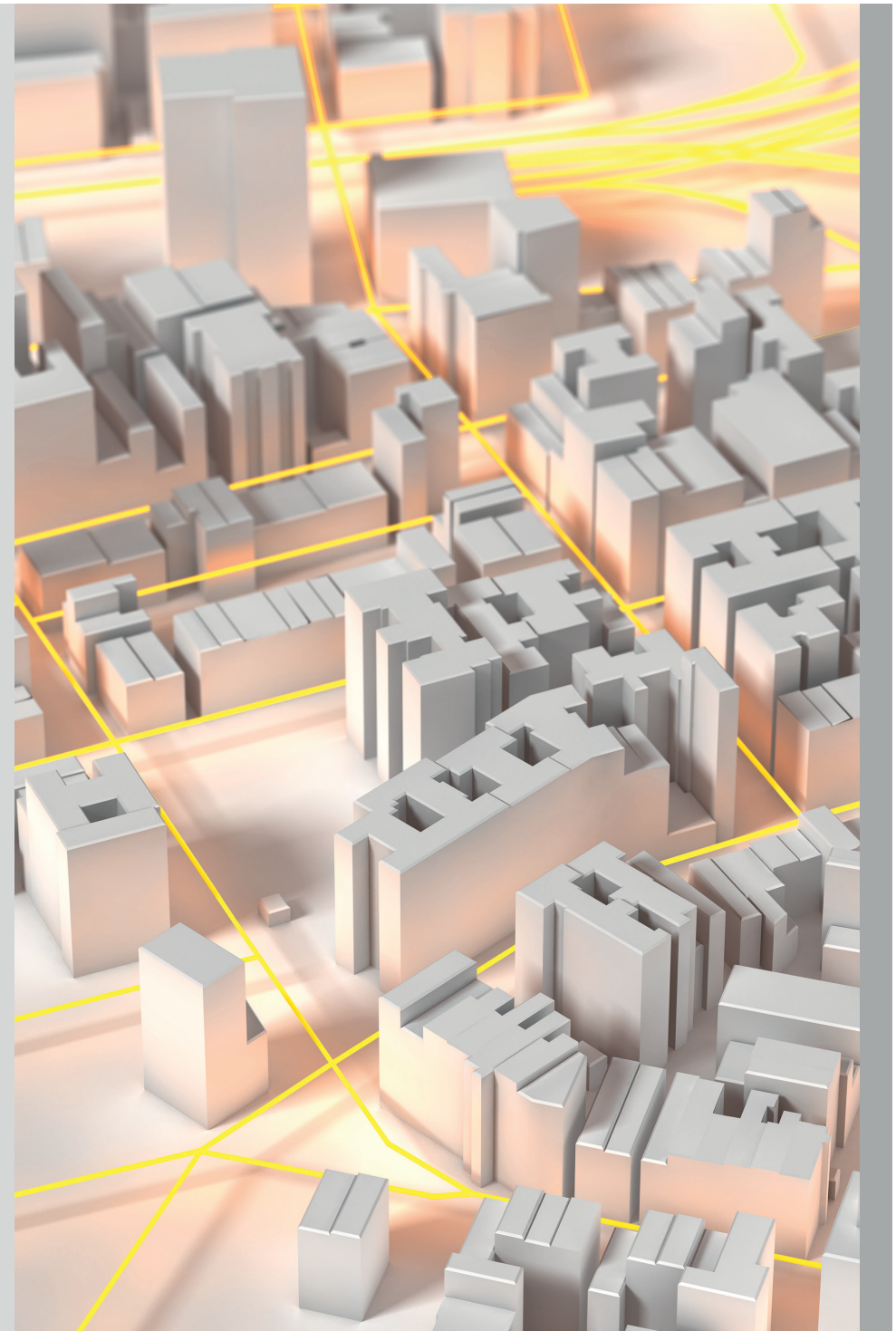
## Energy and environment management/ Load optimization

Our integrated solutions for energy optimization enable companies to operate in a carbon-neutral and economical way. As leader in technological innovation with considerable expertise gained over many years, we help in increasing the energy efficiency of manufacturing industry and properties economically as well as ecologically – for long-term security and a sustainable future. Because the cleanest energy is energy that has not been generated, distributed or consumed at all. We offer a complete package – from competent energy consultancy and solid as well as precise measurement and communication technologies up to professional software solutions designed to optimize energy costs.



## Geographic information systems/ Asset management

We design and develop systems for industry, utilities, contracting authorities and waste management which are able to digitally manage manifold business and company processes based on geospatial information and provide secure, efficient and holistic asset management. Our product suite, CAIGOS and 360° Asset Management, assists owners, operators, service providers as well as public administrations in operating their grids, networks or plants economically and securely and helps in operating local infrastructures.







Your contact



## WE ARE VIVAVIS

We are blazing a trail in the field of future digital infrastructures, drive digitization and help to master big data. By means of our technologies and services, our customers are able to develop new and sustainable business fields.

### **Benefit from our unique expertise and our extensive service!**

#### **Sustainable**

More than 150 years of knowledge gained by all **VIVAVIS** companies involved

Long-standing partnerships with companies in energy, industrial, housing and municipal sectors

#### **Holistic**

Hardware, software, services and support from one source

#### **Future-proof**

Interoperable, modular and scalable  
Cloud and mobile first  
Ready for Advanced Analytics

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