



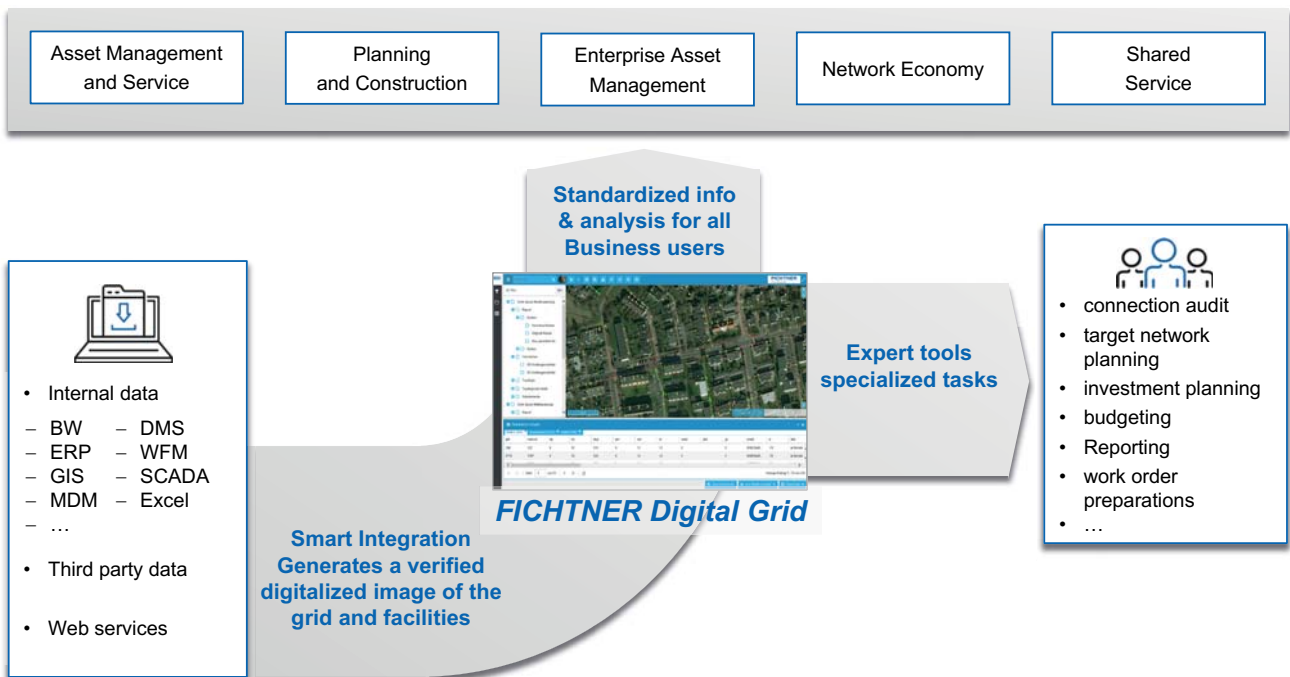
FICHTNER DIGITAL GRID

Integrated Solution Portfolio for
Distribution System Operators

Fichtner Digital Grid

The world of distribution grids is changing radically due to the expansion of renewable energy sources, the growing requirements of electromobility, the aging of assets, and the efficiency requirements imposed by the regulatory authorities. The various demands on grid operators can be met only on the basis of up-to-date, reliable information.

Fichtner Digital Grid provides transparency for the grid of the future. It uses smart integration to create a digital model of the grid, while making up-to-date, centralized asset information available to a wide variety of users. Additional expert tools provide specific functions for key business processes, such as network calculation and regulatory management. As a proven industry specialist, Fichtner supports you in building a modular, scalable solution as a platform for your digitization strategy.



Smart integration for a digital model of the grid: Consistent, cross-process view of facility data

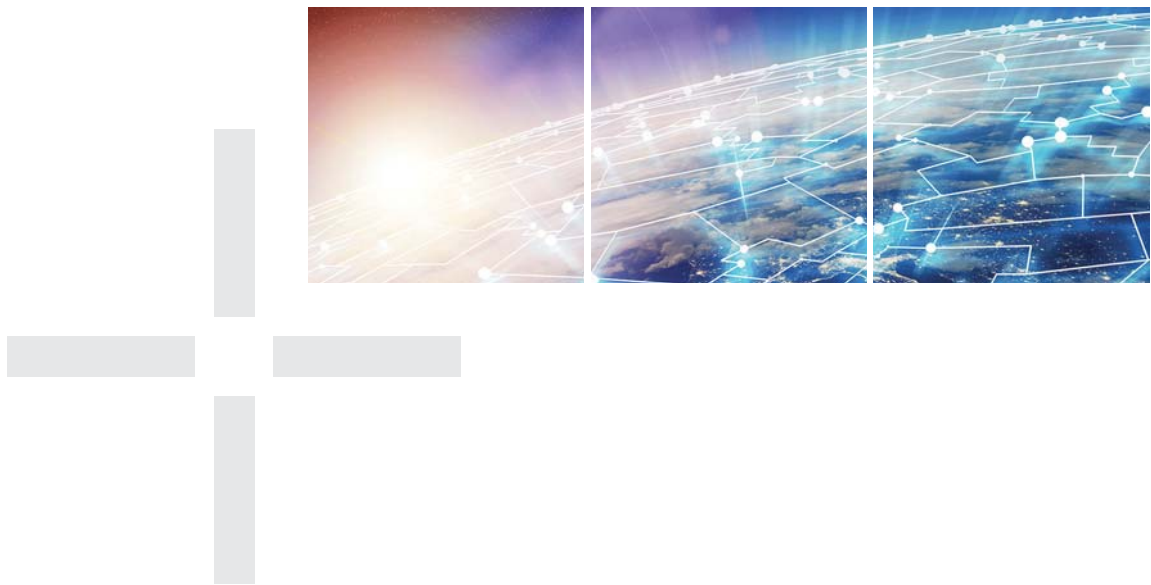
Ensuring reliable facility data usually poses major challenges for grid operators. The use of specialized, non-integrated systems in connection with inconsistencies and gaps in technical characteristics and network topology stands in the way of efficient and transparent grid management. Consequently, simple issues often result in complex queries and manual processing in Excel.

This is where you benefit from our experience in integrating backend systems and our intelligent algorithms for supplementing incomplete topologies and coherently assigning master and transaction data. Gaps in data are detected and filled by learning algorithms. The result is a consistent, complete and high-quality data basis for grid management, including a computable grid model.

The modular way to the smart grid: Expert tools with Business Geo Intelligence

Fichtner Digital Grid provides scalable cloud, hybrid and on-premises modules for the most important tasks of modern grid management. Information levels and functions are made available in a highly differentiated fashion by means of a gra-

duated role concept. An integrated asset view is provided in geographical or schematic form for information and analysis. In addition, Fichtner Digital Grid supplies dedicated expert tools:



BGI Calculate – Network calculation, assessment of the current and future network condition, target network planning, integration of feed-in from distributed generating facilities, connection checking and protection calculation

BGI Document – Grid and facility documentation, planning information, basis for digital construction files, and mobile planning information online/offline

BGI OptNet – Integrated asset management, condition assessment, risk analysis, rehabilitation requirements, CAPEX and OPEX analyses, and grid efficiency

BGI Control – Regulatory management, concession management, preparation for cost reviews, amendment of incentive regulations, tendering processes, and a calculation tool for grid fees

BGI MAINTAIN – Support for maintenance management, analysis of grid components and transaction data (fault messages and orders), and action planning

BGI Policy – Corporate target-oriented maintenance strategy, simulation of scenarios relevant to business, and deduction and evaluation of strategies

Flexible Business Process Outsourcing: Expert services from Fichtner Engineering

Fichtner Digital Grid can be used by your business users and experts. We also offer specialist services – from specific support to complete business process outsourcing services. This is based on our many years of experience in consulting and engineering for distribution system operators, for example in the areas of recording and analyzing network status and evaluating target network options. We offer further consulting and engineering

services for current issues such as the optimization of self-sufficiency through the integration of battery storage or the integration of electromobility.

We also provide support in regulatory management, strategic and operational asset management, grid documentation and planning information.

Fichtner Digital Grid supports distribution system operators in meeting current challenges with a unique, flexibly scalable solution package. In doing so, we focus on company-wide use with functions that are specially designed for different work processes. We offer a customized set of services and integrative software modules that can be individually adapted to the business objectives, from the provision of a reliable, asset-oriented database to cloud-based BPO (Business Process Outsourcing).

FICHTNER

IT CONSULTING

Fichtner IT Consulting (FIT for short) is the IT competence center of the Fichtner Group, which has been an owner-managed company since its foundation in 1922 and has some 1,500 employees in over 60 countries. We design and implement information logistics for technical networks, plants and infrastructure. We combine our knowledge of the industry and process know-how with the latest technological expertise to deliver innovative and cost-effective solutions for your success. The gleaning, structuring, linking, preparation and presentation of information – including the spatial context – are the key to efficient and effective solutions.

Fichtner IT Consulting GmbH
Sarweystraße 3
70191 Stuttgart
Germany

Phone: +49 (0)711 8995-10
Fax: +49 (0)711 8995-1450
info@fit.fichtner.de
www.fit.fichtner.de

