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Nobody is fully there yet

A credible route from grid documentation to grid business support, with Elvia on ArcGIS Utility Network

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Elvia

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We power those who power the world

Führende Unternehmen der Energie- und Versorgungswirtschaft vertrauen auf Lösungen von Volue

18%
der mit Volue optimierten Stromerzeugung Europas

30%
der europäischen intraday-gehandelten Volumina über Volue

800+
Energieexperten mit Präsenz in ganz Europa

1,000+
Kunden in der gesamten Energiewertschöpfungskette

18
Angeschlossene Strombörsen

100+
Verteilnetzbetreiber versorgen über 10 Mio. Endkunden mit Volue Distribution-Lösungen

500,000+
km Stromleitungen dokumentiert, geplant und gewartet mit Volue-Lösungen

100 Mio.
Zeitreihen verwaltet & 5 PB Daten monatlich verarbeitet

8%
der europäischen BESS-Kapazität optimiert mit Volue-Lösungen

Ihr Partner für die gesamte Energie Wertschöpfungskette

Data & Forecasts	Optimization & Planning	Trading	Asset Operations	Distribution
DATA	SOFTWARE	SOFTWARE	SERVICES	SOFTWARE

Referenzen bei **28 der 30 großen europäischen Energieversorgungern**

Elvia · Wiener Netze · Salzburg AG · uniper · enel · Iberdrola · axpo · ENGIE · EnBW · fortum · ALPIQ · Ørsted · volue · e·on · EDF · Statkraft · a2a · VATTENFALL · SEFE · edp · ppc

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Referenzen – gemeinsam mit führenden Verteilnetzbetreibern entwickelt

Volue Grid Planner ist nicht am Reißbrett entstanden, sondern im Tagesbetrieb nordischer VNB – in vergleichbarer Größenordnung zu Wiener Netze

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Norwegen

- Größter norwegischer Verteilnetzbetreiber
- Rund 1 Million Kunden
- Esri Utility Network und Grid Planner
- Gemeinsame Produktentwicklung

N1

Dänemark

- Zweitgrößter dänischer VNB, rund 800.000 Zähler
- Netzplanung auf Utility-Network-Basis
- GIS-Daten im eigenen Rechenzentrum
- Gemeinsame Produktentwicklung

Wiener Netze

Österreich

- PowerTSM seit über 10 Jahren produktiv
- Gas-Bereich, On-Premises
- Etablierte Plattform,
- erweiterbar auf Strom-Smart-Metering

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This is not just a GIS upgrade

The real question is: who can help us make this transition work?

- Modern grid IT requires far more than GIS configuration.
- It needs electricity-domain understanding, implementation experience and business process insight.
- Data modeling, migration and application logic must be aligned from the start.
- The partner must understand the DSO reality, not just the software platform.
- The foundation will support business processes for many years, so long-term commitment matters.

Technology foundation

Domain insight

Long-term delivery capability

“For a DSO, the choice is not simply which technology to buy. The harder question is who to build the future foundation with.”

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ArcGIS Utility Network as the foundation

A service-based foundation for the digital grid

Users and processes	Planners, engineers, field crews, managers
Business applications	Planning, operations, maintenance, analytics
Services and API layer	Secure, service-based access across desktop, web, mobile, integrations
Digital twin foundation	ArcGIS Utility Network: network-aware model of the electric grid, with built-in foundation capabilities such as connectivity tracing, rule-based editing and validation

"The foundation matters because everything built on top of it inherits its strengths and its weaknesses."

For DSOs, the value is not only the data model, but what the data model enables downstream.

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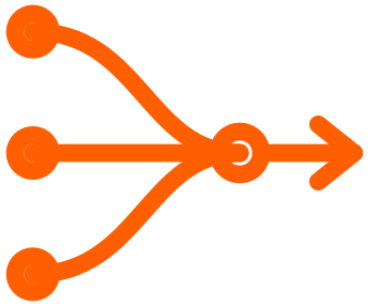
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From foundation to implementation: modeling choices matter

A common implementation approach reduces risk and speeds up value

The challenge

- Extensive model, many implementation choices
- DSOs working alone build divergent models



The guide

- Practical modeling for balanced three-phase grids
- Saves thousands of hours, shared with the Esri ecosystem

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Migration is where the digital twin becomes real

Refinement, not a transfer

- Quality is created in migration: connectivity, electrical properties and hierarchies resolved on the way in
- Day-one trust: value at go-live, not 12 to 18 months of cleansing later

13.8M features migrated at 99.98% quality; all voltage levels, fully traceable. (N1)

250,000 meters, proof-of-value in 3 weeks (Konstant)

Elvia + N1 methodology built inside two of Europe's most demanding DSOs

"A bad migration doesn't announce itself. It quietly undermines everything that follows."

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The grid has left the desktop

Service-based access, to the data and the functionality

Yesterday

- Heavy desktop apps, months of training
- A few specialists; everyone else got screenshots and exports
- Integrated by nightly file jobs, every copy aging from day one

Today, and what comes next

- Open, service-based access with ArcGIS Utility Network
- Grid Planner as web-based, learned in days, from anywhere - accepted at Elvia, going into use
- No installs, no upgrade projects, no waiting for the licensed workstation

“Modern access decides whether grid data is an asset the whole organization works from, or a resource only a few can reach.

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Volue's role in the ArcGIS Utility Network journey

Domain expertise, migration tooling and business applications on one foundation

Utility Network Implementation Guide

Practical modeling guidance for balanced three-phase grids.

Utility Network Migration

High-quality, Day-1 ready foundation from legacy data.

Utility Network CIM Extractor

Clean master data exchange for surrounding systems.

Grid Planner

Accessible planning and design workflows on the foundation.

These are not isolated components. Together they help establish, use and extend the digital twin.

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UN CIM Extractor

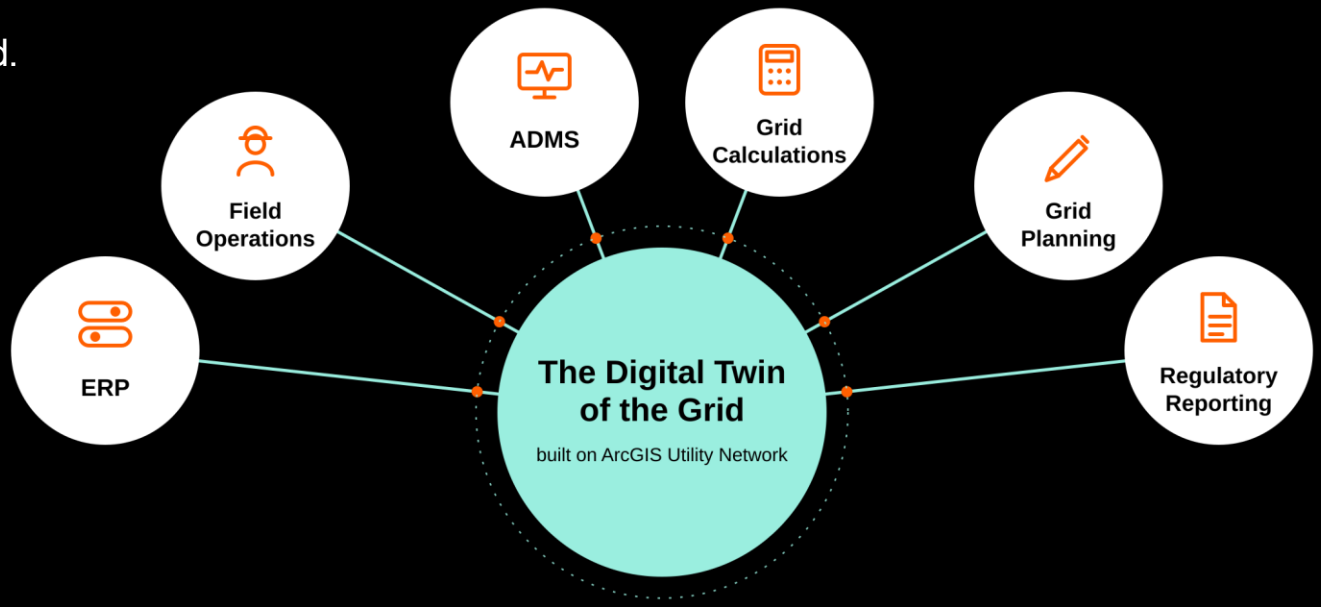
Unleashing grid data for a data-driven energy future

Any master data management strategy relies on a robust integration setup.

Service-based and secure access to data is the start.

But file-based data exchange is also needed.

IEC CIM is the answer.



Automation starts with trusted, contextualized data.

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UN CIM Extractor

Unleashing grid data for a data-driven energy future

- Cements ArcGIS Utility Network as the master source of truth for grid data
- Standardizes data exchange using IEC CIM – replaces proprietary formats
- Ensures interoperability across systems and vendors
- Provides ADMS, analysis tools, and partners with high-quality grid data



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Demo: Grid Planner in practice

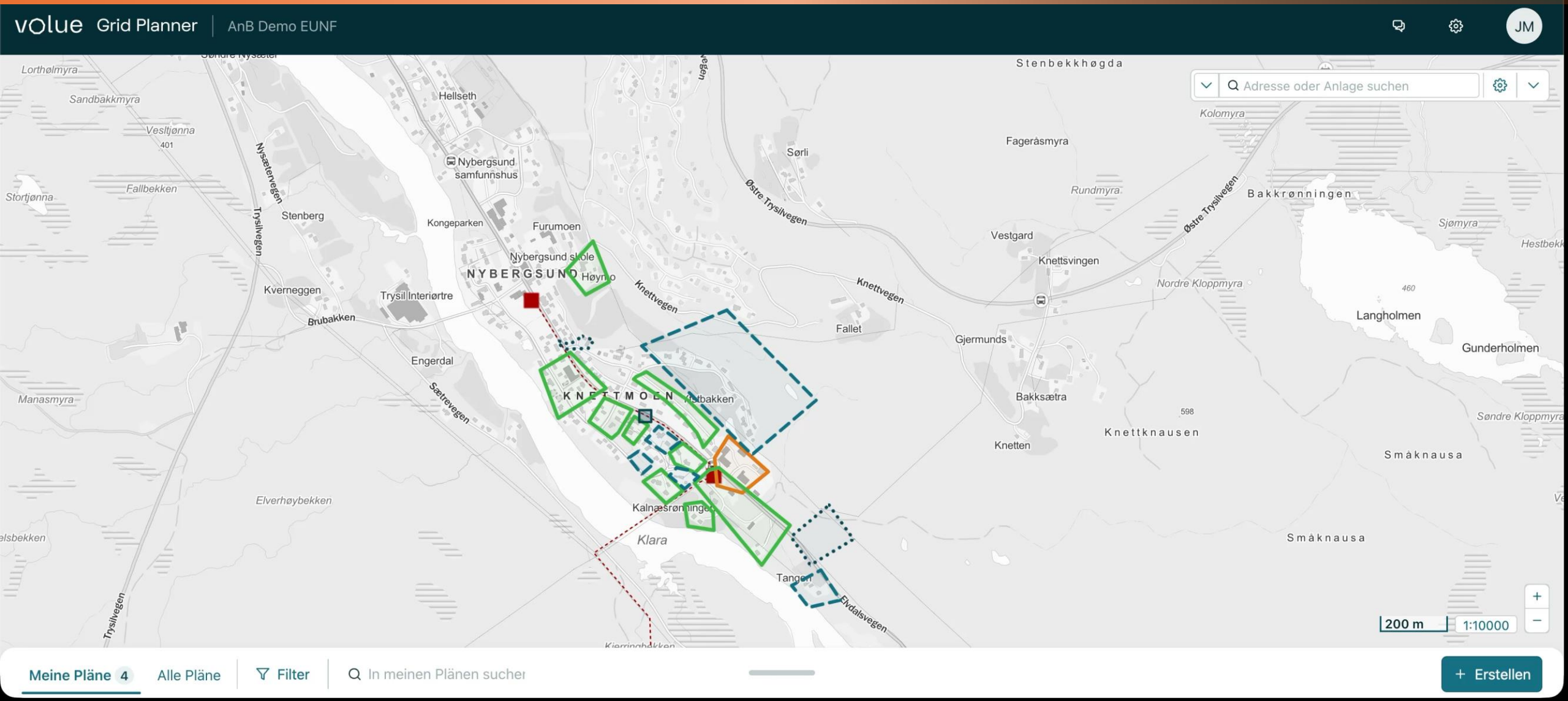
Accepted at Elvia through user and business acceptance testing, and going into use

Notice when watching the movie:

- Browser-based workflow
- Intuitive onboarding
- Grid data used in a real process context
- Service-based access to Utility Network data
- Less dependency on specialist desktop tools

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Netzplanung: Grid Planner



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The platform is the foundation. The partner delivers the value.

Technology makes it possible. People and processes make it pay off.

The right partner — business value

Business-near tooling · Streamlined processes · The whole organisation engaged.



Esri ArcGIS Utility Network — the foundation (IT)

Data model · Topology · Platform.

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Continue the conversation

Talk to us at our booth, or book a follow-up

- Visit Volue at the conference stand
- Ask for the ArcGIS Utility Network Implementation Guide
- Talk to us about migration, CIM extraction and Grid Planner
- Book a follow-up for your own ArcGIS Utility Network journey

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