

GIS Redesign

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Ein Unternehmen der EnBW



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- > GIS as a platform
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GIS Architecture Redesign

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Introduction

Philipp Schöttke

The Science of Geography is holistic. GIS is the toolset, which brings it all together.

- > since 2021: Product Owner at EnBW
- > 2010 – 2021: Team Lead GIS at EnBW
- > 25 years of experience in GIS, mostly ESRI technology
- > Diploma in Geography



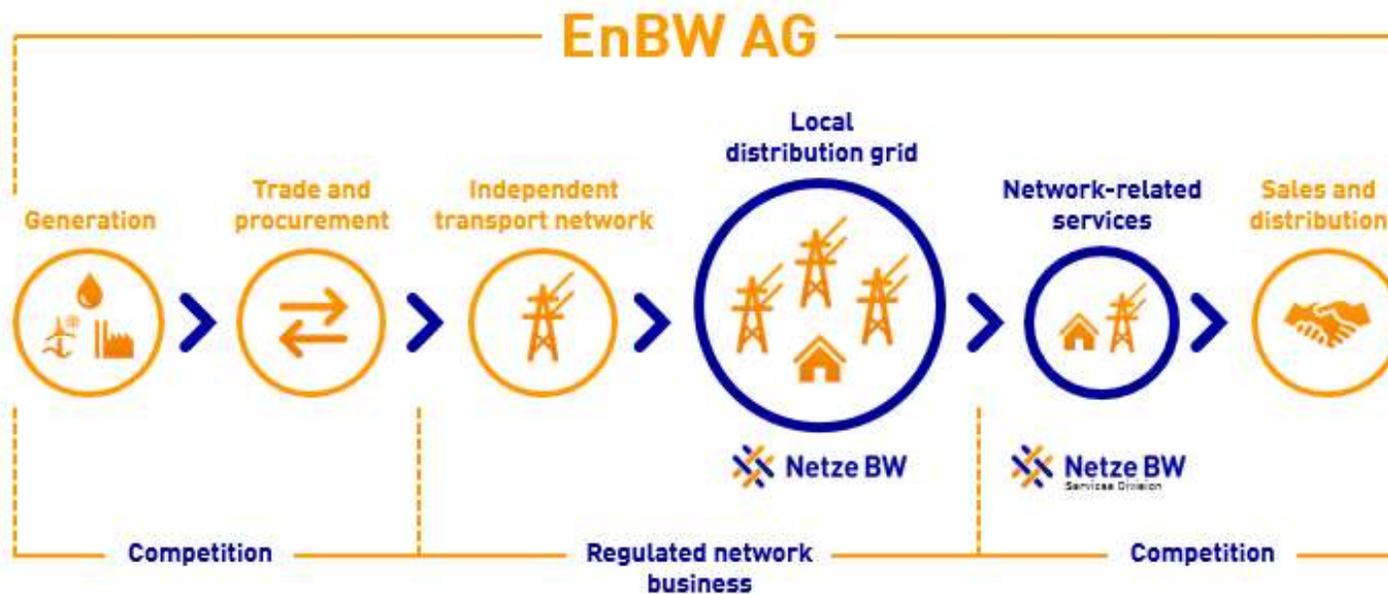
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We – Netze BW – are a link in the energy management value added chain.



Our company in numbers.



We are embedded in Baden-Württemberg.

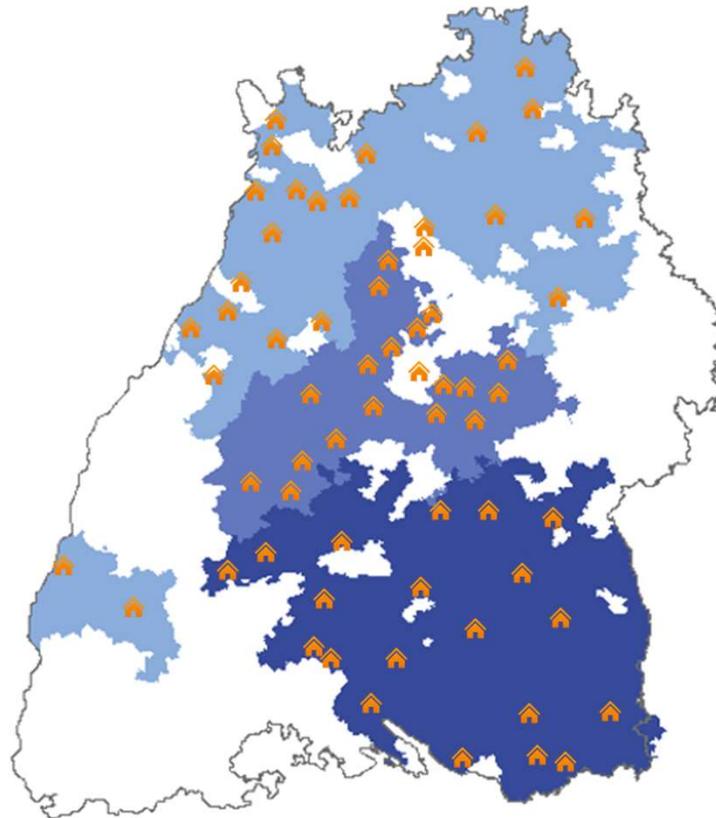


We serve
Baden-Württemberg
and are on site at



88 locations

across the state.



Legend

-  Netze BW location
-  Grid area North
-  Grid area Centre
-  Grid area South

A brief history

2016: IT Architecture Review

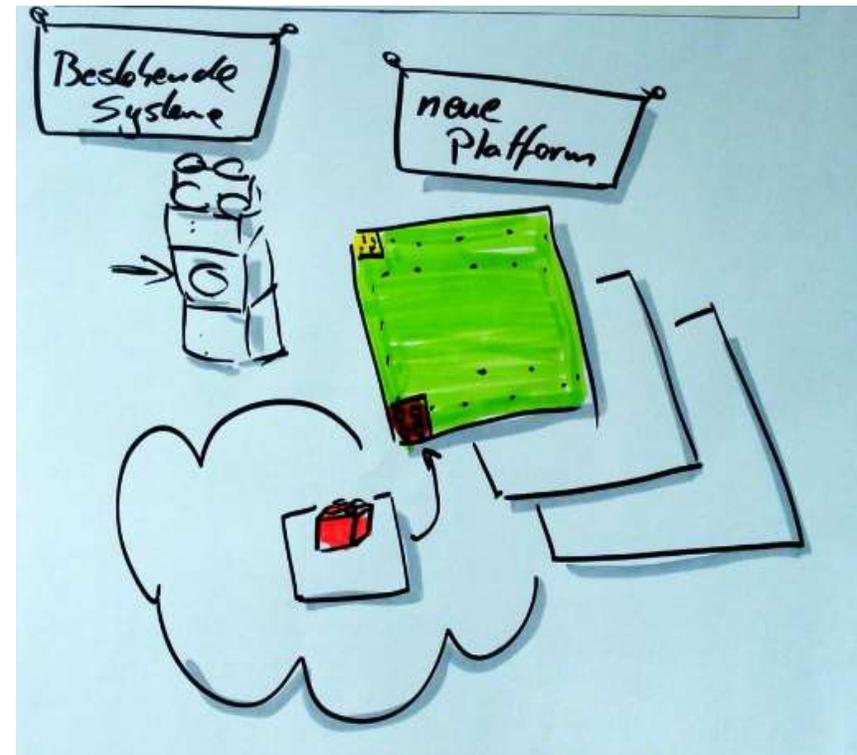
- › Break up monolithic structures
- › Focus on processes and business

2019: Kick Off Geoplattform

- › IT driven project
- › ArcGIS Enterprise

2021: Restructuring IT Department

- › Geoplattform Product Team



Our Vision

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GIS Architecture Redesign

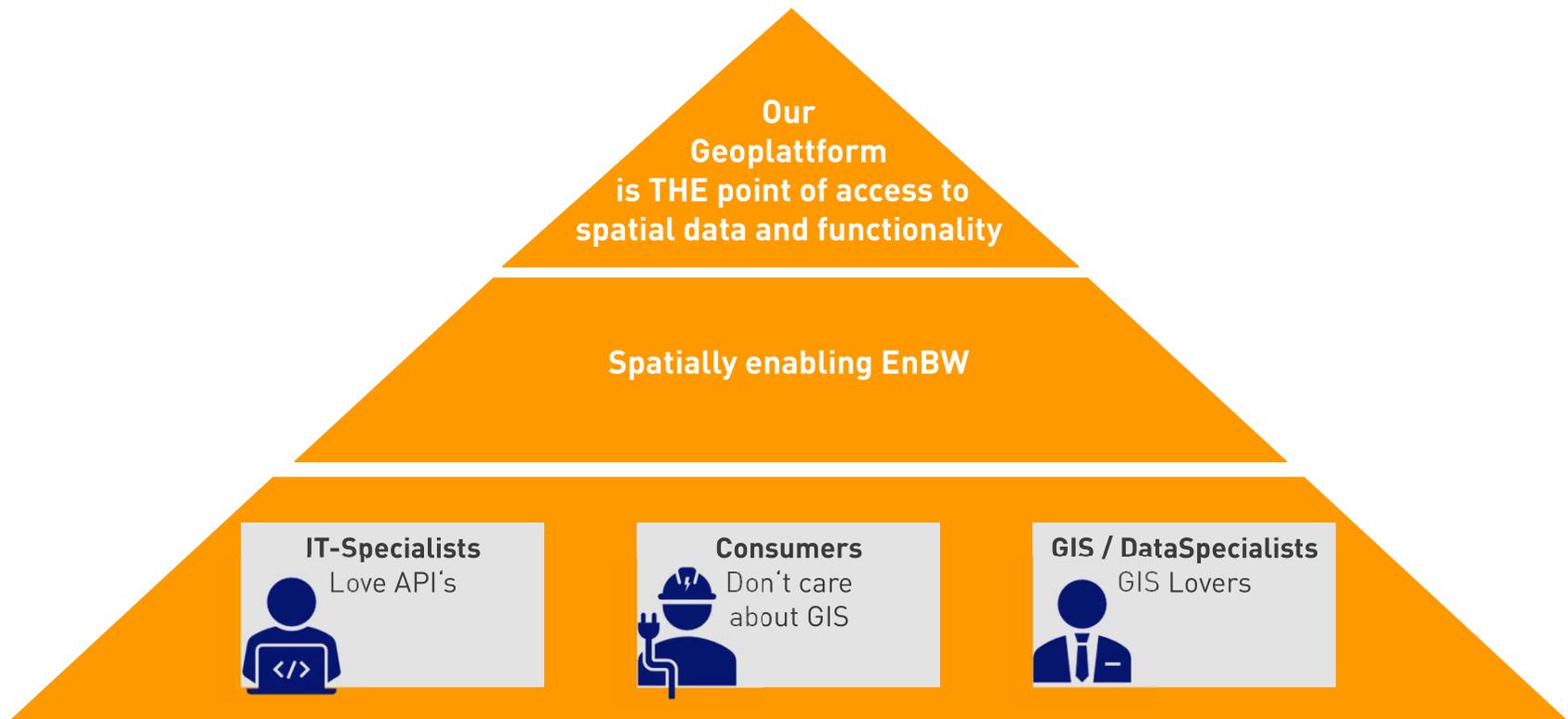
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Consumers
Need to get
their job done



IT-Specialists
Create
IT Solutions



GIS / DataSpecialists
Create maps
Assemble data

Die Geoplattform

Map Self Service

- › Enable staff to simply create and share maps
- › Leverage ArcGIS Enterprise Portal, WebAppBuilder
- › WYSIWYG Maps and Apps

Capabilities as a service

- › Enable IT-Specialists to integrate GIS capabilities
- › Provide Spatial Business Capabilities as a service

Asset Management 2.0

- › Lift ArcMap based application to Utility network based solution
- › Review business processes

Technology

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Technical Guidelines

- › Leverage standards
- › Configuration before customizing
- › Capabilities as a service
- › Minimize dependencies between application
- › Minimize downtimes

Product Vision

- › anytime anywhere by anyone on any device

Configure vs. Customize

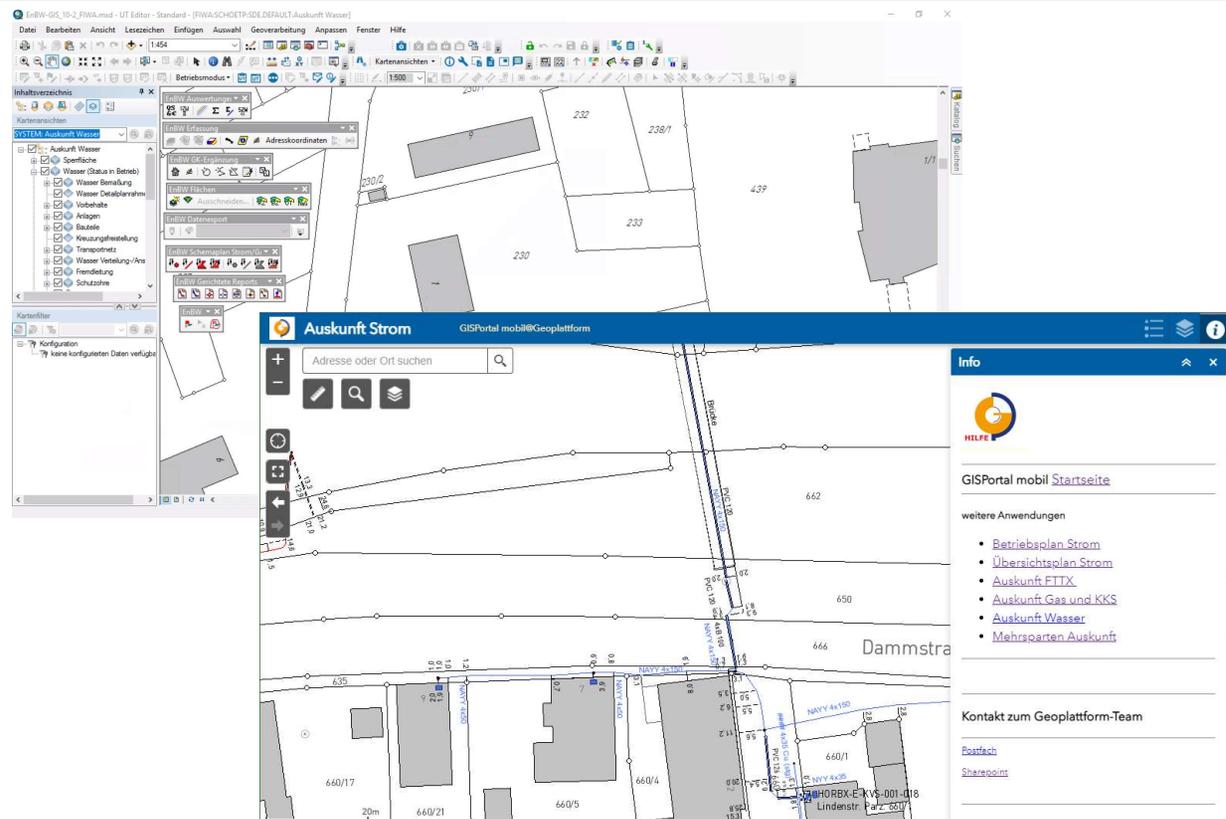
- Avoid vendor lock-In
- Leverage ArcGIS Enterprise Portal, Experience Builder
- WYSIWYG Maps and Apps
- Standardized Templates

Integrated vs. Isolated

- Enable IT-Specialists to integrate GIS capabilities
- Connect
 - BI, ERP, Print...
 - Authentication, Archive...

Asset Management 2.0

- Lift ArcMap based application to Utility network based solution
- Review business processes



Transformation

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What's changing

The way we work

- > Processes
- > Responsibilities
- > Interaction between projects

The way we think about GIS

- > GIS centristic to GIS as a foundation

The way we provide IT

- > Plattform vs. Software application

Outlook

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Where are we heading

Speed of innovation

Digital transformation

An abstraction of the physical world

- › Maps as a result of geographic analysis
- › Digital twins as the source of our action in the physical world

Wir kümmern uns drum.

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www.netze-bw.de und im Social Web.

