



# GIS4SmartGrid 2019

## Integrating Advanced Geographical Information Systems into Digital Utility Infrastructure

3-Day Conference, Exhibition & Networking Forum  
24-26 September 2019 | Berlin, Germany



**In-depth Insights on:**

- ✓ **GIS & Digital Transformation** – leveraging next-generation GIS platforms, features and functionalities to help drive the digital transformation
- ✓ **GIS Strategy & Governance** - developing your internal GIS competence to ensure effective support for the smart grid as digital transformation takes hold
- ✓ **GIS System Integration** – connecting the GIS system with new and legacy, IT and OT systems, to provide geospatial context for a wide range of use cases
- ✓ **GIS & Analytics** – leverage spatial data in analytical models and develop new applications to solve a wide range of smart grid challenges
- ✓ **GIS & Asset Management** – leverage GIS to transform lifecycle management, field operations and outage management
- ✓ **Third-Party GIS** – exploring new opportunities for sharing GS with external stakeholders while mitigating security risks associated with third-party interfaces

**14+ Utility Case Studies Including:**

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|---|--|---|---|
| <b>John Andreas Pretorius</b><br>CIO<br>Hafslund                                | <b>Mikael Mickelsson</b><br>Acting CIO<br>Caruna               | <b>Stephane Otjacques</b><br>Head of Data & Information<br>Elia                 | <b>Derrick Dunkley</b><br>Data Lifecycle Manager<br>National Grid                     |
| <b>Ibon Ruiz Escribano</b><br>Principal GIS Consultant<br>Iberdrola             | <b>Ivo Kuijlaars</b><br>Business Information Manager<br>Enexis | <b>Sigve Hamran</b><br>GIS Manager<br>Lyse Elnett                               | <b>Madis Männik</b><br>Head of Network Systems Management<br>Elektrilevi              |
| <b>Rob Vangeneugden</b><br>Business Analyst, GIS, Data & New Technology<br>Elia | <b>Kjetil Nymo</b><br>Solutions Architect<br>Hafslund Nett     | <b>Rui Almeida</b><br>Project Manager<br>EDP                                    | <b>Marina Grujic-Milosevic</b><br>Business Strategist & Process Manager<br>Vattenfall |
| <b>Ninna Samsø</b><br>GIS Specialist OT Systems<br>Ørsted                       | <b>Lauri Peltola</b><br>Maintenance Engineer<br>Elenia         | <b>Thierry Bussien</b><br>IT System Integration & Governance<br>Romande Energie | <b>Eivind Aasland</b><br>Documentation Manager<br>Lyse Elnett                         |

**Expert Advice From:**

- |   |   |   |  |
|---|---|---|--|
| <b>Davide Coppola</b><br>Project Manager<br>European Space Agency | <b>Soeradj Raghunath</b><br>Senior Manager & GIS Capability Lead<br>Accenture | <b>Jaime Sanchez</b><br>Customer Success Manager<br>Carto | <b>Marco Bernasocchi</b><br>Founder<br>OpenGIS |
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Dear Colleague,

Welcome to the 2<sup>nd</sup> annual [GIS4SmartGrid 2019](#) conference, exhibition and networking forum. This vendor-independent, implementation focused, utility specific programme provides an intensive review of the latest next generation GIS system implementations in the context of digital transformation.

There is no other event like it in Europe! During the course of 3 intensive conference days, you will get the opportunity to hear lessons learnt from 14+ utility specific GIS case-studies, review a range of GIS platforms from a variety of suppliers tailored to the needs of the smart grid specifically, and power network with a highly focused group of smart grid GIS professionals from across Europe.

Join our audience if you are involved in smart grid GIS departmental leadership, system design and implementation, system operation and maintenance, system security or system use. Join our solution zone if you have GIS products and services for the smart grid environment specifically.

**Event highlights include:**

**Case study programme** - gain in-depth insights into the GIS implementation strategies of pioneering European utilities and understand how new systems and processes are being developed to support digital transformation

**Technology innovation panel** - quiz the leading GIS system suppliers on the strength of their solutions and suitability for integration into the smart-utility environment

**System integration tutorial** - taking place at the end of conference day three, gain all the knowledge and insights you need to effectively integrate your GIS with other enterprise systems and deliver maximum benefits to your organisation

**Roundtable discussions** – choose from a selection of intimate roundtables, each addressing a key theme arising from the opening day's discussions, to allow you to delve deeper into the most specific issues impacting your organisation

**Networking evening reception** - relax and unwind after a full day of presentations and panel discussions, meet with colleagues from across the European smart grid GIS community, reflect on new ideas and opportunities for collaboration

Kind Regards,



**Louis Morgan**

Conference Producer | Smart Grid Forums

*PS: Very Early Bird Rate! Save up to €400 on Delegate places and €2,000 on Exhibitor spaces by booking your place before Friday 28th June 2019!*

*PPS: Group Booking Discounts – Save 10% on 3 delegates from the same organisation and booked at the same time!*

**“The geographic information system (GIS) market was valued at USD 5.33 Billion in 2016 and is expected to reach USD 10.12 Billion by 2023, growing at a CAGR of 9.6% between 2017 and 2023” (Source: MarketsandMarkets)**

## Sponsorship & Exhibition Opportunities



Would you like the opportunity to raise your brand profile, demonstrate your products and services and share your expertise with the most targeted and influential group of smart grid GIS implementation leaders and decision makers?

Our adjoining exhibition area provides the perfect platform for you to do this and more! Capped at 10 stands we ensure a focused and relevant display of the latest tools, technologies and services for our audience and maximum visibility for each exhibitor.

To find out more about the various sponsorship and exhibition opportunities:

Call: +44 (0)20 3691 1700

Email: [registration@smartgrid-forums.com](mailto:registration@smartgrid-forums.com)

## Testimonials from GIS4SmartGrid 2018

**“I really enjoyed the conference. It was very valuable to me and really well organised, a unique possibility to exchange knowledge with like-minded people from other utilities. I certainly recommend GIS4SmartGrid for other companies wishing to take the next step in this area.”**

**Raffael Hilber**, Head of Development Network Information  
**BKW**

**“GIS4SmartGrid is worth both the time and the effort to gather and discuss the matters of innovation to success. Take a step back, think and act quickly to tackle the challenges, this is the main message.”**

**Yiannakis Ioannou**, GIS Coordinator and Engineering  
**Electricity Authority of Cyprus**

**“A combination of very knowledgeable experts, panel discussions and round table discussions were useful.”**

**Maryam Al-fadhala**, Planning Engineer - **Public Works Authority Qatar**

08:00	<b>Registration and refreshments</b>	
08:45	<b>Opening address from the chair</b>	
09:00	<p><b>Next-Generation GIS Drivers – exploring the impact of business and smart grid transformation on the development of robust, multi-functional GIS capabilities</b></p> <ul style="list-style-type: none"> <li>Exploring GIS’s role as a key pillar for enterprise IT architecture and the resulting functional requirements</li> <li>Identifying business and operational needs for a range of GIS end users given the technological transformation of the power sector</li> <li>Evaluating the process for external engineering contractors’ interactions with utility GIS in the short and longer term</li> <li>Effectively preparing for the impact of new technology and business needs on future GIS development and managing resulting process changes</li> <li>Fully realising your GIS roadmap to support high-value outcomes for the smart grid</li> </ul> <p><b>Mikael Mickelsson</b>, Acting CIO – <b>Caruna</b></p>	14:45
09:45	<p><b>GIS for Digital Transformation – defining and implementing robust IT architecture incorporating increasingly advanced digitalised GIS</b></p> <ul style="list-style-type: none"> <li>Positioning GIS at the heart of the ongoing digitalisation of utility business processes</li> <li>Fully elaborating the required capabilities for futureproof GIS considering the full asset lifecycle</li> <li>Evaluating the suitability of GIS as a master source of asset information and developing an appropriate strategy for the storage of data</li> <li>Designing GIS architecture to deliver required capabilities while conforming to all necessary data standards</li> <li>Establishing a vision for the integration of GIS into enterprise IT and delivering a robust roadmap for its implementation</li> </ul> <p><b>Stephane Otjacques</b>, Transformation Manager and Head of Data &amp; Information – <b>Elia</b>  <b>Rob Vangeneugden</b>, Business Analyst, GIS, Data, and New Technology – <b>Elia</b></p>	15:30
10:30	<b>Morning refreshments, networking and exhibition</b>	
11:00	<p><b>Panel: Next-Generation GIS Strategy – taking a data-centric approach to support development, resilience and automation in the smart grid</b></p> <ul style="list-style-type: none"> <li>Effectively integrating GIS with other IT and OT systems to ensure the smooth flow of data to support deeper analytics tools and use cases</li> <li>Automating the acquisition and validation of GIS data as well as its combination with historic and real-time data collected from the wider utility network</li> <li>Developing a governance framework which ensures responsibility is taken by data owners for the quality of their data</li> <li>Deciding on the right mix of vendor, consultant and in-house experience to cost-effectively deliver desired GIS capabilities</li> <li>Ensuring appropriate resources are given to improving the accuracy and completeness of GIS data to support more advanced analysis</li> </ul> <p><b>John Andreas Pretorius</b>, CIO – <b>Hafslund Nett</b>  <b>Ibon Ruiz Escribano</b>, Principal GIS Consultant – <b>Iberdrola</b></p>	16:45
12:30	<b>Lunch, networking and exhibition</b>	
14:00	<p><b>GIS Governance – developing a business data model that provides effective GIS data governance across a range of business applications</b></p> <ul style="list-style-type: none"> <li>Establishing effective data governance frameworks and specifying data owners, data quality standards, privacy considerations and data retention times</li> <li>Using a common data model based on CIM to better interface GIS with existing business processes</li> </ul>	19:00
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08:00 **Registration and refreshments**

08:45 **Welcome back from the chair**

09:00 **GIS Application Development – enhancing the functionality of your GIS System of Engagement to extend modular support to a plethora of end-users**

- Identifying and translating the GIS needs of a wide range of internal and external clients including:
  - Grid development and investment planning
  - Asset management
  - Network operations
  - Field-force management and operations
  - Customer experience
- Developing a robust roadmap for new GIS-enabled applications and tools based on a full appraisal of desired functionality and business value
- Leveraging a blend of in-house and external development expertise to effectively deliver planned functionality in a cost-efficient manner
- Improving the functionality available across desktop, web and mobile GIS platforms to improve GIS accessibility and performance for a wider user base
- Quantifying the potential for GIS-enabled applications to transform business processes for end users throughout the utility value chain

**Soeradj Raghunath**, Senior Manager & GIS Capability Lead – **Accenture**

09:45 **External GIS Data Extraction – automating the process for exporting GIS data for customers to quickly facilitate engineering activities local to underground cables**

- Developing an accessible web portal to allow formal public customer requests for geoproducts
- Accurately interpreting user requests and accessing the relevant GIS data automatically
- Converting GIS information into vector and raster data for use by customers
- Reverse engineering AutoCAD Map 3D Layering and Symbology and rendering the resulting extracted data
- Delivering extracted geoproducts back to the customer via webportal in an accessible format
- Estimating the potential ROI delivered by the further automation of critical GIS functions

**Thierry Bussien**, IT System Integration & Governance – **Romande Energie**

10:30 **Morning refreshments, networking and exhibition**

11:00 **Technology Innovation Panel – exploring innovations at the cutting edge of GIS tools, specifically designed to support smart utilities**

*In this session you will have the chance to quiz some of the most cutting-edge suppliers of GIS Systems, Software and Platforms on their offerings for the utility environment. Each vendor will have 15 minutes to present on the practical application of their tools to support grid operators. The session will conclude with a panel-discussion and Q&A, giving you ample opportunity to evaluate the suitability of these solutions for your specific needs.*

**Jaime Sanchez**, Customer Success Manager - **Carto**

12:30 **Lunch, networking and exhibition**

14:00 **Space Technology – leveraging space technology to enhance operations and maintenance and support the development of the smart grid**

- Using space technology to support the integration of EVs, demand response, microgrids and virtual power plants into the energy system

- Combining space technology with GIS to support vegetation management, infrastructure monitoring, weather event impact analysis and consumption assessment
- Leveraging space technology in conjunction with other technology enablers including big data, AI, IoT, cybersecurity and 5g
- Building a roadmap for the future implementation of space technology to support the decentralization of the energy system

**Davide Coppola**, Project Manager – **European Space Agency**

14:45 **GIS Cybersecurity – Minimising GIS cybersecurity risk to deliver safe and secure third-party access to enterprise systems**

- Comprehensively securing GIS systems using a combination of technological and operational approaches
- Accurately assessing the security of GIS systems through periodic penetration testing
- Achieving an acceptable balance between GIS security and ease-of-use
- Establishing effective role-based access control based on an accurate understanding of third-party GIS requirements
- Mitigating enhanced cybersecurity risk from the use of legacy GIS in conjunction with cloud services
- Leveraging virtualization to isolate third-party GIS usage from enterprise systems

**Madis Männik**, Head of Network Systems Management – **Elektrilevi**

15:30 **Afternoon refreshments, networking and exhibition**

16:00 **GIS for Analytics and Visualisations – leveraging the wealth of geospatial data contained in GIS to deepen your grid analytics and produce powerful visualisations**

- Incorporating GIS data into analytics models to further improve insight into a number of network behaviours and characteristics
- Ensuring the right level of precision and completeness in GIS data to maintain the reliability and accuracy of your analytics
- Prioritising analytics use cases for which geospatial data will add the most value
- Translating the outcome of geospatial analysis into intuitive reports and visualisations which convey complex information to end users at every level of the organisation
- Applying machine learning tools to recognise complex patterns in visual data to further improve the insight generated
- Taking your data analytics capabilities to the next level through the inclusion of GIS data and the delivery of tangible visual output

16:45 **Open-Source GIS Implementation – examining practical examples of the application of open-source GIS tools in real-world scenarios**

- Exploring implementation case studies from other settings to establish the suitability of open-source solutions to support electric utility GIS
- Leveraging support from the distributed user community to improve functionality without recourse to traditional vendors or consultants
- Integrating open-source GIS applications with existing proprietary geospatial databases and other information systems to ensure continued legacy functionality
- Calculating and comparing the cost and flexibility benefits of open-source applications against proprietary platforms

**Marco Bernasocchi**, Founder – **OpenGIS**

17:30 **End of conference day two**

08:00 **Registration and refreshments**

08:45 **Welcome back from the chair**

09:00 **GIS for Asset Management – leveraging next-generation GIS systems to streamline asset management and field operations**

- Harnessing the power of GIS to meet current and future asset management challenges
- Effectively integrating GIS with EAM to ensure harmonized data across asset management systems
- Incorporating non-GIS data into GIS through spatial analyses and attribute comparisons
- Assessing the use of augmented reality in conjunction with GIS
- Delivering tangible improvements to asset management processes and outcomes through more effective use of GIS

**Derrick Dunkley**, Data Lifecycle Manager – **National Grid**  
**Adrian Moisey**, Asset Data Officer – **National Grid**

09:45 **GIS for Asset Life-Cycle Optimization – maximising the potential of GIS to simplify asset lifecycle processes**

- Moving the full scope of planning and maintenance data into GIS to provide a one-stop-shop source of asset information
- Integrating GIS with maintenance data from the field and other enterprise systems
- Processing data on asset condition, performance and life-cycle in GIS to deliver accurate insights to maintenance teams
- Leveraging visualised asset information in GIS to prioritise maintenance activities
- Quantifying the benefit to asset management teams of easy-to-access information on the holistic asset lifecycle

**Lauri Peltola**, Maintenance Engineer – **Elenia**

10:30 **Morning refreshments, networking and exhibition**

11:00 **GIS for Outage Management – analysing real-time and historic, GIS and OMS data to pinpoint network faults, reduce downtime and predict further incidents**

- Overlaying outage information onto GIS data to create a comprehensive picture of the network in real time
- Accessing multiple internal and external data streams and contextualising them with topology and geospatial information
- Equipping control room teams with live maps displaying crucial outage data to improve response times and provide earlier warnings of faults
- Using GIS asset information alongside outage data to identify failure-prone assets to be addressed before failure occurs
- Automatically generating reports and creating visual tools to monitor and convey likely outage duration, impact and cost to the organisation
- Quantifying the power of GIS data to support reductions in network failure and improve responses to remaining incidents

**Rui Almeida**, Project Manager – **EDP**

11:45 **GIS for Field Operations – improving management of field activity and providing better support to field crews to maximise available engineering resources**

- Enabling a holistic overview of field operations to optimise deployment and manage third-party contractors
- Developing accessible platforms and applications for use by both internal and external field crews to coordinate activity and validate works
- Utilising intuitive GIS user interfaces to ensure as-built assets are correctly reflected in the GIS database in a timely manner

- Increasing the support for field users through GIS to improve operations and ensure best engineering practice
- Reviewing the impact of GIS in simplifying and improving the management and effectiveness of field crews

**Ninna Samsøe**, GIS Specialist OT Systems – **Ørsted**

12:30 **Lunch, networking and exhibition**

14:00 **GIS for Low Voltage Networks– leveraging the extension of SCADA systems throughout the LV network to improve GIS coverage and operational control**

- Combining real-time LV data from (A)DMS with GIS to improve network monitoring and further automate grid control
- Prioritising compatibility with GIS when selecting and deploying new control systems to ensure the smooth flow of data
- Utilising the expansion of control systems in the LV network to fill in gaps in GIS data and verify the accuracy of existing topology data
- Harnessing geographically complete network data to improve visibility and reliably automate control of the complex LV grid
- Demonstrating the value of a robustly integrated GIS system in extending high-value use cases to the low-voltage network

**Marina Grujic-Milosevic**, Business Strategist & Process Manager – **Vattenfall**

14:45 **GIS for Distributed Energy Resources – incorporating DERs into your GIS data model to support their integration into the grid**

- Ensuring an accurate and complete representation of DERs in GIS to support complete topology data and facilitate better insight into their impact on the grid
- Translating a wide variety of new devices and components from multiple manufacturers into your utility network model
- Continuing to accurately reflect grid topology to support reliable analysis on the impact of unpredictable DERs in the grid
- Utilising GIS data to automatically provide information on available network capacity to internal and external clients
- Leveraging GIS to help ensure the reliability of the grid while supporting the uptake of decentralised energy

15:30 **Afternoon refreshments, networking and exhibition**

16:00 **Tutorial: GIS System Integration**

This tutorial consists of a number of presentations, breakout sessions and discussions around:

- The specific challenges faced in integrating GIS with other utility systems including SCADA, ERP and (A)DMS
- Different approaches to digital architecture and their suitability for your organisation based on multiple criteria
- The merits of industry standards in ensuring flexible system interoperability
- The institution of robust data governance frameworks to clearly define data ownership and hierarchies
- Change management strategy to mitigate the organisational upheaval associated with digital transformation

**Ivo Kuijlaars**, Business Information Manager – **Enxsis**

17:30 **End of conference**





# GIS4SmartGrid 2019

## Integrating Advanced Geographical Information Systems into Digital Utility Infrastructure

3-Day Conference, Exhibition & Networking Forum  
24-26 September 2019 | Berlin, Germany



### Pricing & Discounts

	<b>Very Early Bird</b> Book before Friday 28 <sup>th</sup> June 2019	<b>Early Bird</b> Book before Friday 30 <sup>th</sup> August 2019	<b>Standard Rate</b>
[ ] <b>3-Day Delegate Pass</b>	€2,195.00 + 19% VAT = €2,612.05	€2,395.00 + 19% VAT = €2,850.05	€2,595.00 + 19% VAT = €3,088.05
[ ] <b>10% Group Booking Discount for 3+ delegates</b>	€1,975.50 + 19% VAT = €2,350.85	€2,155.50 + 19% VAT = €2,565.05	€2,335.50 + 19% VAT = €2,779.25
[ ] <b>Exhibitor (including 2 conference passes)</b>	€5,000 + 19% VAT = €5,950.00	€6,000 + 19% VAT = €7,140.00	€7,000 + 19% VAT = €8,330.00

### Register

To register your place, visit the [registration page](#) of the event website and fill in your details.

You may request an **invoice** for payment by bank transfer within 7 days or make immediate payment by **credit card** or via **paypal**.

#### Contact Us:

T: +44 (0)20 3691 1700

E: [registration@smartgrid-forums.com](mailto:registration@smartgrid-forums.com)

### Venue & Accommodation

**Park Inn by Radisson Berlin Alexanderplatz**  
Alexanderplatz 7  
Berlin  
D-10178  
Germany

**Tel:** +49 (30) 2389 0

**Email:** [reservations@parkinn-berlin.com](mailto:reservations@parkinn-berlin.com)

**Web:** <https://www.parkinn.com/hotel-berlin>

### Terms & Conditions

**Payment:** payment must be made at the time of booking to guarantee your place, either by credit card, or invoice which must be settled on receipt of the invoice and prior to the first day of the conference. If payment has not been received by the first day of the conference, then credit card details will be requested onsite and payment will be taken before entry to the conference. Bookings made within 28 days of the conference require payment by credit card on booking.

**Delegate Inclusions:** the delegate fee covers attendance of conference sessions, speaker presentation materials, lunch and refreshments during the course of the conference, and the networking reception. It does not cover the cost of flights, hotel rooms, room service or evening meals. If after booking your place you are unable to attend you may nominate, in writing, another delegate to take your place at any time prior to the start of the conference. Two or more delegates may not 'share' a place at the conference. Please make separate bookings for each delegate.

**Exhibitors:** the exhibition is located in the networking and catering area alongside the conference room to ensure maximum footfall and visibility for all exhibitors. Each exhibitor will be allocated a 3m x 2m space with table, 2 chairs, power sockets and WiFi access. The exact location of each exhibitor will be determined 2 weeks prior to the conference.

Exhibitor set-up commences at 7am on the first day of the conference, and breakdown takes place after 4pm on the last day of the conference. Exhibitor packages include 2 conference passes. Additional passes may be purchased at 10% discount on the published rates.

**Cancellations:** regretfully cancellations cannot be facilitated but transfer to a future conference is permissible. We will provide the speaker presentation materials to any delegate who has paid but is unable to attend. If we have to cancel an event for any reason, we will make a full refund immediately, but disclaim any further liability.

**Alterations:** it may be necessary for us to make alterations to the content, speakers, timing, venue or date of the event compared with the original programme.

**Data Protection:** Phoenix Forums t/a Smart Grid Forums gathers personal data in accordance with EU GDPR 2016 and we may use this to contact you by post, email, telephone, fax, SMS to tell you about our other products and services. We may also contact you with information about complementary products and services from carefully selected third parties. If you do not wish to receive information about our other events or products from selected third parties, please write to us at: [database@smartgrid-forums.com](mailto:database@smartgrid-forums.com)