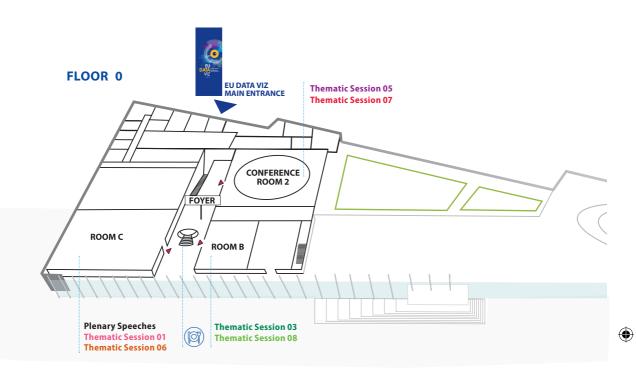


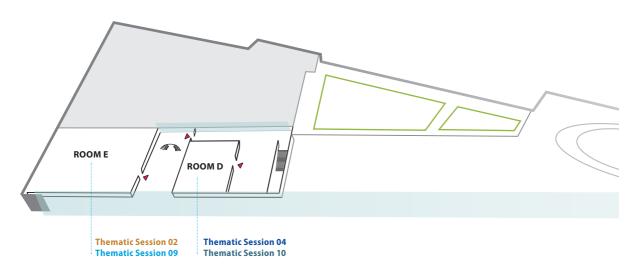
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FLOOR +1



Introduction

EU DataViz 2019 is an international conference taking place on 12 November 2019 in Luxembourg, organised by the Publications Office of the European Union.

It addresses for the first time the specific needs of the community engaged in data visualisation for the public sector in Europe, bringing together experts, practitioners and solution seekers.

The aim of the conference is to use data visualisation as an enabler to maximise the potential of existing data in Europe and beyond, therefore **better serving citizens** in the European Union.

Over 350 participants dealing with data visualisation are expected to attend the conference, mainly staff of both the European Union and national and regional public administrations in Europe. The conference is also open to researchers and academia as well as professionals in data visualisation, data journalists and graphic designers, in order that they can learn and exchange practices with experts in the field.

The conference offers participants the opportunity to:

- learn about emerging trends and innovative initiatives;
- acquire new knowledge and skills for data visualisation techniques;
- network and exchange experience and best practices;
- ▶ showcase data visualisation projects in the public sector and beyond.

It covers a range of aspects, such as data visualisation for communication purposes (data storytelling, infographics), data exploration and tools and best practices.

The programme features:

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- inspirational plenary speeches;
- parallel thematic sessions with professionals from all around the world;
 and
- exhibition of stands and posters from different institutions, national bodies and the private sector about this topic.

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8:00 Registration
9:00 Welcome coffee

9:30 – 11:00 **PLENARY SPEECHES**

ROOM C ROOM B (listening)

Opening speech

Rudolf Strohmeier — Director-General of the Publications Office of the European Union

► Keynote address

Marc Hansen — Minister for the Civil Service, Minister for Relations with Parliament, Minister Delegate for Digitalisation, Minister Delegate for the Administrative Reform of the Government of the Grand Duchy of Luxembourg

- ► Open data and data visualisation: building the virtuous cycle Victoria Boeck — Technologiestiftung Berlin
- ► Visualisation for knowledge communication: a holistic approach Marc Wilikens — Joint Research Centre of the European Commission
- ► Honest visuals: ethics in data visualisation Xaquín Veira González Xaquín G.V.

11:00 Coffee break — Stands and exhibition posters

11:45 - 13:00 PARALLEL THEMATIC SESSIONS

Understanding policy ROOM C

This session will highlight several data visualisation uses in domains like elections, ethics and trade policies.

- Discovering statistics

 ROOM E

 Learn creative techniques to present statistics in an insightful manner.
- Exploring geospatial data

 ROOM B

 How to visualise geospatial information and create meaningful maps.
- Serving citizens
- An exploration of how data visualisation can help increase citizens' understanding in different domains from statistics to culture and art.
- Tools for data visualisation CONFERENCE ROOM 2
 Showcasing tools to create powerful data visualisations.







Lunch break — Stands and exhibition posters

14:00 - 15:15 PARALLEL THEMATIC SESSIONS



New ways to present reports ROOM C

International and public administrations share their practices in creating compelling visuals for monitoring, data exploration and decision-making.

07

Designing beautiful data visualisation

CONFERENCE ROOM 2

A guided tour of visual aesthetics, narratives and best practices for producing stunning data visualisations.

08

Building smart cities

ROOM B

A journey through smart cities all over the world.

09

Telling stories

ROOM E

Approaches to data storytelling for public administrations and data journalism.

10

Emerging technologies

ROOM D

Going beyond state of the art — the future of data visualisation.

15:15

Coffee break — Stands and exhibition posters

16:00 - 18:00 PLENARY SPEECHES

ROOM C

ROOM B (listening)

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 Visualising data for exploration and explanation and everything in between

Benjamin Wiederkehr — Interactive Things

► The art of spatial data storytelling

Juan Arevalo Torres — Randbee Consultants

Making the invisible visible

Caroline Goulard — Dataveyes

Visualising the cosmos: from the tiniest scales to the massive black holes

Barthelemy von Haller — CERN — European Organization for Nuclear Research Jeremi Niedziela — CERN — European Organization for Nuclear Research Oliver James — DNEG — Double Negative

Closing words

Paul Hofheinz — President and co-founder of The Lisbon Council

18:00

Networking cocktail









PROGRAMME

09:30 - 11:00

PLENARY SPEECHES

Moderator: Lisa Burke — Independent, creator of RTL Today

ROOM C

ROOM B (listening)



Opening speech

Rudolf Strohmeier, Director-General of the Publications Office of the European Union

Rudolf W. Strohmeier has been Director-General of the Publications Office since May 2016. Previously Deputy Director-General for Research and Innovation at the European Commission, he has a background in law and economics.

Working in the European Commission since 1987, he served, inter alia, in the cabinets of President Prodi and Commissioners Schmidhuber, Fischler (Deputy Head of Cabinet) and Reding II (Head of Cabinet).



Keynote address

Marc Hansen, Minister for the Civil Service, Minister for Relations with Parliament, Minister Delegate for Digitalisation, Minister Delegate for the Administrative Reform of the Government of the Grand Duchy of Luxembourg

Marc Hansen was elected to Parliament in 2013 and entered the government in 2014.

Before starting his political career, he worked as a reporter for RTL Lëtzebuerg and, later on, he became chief executive officer and managing director of Éditions Lëtzebuerger Journal. He was also the co-founder of several innovative start-ups in the information technology sector.





PROGRAMME



Open data and data visualisation: building the virtuous cycle

Victoria Boeck, open data researcher, Technologiestiftung Berlin (Germany)

How can governments increase awareness of and enthusiasm for their open data programmes in the face of existing challenges? This talk will focus on how data visualisation in the public sector can be used to support policy goals through concrete, successful examples.

Victoria Boeck is an open data researcher at Technologiestiftung Berlin. Her research focuses on how open data can be used to positively transform cities and administrations, and how these can use technology and data to provide better services.



Visualisation for policy communication: a holistic approach and perspectives

Marc Wilikens, head of unit, Joint Research Centre of the European Commission (European Union)

The Joint Research Centre has produced 10 flagship reports linking state-of-the-art knowledge with key policy topics. This is an inspiring talk about the design process and the solutions and lessons learned from visualising the complex Knowledge4Policy embedded in reports and in communication products like social media.

Marc Wilkens is the head of the knowledge management methodologies, communities and dissemination unit at the European Commission's Joint Research Centre. As part of its activities, the unit develops core competence in the design of infographics and audiovisual products and knowledge for policy communication products.



Honest visuals: ethics in data visualisation

Xaquín Veira González, visual journalist and data visualisation consultant (Spain)

Data visualisation is susceptible to misinterpretation and manipulation like any other communication method. Xaquín will explain how to spot misleading visuals, prevent biases when designing visualisations and promote the audience's data and visual literacy.

Xaquín Veira González is an award-winning expert in data-driven visual storytelling. He recently led the visuals desk at the *Guardian*. Before that, he worked at *National Geographic*, the *New York Times* and *El Mundo*.







Thematic Session 1 Understanding policy

In an increasingly connected and fast-paced world, understanding data is key for policymaking and for responding to emerging or complex issues. This session will highlight several data visualisation uses in domains like elections, ethics and trade policies.

Moderator: Lisa Burke | Independent, creator of RTL Today

ROOM C





Communicating complex economic topics for policymakers

Annie White, software product manager, and Nil Tuzcu, UX/UI and data visualisation designer, Harvard's Center for International Development (United States)

Discover the making of Harvard's atlas of economic complexity, a powerful data visualisation platform that allows people to explore global trade flows across markets, track these dynamics over time and discover new growth opportunities.

Annie White oversees the development of software tools at Harvard's Growth Lab. For the past 2 years she has guided the development of the Growth Lab's flagship tool — the Atlas of Economic Complexity. With 15 years of experience in sustainable development research, media and software projects, she is interested in how digital products can help solve global development challenges.

Nil Tuzcu is a creative technologist and multimedia designer working at the intersection of storytelling, user experience design and data visualisation. In her multidisciplinary work, she translates data into engaging visual narratives to make complex political, economic and geographical data accessible to the public.





Visualising ethical frameworks and policy documents in digital spaces

Joanna Sleigh and Manuel Schneider, bioethics researchers, ETH Zürich, Swiss Federal Institute of Technology Zürich (Switzerland)

In contrast to the interactive content that is becoming the norm for information dissemination, more traditional policy documents and guidelines run the risk of being overlooked. Learn how to transform them into interactive visualisations

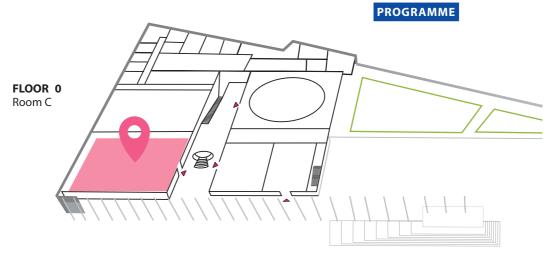
Joanna Sleigh is a visual and media anthropologist currently working at the Health Ethics and Policy Lab, ETH Zürich. Joanna has international experience in the academic, communication and creative sectors. In September, Joanna will embark on a PhD at the Health Ethics and Policy Lab, ETH Zürich.

Manuel Schneider holds a Master of Science in theoretical physics and is currently a PhD candidate at the Health Ethics and Policy Lab, ETH Zürich. Manuel also established and leads a start-up company that applies machine learning to automated decision-making.











European Union elections: the case for a harmonised treatment of European election data

Arnold Platon, freelancer in infrastructure design (Romania)

European Union elections are still being disputed at national level and on national topics of interest. This session will look into harmonising the existing heterogeneous election data across European Union Member States to allow a unified visual representation at European Union level, compare results and open a truly pan-European Union debate.

Arnold Platon is an architecture graduate who currently works in 3D infrastructure design. He does various side-projects as a data visualisation freelancer, his latest being a detailed, municipality-level mapping of the 2019 European Elections with the German publication.



European Union trade summary for cabinet briefings

Lorenzo Isella, statistician, Directorate-General for Trade of the European Commission (European Union)

Policymakers need to have access to clear statistics to quickly grasp the fundamentals of a topic. Despite its apparent simplicity, this example from the Directorate-General for Trade uses a combination of sophisticated processing tools.

Lorenzo Isella is trained as a statistical physicist. He has worked in different fields where statistics and data played a prominent role. In recent years, he has been working as a statistician/data scientist within the European Commission and he is now part of the Chief Economist Unit at the Directorate-General for Trade.





Thematic Session 2 Discovering statistics

Learn creative techniques to present statistics in an insightful manner.

Moderator: Martina Hahn | Eurostat (European Union)

ROOM E



Building digital dashboards for fully personalised data experiences

Annika Brauer, head of the data technology department, Statistics Estonia (Estonia)

The game-changing digital statistics dashboards at Statistics Estonia provide an innovative experience for the government and public authorities to support their decision-making.

Annika Brauer is the head of the data technology department at Statistics Estonia. She supervises the planning and execution of all technology-related development projects, both core statistical production systems as well as client-side applications, which involve an innovative approach for data sharing.





Visualisation of experimental statistical data from administrative registers in Poland

Wiesława Gierańczyk, director, and Leszek Kozlowski, head of department, Statistics Poland (Poland)

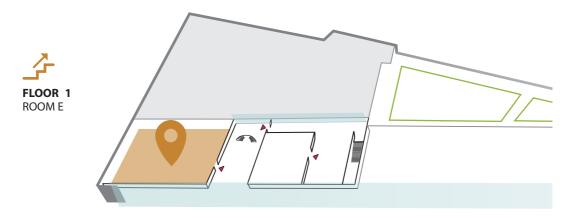
As official statistics move away from traditional sources of data, Statistics Poland shares its experience in visualising experimental data acquired from administrative sources.

Wiesława Gierańczyk is director of the Statistical Office in Bydgoszcz. She has (co-)authored many reference studies and reviewed academic papers for national and international journals. Her main interest areas include innovation, the geography of industry and regional development.

Leszek Kozlowski manages the work of the Centre for Labour Market Surveys and Analyses at the Statistical Office in Bydgoszcz. He has a scientific background in the field of socioeconomic geography and spatial management









Using visualisation to monitor and explore European market infrastructure regulation data on derivatives

Louis de Charsonville, data scientist, European Central Bank (European Union)

Learn how the European Central Bank has managed to visualise large amounts of financial data, taking into account the complex interdependencies, for efficient monitoring and exploration.

Louis de Charsonville is a data scientist at the European Central Bank where he develops new algorithms and dashboards to derive insights from the European market infrastructure regulation huge granular micro dataset. Previously, he was an economist in the inflation forecasting unit at Banque de France.



Six recipes for solving common operational challenges with data analytics

Oliver Wise, director at the Socrata Data Academy, Tyler Technologies (United States)

Government employees invest a lot of time in thinking about how to make data more accessible and useful to both internal and external stakeholders. However, how do you translate that data into insights that address important challenges facing your organisation?

Oliver Wise, in his role as Director of Socrata Data Academy, helps government leaders, programme managers and data analysts understand how to leverage data for better public policy outcomes. Oliver's work has been recognised with awards from Harvard University, the American Society of Public Administration, the International City Managers Association and Government Technology magazine.

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Thematic Session 3 Exploring geospatial data

How to visualise geospatial information and create meaningful maps.

Moderator: Hannes Reuter | Eurostat (European Union)

ROOM B



Exploratory visualisation and interactive analysis of big geospatial data

Pierre Soille, project leader, Joint Research Centre of the European Commission (European Union)

The visualisation and timely analysis of big data streams is becoming a major challenge. In this context, static visualisations are no longer suitable. This calls for dynamic and exploratory services where the user can explore, combine and visualise selected datasets.

Pierre Soille is leading the Big Data Analytics project at the Joint Research Centre of the European Commission (Ispra, Italy). He is also responsible for the JRC Big Data Platform (JEODPP), a versatile multi-petabyte-scale platform for the extraction of policy-relevant indicators from big data sources with a focus on geospatial data. This platform promotes collaborative data science through webenabled exploratory visualisation and interactive analysis.







The European Data Portal and the visualisation of geoinformation and real-time data

Antje Kügeler, project manager, con terra (Germany), Simon Jirka, project manager and community lead, 52°North (Germany) and Eline Lincklaen Arriëns, consultant, Capgemini Invent (the Netherlands)

The visualisation of geoinformation is a very powerful means to explore and demonstrate causalities, whose use often remains limited to a community of experts. Gain a deeper understanding of the power of geoinformation.

Antje Kügeler leads con terra's support of the European Data Portal. She has an MSc in geography and has been working in the field of geoinformatics since 1998.

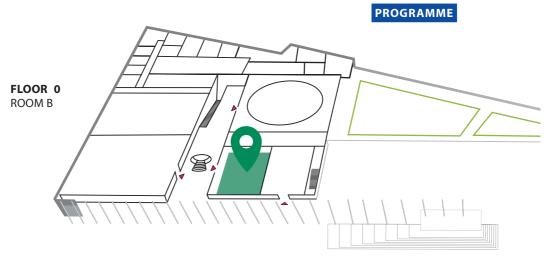
Simon Jirka works as project manager and sensor web community lead for 52°North. He has a PhD in geoinformatics from Westfälische Wilhelms-Universität Münster.

Eline Lincklaen Arriëns is a consultant at Capgemini Invent, working on communication activities for the European Data Portal. She has a master's in geography from King's College London.











Meaningful maps

Michael Neutze, expert, Destatis — the Federal Statistical Office of Germany (Germany)

This session aims at a better understanding of thematic maps: when, where and how to use them. We will discuss the toolchain required to build interactive maps on the web and showcase examples of what is possible with D3.js.

Michael Neutze has a degree in geography and has been with Destatis for 21 years, with experience in publishing, data visualisation, cartography and the census. He is known for the animated population pyramids, traffic accidents calendar and interactive maps using open web standards.



Geovisualisation of spatial statistical data

Anna Slawinska, GIS specialist, Statistics Poland (Poland)

The Statistics Poland geostatistics portal allows the visualisation of statistical data as well as more sophisticated geostatistical analyses.

Anna Slawinska has worked for Statistics Poland for 9 years. She is currently in the Geospatial Information Section responsible for managing spatial data in public statistics, development of a new platform for geovisualisation and spatial analysis of statistical data.





PROGRAMME



Thematic Session 4 Serving citizens

An exploration of how data visualisation can help increase citizens' understanding in different domains — from statistics to culture and art.

Moderator: Agnieszka Zając | Publications Office of the European Union

ROOM D



Making it easier for citizens to use, adapt and build upon data visualisations: lessons learned by EDJNet

Lorenzo Ferrari, editorial coordinator, European Data Journalism Network (Italy)

Learn about the strategies of the EDJNet to make it easier for media and the European public to fully understand data visualisations, adapt and customise the angle of a given visualisation and use it across different platforms.

Lorenzo Ferrari is editorial coordinator of the European Data Journalism Network, which is currently made up of 28 media outlets based in 14 Member States. He is head of the data team at Osservatorio Balcani e Caucaso Transeuropa. Lorenzo has a PhD in the history of European integration.



Using data visualisation to communicate statistics — Experiences from the United Kingdom

Martin Ralphs, head of the Government Statistical Service good practice team, Office for National Statistics (United Kingdom)

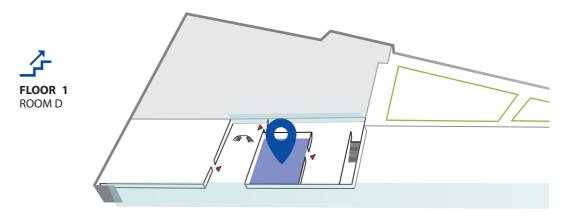
This talk will explore approaches taken in the United Kingdom's Government Statistical Service to visually present statistical information as well as options on how to tailor content for different users, from policymakers and expert consumers to the public.

Martin Ralphs has led the GSS Good Practice Team since autumn 2013 after spending 12 years working in statistical methodology for the Office for National Statistics and Statistics New Zealand. Martin also headed up the Spatial Analysis Centre in ONS Methodology.





PROGRAMME





Experience Leonardo da Vinci's Codex Atlanticus — A new approach in digital humanities

Matteo Bonera, creative director, The Visual Agency (Italy)

On the occasion of the 500-year anniversary of Leonardo da Vinci's death, The Visual Agency, together with Pinacoteca Ambrosiana in Milan, designed and developed an innovative data visualisation instrument to discover and explore da Vinci's greatest masterpieces in a novel way.

Matteo Bonera is creative director of The Visual Agency and Professor at Politecnico di Milano. His multidisciplinary background in visual, multimedia and information design enables him to push creative boundaries in complex and award-winning communication projects for the public and private sectors.

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How do design students perceive statistics?

Laima Grizaite, adviser at the statistics dissemination and communication division, Statistics Lithuania (Lithuania)

In this session, the audience will learn about an innovative way to reach out to new audiences and harvest their fresh perspectives on how visualisations could have a greater impact. Statistics Lithuania and the design faculty of Vilnius College of Technologies and Design have been organising workshops on infographics and will share the lessons they learned and the feedback they received from the audience (design students). They bring a completely new, interesting and unexpected view on statistics.

Laima Grizaite is an adviser in the statistical dissemination and communication division of Statistics Lithuania. Working for Statistics Lithuania since 2003 she is responsible for communication and visualisation projects and e-publications. Her background is journalism.









Thematic Session 5 Tools for data visualisation

Showcasing tools to create powerful data visualisations.

Moderator: Francisco Garcia Morán | Structural Reform Support Service of the European Commission (European Union)

CONFERENCE ROOM 2



Applications to publish graphics in newsrooms

Rafael Höhr, infographics editor, Prodigioso Volcán (Spain)

A global perspective on the evolution of graphics used to explain news and reports, showing how software, hardware and users influence the design of graphics and data visualisation for different purposes.

Rafael Höhr is an information graphics journalist, data visualisation specialist and partner at Prodigioso Volcán Design and Communication Agency. Since 1999, he has focused on interactive and multimedia graphic development in newspapers such as *El Mundo, El País* and the *Sunday Times*.



Interactive data visualisation using Shiny apps

Ariane Aumaitre, researcher, European University Institute in Florence (Italy)

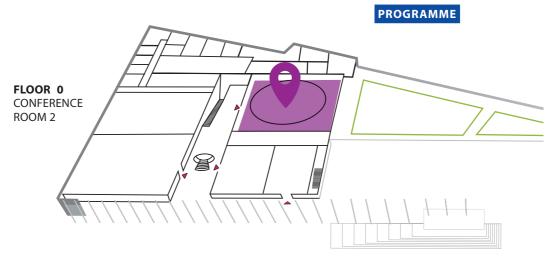
How to turn the challenges of managing large amounts of socioeconomic data into opportunities to engage users and consumers with the data that we are showing? Learn how to create innovative tools for dynamic and interactive data visualisation.

Ariane Aumaitre is a PhD researcher in the Department of Political and Social Sciences of the European University Institute in Florence. Her research focuses on welfare state sustainability and reform from an inter-generational perspective.











Data visualisation technology to improve data access and dissemination

Roberto Barcellan, head of unit, Directorate-General for Informatics of the European Commission (European Union)

Best practices from the European Commission to improve data processing, analysis, dissemination and transparency in the public administrations of the European Union and its Member States.

Following his PhD in statistics at the University of Padua, in 1999 **Roberto Barcellan** joined Eurostat, where he was responsible for national accounts, price statistics, research and methodology. In the Directorate-General for Informatics since 2015, he is in charge of data services.



R and SDMX visualisation

Assistant professor at the University of Ioannina (Greece)

While SDMX technology has been adopted by virtually all main providers of official statistics, it is rarely used by researchers and practitioners. This session will look into an easy and efficient way to work with SDMX data and datasets using R and tidyverse.

Athanassios Stavrakoudis (PhD in computational chemistry) has 25 years' experience in scientific data analysis and visualisation. Currently he is working with SDMX data storage, visualisation and reporting techniques, mainly with R.









Thematic Session 6 New ways to present reports

Several international and public administrations share their best practices in creating compelling visualisation to support monitoring, data exploration and decisionmaking.

Moderator: Lisa Burke | *Independent, creator of RTL Today*

ROOM C



Open data, open code, open knowledge: visualising development data at the World Bank

Tony Fujs, data scientist, World Bank (United States)

The World Bank will share practical methods of creating effective visualisations by presenting the 2018 atlas of sustainable development goals, the first fully reproducible visual report put together with open source tools.

Tony's goal is to shorten the path from data to insight by making data easier to find, access, combine and understand. As a data scientist at the World Bank Data Group, he leverages open source software to scale analytics, streamline reporting and improve data visualisations.



Beyond the PDF — Creating reports that are relevant to your audience

Adina Renner, information designer, Aalto University (Finland)

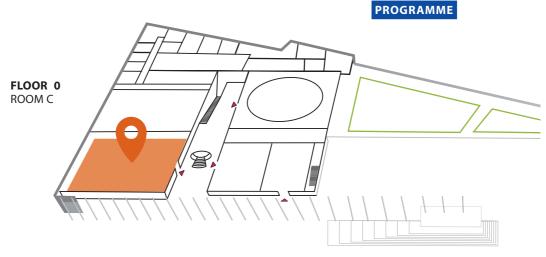
Focus on how data visualisation and data narratives can be used in different publication formats — from posters to interactive websites and social media — to make government reports more relevant and insightful.

Adina Renner is a student of information design at Aalto University in Helsinki, Finland. In her design practice, she combines visualisation, data, code and text to create connections between and among subject matters and people.











Discover how visual analytics helps the European Investment Fund deliver insights into public funding

Steve Albrecht, business development and tableau consultant, The Information Lab (Luxembourg)

The European Investment Fund collaborated with The Information Lab to produce an interactive map that visualises investments across the European Union. From project design to technical realisation, learn how this project has helped the European Investment Fund become a data-driven organisation.

Steve Albrecht is co-founder and managing partner of The Information Lab and senior consultant in business intelligence and visual analytics. He is curious and passionate about new innovative technologies. He has an engineering degree in automation and an MBA in marketing.



How an annual report became an innovative magazine with infographics and visualised data

Suzan Fiack, head of press and public relations, German Federal Institute for Risk Assessment (Germany)

Learn about this innovative initiative in the public sector: the official annual report was improved in order to better inform the public and political decision-makers.

Suzan Fiack has been head of press and public relations at the German Federal Institute for Risk Assessment since 2009. She leads the press and public relations activities of the scientific institution, and also supports the development of appropriate good practices and guidelines in risk communications.









Thematic Session 7 Designing beautiful data visualisation

A guided tour of visual aesthetics, narratives and best practices for producing stunning data visualisations.

Moderator: Tuuli-Maria Mattila | Publications Office of the European Union

CONFERENCE ROOM 2



Visualisation aesthetics: a practical approach for better-looking charts

Jovan Leković, independent data visualisation practitioner, The Synthesis Bureau (United Kingdom)

The aim of the session is to offer participants a mental toolkit of approaches to aesthetics that they can apply in their day-to-day chart-making process.

Jovan Leković is an independent data visualisation practitioner with a specific interest in visualisation as a form of communication. Prior to that Jovan was the data visualisation lead for the BBC's Audiences team, developing the in-house style guide, training the department on visualisation techniques and building internal flagship dashboards.



Using data art for science communication

Kirell Benzi, creative data scientist, ekino (France)

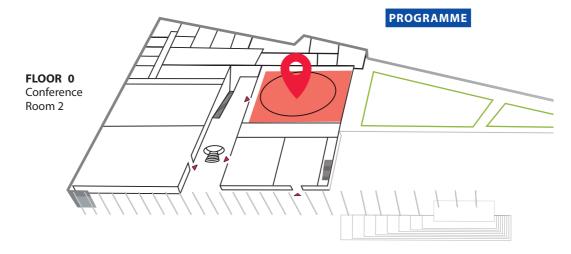
Reveal the potential of data art for science communication and approach topics such as big data, artificial intelligence and the general data protection regulation from another angle. Learn how science can rhyme with beauty and how art can be fun to look at.

Kirell Benzi is a data artist. He holds a PhD in data science from EFPL (École polytechnique fédérale de Lausanne). Kirell's creations can be articulated and deciphered by using mathematical tools and methods which come straight from scientific research. Through a hypnotic visual semantic, Kirell works to show that algorithms have a soul.











Visual narratives to connect: data visualisation for and with people

Federica Fragapane, information designer (Italy)

This talk will focus on the concept of using data visualisation not only as a tool to communicate with people but also to give a voice to those who do not have a platform.

Federica Fragapane is a freelance Information and visual designer. Her data visualisation projects have been published in *Scientific American, BBC Science Focus* and *Wired US* and she designed figures and charts for the United Nations Environment Programme. She is co-author of the infographics children's book *Planet Earth*, published by National Geographic Kids and White Star and author of *The Stories Behind a Line* a visual narrative of six asylum seekers' journeys.





Best practices in information design

Birger Morgenstjerne, partner and managing director, and Jeppe Morgenstjerne, partner and creative director, at Ferdio (Denmark)

'Having worked in the field of information design for many years, we've failed and we've succeeded. But most importantly, we've learned' says Birger Morgenstjerne.

Birger Morgenstjerne is working in the field of dataviz and infographics as partner and consultant of the Copenhagen-based agency Ferdio. This includes some of the biggest projects and clients in Scandinavia being in charge of consultancy, research, conceptualisation, copywriting, etc.

Jeppe Morgenstjerne is partner and head of design in the Danish infographic and data visualisation agency Ferdio. His multidisciplinary role includes everything from art direction, conceptualisation to design.





PROGRAMME



Thematic Session 8 Building smart cities

A journey through smart cities all over the world..

Moderator: Esther Huyer | Capgemini Invent (the Netherlands)

ROOM B





Sharing vision through cutting-edge visualisation in Japan

Kentaro Akahoshi, director of the urban visualisation coordination office, and Reo lijima, urban structure visualisation officer, Cabinet Office of Japan

This session will highlight how urban data is visualised and shared in Japan to understand and unlock new insights into the phenomena arising from urban structure.

Kentaro Akahoshi of the Cabinet Office of Japan leads efforts to develop an information infrastructure enabling data-sharing between staff and stakeholders from different municipalities in Japan. In his work to deepen the understanding of phenomena arising from urban structure, Dr Akahoshi has facilitated skills-building events for public workers in Japan and engages in knowledgesharing activities between experts in Japan and abroad.

Reo lijima of the urban structure visualisation promotion organisation facilitates international connections between data visualisation experts. Recently, he has participated in work to share knowledge and approaches between European and Japanese data visualisation experts.





CityVis: urban data visualisation

Sebastian Meier, lead data scientist, and Victoria Boeck, open data researcher, Technologiestiftung Berlin (Germany)

Explore the ways in which data visualisation can be used to actively understand, shape and influence a city, particularly from the perspective of how both the process and the result can focus on the people involved.

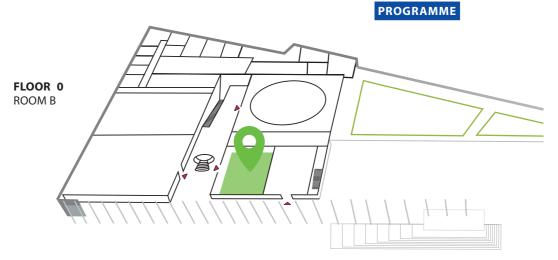
Sebastian Meier is the lead data scientist at the Technologiestiftung Berlin and the scientific director of the CityLAB Berlin. He graduated in communication interface design and completed his PhD in geoinformatics at Potsdam University. His research focus lies on spatial data analytics and visualisation as well as human-centred perspectives on software interfaces.

Victoria Boeck is an open data researcher at the Technologiestiftung Berlin. There she leads the 'Open Data Informationsstelle' (ODIS), which aims to encourage more open data publishing among government employees. Part of these activities include coming up with ideas of how to make open data more accessible and useful through visualisations and other applications of the data.











The power of flying flags: visualisations for transparent European Union structural investments

John Walsh, team leader, Directorate-General for Regional and Urban Policy of the European Commission (European Union)

A demonstration of how visuals can help to clearly present even complex funding instruments and track investment achievements.

John Walsh is a team leader in the Evaluation and European Semester unit of the Directorate General for Regional and Urban Policy of the European Commission. In this function he works on ESIF open data and the monitoring and evaluation of the 2014-2020 European Structural and Investment Funds' programmes. He has a wide experience in issues linked to coordinating the implementation of the Structural Funds.





DataViz: an inescapable tool for the development of 'smart cities'

Milan Kabáč, data engineer, and Mickaël Marchese, data analysist, Kereon Intelligence (France)

Why is data visualisation indispensable to fully give meaning to and take advantage of the data generated by connected cities? Be part of a live demonstration based on real data from a smart city.

Milan Kabáč is a data engineer at Kereon Intelligence, where he works on research and development projects in the context of big data and the internet of things. He has a solid professional experience acquired in the context of university/industry collaborative projects focused on innovative technologies such as Intel and Sigfox as well as research labs at Inria and Imperial College London.

Mickaël Marchese is a data analyst at Kereon Intelligence with a profound passion for data visualisation. His objective is to turn figures into beautiful and meaningful visualisations because he believes this is the best way to make data reveal their true potential.





PROGRAMME



Thematic Session 9 Telling stories with data visualisation

Approaches for data storytelling of public administrations and data journalism.

Moderator: Nataliya Rozbroj Jasinskaja | Publications Office of the European Union

ROOM E



Data storytelling for public administrations

Matteo Moretti, information experience designer and co-founder of Sheldon.studio (Italy)

The session will focus on a particular case study based on a new data-storytelling-oriented paradigm intended to turn the online publication of data into a more engaging and immersive experience.

Matteo Moretti is a designer and research fellow at the Faculty of Design of the Free University of Bozen-Bolzano, and is one of the 100 ambassadors of Italian design in the world, named by the Italian Ministry of Foreign Affairs. He was a Jury member for the World Press Photo Contest 2017-2018. His projects have been awarded the Data Journalism Award and the European Design Award.



Explore, visualise and tell: journalistic secrets to craft a precise story with data

Hassel Fallas, senior lecturer at the University of Guadalajara (México) and data editor at DataCounts

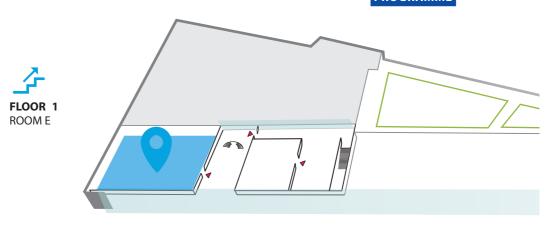
A step-by-step tour to create a precise, revealing and attractive narrative with data — from prioritising the integrity and quality of data to extracting significant conclusions from data.

Hassel Fallas is a journalist and lecturer. She is dedicated to digital project management based on investigative journalism, database analysis and visualisation. She helps journalists and citizens in Latin America to extract valuable information from numbers and turn this into public interest reports.











What do Brazilian voters search for in presidency candidates?

Carol Cavaleiro, assistant art editor, O Globo newspaper (Brazil)

Learn from this case study on 21stcentury politics and the rise of social media: the Brazilian elections and the work developed to understand the massive volume of data related to this theme.

Carol Cavaleiro is a visual journalist with 10 years of experience. As a deputy art editor at *O Globo*, a newspaper which is part of the largest media conglomerate in Brazil, Carol is responsible for the infographics department, leads a multidisciplinary team and edits the daily visual content. She also works at Aos Fatos, Brazil's first multi-platform fact checking agency, as a consultant and UX. She organizes an annual event in Rio de Janeiro that gathers Brazilian professionals to talk about visual journalism.



To Murder in Mexico: Impunity Guaranteed

Yosune Chamizo Alberro, information designer, Animal Político (Mexico)

Using visuals, Animal Político, a project that has won prizes for exceptional rule-of-law journalism, reports on important rule-of-law issues and contributes to making society better.

Yosune Chamizo Alberro is the information designer at *Animal Político*, an independent and digital news outlet in Mexico City. She has been part of projects such as: *To Murder in Mexico: Impunity Guaranteed; The Master Scam: graduated in disappearing public money; The Ghost Companies of Veracruz* and *NarcoData: In-depth digital analysis of the organised crime in Mexico*, among others.

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Thematic Session 10 Emerging technologies

Going beyond state of the art — the future of data visualisation.

Moderator: Darren McGarry | Joint Research Centre of the European Commission (European Union)

ROOM D



Visualisation and machine learning: the right mix to reach trustworthy artificial intelligence?

Benoît Otjacques, head of unit, Luxembourg
Institute of Science and Technology (Luxembourg)

This session will highlight how beneficial it may be to combine visualisation and artificial intelligence to solve problems within their respective fields and in many application domains.

Benoît Otjacques holds a PhD related to data visualisation and has more than 15 years of experience in the field. He is leading a team of around 30 data scientists at the Luxembourg Institute of Science and Technology (LIST) aiming to contribute to the digital and ecological transition. In his career, he has been mainly active in bridging the gap between research in data visualisation and applications in business and industry.





Data visualisation tools at the European Environment Agency

Fernanda Néry, data management expert, and Sébastien Petit, geoinformation systems expert, European Environment Agency (European Union)

This session will present the best practices and experiences with data visualisation tools at the European Environment Agency to better plan future developments and gain insight into how to overcome existing limitations.

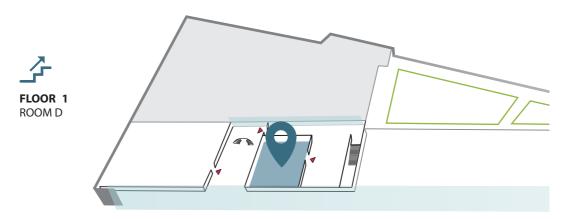
Fernanda Néry is a data management expert at the European Environment Agency (EEA), where she has worked since 2014 in the development of tools and processes for the collection, quality control, statistical analysis and publication of environmental data, with a special focus on water quality and water resources management.

Sébastien Petit is a geoinformation systems expert at the European Environment Agency (EEA), where he has worked since 2007 in the development of tools and services for the dissemination of spatial data. His focus is mainly on webservices, webmaps and webapplications.











Accessibility in data visualisation

Davide Vernassa, front-end developer, Knowage — Engineering Ingegneria Informatica (Italy)

Accessibility for visually impaired people is not really a trending topic in data visualisation. Knowage is among the first business intelligence tools that took on the challenge of making data truly available for everyone.

Davide Vernassa graduated in cinema and communication media engineering. Davide spent the first years of his career working closely with major accessibility mentors. Since 2011 he has been UI designer and senior front-end developer within Knowage Labs: he is in charge of the whole Knowage suite front-end and accessibility features. He contributed to the P4AII project, developing new accessible BI features and arranging various dissemination activities.



Before and beyond data visualisation

Anoop Variyan Kandiyil, founder and managing director, PublicBI UG (Germany)

What are some of the free data visualisation tools and cloud services that can be used by the public sector, especially when dealing with open data?

Anoop Variyan Kandiyil is a business intelligence professional with over 13 years of experience in building data warehousing and business intelligence solutions for various companies across the globe. He is passionate about data, business intelligence solutions and data visualisations. He is the founder and managing director of PublicBI, which won the 2nd prize at EU Datathon 2018. His mission is to improve lives with business intelligence.







16:00 - 18:00

PLENARY SPEECHES

Moderator: Lisa Burke — Independent, creator of RTL Today

ROOM C ROOM B (listening)



Visualising data for exploration and explanation — and everything in between

Benjamin Wiederkehr, managing director and founding partner, Interactive Things (Switzerland)

Finding the right place on the spectrum between explanatory and exploratory is a key milestone when building a data publication. Illustrated by two case studies, this talk will present the processes behind the data strategy and data design that lead to very different results.

Benjamin Wiederkehr is an interaction designer, co-founder and managing director of Interactive Things, a design and technology studio specialised in data visualisation and user experience design. He also lectures on the same topics at Zürich University of the Arts and University of the Arts Bern.



The art of spatial data storytelling

Juan Arévalo Torres, chief executive officer, Randbee Consultants (Spain)

How to create spatial data visualisation tools that are easy to use, beautiful, capture attention and inspire actions. This presentation will be a source of inspiration for everyone.

Juan Arévalo Torres is an entrepreneur working in the field of spatial data science and visualisation. His latest projects include the Urban Data Platform, several renewable energy decision-support tools in western Africa, a multilingual storytelling tool for IOC-UNESCO and a forest fire mapping project using Copernicus data.



Making the invisible visible

Caroline Goulard, chief executive officer, Dataveyes (France)

In the case of data visualisation, 'making the invisible visible' has a special meaning. It is less about improving our sight and more about enhancing our perception of the world and our understanding of the phenomena around us.

Caroline Goulard is the co-founder of Dataveyes, a studio specialised in human—data interactions. Within Dataveyes, she translates data into interactive experiences, in order to reveal new insightful stories, accompany new uses and understand our environment shaped by data and algorithms.





PROGRAMME



Visualising the cosmos: from the tiniest scales to the massive black holes

Barthélémy von Haller, senior software engineer, and Jeremi Niedziela, researcher, CERN (Switzerland) and Oliver James, chief scientist, DNEG (United Kingdom)

Subatomic particles make up everything that we observe in the universe and yet they are far too tiny to see. CERN will show how they handle and visualise the million gigabytes of data that scientific experiments record ever.



DNEG will speak about the challenges of visualising the complex physics of the universe's most massive objects (black holes and gravitational waves) and how they approached the visual effects for the Hollywood movie *Interstellar*, as well as their collaboration with the Nobel laureate in physics Kip Thorne to develop a new tool to visualise space.

Barthélémy von Haller is a senior software engineer at CERN. He works for the data acquisition group of the ALICE experiment at the large hadron collider (LHC), where he is responsible for the design and development of the tools to monitor the data quality.



Jeremi Niedziela is a researcher in CMS experiments at LHC, working on the fundamental problems of modern physics. His current focus is searching for short, disappearing tracks, a possible signature of supersymmetric particles that live very briefly before decaying into dark matter particles, as well as light-by-light scattering — an elusive but fundamental quantum mechanical process.

Oliver James is chief scientist at DNEG, with over 20 years of experience in the visual effects industry. He led the development of the DNEG gravitational renderer, which enabled the creation of the Oscarand BAFTA-winning visual effects for Christopher Nolan's *Interstellar*.



Closing speech

Paul Hofheinz, president and co-founder of the Lisbon Council (Belgium)

Paul Hofheinz is president and co-founder of the Lisbon Council, an independent think tank and research centre founded in 2003 in Brussels, Belgium. In 2017, he led a strategic work programme for the Government of Estonia, collaborating with Europe's leading digital administration on digital government and strengthening Europe's footprint in the data economy.

Mr. Hofheinz worked as a writer and editor at *The Wall Street Journal*, covering such diverse topics as European integration, financial-market regulation, emerging markets and Russia.





Stands

Stand 01 — Publications Office of the European Union

Producing data visualisations for the European Union institutions: from paper to virtual reality

The Publications Office of the European Union is actively involved in creating new data visualisations to better communicate with European Union citizens.

Pál Jancsók, head of sector at the Publications Office of the European Union

Stand 02 — European Data Portal

European Data Portal

The European Data Portal harvests the metadata of public sector information available on public data portals across European countries. Information regarding the provision of data and the benefits of re-using data is also included.

Marit Blank, consultant and Gianfranco Cecconi, European Data Portal and Support Centre for Data Sharing lead at Capgemini Invent (the Netherlands).

Stand 03 — Directorate-General for Research and Innovation of the European Commission

Horizon Dashboard — the European Union research and innovation funding programme data at your fingertips

Access real-time data and explore European Union research and innovation funding programmes with the Horizon Dashboard, the intuitive, flexible and interactive platform developed by the Directorate-General for Research and Innovation of the European Commission.

Pavel Zbornik, intelligence analyst, common data and knowledge management service, Directorate-General for Research and Innovation of the European Commission

Stand 04 — Organisation for Economic Cooperation and Development (OECD)

States of fragility: visualising the OECD's fragility framework

Fragility poses a major global threat to sustainable development and peace. The 'States of Fragility' platform showcases, in a visually accessible and intuitive way, the OECD-curated data used to address this complex and multidimensional phenomenon.

Kathleen Forichon, junior policy analyst, and Erik Forsberg, intern, OECD





SDG Pathfinder: a digital tool to discover key policy content related to the sustainable development goals

Get quick access to content related to the sustainable development goals (SDGs) with the SDG Pathfinder, an open digital discovery tool, powered by the OECD.

Ludivine Baudouin, digital innovation coordinator and statistical editor, OECD

Stand 05 — Prometeia

VizMyCity

Discover the brand-new VizMyCity tool, which aims to support local authorities in communicating with citizens, while being user-friendly and flexible so that citizens can extract the information they need.

Livia Simongini, manager, and Giacomo Cotignano, economist, Prometeia (Italy)

Stand 06 — Italian National Institute of Statistics

'Show, don't tell!' Storyshowing for beautiful numbers

Watch entertaining — but scientifically rigorous — 'statistical videos', developed using 'storyshowing' as a communication product aimed at disseminating knowledge in a pop way.

Daria Squillante, researcher, Italian National Institute of Statistics — ISTAT (Italy)

Stand 07 — VIZU ALL

How digital damaged data visualisation

VIZU ALL is advocating for the democratisation of data visualisation, and will showcase FastBrick, which it developed to provide an accessible tailored DataViz-making-tool to the layperson with no coding experience

Damien Bouquet, chief executive officer, VIZU ALL (France)







Stand 08 — General Commission for Territorial Equality

The DataViz tool and its uses in the CGET: combining territorial and urban observation at national and local scales

See how this DataViz tool is supporting the government to fight against territorial inequalities and to develop and implement public policies adapted to local specificities, as well as monitoring and communicating results.

Constance Lecomte, data analyst, Mélodie Martin, cartographer, and Helga Mondesir, assistant chief of the department, General Commission for Territorial Equality (France)

Stand 09 — Knowage

DataViz and data analysis with Knowage

Discover Knowage, an open source suite for modern business analytics, with a special focus on big data analytics and comprehensive support to rich and multi-source data analysis.

Marco Cortella, solution designer, Knowage — Engineering Ingegneria Informatica (Italy)

Stand 10 — Directorate-General for Informatics of the **European Commission**

ISA² Programme, interoperability solutions for public administrations, businesses and citizens

The ISA² programme stand will show how interoperability solutions can help public administrations, businesses and citizens exchange data in a secure and efficient way, thus enabling better digital public services cross border and cross sector. Additionally, it will allow participants to learn more about the European Interoperability Framework (EIF) the roadmap to digitalise public administrations in Europe.

Dr Jezabel Martinez Fabregas, senior communications strategist, Directorate-General for Informatics of the European Commission

Stand 11 — **Datawrapper**

When to use charting tools

An overview of where data publication benefits and where it is better to work with data manually.

Mirko Lorenz, co-chief executive officer and co-founder at Datawrapper (Germany)

Stand 12 — **Joint Research Centre** of the European Commission

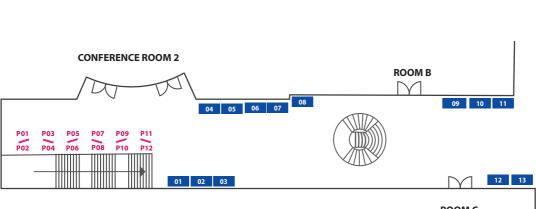
Visualising transport innovation: exploring different approaches

Explore how various visualisations can be used for analysing technology trends and for communicating complex data in a concise, structured way — with examples based on the Transport Research Innovation Monitoring and Information System (Trimis).

Valentina Alberti, researcher and graphic designer, Joint Research Centre of the European Commission







ROOM C

Visualising composite indicators

Discover the Joint Research Centre's interactive online tools allowing data exploration and construction of stories based on the composite indicators used to measure complex phenomena.

Konstantinos Gkoumas, programme officer, and Mitchell van Balen, programme officer, Joint Research Centre of the European Commission

Stand 13 — University Colleges Leuven-Limburg

Data lifecycle: from raw data to interactive visualisation

Remove the need to create visualisations in JavaScript by generating interactive visualisations in webpages with the use of Elixir and R or Python.

Danny Volkaerts, data analytics teacher, Wannes Fransen, applied information technology, University Colleges Leuven-Limburg (Belgium)

Stand 14 — Flavia IT-Management

Augmenting human intelligence with collaborative data analysis in virtual reality

Virtual reality could enable completely new ways of participating in social processes, paving the way for a networked and open society in which all citizens can take part in the complex decision-making process.

Martin Schäfer, technical director, Flavia IT-Management (Germany)







Stand 15 — **Bestiario Proyectos** and United **Nations University World Institute** for Development **Economics Research**

Government revenue dataset explorer: an interactive data visualisation tool for an open dataset of the UN University

Create a customised data visualisation using the GRD Explorer tool, which renders the cross-country Government Revenue Dataset (GDR) more accessible and appealing to a range of users. The tool is the joint creation of UNU-WIDER and Bestiario.

Daniele Pezzatini, tech lead and project manager, Bestiario Proyectos (Italy) and Antti Pelanteri, Economics database administrator, United Nations University World Institute for Development Economics Research (UNU-WIDER) (Finland)

Stand 16 — **Ferdio**

DataViz project: the most comprehensive archive of data visualisations

Find the right visualisation, and get inspired about how to do it, with the help of 'DataViz project', which showcases all relevant and popular data visualisations. Discover it for the first time also in a printed version.

Birger Morgenstjerne, partner and managing director, Ferdio (Denmark)

Stand 17 — **Flourish**

Beautiful, interactive data storytelling with Flourish

The stand will show run rolling demonstrations of the Flourish data storytelling platform. Richard South is responsible for taking Flourish to new customers. He has a number of tech start-up successes behind him, most recently as the first employee and vice-president of sales and marketing for Squared Up, a visualisation tool for enterprise IT.

Richard South, head of business development at Flourish (United Kingdom)

Stand 18 — Eurostat

Eurostat's activities in data visualisation

Visit the Eurostat stand and get familiar with European statistics and digital publications. Test the Eurostat visualisations, mobile apps and extraction tools. Play the Eurostat virtual reality game based on European statistics.

Henric Anselm, policy senior assistant at Eurostat (European Union)







Exhibition posters

Poster 01 — Infographics in Hungarian National and the public Assembly

Infographics in the Hungarian National Assembly for MPs and the public

Even non-professional can develop their visual abilities and create an infographic, according to our contributors. Gain practical information about how to start making infographics and develop your knowledge in data visualisation, from initial development steps to usage data.

Tünde Simsa, researcher, and Dr Dániel Samu Nagy, researcher, Hungarian National Assembly (Hungary)

Poster 02 — SIRIS Academic

The Toscana Open Research portal: informing citizens and enhancing the research and innovation system in Tuscany

Get inspired by the ambitious Toscana Open Research portal, used by the regional public authority and integrating interactive data visualisation to communicate and valorise its research and innovation system for citizens and stakeholders.

Xavier Gimenez Baqués, data analyst, SIRIS Academic, and Annamaria Donnarumma, consultant, SIRIS Academic (Italy)

Poster 03 — European Investment Bank

European Investment Bank water sector lending by geographical area, 2014-2019

Through this real-life example, learn how the European Investment Bank, the world's largest multilateral water sector lender, uses infographics for communication purposes in the public sector.

André Oosterman, senior economist, European Investment Bank (European Union)

Poster 04 — Swiss Federal Office for Agriculture

Visualising the food value chain

See how you can increase market understanding and transparency in a specific market sector, with the help of infographics presenting the entire value-added chain — as applied to the Swiss food market.

Conradin Bolliger, head of unit, Cornel Herrmann, deputy of unit, Swiss Federal Office for Agriculture — Market Analysing Unit (Switzerland)







Poster 05 — **Tuscia University** and Statistics **Netherlands**

Communicating uncertainty in key official statistic

Official economic statistics are inevitably uncertain due to sampling and non-sampling errors, whereas there is a common tendency of policy analysts to project their implausible certitude. Get to know the Comunikos project at Eurostat, which shares different techniques for visualising uncertainty in official economic statistics and assesses their effectiveness in conveying meaningful information to the users.

Tiziana Laureti, professor of economics statistics, Tuscia University (Italy), and Edwin de Jonge, methodologist, Statistics Netherlands (the Netherlands)

Poster 06 — **Statistics Netherlands**

Making privacy project maps

Thematic maps are an important visualisation tool, displaying spatial patterns that are lurking in your data. Plotting interesting variables may reveal the values of individuals. Participate in this discussion which will address the privacy issues with plotting spatial data in thematic maps, as well as showing solutions to these issues introducing the R package 'sdcSpatial'.

Edwin de Jonge, methodologist and data scientist, Statistics *Netherlands (The Netherlands)*

Poster 07 — Amires s.r.o

AMIPLEXUS — H2020, FP7, Eurostars, Eureka visualisation platform

See how data visualisation can help bring together people to start projects together — AMIPLEXUS users are able to identify potential consortia partners for European Union funded projects.

John Kennedy Mwangi, data analyst, Amires s.r.o (Czech Republic)

Poster 08 — **University of** Ljubljana

European Investment Bank water sector lending by geographical area, 2014 - 2019

Colour can be a powerful tool in data visualisation for differentiating among categories, but surprisingly it may also communicate unintended messages. Official statistics present data by gender in all sorts of fields, and our expert will show what colours these visualisations use to represent gender.

Mojca Bavdaž, associate professor, and Jerneja Kos, research assistant, at University of Liubliana, School of Economics and Business (Slovenia)

Poster 09 — **City of Vienna**

Wiener Melange — Who lives where in Vienna? Residential mix by place of birth

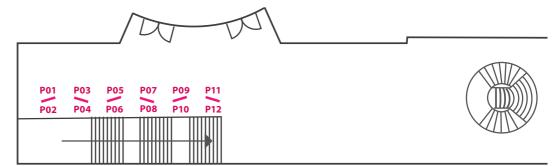
See an example of how public administrations can engage in public debates using data, data visualisation and storytelling — and discover an innovative approach to visualise spatial demographic data.

Franz Trautinger, head of communication, Ramon Bauer, deputy head of statistics Vienna, and Roman Seidl, data scientist, City of Vienna — Economic Affairs, Labour and Statistics (Austria)









Poster 10 — Eurostat

A quintile-based visualisation of income inequality

Discover a data visualisation project in the European Union institutions which has grown into a visual analytics tool — a novel way of comparing income distributions across time and geographical units.

Bogdan Micu, statistical officer, Eurostat (European Union)

Poster 11 — University of Osnabrück

Visualising the spread of infectious diseases using public health data

Explore how data visualisation techniques can bring added value to public health data for epidemiologists, data scientists and the public; a use case of public data for good and of increasing transparency between data-collecting institutions and individuals.

livera Stojanovic, research assistant and doctoral student, Institute of Cognitive Science, University of Osnabrück (Germany)

Poster 12 — University of Thessaly

Visual analysis of transboundary air pollution data in the European area

Different visualisation modules are used to reproduce the global pollution network and identify the biggest sources and sinks of pollution. Visual modelling helps us to understand the linkages and interconnections in the transboundary pollution network. Our interactive outputs give the options to bring out the crucial actions of the global source-receptor air pollution scheme and highlight the top emitters or receptors of pollution.

Kyriaki Tsilika, assistant professor, University of Thessaly (Greece)







Partners









































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Publications Office of the European Union

The Publications Office of the European Union is an interinstitutional office set up by European Union institutions in 1969 and entrusted with the task of publishing European Union law and publications. As a modern multilingual information provider, it offers state-of-the-art information management services to all European Union institutions, agencies and bodies, as well as to European Union citizens at large. Following its transition from the traditional model of paper-based publishing to a new paradigm of handling digital content, the Publications Office is now well placed to further develop its expertise in the key areas of European Union information management: access and reuse, production and long-term preservation.

In the area of access and reuse, the Publications Office ensures timely and easy access to European Union legal information and other types of European Union content available online, while continually striving to improve its discoverability. It is also a trusted provider of authentic data from European Union institutions, agencies and bodies. In line with the objectives of the digital single market strategy, the Publications Office fosters the reuse of European Union data and content, for both commercial and non-commercial purposes, using semantic web technologies and representing data with Linked Open Data standards.

In the framework of its production activities, the Publications Office publishes mandatory publications in all the official languages of the European Union, notably the authentic Official Journal of the European Union and case-law, as well as non-mandatory publications, in a variety of formats and via a range of different channels. In doing so it relies on automated production workflows, which enable innovative and dynamic ways of producing content optimised for multichannel dissemination, thus ensuring easy access to this content and facilitating its eventual reuse.

In the area of long-term preservation the Publications Office ensures the preservation of digital information and data from the European Union for future generations. Its preservation efforts cover all types of digital content, and are accompanied by the necessary solutions to ensure public access to all collections preserved digitally.

Finally, the Publications Office has also established itself as a recognised standardisation forum. It has taken a lead role in standardising metadata and formats for the exchange of information, in particular legal information, and it manages a number of information management tools that are used to this end by the European Union institutions, agencies and bodies and national and regional administrations in Europe, as well as national governments and private users around the world.



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