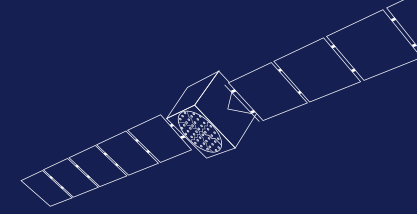


# GNSS

## MEETS FRIENDS IN NEW ORBITS – POTENTIALS AND SYNERGIES

Munich, March 20–22, 2024



# 3<sup>rd</sup> ANNOUNCEMENT



Space Night Sponsor

**AIRBUS**

Diamond Sponsor

**ThalesAlenia**  
a Thales / Leonardo company *Space*

Platinum Sponsor

**gmv**  
INNOVATING SOLUTIONS

Gold Sponsor

 **DLR** Gesellschaft für  
Raumfahrtanwendungen

**“GNSS MEETS FRIENDS IN NEW ORBITS – POTENTIALS AND SYNERGIES!”**, this will be the theme of the **2024** edition of the **Munich Satellite Navigation Summit**, taking place from **March 20–22, 2024!** The Summit will be held on site, as a hybrid conference.

Satellite navigation has historically been associated with Medium Earth orbits. However, the emergence of mega constellations operating in Low Earth orbits (LEO) is about to change this conventional understanding and brings new orbits into focus. Complementary navigation satellites in LEO are considered as being candidates for monitoring and improving GNSS signal integrity at the Earth’s surface. Communications and Earth observation satellites, which are closely linked to navigation, are also operated in LEO. While we see today a strong use of navigation services for orbit and time determination of such satellites, a further and closer convergence of navigation, communications and Earth observation systems is under discussion. Various synergies and potentials are expected. In addition to this conference theme, the program will encompass the following topics:

- First and Second Generation of the European Satellite Navigation System Galileo
- Status and Modernization of the US Global Positioning System (GPS) and of the Chinese BeiDou System
- Regional Systems of India (IRNSS), Japan (QZSS), and Korea (KPS)
- Synergies to Space Communications and Earth Observations
- Discovering the Low-Earth Orbit for PNT: LEO-PNT and Beyond
- Updates from the GNSS Receiver and Application Industry
- Legal Aspects of Satellite Navigation
- Commercial PNT and Challenges of the New Space Economy

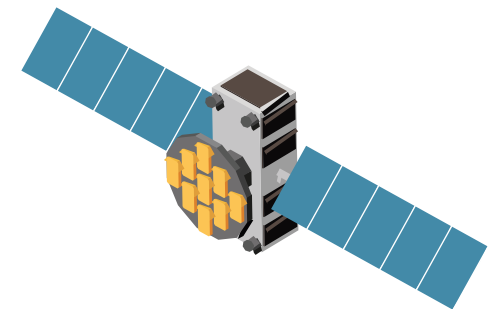
...and many more up-to-date topics on GNSS!

Make sure to check our website for the latest information: [www.munich-satellite-navigation-summit.org](http://www.munich-satellite-navigation-summit.org)

#### **ABOUT THE MUNICH SATELLITE NAVIGATION SUMMIT:**

The Munich Satellite Navigation Summit is a conference with global impact dealing with satellite navigation now and in the future. The one-of-a-kind convention of high-ranking worldwide speakers from industry, science and governments provides the participants with a broad overview and different perspectives on the latest developments in the field of GNSS. Meet at the reception in the Munich Residence, discuss upcoming projects at the Space Night and enjoy the closure of the Summit with a Bavarian networking event!

**The Summit is part of the efforts of the Bavarian government and the cluster on aerospace and satellite navigation to stimulate applications and services in this high-tech field.**



## DAY 1.

15:30–16:00 hrs

**Afternoon. OPENING** Wednesday, March 20, 2024

**OFFICIAL OPENING OF THE EXHIBITION AND CHAMPAGNE WELCOME**

16:00–18:30 hrs

### OPENING CEREMONY

This event takes place at the Alte Kongresshalle (Old Congress Hall), Am Bavariapark 14, 80339 München.

#### INTRODUCTION:

**Gregor Schmalzried**, Bayerischer Rundfunk (Bavarian Broadcasting), Munich, Germany

#### Welcome addresses:

**Thomas Pany**, Professor of Satellite Navigation, ISTA/FZ Space, University of the Bundeswehr Munich, Neubiberg, Germany

**Michael Meurer**, Professor, Head of Navigation Department, German Aerospace Center (DLR), Oberpfaffenhofen, Germany

**Eva-Maria Kern**, President, University of the Bundeswehr Munich, Neubiberg, Germany

**Stefan Schnorr**, State Secretary, Federal Ministry for Digital and Transport, Berlin, Germany

**Anke Pagels-Kerp**, Divisional Board Member for Space, DLR, Cologne, Germany

**Christoph Kautz**, Director for Satellite Navigation and Earth Observation, Directorate-General for Defence Industry and Space (DG DEFIS), Brussels, Belgium

**Rodrigo da Costa**, Executive Director, EU Agency for the Space Programme (EUSPA), Prague, Czech Republic

**Francisco-Javier Benedicto Ruiz**, Director of Navigation, ESA, Paris, France

#### Moderator:

**Claus Kruesken**, Presenter, Bayerischer Rundfunk (Bavarian Broadcasting), Munich, Germany

#### Panel Members:

**Christoph Kautz**, Director for Satellite Navigation and Earth Observation, DG DEFIS, Brussels, Belgium

**Rodrigo da Costa**, Executive Director, EUSPA, Prague, Czech Republic

**Francisco-Javier Benedicto Ruiz**, Director of Navigation, ESA, Paris, France

**Harold „Stormy“ Martin**, National Coordination Office for Space-Based PNT, Washington DC, USA

**Liu Bintao**, China Satellite Navigation Office, Beijing, China

**Anke Pagels-Kerp**, Divisional Board Member for Space, DLR, Cologne, Germany

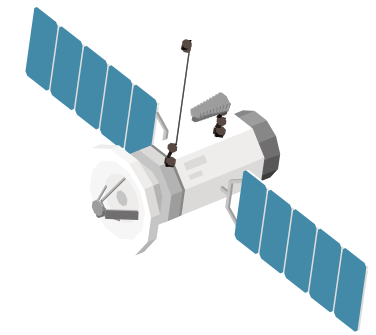
**Jean-Pierre Diris**, Interministerial Coordinator for GovSatCom and IRIS2, CNES, Paris, France

19:30 hrs

**STATE RECEPTION in the Kaisersaal of the RESIDENZ Munich** (formal wear, no sneakers, no T-Shirts, no Hoodies!):  
hosted by the Bavarian Ministry of Economic Affairs, Regional Development, and Energy  
(bus shuttle will be available)

#### Welcome Address:

**Tobias Gotthardt**, State Secretary



## DAY 2.

**Morning.** Thursday, March 21, 2024

9:00–10:30 hrs.

### Session 1. GNSS PROGRAM UPDATES – GLOBAL, REGIONAL AND AUGMENTATION SYSTEMS

Speakers from the respective organizations and countries present news from the worldwide global, regional and augmentation satellite navigation systems in operation and under development.

**Global:** GALILEO (EU), GPS (USA), BeiDou (China)

**Regional:** QZSS (Japan), IRNSS/NAVIC (India), KPS/KASS (Korea)

**Augmentation:** EGNOS (EU), WAAS (USA), MSAS (Japan), Gagan (India)

#### Chairman:

**John Wilde**, CEO, SPACEKEYS Gmbh, Vienna, Austria

#### Panel Members:

**Xavier Maufroid**, Head of Sector Galileo Implementation, Head of GNSS Joint Office, DG DEFIS, EC, Brussels, Belgium

**Sara Krauss**, Head of Engineering Department, EUSPA, Prague, Czech Republic

**Robert O. Wray**, Lt Col, Commander of the Second Space Operations Squadron, Space Force, USA

**Lu Jun**, China Satellite Navigation Office, Beijing, China

**Sharafat Gadimova**, Executive Secretariat of the International Committee on Global Satellite Navigation Systems (ICG), UN Office for Outer Space Affairs, Vienna, Austria

**Satoshi Hosoda**, CAO, Tokyo, Japan

**Vishwanath M. Tirlapur**, Satellite Navigation Program Office, ISRO, Bangalore, India

**Nayoung Youn**, Senior Researcher, Strategy and Planning Directorate, Korea Aerospace Research Institute, Daejeon, Republic of Korea

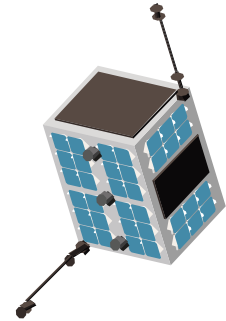
10:30–11:00 hrs

**REFRESHMENT BREAK**

11:00–12:30 hrs

### Session 2. DISCOVERING THE LOW-EARTH ORBIT FOR PNT: LEO-PNT AND BEYOND

The interest for complementary Positioning, Navigation and Timing (PNT) from Low Earth Orbit (LEO) has significantly increased in recent years following the emergence of international initiatives from private and public sector, relying on new industrial models and early availability of in-orbit results. The list of possible technical advantages is large, ranging from increased resilience to faster high-accuracy convergence, to simple low-energy solutions, and to integration with communication systems (such as provision of 5G/6G NTN localization compatible with communication protocols), to signal monitoring on-board, among several others. User communities aiming for increased performance (robustness, accuracy, availability, time-to-fix, ...) would benefit from such advantages in combination with existing solutions, including GNSS and inertial user equipment. Current international initiatives are incorporating PNT solutions in LEO with different services and use-cases in mind, in parallel to assess initial results and to develop sustainable system architectures and business cases. This session will aim to discover the present and future of PNT from LEO orbits.



**Chairman:**

**Roberto Prieto Cerdeira**, Head of the LEO-PNT Project, ESA-ESTEC, Noordwijk, The Netherlands

**Panel Members:**

**Zak Kassas**, Professor, Electrical & Computer Engineering, The Ohio State University, Columbus, OH, USA

**Patrick Shannon**, Founder and CEO, TrustPoint Inc., Herndon, VA, USA

**Francis Souallé**, Airbus Defence and Space GmbH, Taufkirchen (Munich), Germany

**Li Zhen**, Beihang University, Beijing, China

**Masaya Murata**, Japan Aerospace Exploration Agency (JAXA), Japan

**Trevor Landon**, Vice President, Satelles, Reston, VA, USA

12:30–13:30 hrs

**NETWORKING LUNCHEON**

**DAY 2.**

**Afternoon.**

13:30–14:55 hrs

**Session 3. FUTURE OF SATCOM AND SYNERGIES WITH PNT**

Satellite Communications is currently undergoing a significant transformation with new standards for 5G/6G non-terrestrial network access which is under development. Mega constellations in LEO promise global network connectivity, with ongoing developments for additional constellations with new features such as the European IRIS2 initiative. Optical link technologies, facilitating high data rates and features like quantum key distribution play a significant role. Currently, the synergetic usage of the SATCOM signals for PNT services as well as the joint usage of constellations and satellites for communications and PNT is under investigation. Additionally, there's consideration for leveraging optical intersatellite links to enhance PNT services. The panel will provide insights into these developments and will highlight potential synergies between SATCOM and PNT.

**Chairman:**

**Sandro Scalise**, Head of Satellite Networks Department, Institute of Communications and Navigation, German Aerospace Center (DLR), Oberpfaffenhofen, Germany

**Panel Members:**

**Sandro Scalise**

**José-A. del Peral Rosado**, Navigation Engineer, Airbus Defence and Space, Taufkirchen (Munich), Germany

**Gabriele Giorgi**, Group Lead GNSS Evolution, ICN, DLR, Oberpfaffenhofen, Germany

**Christian Hofmann**, Jun.-Professor, Institute of Information Technology, University of the Bundeswehr Munich, Neubiberg, Germany

**Vera Eklund**, System Engineer, Tesat-Spacecom, Backnang, Germany

**Stephan Roemer**, BD Manager SatCom & Navigation, OHB Group, Bremen, Germany

15:00–16:00 hrs

In parallel to session 4, there will be Workshop 1 at the Theresiensaal. Accessible only with your registration. Space is limited.

#### Session 4. USE OF PNT FOR EARTH OBSERVATION

There exist numerous synergies between Earth observation (EO) and navigation satellites in the upstream sector that will be covered by this session including a state-of-the-art overview on EO, the importance of a well-defined SSV and remote sensing of the Earth with navigation signals. The panel covers also synergies in the downstream sector of combined EO+NAV applications.

##### Chairman:

**Michael Schmitt**, Professor of Earth Observation, ISTA/FZ-SPACE, University of the Bundeswehr Munich, Neubiberg, Germany

##### Panel Members:

**Werner Enderle**, Professor, Head of the Navigation Support Office, ESA/ESOC, Darmstadt, Germany

**Rashmi Shah**, NASA/JPL, Pasadena, USA

**M. Mainul Hoque**, Head of Dept. for Space Weather Observation, Institute for Solar-Terrestrial Physics, DLR, Neustrelitz, Germany

**Geng Jianghu**, Professor, Wuhan University, Wuhan, China

**Reinhard Blasi**, Market Development Officer, EUSPA, Prague, Czech Republic

#### WORKSHOP 1:

#### SAFETY CRITICAL APPLICATIONS AND CERTIFICATION

Current satellite navigation systems are provided by governments, enabling a variety of institutional processes and consider standards, service guarantees or potential failure modes or required by the International Civil Aviation Organization (ICAO). Given recent interference challenges, LEO PNT systems are a welcome opportunity to move towards a more resilient, multi-system of systems PNT service. However, commercial providers of LEO PNT may hesitate to provide the same level of insight to enable safety critical applications

##### Chairman:

**Gerhard Berz**, Head of Navigation and Spectrum, EUROCONTROL, Brussels, Belgium

##### Panel Members:

**Gerhard Berz**

**Michael Hoppe**, German Federal Waterways and Shipping Agency (WSV), Koblenz, Germany

**Guillermo Fernández**, Receiver Standardisation Expert, ESSP SAS, Madrid, Spain

**Keerthi Narayana**, Airbus (EGNOS Ground Segment), Toulouse, France

**Jan Ackermann**, Director – Product Line Management, Spirent, Munich, Germany

**Brian Manning**, Co-Founder & CEO, Xona Space Systems, San Mateo, CA, USA

16:00–16:30 hrs

REFRESHMENT BREAK

16:30–17:55 hrs

### Session 5. OPERATIONS OF MEO-GNSS AND PNT SERVICES FROM LEO CONSTELLATIONS

Emerging applications pose several challenges to navigation such as high accuracy, resilient and robust service provision needs. In responding to these application demands, new navigation services such as Galileo HAS and OS-NMA are being introduced as well as augmentations of MEO-GNSS with space-based and terrestrial elements are being developed. In particular, supplementary PNT services, which are provided from orbits below the MEO-GNSS backbone, are currently under discussion with the ultimate aim of creating a multi-layered system imposing further new challenges. With the introduction of additional LEO constellations, new approaches for ensuring navigation services and underlying operations services are required. The panel will discuss the current and future approaches to constellation operations and service provision, the biggest challenges and ongoing developments towards new and innovative solutions.

#### Chairman:

**André Bauerhin**, Managing Director COO, spaceopal, Munich, Germany

#### Panel Members:

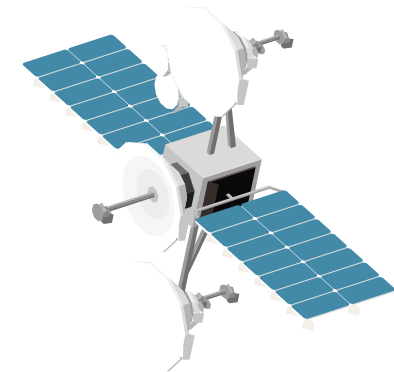
**Robert O.Wray**, Lt Col, Commander of the Second Space Operations Squadron, US Space Force, Colorado, USA

**Giuseppe Tomasicchio**, CTIO, Telespazio Spa, Rome, Italy

**Spencer Ziegler**, DLR Galileo Kompetenzzentrum, Wessling, Germany

**Victor Pozo Monsalve**, Director Navigation Systems Ground Control Segment, GMV, Madrid, Spain

**Brian Manning**, Co-Founder & CEO, Xona Space Systems, San Mateo, CA, USA



In parallel to the sessions 6 and 7, there will be Workshop II at the Theresiensaal. Accessible only with your registration. Space is limited.

18:00–19:30 hrs

### Session 6/7. LEGAL ASPECTS AND PNT POLICY IN AN AGE OF COMMERCIALIZATION

Whereas commercial use of PNT technology and PNT policies have always been paramount to the development of satellite navigation, the recent and rapid appearance of commercial system providers in LEO drastically changes the environment. Key questions arise about the market, regulatory and public procurement aspects for LEO PNT and also the question whether new national policies and standards can encourage growth and diversification of new navigation-based applications. What will be the appropriate coordination mechanisms for new and emerging stakeholders, whether government or commercial?

#### Chairmen:

**Ingo Baumann**, BHO Legal, Cologne, Germany

**Oliver Heinrich**, BHO Legal, Cologne, Germany

#### Panel Members:

**Vladislav Beregovskiy**, ITU BR, Geneva, Switzerland

**Rasmus Flytkjaer**, London Economics, London, UK

**Brian Manning**, Co-Founder & CEO, Xona Space Systems, San Mateo, CA, USA

**Nayoung Youn**, Senior Researcher, Strategy and Planning

Directorate, Korea Aerospace Research Institute, Daejeon, Republic of Korea

**Reinhard Blasi**, Market Development Officer, EUSPA, Prague, Czech Republic

**Patrick Shannon**, Founder and CEO, TrustPoint Inc., Herndon, VA, USA \*

20:00 hrs

**EVENING RECEPTION: Munich Space Night 2024**  
at the Alte Kongresshalle (Old Congress Hall)  
offered by AIRBUS

We are looking very much forward to meeting you for drinks and food and great networking opportunities.

### WORKSHOP 2: INTEROPERABLE GNSS SPACE SERVICE VOLUME

The United Nations International Committee on GNSS (ICG) promotes the use and expansion of GNSS for space applications via its working groups. In November 2018 at ICG-13, a dedicated Subgroup called Space Use Subgroup (SUSG) was established. A key objective of the SUSG is to lead the evolution of the Interoperable Multi-GNSS Space Service Volume, including the use of GNSS for missions beyond the existing SSV (including Lunar operations).

The SUSG generated two editions of an SSV Booklet, which have been fully coordinated and endorsed by all GNSS providers. This SSV Workshop will present the latest status of the SUSG work plan activities, including SSV Simulation results, GNSS Mission Data collection, Interoperable GNSS Time, Lunar PNT capabilities and Standardization aspects.

#### Chairman:

**Werner Enderle**, Head of the Navigation Support Office, ESOC/ESA, Darmstadt, Germany

#### Panel Members:

**Werner Enderle**

**N.N.**, India

**Chang Xinuo**, China Academy of Space Technology, Beijing, China

**Erik Schoenemann**, Navigation Engineer, ESA/ESOC, Darmstadt, Germany

**Frank H. Bauer**, President, FBauer Aerospace Consulting Services, Towson, MD, US



## DAY 3.

**Morning.** Friday, March 22, 2024

8:30–10:00 hrs

### Session 8. MUNICH FLASHLIGHTS – NEWS FROM BAVARIA

In this year's Bavarian Flashlights session, we give the floor to our local GNSS research community. The local GNSS community is working on a diverse set of topics, from basic research of future navigation concepts to sensor fusion, from new antenna and receiver designs to bringing research results into application. The presentations from our invited speakers will focus on their research, how this research could turn into applications and their vision for the future of PNT. We conclude with a discussion session.

#### Chairwomen:

**Bärbel Deisting**, Director Space and Space Applications, bavAIRia e.V., Gilching, Germany

**Katharina Lutz**, Galileo Competence Center, DLR, Wessling, Germany

#### Panel Members:

**Thomas Pany**, Professor of Satellite Navigation, ISTA/FZ Space, University of the Bundeswehr Munich, Neubiberg, Germany

**Michael Meurer**, Professor, Head of Navigation Department, German Aerospace Center (DLR), Oberpfaffenhofen, Germany

**Alexander Rügamer**, Head of Satellite Based Positioning Systems Department, Fraunhofer IIS, Nuremberg, Germany

**Rolf Kozłowski**, Managing Director, DLR GfR, Wessling, Germany

**Stefan Schlüter**, Head of Department for Systems Analysis and Evolution, Galileo Competence Center, DLR, Wessling, Germany

Right after Session 8 we invite you to some insights in:

### ESA-NAVISP – A PROGRAMMATIC INSTRUMENT TO FOSTER THE GERMAN PNT ECOSYSTEM

**Alexander Weiss**, Head of Navigation, German Space Agency, DLR, Bonn, Germany

**Pierluigi Mancini**, NAVISP Programme Manager, ESA, Paris, France

10:00–11:15 hrs

### Session 9. IMPACT OF INTERFERENCE AND MONITORING FROM SPACE

Radio-frequency interference (RFI) in GNSS signal bands can pose a threat to modern human life and safety by degrading the performance of GNSS services for positioning, navigation, and timing. The L1 band, which is commonly used in many GNSSs for interoperability, has been well-protected by ITU regulations for the past 50 years. As a result, unintentional RFI sources are rarely observed, but due to escalating drone and electronic warfare, this topic is unfortunately gaining importance for the safe management of air traffic. RFI monitoring is the initial step in localizing and eliminating RFI sources. Recently, a technique for monitoring RFI using spaceborne GNSS-R data to map ground-based RFI transmission on a global scale was reported to the scientific society.

#### Chairman:

**Jong-Hoon Won**, INHA University, Incheon, South Korea

#### Panel Members:

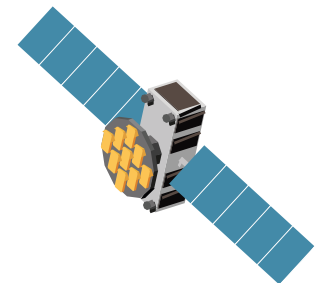
**Jong-Hoon Won**

**Gerhard Berz**, Head of Navigation and Spectrum, EUROCONTROL, Brussels, Belgium

**Zach Clements**, Radio Navigation Laboratory, The University of Texas at Austin, TX, USA

**Jan Speidel**, Galileo Project Manager, OHB, Bremen, Germany

**Kevin Heneka**, Founder & Owner, Hensec, Karlsdorf-Neuthard, Germany



11:15–11:45 hrs

## REFRESHMENT BREAK

11:45–13:00 hrs

### Session 10. GALILEO NEW SERVICES AND DIFFERENTIATORS

In addition to the Open Service (OS), Galileo already offers several services in support to specific user needs, as identified in various application domains, and will continue to introduce and evolve such services in the future. These special services support higher accuracy or improved robustness against interference, jamming or spoofing. This session provides an up-to-date overview of the introduction of the Galileo Public Regulated Service (PRS), the Galileo High Accuracy Service (HAS), the Galileo Authentication Services for civil users, the Early Warning services and the maritime Safety of Life service.

#### Chairman:

**Stefan Baumann**, Programme Manager, IABG, Ottobrunn, Germany

**Sara Krauss**, Head of Engineering Department, EUSPA, Prague, Czech Republic

#### Panel Members:

**N.N.**, EUSPA, Prague, Czech Republic

**Henry Kleta**, German Competent PRS Authority (CPA), Federal Ministry for Digital and Transport, Berlin, Germany

**Carl Örne**, Deputy Head of Swedish CPA, Swedish Civil Contingencies Agency, Karlstad, Sweden

Representatives of the other national CPAs as well as speakers on the Open Services will be nominated soon.

13:05–14:15 hrs

### Session 11. VIEWS FROM RECEIVER MANUFACTURERS

All future developments in satellite navigation like LEO-PNT, higher accuracy or authentication manifest themselves only after highly performant receiver solutions of small size and low power consumption are available for system integrators and users. This session will therefore feature a panel discussion of mass-market, professional and military receiver and service providers displaying their views on the most recent developments in the upstream sector.

#### Chairwoman:

**Simona Lohan**, Faculty of Information Technology and Communication Sciences, Tampere University, Tampere, Finland

#### Panel Members:

**Stefan Junker**, Trimble, Siegersbrunn (Munich), Germany

**Bruno Bougard**, Septentrio, Leuven, Belgium

**Heidi Kuusniemi**, University of Vaasa & Finnish Geospatial Research Institute, Finland

**Floean Curticapean**, OneNav, Tammerfors, Finland

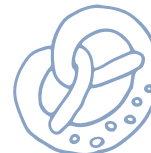
**Richard-Klaus Arning**, ISL, St. Louis, France

**Mårten Ström**, uBlox, Helsinki, Finland

**Sven Fischer**, Principal Engineer, Qualcomm, Nuremberg, Germany

14:15 hrs

Closing of the Summit and Invitation to the **Bavarian Chill-out** at the **Bavariasaal (Old Congress Hall)**





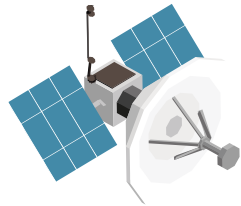
## REGISTRATION

Online registration is possible via the website  
[www.munich-satellite-navigation-summit.org](http://www.munich-satellite-navigation-summit.org)

### Virtual participation fee:

**Virtual participation**  
**€ 350,00**  
 valid at all times

The registration for the virtual participation includes access to all online streams.



### On site participation fees:

<b>Regular rate</b> <b>€ 900,00</b> valid from February 1, 2024	<b>Speaker rate</b> <b>€ 250,00</b> valid at all times
--	--

The registration fee includes access to all sessions (onsite and via online stream), to various networking opportunities like the reception on the first evening as well as visiting the technical exhibition, admission to the lunches, coffee/tea, snacks and refreshments during the conference and the retrieving of the conference proceedings.

## CANCELLATION/REFUND POLICY

Written cancellations until February 18, 2024 are refundable less € 95,00 cancellation fee. After February 18, 2024 there will be no refunds. We regret that individual registration benefits are not transferable.

## EXHIBITION

The Munich Satellite Navigation Summit will give your business a unique opportunity to position your latest products, services and technologies. Manufacturers, organisations and service providers are invited to exhibit at this event. Please contact us for further information.

## SUPPORT

We offer different packages for companies and institutions that are interested to be an official partner of the conference. If you would like to contribute, please contact us for further details.

## CONTACT

Munich Satellite Navigation Summit, Phone +49 89 6004 3425  
[info@munich-satellite-navigation-summit.org](mailto:info@munich-satellite-navigation-summit.org)  
[www.munich-satellite-navigation-summit.org](http://www.munich-satellite-navigation-summit.org)

Which Registration Suits You Best?	In-Person	Virtual
Access to the latest GNSS Developments and Program Updates	X	X
▪ Access to all Sessions	X	X
▪ Attendance to Premium Talks	X	
▪ Access to Online Session Streaming	X	X
▪ Real-Time Q&A and Discussions with Presenters	X	
▪ Receive Electronic Conference Proceedings	X	
Participation in Various Networking Events	X	
▪ Welcome Reception	X	
▪ GNSS Space Night	X	
▪ Various Round Tables	X	
▪ Access to lunches, coffee/tea breaks with snacks and refreshments	X	
Connect and network with Peers, Employers, GNSS Experts in Person	X	
Attend the Exhibition Trade Show in Person	X	
Identify Market, Programmatic and Research Trends	X	
Experience New Cultural Location	X	
No Travel Required		X

DAY	TIME	LOCATION	EVENT
DAY 1	15:30 hrs –	<a href="#">Alte Kongresshalle</a>	Exhibition Opening
	16:00 hrs	<a href="#">Am Bavariapark 14</a>	
	16:00 hrs –	80339 Munich	Opening Plenary Panel Exhibition
	18:30 hrs		
19:30 hrs	<a href="#">Residence Munich</a>	State Reception	
DAY 2	9:00 hrs –	<a href="#">Alte Kongresshalle</a>	Conference
	19:55 hrs		
	9:00 hrs –	<a href="#">Alte Kongresshalle</a>	Exhibition Summit Space Night 2024
	19:55 hrs		
DAY 3	8:30 hrs –	<a href="#">Alte Kongresshalle</a>	Conference
	14:15 hrs		
	8:30 hrs –	<a href="#">Alte Kongresshalle</a>	Exhibition
	14:15 hrs		
	14:15 hrs –	Bavariasaal	Bavarian Networking

The Munich Satellite Navigation Summit 2024 is organized by



&



&



&



Deutsches Zentrum  
für Luft- und Raumfahrt  
German Aerospace Center  
  
Institute of Communications  
and Navigation

in cooperation with



Titanium Sponsor



Bag Sponsor



Silver Sponsor



Support



[www.munich-satellite-navigation-summit.org](http://www.munich-satellite-navigation-summit.org)