



Third edition European Regional Symposium by NEREUS Regions

Space in Occitanie: The future has already begun! 2nd & 3rd October 2024, Toulouse, Occitanie Region

2nd OCTOBER	
08:30	<p>Registration : Salle d'assemblée plénière (plenary assembly hall) - Occitanie Region, 22 Boulevard du Maréchal Juin, 31400 Toulouse</p>
<p>Sophie Voinis - Journalist - introduced as a Master of ceremony</p>	
09:00	<p>Welcome and Introduction</p> <p>Nadia Pellefigue - <i>Vice-President, Higher Education, Research, Europe and International Relations</i></p> <p>Thierry Cotelle, <i>NEREUS President</i></p> <p>Vito Bardi, <i>President of Basilicata Region</i></p> <p>Thierry Levoir - <i>Director of the Toulouse Space Center, CNES</i></p>
09:30	<p>THE NEREUS WORKSHOP: GLOBAL CHALLENGES AND NEEDS, AN EVOLVING SPACE LANDSCAPE TO SUPPORT SOCIETY</p> <ul style="list-style-type: none"> • Michael Toplis, <i>President of University of Toulouse Board of Directors: "Science to support society"</i> • Lucien Rapp, <i>Emeritus Professor, Toulouse School of Law, University Toulouse-Capitole, Scientific Director of the SIRIUS Chair, "European Space Regions facing (new) Space Challenges"</i> <ul style="list-style-type: none"> ○ New Space and New Players ○ European institution's role to support space evolution and its contribution to sustainability ○ European sovereignty as a key aspect of sustainability of European society • Club Galaxie by Catherine Lambert - <i>President of the Club Galaxie and director of the CERFACS</i>

10:10	<p>ROUND TABLE 1 - SETTING THE SCENE: IMPACTS OF THE EU SPACE PROGRAM, SPACE DATA AND SERVICES IN EUROPEAN TERRITORIES:</p> <p>Chairman: Pierre-Alain Bosc - Head of Sales France and International Institutions, Airbus DS Intelligence</p> <p>Speakers: Elisabeth Hamdouch - Führer - Deputy Head of Unit for Copernicus DG DEFIS, European Commission, Alessandra Tassa - Copernicus User Expert in ESA's Directorate of Earth Observation Programs, Selma Cherchali – Head of Earth observation program at CNES, Bertrand Monthubert – co-chair of the Data Governance WG at GPAI, President of Ekitia and OPenIG, Stephanie Limouzin – Chief Executive Officer, CLS, Antonio Colangelo - Basilicata Region Space Cluster/ TeRN President</p> <p>1) <u>Challenge 1 – Maximizing the impacts of the EU Space program’s components in the regions by boosting activities, services development and competitiveness of the stakeholders.</u></p> <ul style="list-style-type: none"> • Ambitious EU Space program related to environment issues: Copernicus <p>Elisabeth Hamdouch – Fuehrer - Deputy Head of Unit for Copernicus, DG DEFIS, European Commission, “EU Space Programme: Evolution of Copernicus”</p> <p>Alessandra Tassa - Copernicus User Expert, ESA’s Directorate of Earth Observation Programs, “The Copernicus Space Component: Current and future perspectives on contributions to Water and Energy”</p> <ul style="list-style-type: none"> • Value chain involving a wide range of actors from satellite to end user <p>Selma Cherchali – Head of Earth observation program, CNES</p> <p>Bertrand Monthubert – co-chair of the Data Governance WG at GPAI, President of Ekitia and OPenIG: “Role of the regions as both prescriptor of services and/or final users, Impacts in territories and governance”</p> <p>2) <u>Challenge 2 - Limitations of Space data and information in the legal context for regulation activities by local and/or regional administrations</u></p> <ul style="list-style-type: none"> • Stephanie Limouzin - Chief Executive Officer, CLS: “The case of Oil Spill” • Antonio Colangelo – President, Basilicata Region Space Cluster/ TeRN
11:00	Questions & Answers
11:10	Coffee Break

11:30

ROUND TABLE 2 – ENVIRONMENTAL RISKS AND PREVENTION: WHAT ARE THE CHALLENGES?

Introduction by **Claire Albasi** - *CNRS Research Director, Chemical Engineering Laboratory and member of Aqua Valley Cluster Board of Directors*: “Putting environmental Challenges in perspective with UNESCO SDGs and focus on water”

11: 45

Chairwoman: Daniela Iasillo, Strategic Development Manager Copernicus, PLANETEK Italia

Speakers:

Samuel Morin - Director of CNRM, Météo-France – CNRS, "**Gianfredi Mazzolani** - Director of Department Research, Development, and International Activities, Acquedotto Pugliese S.p.A, **Michele Busciolano** - General Director for Environment Department, Basilicata Region, **Catalina Rodriguez** - Deputy Director for Space Affairs, Aerospace Valley, **Marc Tondriaux** - President – Terranis, **Camille Debrock** - GIS and Remote Sensing Project Manager, Occitanie Region, **Vincenzo Critelli** - Research fellow at Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia, **Andreas Kanstein** - Managing Director, Cesah (Hesse)

1) Challenges and Impact in territories

- **Samuel Morin** - *Director of CNRM, Météo-France – CNRS*: “Synergies between satellite-based observations and models of various kinds for anticipating meteorological phenomena at all scales of time and space”
- **Gianfredi Mazzolani** - *Director of Department Research, Development, and International Activities, Acquedotto Pugliese S.p.A (Puglia, Italy)*: “The International Activities of Acquedotto Pugliese”
- **Michele Busciolano** - *General Director for Environment Department, Basilicata Region*
- **Catalina Rodriguez** - *Deputy Director for Space Affairs, Aerospace Valley*: “Aerospace Valley initiatives for environmental risks and prevention: SCALE, SPACE4CITIES, PCP-WISE”
- **Marc Tondriaux** - *President - Terranis*: “**Project Valorada** - Forecast needs of water for the agriculture sector in **Sicoval area, France**”

2) How can data facilitate water management: exchange of best practices

- **Camille Debrock** - *GIS and Remote Sensing Project Manager, Occitanie Region*: “SATSDIFACTION Project”
- **Vincenzo Critelli** - *Research fellow at Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia*: “Paracelso

	<p>project Predictive Analysis, Monitoring, and Management of Climate Change Effects Leveraging Satellite Observations”</p> <ul style="list-style-type: none"> • Andreas Kanstein - <i>Managing Director, Cesah (Hesse): “SWIM: Surface Water Information Management”</i>
12:50	<p>Q&A and Keynote: introduction to the topics of the afternoon - WATER MANAGEMENT & SOLUTIONS</p>
13:00	<p>Lunch</p>
14:30	<p>ROUND TABLE 3 – WATER MANAGEMENT: WHAT ARE THE SOLUTIONS?</p> <p><i>In almost all European region decision-makers must look for new and innovative solutions to ensure sustainability despite all surrounding risks.</i></p> <p>Chairman: Jean Marc Gardin – <i>Deputy Chief Executive Officer, Telespazio & Galaxie Club, VP</i></p> <p>Space technology solutions, Earth observation and satellite–based positioning systems: Exchanges of Best practices.</p> <p><u>Speakers:</u> Andrea Lombardelli - <i>CEO and Project Manager, GEO4</i>, Guillaume Valladeau – <i>CEO HydroVenture Alliance (vorteX-io)</i>, Emanuele Ciancia - <i>Consiglio Nazionale delle Ricerche (CNR) and Università della Basilicata, Italy</i>, Salvina Sist - <i>Head of Spatial Planning Directorate and</i> Carlo Masetto - <i>GIS Specialist, Spatial Planning Directorate</i>, Giorgio Antonio Licciardi – <i>Head of project, ASI</i>, Iliass Tanouti – <i>VP Delivery & Customer Success, Constellr</i>, Jeremy Fain - <i>Chief Executive Officer - BWI Blue Water Intelligence</i>, Tina Silovic - <i>Market Development Officer at Mercator</i>, Stéphanie Limouzin - <i>Chief Executive Officer – CLS</i>, Thomas Ferrero - <i>President – MEOSS</i></p> <p>1) Exchanges of best practices</p> <ul style="list-style-type: none"> • Andrea Lombardelli - <i>CEO and Project Manager, GEO4 (Emilia-Romagna, Italy)</i>, "Water Resource Management Project for Agriculture through Satellite Data" • Guillaume Valladeau – <i>CEO HydroVenture Alliance, Occitanie, France (vorteX-io)</i>: "Best practices related to addressing water challenges: linking space to user needs" • Eduardo Pereira Head of Canarias islands Geo Innovation Program 2030, canarias : UAS&HAPS as a solution for security, safety, emergencies, environment and other services management. • Emanuele Ciancia - <i>Researcher, Consiglio Nazionale delle Ricerche (CNR) and Università della Basilicata, Italy</i>: “Satellite Sentinel-2 data for algal bloom detection and monitoring in inland waters"

	<ul style="list-style-type: none"> • Salvina Sist - <i>Head of Spatial Planning Directorate</i> and Carlo Masetto - <i>GIS Specialist at Spatial Planning Directorate (Veneto, Italy):</i> “Monitoring Flood Events in Veneto with Sentinel-1 and Sentinel-2 Satellite Images” • Giorgio Antonio Licciardi – <i>Head of project at ASI (Lazio, Italy)</i> “The ECONET Project: Use of AI for surface water monitoring with satellite and ground sensor data” • Iliass Tanouti – <i>VP Delivery & Customer Success, Constellr (Baden-Württemberg, Germany):</i> "Thermal Intelligence from Space: Driving Water Use Efficiency"
15:45	Q&A
16:00	Coffee Break
16:15	<p>2) Companies: interactive debate</p> <ul style="list-style-type: none"> • Jeremy Fain - <i>Chief Executive Officer, BWI Blue Water Intelligence</i> • Tina Silovic - <i>Market Development Officer, Mercator</i> • Stéphanie Limouzin - <i>Chief Executive Officer, CLS</i> • Thomas Ferrero - <i>President, MEOSS</i>
17:00	Conclusion
17:15	Keynote for tomorrow’s round table on energy – Sophie Voinis
20 :00	<p>Dinner with presidents of NEREUS regions (Espace Charles de Gaulle + All):</p> <p>Welcoming speech by President Carole Delga, 17th Anniversary of Nereus: Thierry Cotelle - <i>President of NEREUS</i></p> <p>Ceremony Trophy Nereus: President Vito Bardi - <i>President of Basilicata Region</i> and Mr. Paulo Estêvão, <i>Regional Secretary for Parliamentary Affairs and Communities, representing the President of Azores Region & Thierry Cotelle</i> - <i>President of NEREUS</i></p>

3rd OCTOBER	
08:30	Registration
09:00	<p>Welcome and Introduction by Thierry Cotelle - President of NEREUS</p> <p>Jordi Corbera - Head of Earth Observation Area, Institut Cartogràfic i Geològic de Catalunya: "Water monitoring by satellite, a key resource to be managed"</p>
09:15	<p>Challenges to raise for Energy: presentation by ABGI of a study financed by France 2030 on space applications for the earth, promoting the French space system in general by Lénaïc Mallet - Manager in innovation and strategy, ABGI France and Roxanne Lagardere – Consultant, ABGI France</p>
09:40	<p>Catherine Mandler - Space Economist at Evenflow on behalf of ECMWF, European Centre for Medium-Range Weather Forecasts: "Introduction to the Copernicus Energy Hub"</p>
10:05	<p>ROUND TABLE 4 ENERGY: WHAT ARE THE NEEDS AND CHALLENGES?</p> <p>Environmental sustainability is one of the main goals of cities and regions challenges - Data management</p> <p>Chairwoman: Roya Ayazi - Secretary General of NEREUS</p> <p>Speakers:</p> <p>Arnaud Ceyte - Satellite applications business manager and GIS project manager, CEREMA (Dter Occitanie), Matthieu Denoux - Head of Digital Decision Support, AURA-EE, Andreas Kazantzidis – Professor, University of Patras, Greece, Raffaele Santangelo - Chairman of Board of Directors at Geocart Spa/TERN, Basilicata, Italy, Joana Ferreira Rita - Regional Director of Energy, Azores Region, Olivier Liandrat - Head of Innovation, REUNIWATT, Sylvain Chapon - Strategic Marketing Delegate, Engie, Mathilde Allancon - Project manager, Kayrros, Damien Dumestier – Space system Design Manager, Thales Alenia Space</p> <p>1) Energy management, Challenges and impact in territories:</p> <ul style="list-style-type: none"> Arnaud Ceyte - Satellite applications business manager and GIS project manager, CEREMA (Dter Occitanie): "How large-scale urban heat islands data can help to anticipate the need for cooling networks in French cities?"

	<ul style="list-style-type: none"> • Matthieu Denoux - <i>Head of Digital Decision Support Services, AURA-EE^e</i> (Auvergne-Rhône-Alpes, France): “Supporting local authorities in Renewable Energy transition: the role of satellite data and leads on how to integrate them” • Andreas Kazantzidis – <i>Professor, University of Patras (Greece)</i> - "New challenges in solar energy resource and forecasting" • Raffaele Santangelo - <i>Head of Business Development, Geocart Spa/TERN (Basilicata, Italy): "Satellite data and lidar point clouds for Vegetation management strategies in the field of electric transmission lines"</i> • Joana Ferreira Rita - <i>Regional Director of Energy, Azores Region: "Energy Transition in the Azores,</i>
11:00	Coffee break
11:20	<p>2) <u>Energy Management and Solutions</u></p> <ul style="list-style-type: none"> • Olivier Liandrat - <i>Head of Innovation, REUNIWATT</i>, “Satellite observation for a safe & massive integration of solar energy on the grid” • Sylvain Chapon - <i>Strategic Marketing Delegate, Engie</i>: “Strategic partnerships with CNES” • Mathilde Allançon - <i>Project manager, Kayrros</i> • Damien Dumestier – <i>Space system Design Manager, Thales Alenia Space</i>: “Prospective & Energy Efficiency: Ascend Study”
12: 15	Q&A
12 :30	Walking Lunch at the Region
13:45	Departure



PROGRAM OF VISITS: 3rd OCTOBER	
Participants: around 50 participants	
12:30	Lunch at la Region (Hall Savary) (Bus 13h45: Région to Aerospace Valley)
14:00	Aerospace Valley +IRT : SCALE (Space Climate League) <ul style="list-style-type: none">- Presentation of the collective (The Climate Company, I-Sea, Waltr and LTU Technology)- Demonstration of application services for the resilience of cities, coastal zones, air quality and the maintenance of our water networks
15:30	Arrival at Cité de l'Espace - Hosted by Jean-Baptiste Desbois, director of the Cité de l'Espace <ul style="list-style-type: none">- 15 :55 IMAX Group- 16:25 - Lune Explorer for half of the group and discussions with Jean-Baptiste Desbois - Director of the Cité de l'Espace or Christophe Chaffardon - Director of Education, Science and Culture at SEMECCEL. There will be a turnover.
17:30	Cité de l'Espace – End of visit (Bus : Cité de l'Espace to Région)

Please bear in mind that you will be asked to show proof of identity (a valid ID card or passport), which must match the one you have previously provided.



PRACTICAL INFORMATION

Hôtel de Région : 22 Boulevard Maréchal Juin, 31400 TOULOUSE

Airport - Regional hotel: 15 min by car

- **G7 taxis:** <https://www.g7.fr/commande-taxis>
- **Navecotaxis:**
<https://www.naveco.fr/?srsltid=AfmBOoqUCz3FZSnKeSasevpo77pPduDIbFdmBil7FEzJOx1RVdoWPn3O>

Room locations will be indicated inside the building.