

3rd edition European Symposium by NEREUS Regions Space in Occitanie: The future has already begun! 2nd & 3rd October 2024

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| 2nd OCTOBER | |
| 08:30 | Registration : Salle d'assemblée plénière (plenary assembly hall) - Occitanie Région, 22 Boulevard du Maréchal Juin, 31400 Toulouse |
| Sophie Voinis - Journalist - introduced as a Master of ceremony: | |
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| 09:00 | <p>Welcome and Introduction</p> <p>Opening session by Thierry Cotelle - <i>President of NEREUS and Vice-President of Space Committee for the Occitanie Region</i></p> <p>Presence of Vito Bardi - President of Basilicata Region and José Manuel Bolieiro - President of Azores Region.</p> <p>Thierry Levoir - <i>Director of the Toulouse Space Center, CNES</i></p> |
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| 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 UT, 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: private alternatives, Open Innovation with collaboration between all type of players, structuration of the Space policy and the Space market with a balanced sharing of roles between new private and public actors and historical players ○ European institution's role to support space evolution and its contribution to sustainability: financial support mechanisms for the transformation and competitiveness of an emerging industry, Institutional control and regulatory obstacles, as limiting factors |

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| | <ul style="list-style-type: none"> ○ (benchmark, feedback from European Regions), the balance between emerging and legacy players should be well addressed. ○ European sovereignty as a key aspect of sustainability of European society: which needs in the current international context? The USA Model. <p>- Club Galaxie by Catherine Lambert - <i>President of the Club Galaxie and director of the CERFACS.</i></p> |
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| 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 - <i>Head of Sales France and International Institutions - Airbus DS Intelligence</i></p> <p><u>Speakers:</u></p> <p>Elizabeth Hamdouch - <i>Deputy Head of Unit for Copernicus DG DEFIS, European Commission</i>, Alessandra Tassa - <i>Copernicus User Expert in ESA’s Directorate of Earth Observation Programs</i>, Selma Cherchali – <i>Head of Earth observation program at CNES</i>, Bertrand Monthubert – <i>co-chair of the Data Governance WG at GPAI, President of Ekitia and OPenIG</i>, Stephanie Limouzin – <i>Chief Executive Officer, CLS</i>, Antonio Colangelo - <i>Basilicata Region Space Cluster/ TeRN President</i></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>Elizabeth Hamdouch - <i>Deputy Head of Unit for Copernicus DG DEFIS, European Commission</i></p> <p>Alessandra Tassa - <i>Copernicus User Expert in ESA’s Directorate of Earth Observation Programs</i>, “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 – <i>Head of Earth observation program at CNES</i></p> <ul style="list-style-type: none"> • Role of the regions as both prescriptor of services and/or final users, Impacts in territories and governance Bertrand Monthubert – <i>co-chair of the Data Governance WG at GPAI, President of Ekitia and OPenIG</i> <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> |

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| | <ul style="list-style-type: none"> - The case of Oil Spill, Stephanie Limouzin - Chief Executive Officer, CLS. - What is currently the applicability domain of space data in the legal domain at EU level? |
| 11:10 | Questions & Answers |
| 11:20 | Coffee Break |
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| 11:35 | <p>ROUND TABLE 2 – ENVIRONMENTAL RISKS AND PREVENTION: WHAT ARE THE CHALLENGES?</p> <p>Introduction by Claire Albasi: putting environmental Challenges in perspective with UNESCO SDGs and focus on water by Claire Albasi - CNRS Research Director, Chemical Engineering Laboratory and member of Aqua Valley Cluster Board of Directors</p> <p>Chairwoman: Daniela Iasillo, PLANETEK Italia (Strategic Development Manager Copernicus)</p> <p><u>Speakers:</u></p> <p>Samuel Morin - Director of CNRM (Météo-France - CNRS), Murielle Lafaye -Head of EUMETSAT program at CNES, Camille Debrock - GIS and Remote Sensing Project Manager, Satsdification project, Resca Andrea - responsible of the secretariat of the Strategic Forum for the promotion of the aerospace supply chain at the Emilia-Romagna Region : Paracelso project, Andreas Kanstein - managing director, cesah (Hesse), “SWIM: Surface Water Information Management”, Michele Busciolano - General Director for Environment Department in Basilicata Region, Gianfredi Mazzolani- Director of Department Research, Development, and International Activities, Puglia, Italy, Catalunya ?</p> |
| 11: 45 | <p>1) <u>Challenges and Impact in territories</u></p> <p>Gianfredi Mazzolani - Director of Department Research, Development, and International Activities, Puglia, Italy</p> <p>Michele Busciolano - General Director for Environment Department (Basilicata Region).</p> <p>Xavier Bernard Sans - general secretary of Euroregion Midi-Pyrénées - Méditerranée Euroregion, Life Wat’save Reuse, European project (Catalonia, Balearic Islands, Occitania)</p> |
| | <p>2) <u>How can data facilitate water management: exchange of best practices</u></p> |

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| | <p>Camille Debrock - <i>GIS and Remote Sensing Project Manager, Occitanie Region, SATSDIFACTION project</i></p> <p>Resca Andrea - <i>responsible of the secretariat of the Strategic Forum for the promotion of the aerospace supply chain at the Emilia-Romagna «PARACELSO - Predictive Analysis, Monitoring, and Management of Climate Change Effects Leveraging Satellite Observations», Po River District Basin Authority, CNR, Region University of Padova, University of Bologna, University of Modena and Reggio Emilia, Italy</i></p> <p>Andreas Kanstein - <i>managing director, cesah (Hesse), e. Ray Europa GmbH, Darmstadt / Hessen, Germany, “SWIM: Surface Water Information Management”,</i></p> |
| 12:50 | Q and A and Keynote: introduction to the topics of the afternoon - WATER MANAGEMENT & SOLUTIONS |
| 13:00 | Lunch |
| 14:30 | <p>ROUND TABLE 3 – WATER MANAGEMENT: WHAT ARE THE SOLUTIONS?</p> <p>In almost all European region decision-makers must look for new and innovative solutions to ensure sustainability despite all surrounding risks</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>1). Exchanges of best practices</p> <ul style="list-style-type: none"> • "Water Resource Management Project for Agriculture through Satellite Data", GEO4, Emilia-Romagna, Italy • Guillaume Valladeau – <i>CEO, "Best practices related to addressing water challenges: linking space to user needs", HydroVenture Alliance, Occitanie, France (Vortex)</i> • “Water Management Challenges in the Azores”, Azores, Portugal • Emanuele Ciancia – <i>Researcher, Satellite Sentinel-2 data for algal bloom detection and monitoring in inland waters", Consiglio Nazionale delle Ricerche (CNR) and Universita della Basilicata, Italy</i> • Salvina Sist - <i>Head of Spatial Planning Directorate and Carlo Masetto - GIS Specialist at Spatial “Monitoring Flood Events in Veneto with Sentinel-1 and Sentinel-2 Satellite Images”, Veneto, Italy</i> • Licciardi Giorgio Antonio “The ECONET Project: Use of AI for surface water monitoring with satellite and ground sensor data”, ASI, Lazio, Italy |

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| | <ul style="list-style-type: none"> • Ilias Tanouti – <i>constellr</i>, “monitoring irrigation/water productivity and thus save water and” and “water quality monitoring for inland water bodies, i.e. early warning systems for algae bloom and pollution”, Baden-Württemberg, Germany |
| 15:45 | Questions and Answers |
| 16:00 | Coffee Break |
| 16:15 | <p>2) Companies: interactive debate</p> <ul style="list-style-type: none"> - Jeremy Fain - <i>Chief Executive Officer</i> - BWI Blue Water Intelligence (BWI – which stands for Blue Water Intelligence, a basin digitization company, leverages Earth Observation, in-situ observations, hydrological models, and machine learning to monitor and forecast river discharge at any point in a river via virtual stations.) - Stéphanie Limouzin - <i>Chief Executive Officer</i> - CLS - Thomas Ferrero - <i>President</i> – MEOSS |
| 17:00 | Conclusion |
| 17:15 | Keynote for tomorrow’s round table on energy – Sophie Voinis |
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| 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 - President of NEREUS.</p> <p><i>Ceremony Trophy Nereus: President Vito Bardi - President of Basilicata Region and José Manuel Bolieiro - President of Azores Region + Thierry Cotelle - President of NEREUS and Vice-President of Space Committee for the Occitanie Region.</i></p> |

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| 3rd OCTOBER | |
| 08:30 | Registration |
| 09:00 | <p>Welcome and Introduction by Thierry Cotelle - <i>President of NEREUS and Vice-President of Space Committee for the Occitanie Region</i></p> <p>Jordi Corbera - <i>Head of Catalan Earth Observation Centre, Institut Cartografic de Catalunya, "Water monitoring by satellite, a key resource to be managed"</i></p> |
| 09:10 | <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 - <i>Manager in innovation and strategy at ABGI France</i> and Roxanne Lagardere - <i>consultant at ABGI France</i></p> |
| 09:40 | <p>Tim Heijmann - <i>Innovation consultant at Evenflow</i>, Catherine Mandler - <i>Space Economist at Evenflow on behalf of ECMWF, European Centre for Medium-Range Weather Forecasts</i></p> |
| 10:00 | <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 - <i>Secretary General of NEREUS</i></p> <p>Speakers:</p> <p>Azores, Portugal, CEREMA, Occitanie, France, Matthieu DENOUX - <i>Head of Digital Decision Support in AURA-EE, Auvergne, France, Kazantzidis Andreas</i> - <i>Professor at University of Patras, Greece, Raffaele Santangelo</i> - <i>Head of Business Development at Geocart Spa/ TERN, Basilicata, Italy, Olivier Liandrat</i> - <i>Defence & Space Innovation Manager at REUNIWATT, Sylvain Chapon</i> - <i>strategic Marketing Delegate at Engie, Strategic partnerships with CNES, Mathilde Allancon</i> - <i>project manager at Kayrros</i></p> <p>1) Energy management, Challenges and impact in territories:</p> <ul style="list-style-type: none"> • “Energy Challenges in the Azores”, Azores, Portugal • Ceyte Arnaud - <i>satellite applications business manager and GIS project manager, CEREMA (DTER Occitanie), Occitanie, France</i>, how large-scale urban heat islands data can help to anticipate the need for cooling networks in French cities? |

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| | <ul style="list-style-type: none"> • Matthieu DENOUX - <i>Head of Digital Decision Support Services</i>, supporting local authorities in Renewable Energy transition: the role of satellite data and leads on how to integrate them, AURA-EE, Auvergne, France • Kazantzidis Andreas - <i>Professor at University of Patras, Greece</i> - "New challenges in solar energy resource and forecasting", University of Patras, Greece • "Satellite data and lidar point clouds for Vegetation management strategies in the field of electric transmission lines", Raffaele Santangelo - <i>Head of Business Development at Geocart Spa/ TERN, Basilicata, Italy</i> |
| 11:00 | Coffee break |
| 11:20 | <p>2) Energy Management and Solutions</p> <ul style="list-style-type: none"> • Olivier Liandrat - <i>Defence & Space Innovation Manager at REUNIWATT</i> • Sylvain Chapon - <i>strategic Marketing Delegate at Engie</i>, Strategic partnerships with CNES, • Mathilde Allancon - <i>project manager at Kayrros</i> • Prospective & Energy Efficiency: Ascend Study, Damien Dumestier – Space system Design Manager, Thales Alenia Space (PPT) |
| 12: 15 | Questions and Answers |
| 12 :30 | Walking Lunch at La Region |
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| 13:45 | Departure |
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| PROGRAM OF VISITS: 3rd OCTOBER | |
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| 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 | Departure to la Cité de l’Espace (Bus: Aerospace Valley to Cité de l’Espace) - hosted by Jean-Baptiste Desbois, director of the Cité de l’Espace (To be confirmed) <ul style="list-style-type: none"> - Lune Explorer |
| 16:30 | Cité de l’Espace <ul style="list-style-type: none"> - Show IMAX Group |
| 17:30 | Cité de l’Espace – End of visit (Bus : Cité de l’Espace to Région) |
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PRACTICAL INFORMATIONS

Hôtel de Région : 22 Boulevard Maréchal Juin, 31400 TOULOUSE

Airport - Regional hotel: 15 min by car

- **G7 taxis:** <https://www.g7.fr/commande-taxis>
- **Naveco taxis:** https://www.nav-eco.fr/?gad_source=1&gclid=CjwKCAjw3P-2BhAEEiwA3yPhwCVnOB8aBH34ja61bNFj8ctCO0434UD4toPqngwuacD1ckUwHQ41CRoCSJ8QAvD_BwE

Room locations will be indicated inside the building.