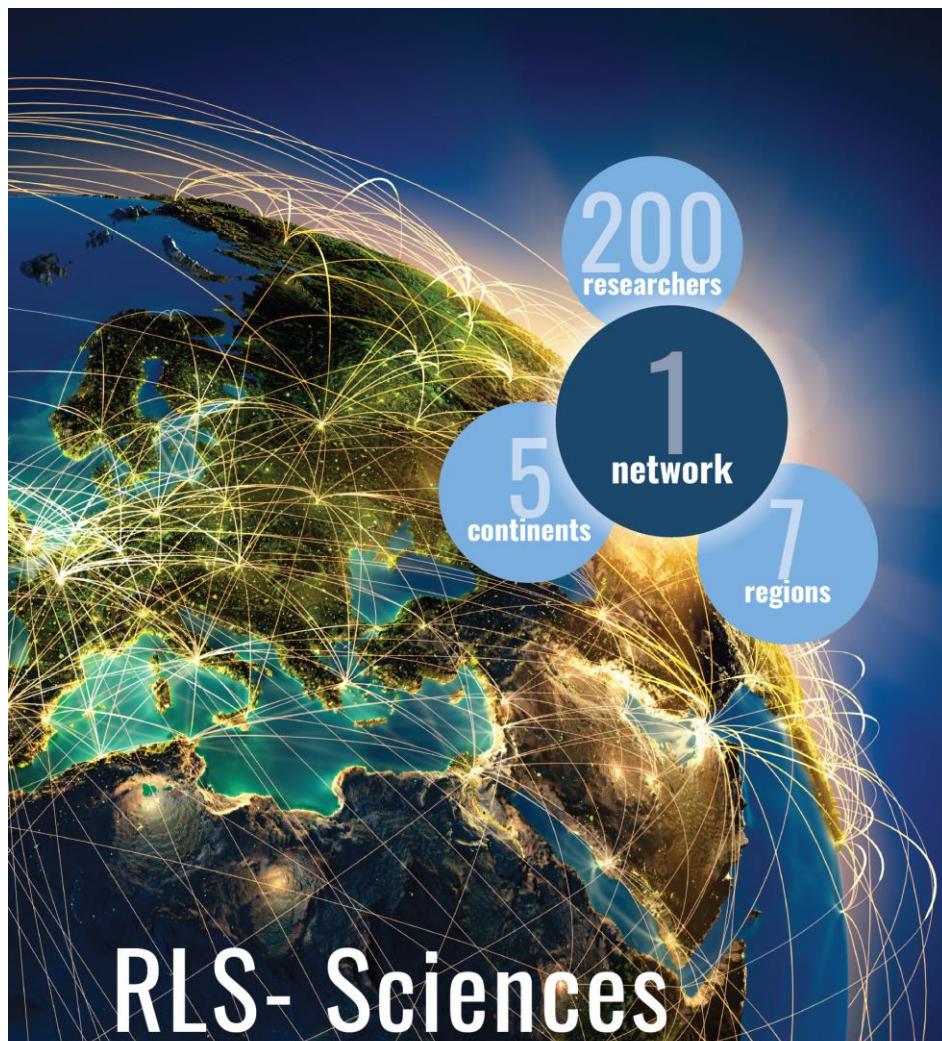




Regional Leaders' Summit 2021

RLS-Sciences – Assessment of Achievements and Outlook

11 November 2021



a multilateral science initiative

RLS-Sciences: A multilateral and multilevel science initiative



Credits: RLS-Sciences / Munich Aerospace



RLS-Sciences

Continuous and sustainable growth of the network (I)

Implementation of 4+1 unique research groups



Energy Network
(since 2013)



Global Aerospace Campus
(since 2016)



Small Satellites
(since 2016)



Expert Dialogue
(since 2016)



Digital Health Initiative
(since 2020)

Current network

- **170 researchers**
100+ new researchers since 2018
- **65 young researchers**
increase of 30+ since 2018



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Dedicated RLS-Sciences Conferences

São José dos Campos
(2019)



Online and in Munich
(2021)



Credits: RLS-Sciences, WKS Bayern-Québec/Alberta/International and Ministry of Economy and Innovation of Québec



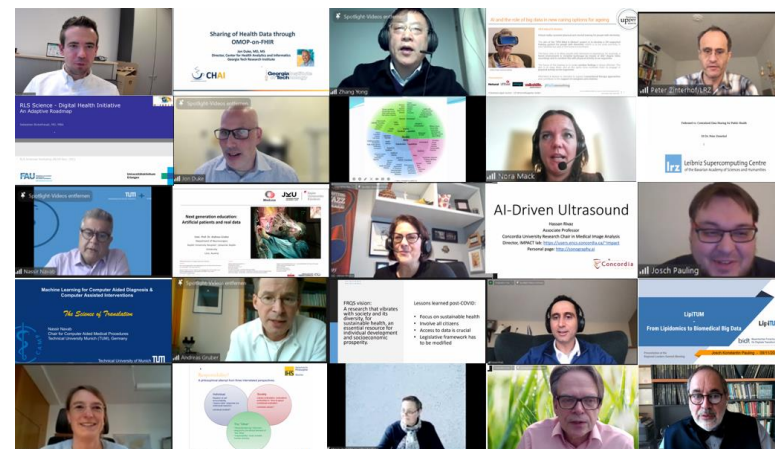
RLS-Sciences

Continuous and sustainable growth of the network (II)

RLS-Sciences Digital Health Initiative

Facing the COVID-19 pandemic, in 2020 the RLS set up a targeted research initiative aiming at **bridging the gap between research and application in digital health**.

- It will offer activities and projects at the intersection of both methodological pillars and clinical use-cases in digital health.
- It will further continuously advance, develop, and monitor the joint strategic roadmap that guides their work.



Credit: WKS Bayern-Québec/Alberta/International

Methodological pillars:

- Data Handling and Ethics
- Digital Medical Applications
- Big Data in Public Health

Clinical use-cases:

- Demographics and the ageing society
- Surgery and robotics
- Oncology and cancer prevention
- Rare diseases/neurodegenerative diseases



RLS-Sciences

Production of high-level and multiregional scientific outputs

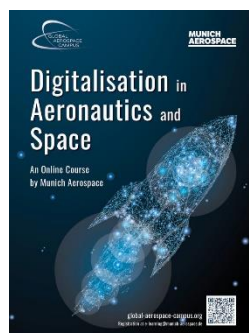
Scientific publications

- **TIM: Telematics**
International Mission
(IAA Conference Paper 2019)
- The Role of Renewable Energy in **Regional Energy Transitions**
(Sustainability 2021)
- **Smart Campuses:**
Extensive Review of the Last Decade of Research and Current Challenges
(IEEE Xplore 2021)



e-Learning

- **MOOCs:**
 - 6700+ learners enrolled on Coursera & 600+ learners on Moodle



- **Digitalization in Aeronautics and Space**
(2020)



- **Space Safety**
(2021)

International projects

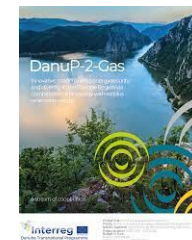
- **DIALOGUES**
Energy citizenship for a sustainable future
(2021, **3.2 million €**)



- **CAMPAIGNERS**
Citizens Acting on Mitigation Pathways through Active Implementation of a Goal-setting Network
(2021, **5.0 million €**)



- **DanuP2Gas**
Innovative model to drive energy security and diversity in the Danube Region via combination of bioenergy with surplus renewable energy
(2020, **2.5 million €**)



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Credits: RLS-Sciences, Global Campus Aerospace, Energieinstitut JKU Linz, TZ Energie



RLS-Sciences

Research promotion

Multiregional participation at international events

- **International Academy of Astronautics 12th Symposium** (2019)
- **Forum Economy** (2018-2019-2020)
- **World Sustainable Energy Days** (2019-2020)
- **MTL Connect –Montréal Digital Week**
 - **Future of Work** (2020)
 - **Advanced Air Mobility** (2021)



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RLS-Sciences and innovation & science diplomacy

- **INGSA: International Network for Government Science Advice (INGSA) 2021 Conference**
Innovations in Science Advice Panel
online and Montréal (2021)
- **OECD Observatory of Public Sector Innovation**
RLS-Sciences: A multiregional and multilevel research cooperation framework
Cross-border collaboration case study (2021)



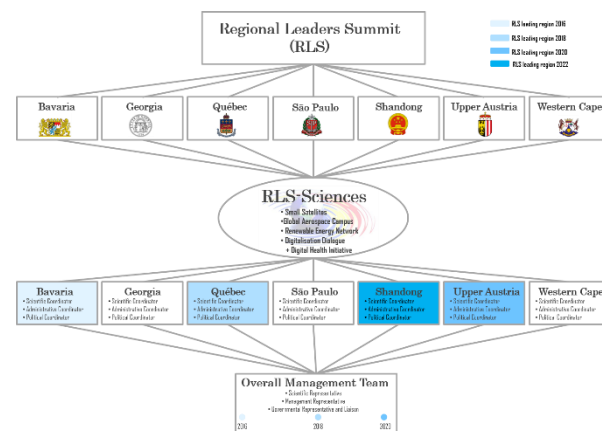
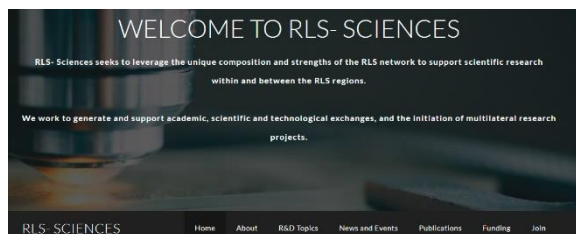


RLS-Sciences

Powering RLS-Sciences

Key for success: Multilevel & multiregional structure and management

- **Governance structure: 21 regional coordinators and 28 lead scientists** (+incoming Digital Health Initiative lead scientists)
- **Overall RLS-Sciences Conferences every two years**
- **Project meetings and dedicated workshops**
- **RLS-Sciences website** www.rls-sciences.org and newsletter
- **RLS-Sciences Funding Database (online)**



Science-policy interface: RLS-Sciences contributions to RLS

- **2019 RLS-Sciences contribution to Steering Committee**
- **2020 RLS Virtual Roundtable on COVID-19, online and Linz**



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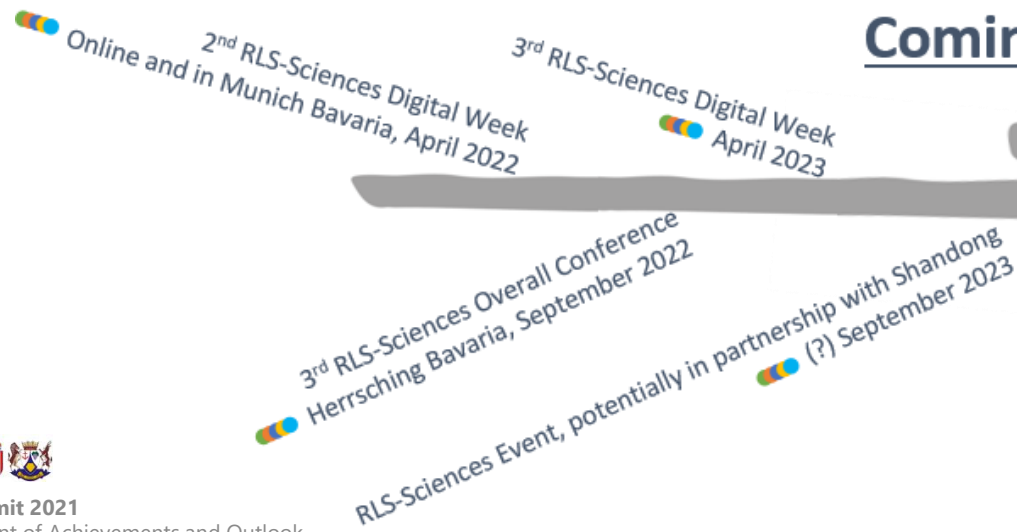
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RLS-Sciences – Assessment of Achievements and Outlook

Taking stock since the Regional Leaders' Summit in Québec 2018 and the 2020 RLS Virtual Roundtable on COVID-19 hosted by Upper Austria, the achievements of RLS-Sciences show clearly that multilateral science cooperation with an integration between science and policy is feasible and success-bringing at the regional level via

- scientific data and analyses
- frameworks to share data
- research achievements
- and science diplomacy

Coming Next



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Credits: RLS-Sciences and WKS Bayern-Québec/Alberta/International

Thank you for your attention!

RLS-Sciences

Acknowledging the many contributions from our partners across the regions.



We work to generate and support academic, scientific and technological exchanges, and the initiation of multilateral research projects.



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Find out more:

<http://www.rls-sciences.org/>