



DEUTSCHES ZENTRUM ASTROPHYSIK

The German Center for Astrophysics: A new scientific institution in the Euroregion promoting regional transformation

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DZA: CHALLENGE, MISSION & GOALS

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Germany's national research center for astrophysics: to conduct world-class research, drive digitalisation and innovation, support regional transformation after the coal phase-out



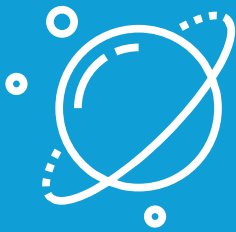
Excellent research in the natural and engineering sciences with an international reach



Contribute to a transformative, future-oriented regional development

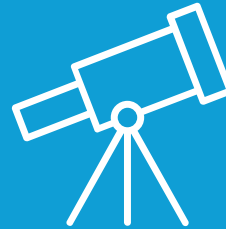
SCIENTIFIC ORIENTATION AND FOCUS

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Astrophysics

From radio astronomy with the Square Kilometre Array Observatory (SKAO) to gravitational waves



Technology development

Development of future astronomical experiments and development laboratory for the industry



Data science

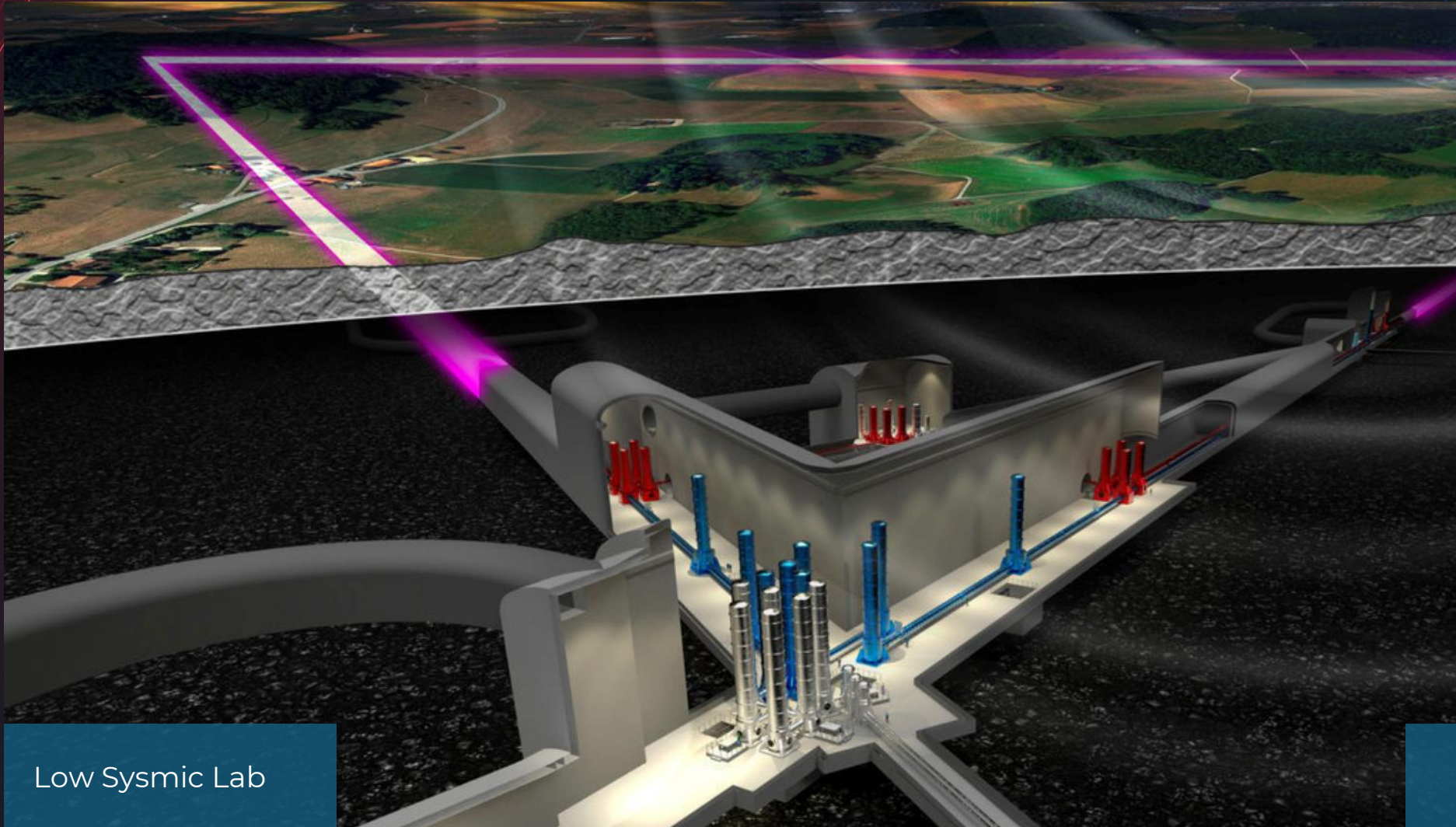
Processing huge amounts of astrophysical data from around the world, including innovative AI-based and intelligent green data processing

Centre for Innovation and Transfer

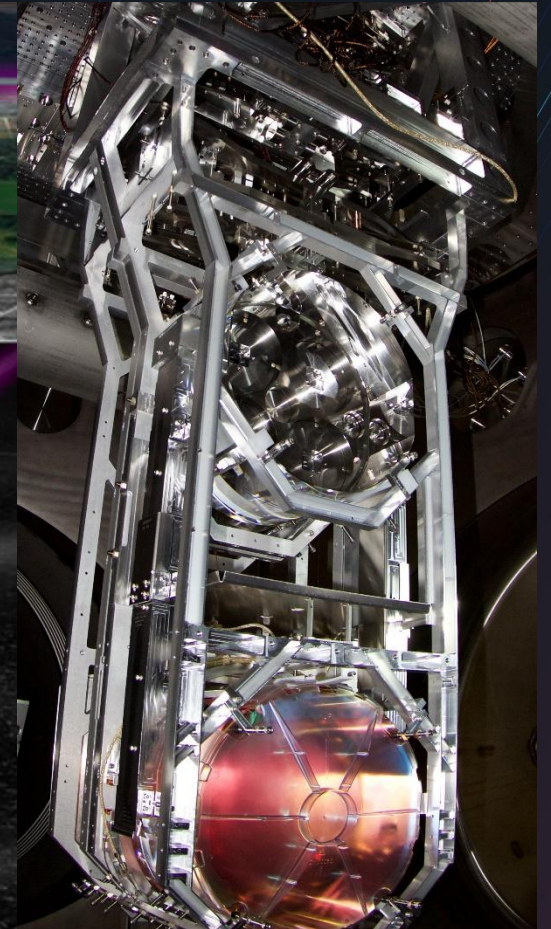
Transformation research

GRAVITATION WAVE DETECTORS OF THE FUTURE

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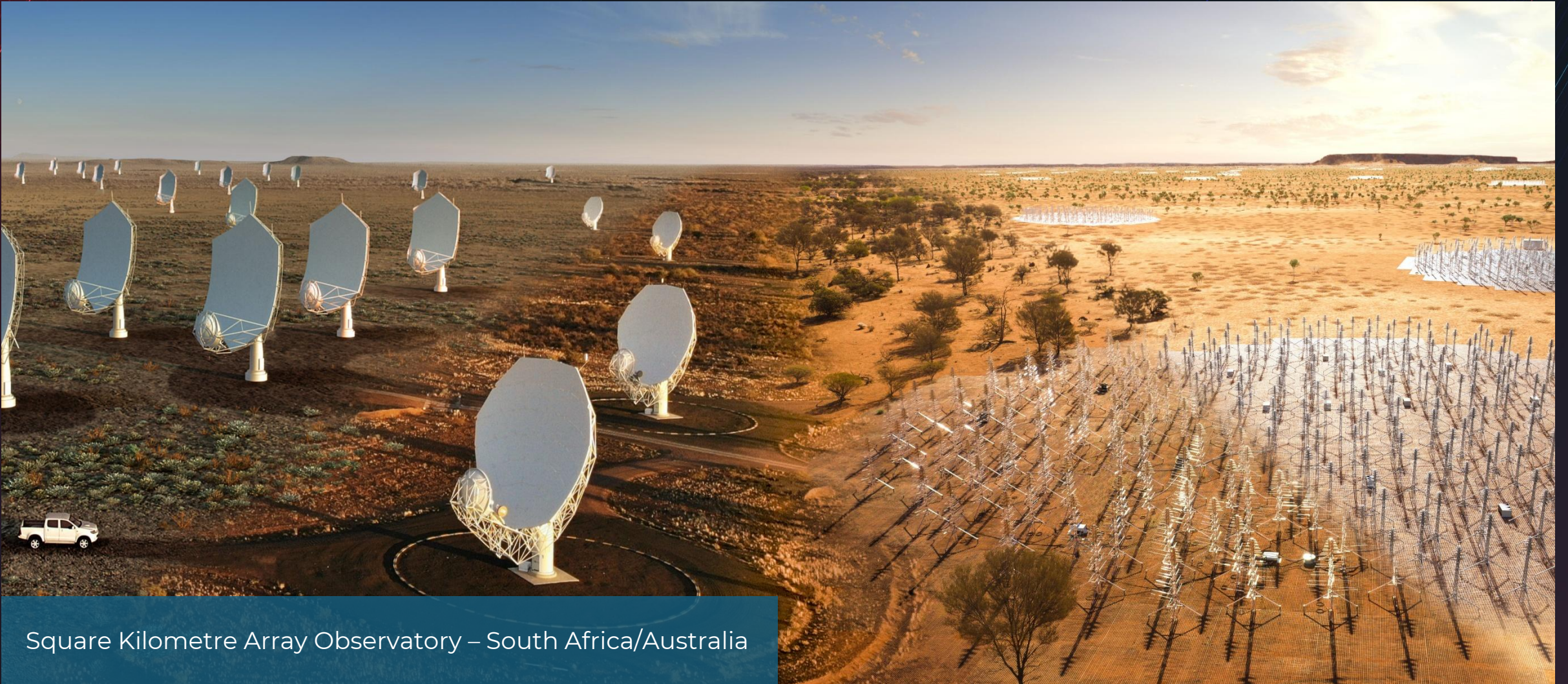
Low Sysmic Lab



Silicon mirror technology

FUTURE PROJECTS IN RADIO ASTRONOMY

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Square Kilometre Array Observatory – South Africa/Australia

TECHNOLOGY DEVELOPMENT

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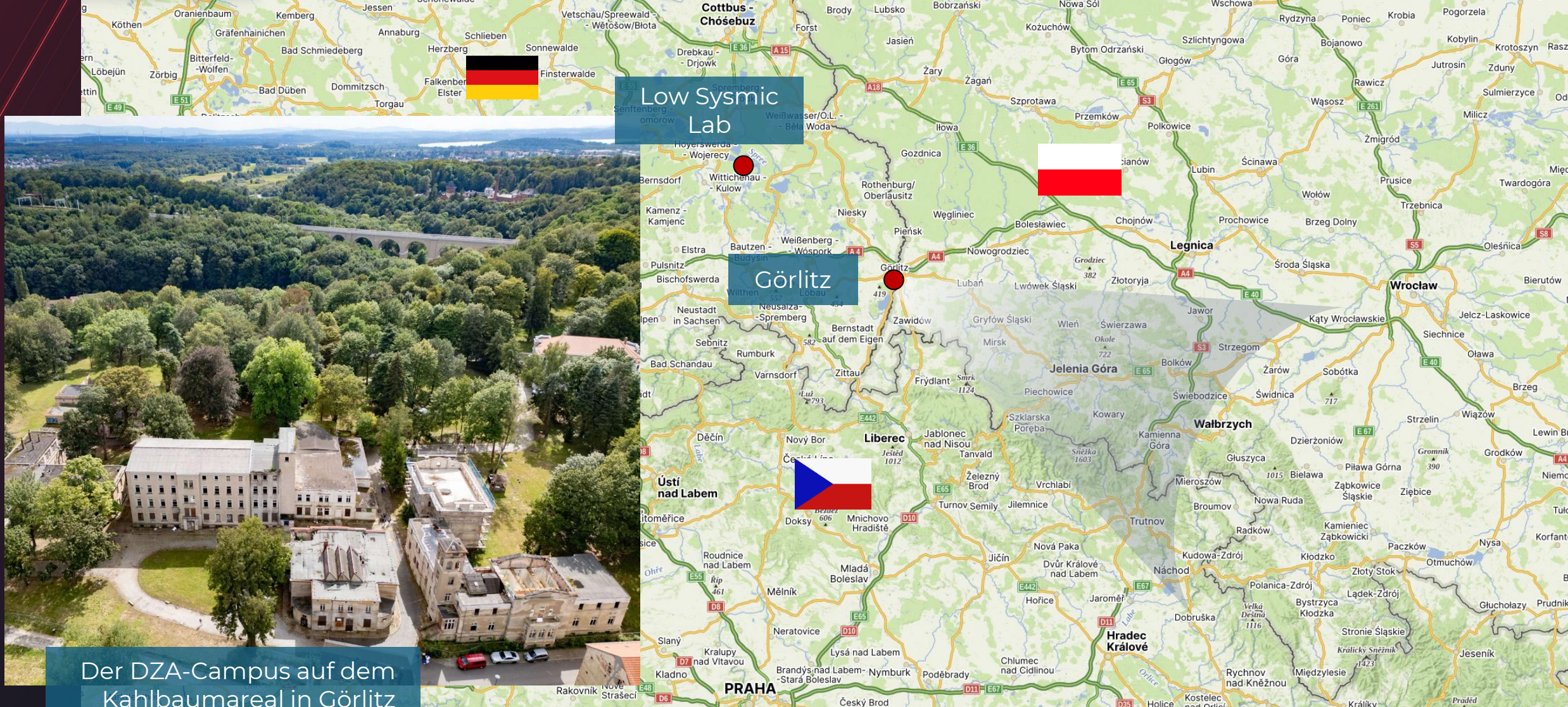


New qCMOS
detector



FUTURE DZA-CAMPUS IN GÖRLITZ: KAHLBAUM AREA

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DEVELOPMENT AND ORGANISATION

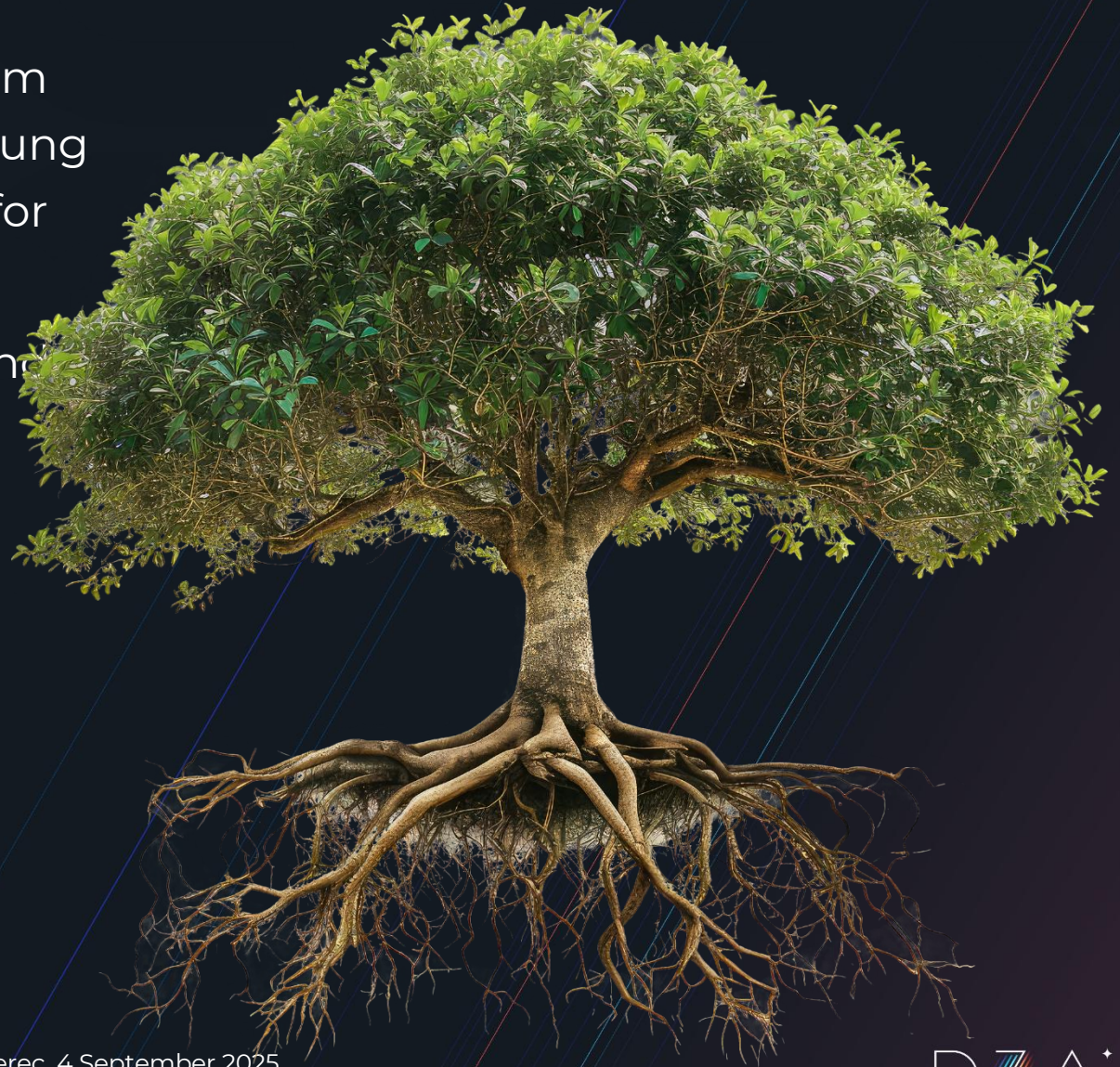
- 100 employees (August 2025)
- Gradual staff expansion to around 1,000 positions by 2038
- Strategies for recruiting, further training, and leadership development
- Focus on diversity, work-life balance, and equal opportunities
- Research support staff as a strategic strength



PROMOTE STRUCTURAL CHANGE AND TRANSFORMATION IN LAUSITZ

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- A broad regional network and local support form the basis for the DZA: transfer, promotion of young talent, recruitment of skilled workers, support for employees.
- Impetus for structural change: technological and social innovations, education, promotion of regional culture (e.g. Sorbian identity)
- Establishing a cross-border science region.



TRANSFER & REGIONAL IMPACT

- Collaboration as integral part of the strategy
- Companies : (e.g. OHB Digital Connect, Carl Zeiss, mtex), Akropol Elektronics (PL), Statotest Liberec (CZ), Radiotechnika Marketing (PL), Digital Templars (PL)
- Participation in the Polish-German-Czech Forum for Cooperation between Companies, ARR Liberec, OHK Jablonec.
- Politechnika Wroclawska, TU Breslau, TU Liberec, Karls Univeristy (Prague)
- Synergies for attracting and retaining skilled experts: guest in the ERNILAC project on the international labor market for academics (CZ/DE).



NETWORKING, EDUCATION & COMMUNICATION

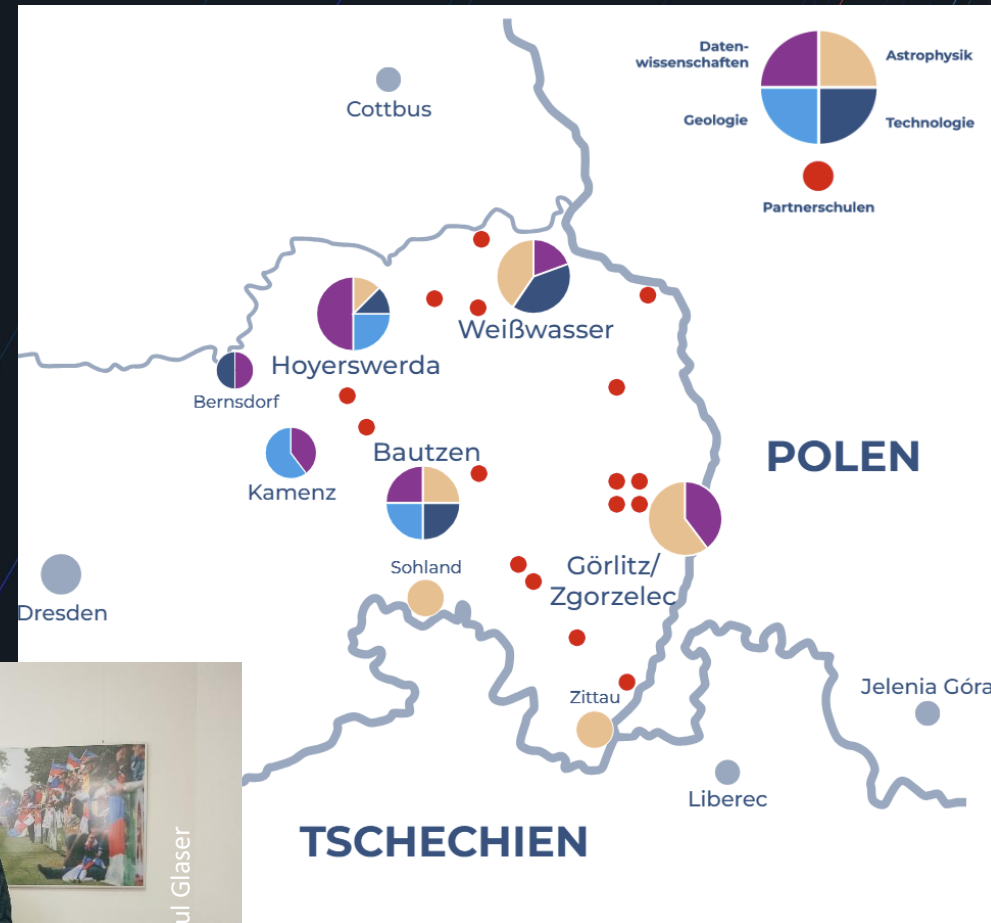
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- Inspiring young people to take an interest in STEM subjects
- Collaboration with nurseries, schools, vocational colleges and universities
- Cooperation with observatories and planetariums, as well as with regional partners from education, research and society
- Vocational training, dual study programmes, internships
- Joint chairs, new master's programmes



Deutsches Zentrum für

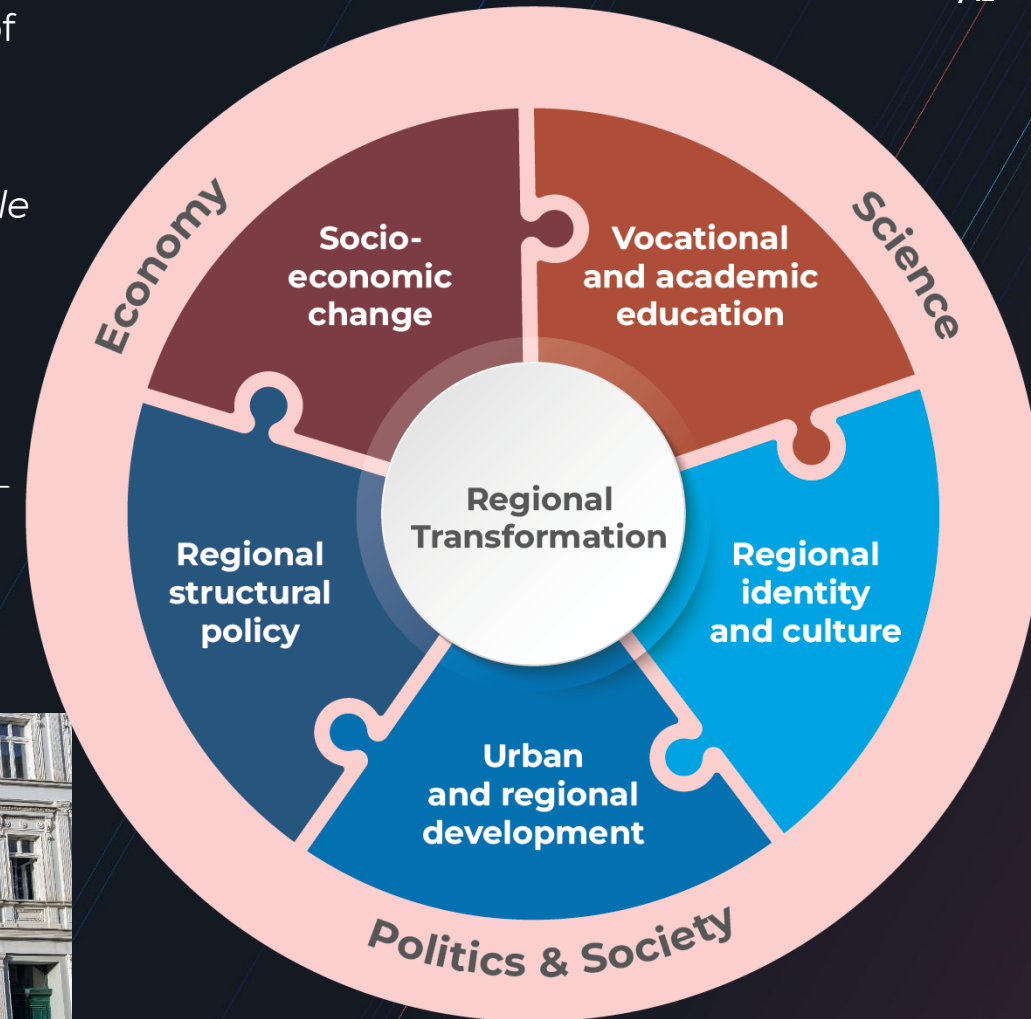
Conference



RESEARCH INTO TRANSFORMATION, HELPING TO SHAPE CHANGE

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- Scientific support and evidence-based co-design of the establishment of the DZA as a structural change project
- *How does a cutting-edge research institution relate to the lives of people in a rural, structurally weak region that is in some respects resistant to innovation, and how can the DZA and the region mutually benefit from each other's development?*
- Interdisciplinary, transdisciplinary, application-oriented, transformative – from the inside out, from the very beginning, continuously and in the long term



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DZA AND EUROREGION – COMMON GROUND

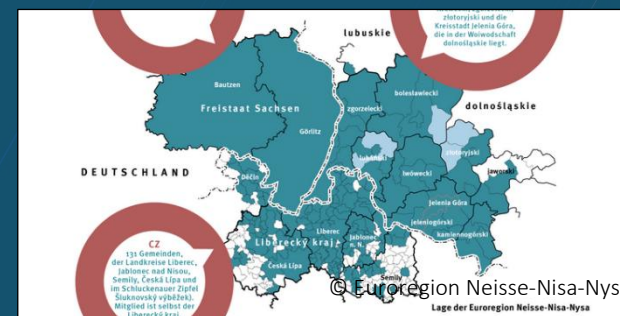
- **Research** – Scientific networking and exchange throughout the Euroregion
- **Education** – Joint activities in academic, vocational, school and extracurricular education
- **Labour** – Synergies for attracting and keeping skilled experts in a flexible labour market
- **Innovation** – Transfer of knowledge and technology, entrepreneurial and social innovation
- **Sustainability** – Activities supporting sustainable regional development and transformative capacities
- **Infrastructure** – Lobbying infrastructure development of regional and supra-regional relevance
- **Culture** – Cross-border exchange and international marketing of an attractive region



Network meeting of DZA in Wrocław, May 2024



Twin City Talk Görlitz/Zgorzelec, Nov 2024



Council meeting of the Euroregion, Dec 2024

Strategische Handlungsempfehlungen

der Euroregion
Neisse-Nisa-Nysa
2021–2027

Děkuji – Dziękuję – Danke

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