

Welcome to the 1st International Workshop on Open Research Infrastructures and Toolkits for 5G/6G R&D (OpenRIT-6G)

Breakwater Lodge, Victoria & Alfred Waterfront, Cape Town, South Africa,
19-20 March 2024, <https://openrit-6g.org/>

How it all started some 10 years ago: DAAD UNIFI Project



- **UNIFI – UNI**versities for **F**uture **I**nternet
- **UNIFI** is an initiative of the Chair of **Next Generation Networks (AV) at the Technische Universität Berlin** aiming at building sustainable teaching and research infrastructures in the areas of Future Internet through global collaboration among academic institutions.
- The initiative intends to reach its goals via enablement and empowerment of all stakeholders of academia:
- the creation and development of high quality curricula, integration and exchange of teaching personnel, students, postgraduates and researchers among the partner universities
- the creation of Competence Centers for a sustainable development and bundling of local expertise
- the creation and development of an open, general purpose, and sustainable large-scale shared Next Generation Networks Infrastructures & Future Internet Technology Experimentation and Research Facility via federation of interoperable local testbeds.
- the creation and operation of an International Multilateral Academic Network as a communication hub and motor for intercultural understanding in the international FI academic community

DAAD Project University Future Internet *Unifying Education and Testbeds around the Globe*



From 2012 to 2015



www.av-tu-berlin.de



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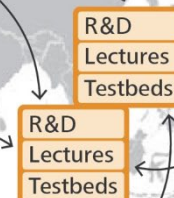
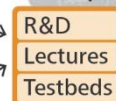
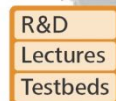
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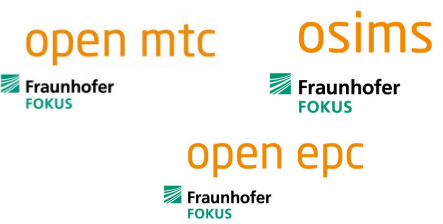
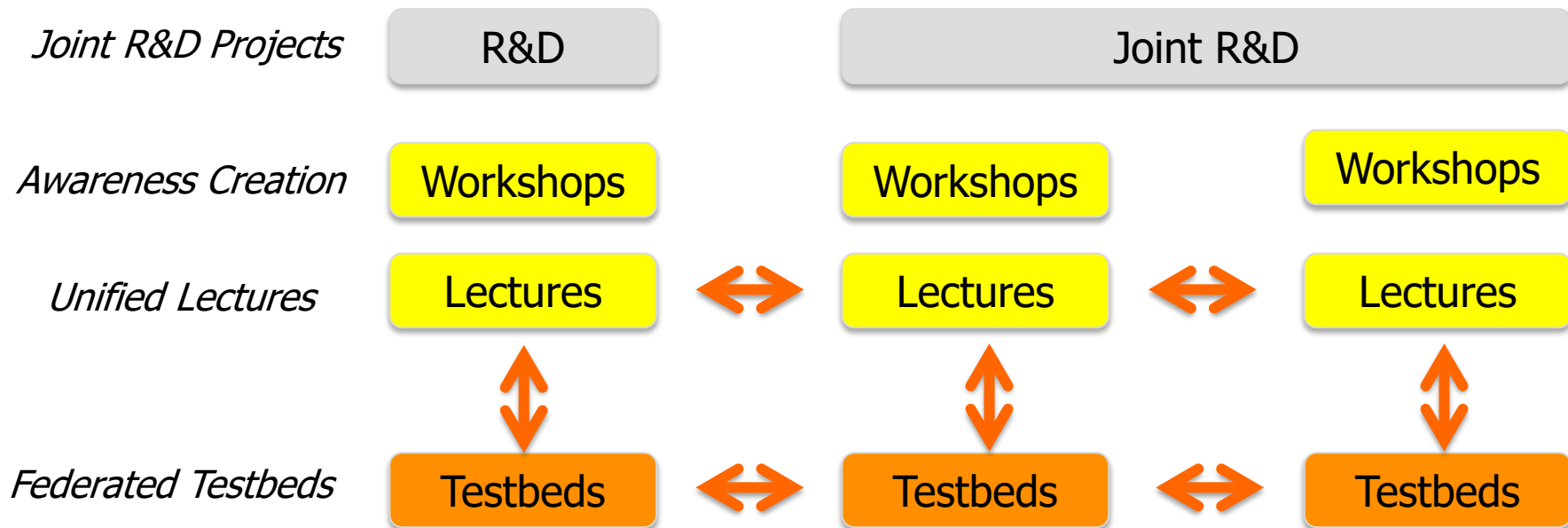
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DAAD Project University Future Internet

Unifying Education and Testbeds around the Globe



Enabled by **teagle**
A Pan-European Laboratory Project

Planned UNIFI Extension in 2015 – which did not materialize ...



But now 10 years after, we may create a new momentum with OpenRIT 6G – Open Research Infrastructures and Tools for 6G

- In UNIFI we were looking at 4G, IMS and MTC in the context of emerging smart cities
- In the meantime we have seen 5G rising and globally we are researching on 6G
- Looking at the 6G main drivers, 6G should be the network for all
- Highly customized to local needs, enabling digital sovereignty, sustainability
- Based on the lessons learned with 5G we believe we need an OPEN 6G
- OPEN to allow every researcher early access to emerging 6G to shape this technology for the local needs
- Let's transfer the UNIFI Mission into 6G!
- Let's look for open and open source toolkits to build vendor independent open 6G testbeds
- Let's cooperate among universities around the globe to join forces by interconnecting testbeds, enabling joint R&D projects
- Today we **kickoff OpenRIT-6G** and we are proud to have here delegates from three UNIFI founding members, namely Germany, South Africa, Chile, plus universities from US, Japan, Korea, France, and Finland
- Let's brainstorm and enjoy these days

OpenRIT – 6G – A wish list for this Workshop

- **There is no intention to define a mega multi continental project!**
- But we can identify joint or peer to peer research & development interests
 - We can start right away (e.g. as TU Berlin and UCT did long ago)
- This could be the basis for joint projects funding bigger activities

- We may create a global initiative, which could be supported by several workshops & conferences and national and international initiatives & projects
 - National 6G initiatives (e.g. the German 6G Platform, etc)
 - National flagship projects (e.g. Open6GHub, etc)
 - International cooperation projects (e.g. Germany-Japan, EU-Africa, etc)

- We may identify next meeting locations and define new joint workshops
- Not all partners need to join and we may create / utilize regional events to meet
 - FOKUS FUSECO Forum in Berlin
 - IEEE Globecom OpenRIT-6G Workshop (submitted last week)
 - OpenRIT-6G Asia, OpenRIT-6G US, OpenRIT-6G Europe,

OpenRIT – 6G – Enjoy the next days among friends

- Life is short
- It is all about meeting nice people at nice places to move things ahead
- Enjoy Cape Town

Serge, Manu, Joyce, Bessie, and Thomas
