SNS-JU Brokerage Event 2025 - our offer for Stream B

Adam Flizikowski (Senior Research Executive)
a.flizikowskis@is-wireless.com

Our mission:

To become global provider of software-defined 4G, 5G and 6G mobile networks supporting more users with better performance at lower cost by applying cutting edge proprietary technologies

Date:11.12.2025

IS-Wireless (ISRD Sp. z o.o.)

- In business since 2006
- 100% polish, high tech
- Global recognition

- IS-Wireless is a top European Deep Tech Innovator with 10+ patents, a proud holder of EIC Seal of Excellence, NATO DIANA Innovator with offices in **Poland** and the **Netherlands**.

- IS-Wireless is delivering ultra-resilient, secure and efficient 5G/6G networks

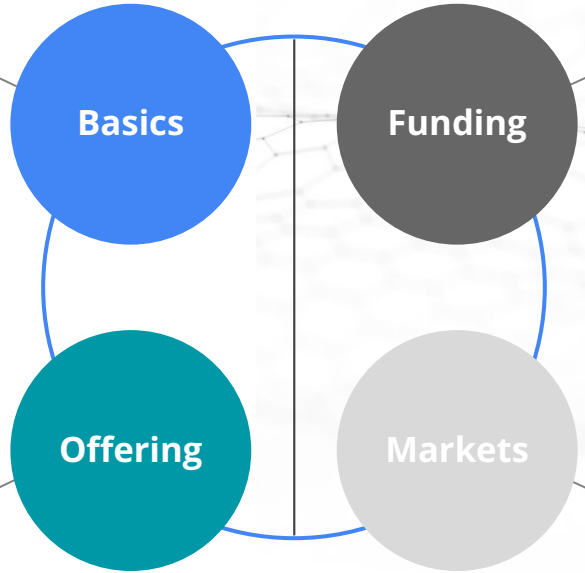
- We participate in multiple **6G projects (EC, SNS JU, Dutch)**: FNS, 6G-SANDBOX, 6G-BRICKS (as well as 5G projects)
- Total **30+ EU-funded** projects so far (e.g. HE, SNS, Chips JU, CELTIC)

http://is-wireless.com/research

Company facts

Hi-tech company

Founded in 2006, based in Piaseczno/Warsaw Poland



Diversified financing

Sales, EU and PL R&D projects, VC

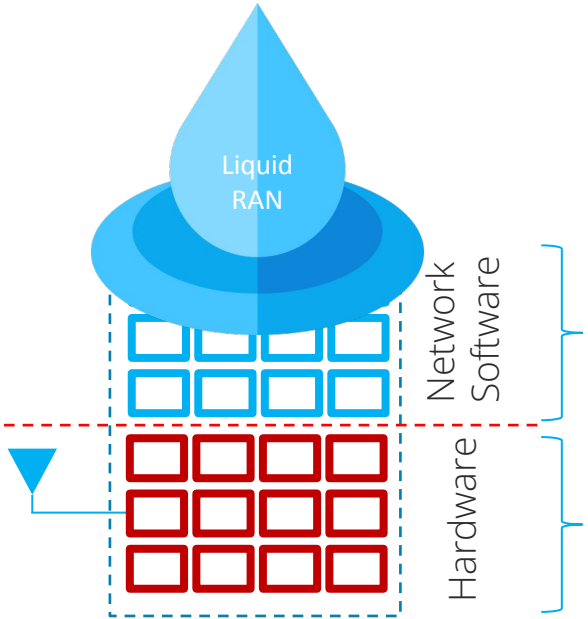
5G and 6G Networks

Covering entire value chain for RAN and Core including software and hardware

Private networks, mission-critical and public networks

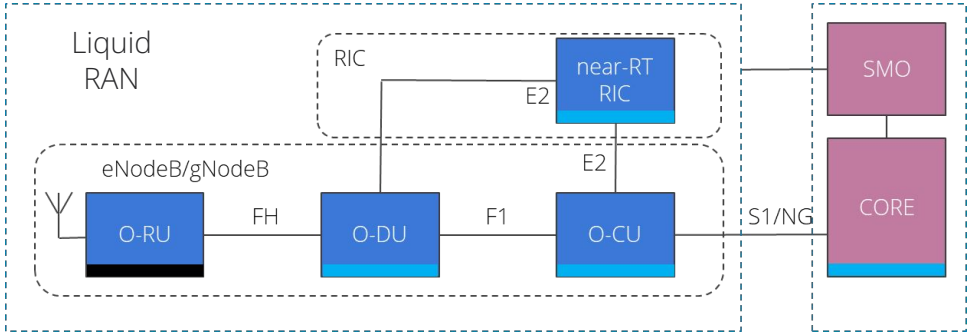
All players who need networks that are of high capacity, fast deployable and with low cost of GB delivery

IS-Wireless solution



We expect 40%+ further cost savings when compared to Open RAN thanks to efficient use of computing and spectrum in **Liquid RAN**

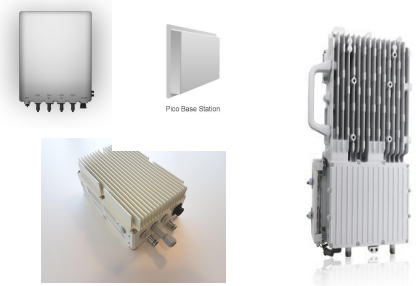
All software-based network functionality: 5G, 6G ready



VM

docker

kubernetes



RU **hardware** (various form factors, bands, bandwidths, TX power)

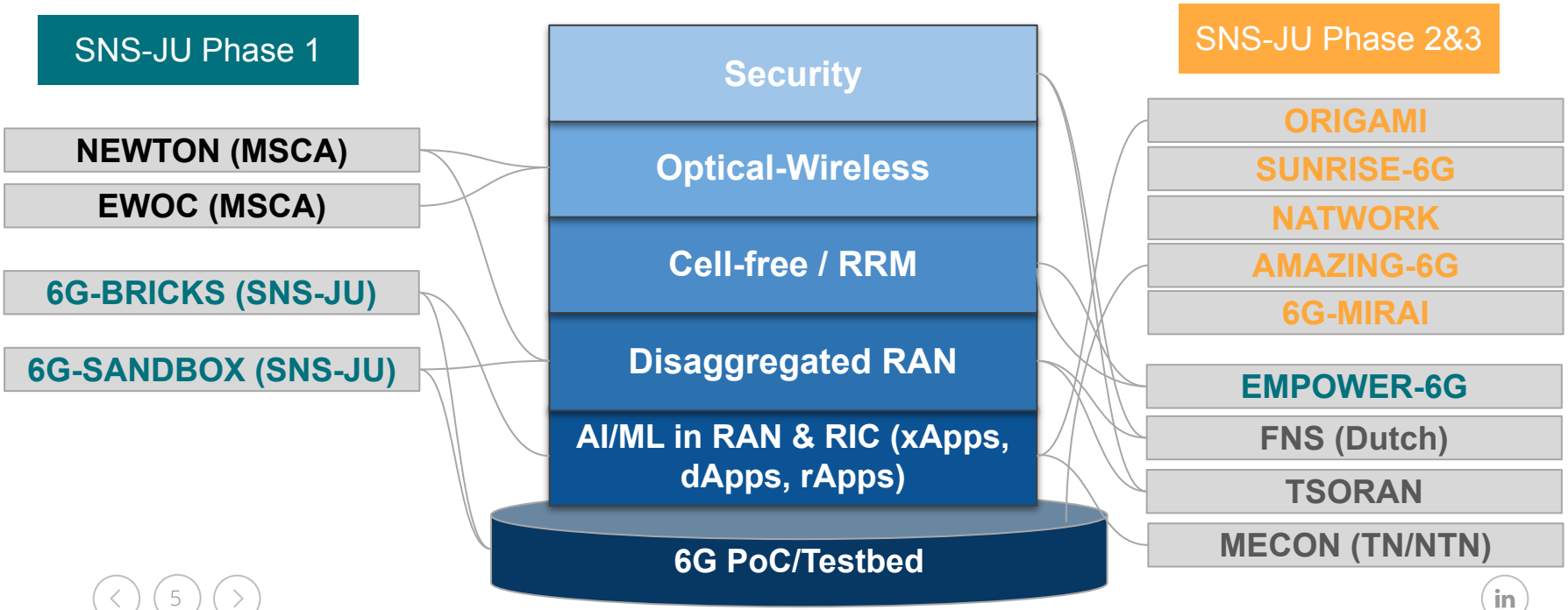
Computing **hardware** (various chipsets) / shared resources (cloud/EDGE) / accelerators

All COTS hardware

Current research project involvement related to 5G/6G

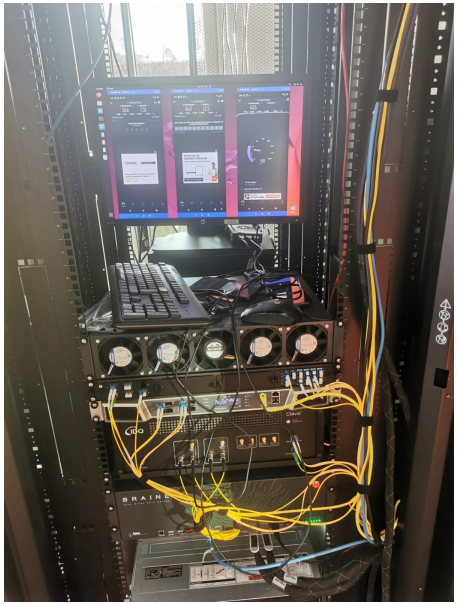
Member → 6G SNS IA

ca. 30 R&D projects (2012-today) with recently acquired 6G-projects

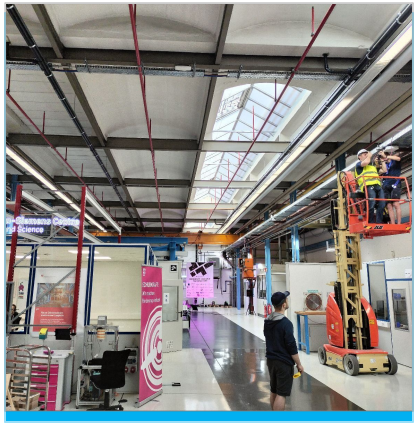


Sample deployments of 5G

Complete 4G or 5G network in a box (RAN+Core) with MC applications (e.g., PTT)



BRAINE project demo at TUE/NL: full 5G with RIC, xApps + QKD + EMDC (Nov'23)



Berlin CampusDynA consortium (OSRAM, T-Systems, Gestalt Robotics, Fraunhofer): 5G SA 3.6 GHz RAN+Core+xAPPs, control of robots

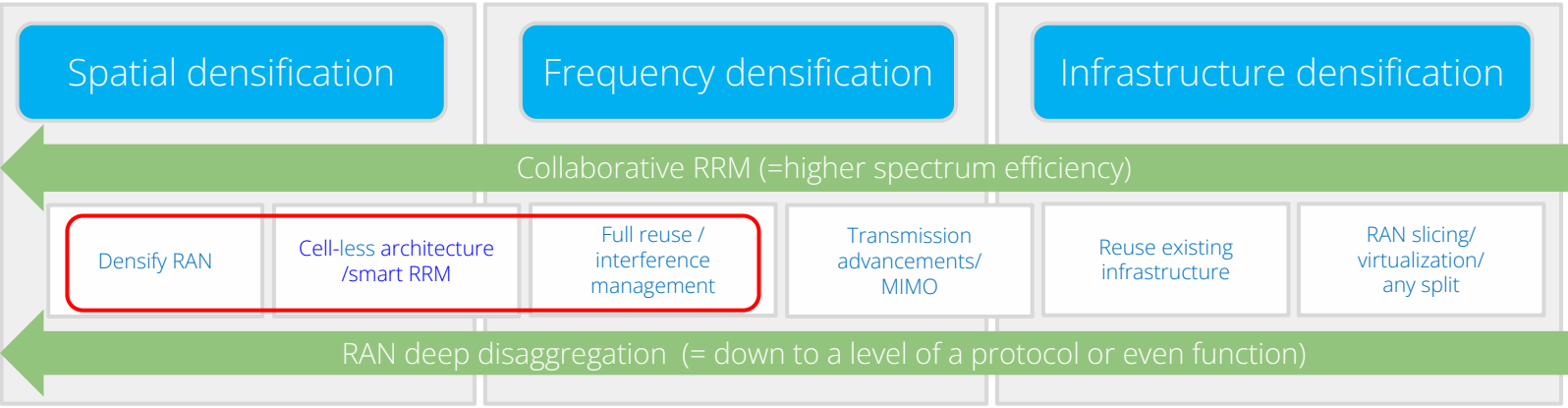
5G RAN including RIC tested under various interoperability conditions in Sonic Lab, London

We are open to collaborate to deliver winning 6G projects

1. Solutions supporting densification will be crucial for 6G, combined with: energy efficiency, positioning and Digital Twins
    - our pillars: disaggregation beyond ORAN, cooperative RRM, security (ZTA, orchest) + AI/ML
2. EU leading **SME**, **ORAN 5G vendor** + **SNS JU member + NATO DIANA** accredited SME
    - testbed provider: private 5G, RIC/xApps
    - contributor to e.g.: 6G-SANDBOX, 6G-BRICKS, SUNRISE-6G, FNS-6G (Dutch)
    - good collaboration with operators (multiple in EU) - also strong relation with Telekom Malaysia (use-case provider, validation of 6G use-cases)
3. Top score in 6G EU-research in Poland / in total **almost 30 EU funded** projects (since 2012)
4. Product innovation oriented research
    - dedicated team of 10xPhDs
    - regular participation to Globecom, EuCNC (**best paper award 2024**), MWC
    - SW house on board, strong grip on 3GPP/ORAN specs

www.is-wireless.com/research

Liquid RAN™ enables 6G-ready resource management



Needs, prior to market entry:

- comprehensive research & identify solutions (funded) for interference management and collaborative RRM
- strong collaboration
- testbeds
- IPR funding

Collaborative research funding leverage helps

LiquidRAN benefits and potential:

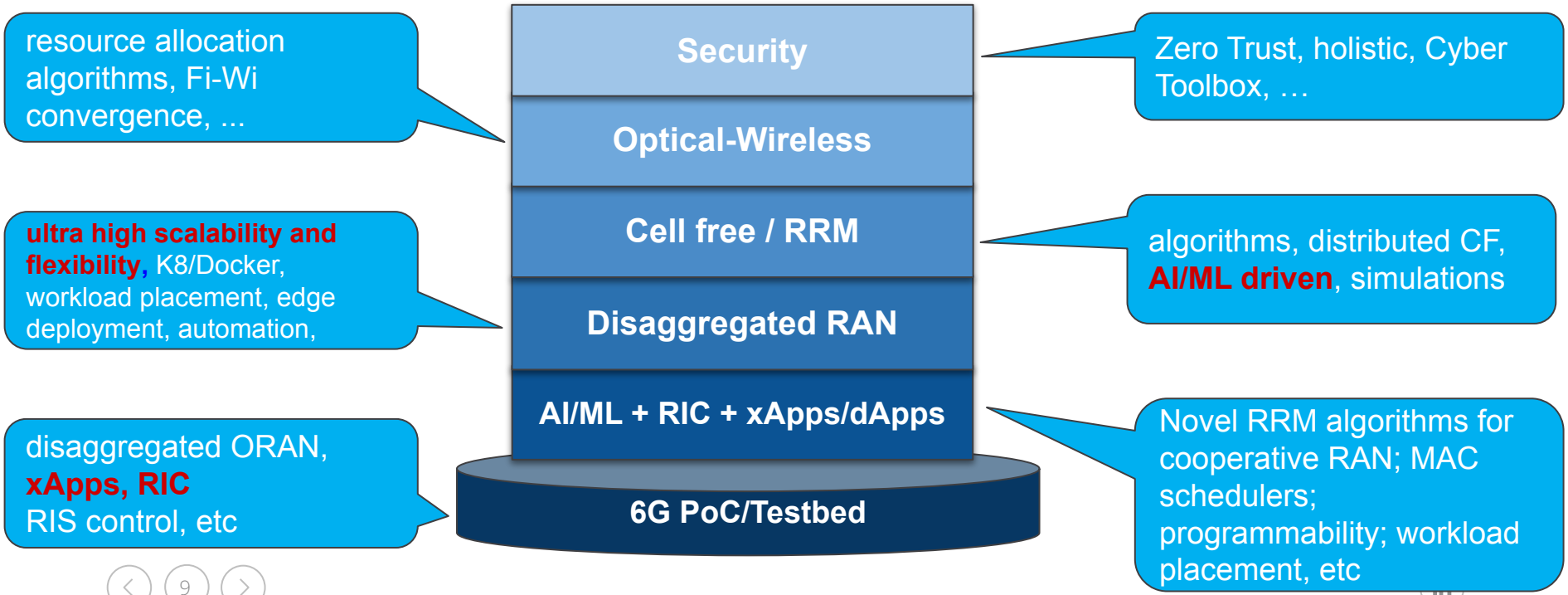
- 100x higher capacity increase
- 10x higher energy efficiency
- 10x higher URLLC reliability
- 40%+ lower TCO
- Various combinations of RU/DU/CU functionalities driving the cost down even further
- Ease of network rollout (strong alternative to Ethernet)
- Allow for use of shared cloud and Edge-resources

Enabling Technology

IS-Wireless competences for SNS-JU calls

Our interest in SNS:

- Stream B - TRL2-5 - PoC/Testbed



Thank you!

Contact us

Adam Flizikowski, Head of R&I (a.flizikowski@is-wireless.com)
Arifur Rahman, Lead Researcher (a.rahman@is-wireless.com)
Munjure Mowla, Expert R&I Engineer (m.mowla@is-wireless.com)

IS-Wireless
Puławska 45b
05-500 Piaseczno/near Warsaw
POLAND
info@is-wireless.com