

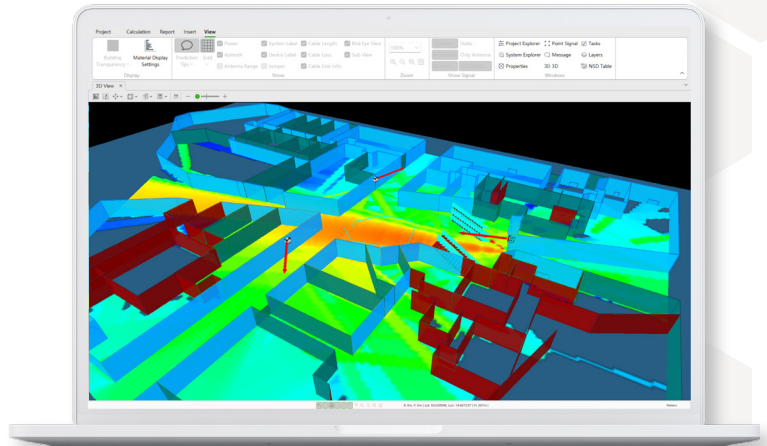
## Ranplan Academic

Empowering Research and Education  
in Wireless Channels and Technologies

# Empowering Research and Education in Wireless Channels and Technologies

Ranplan Academic is built on the industry-leading software, Ranplan Professional, trusted by the world's top network vendors, operators, and enterprises worldwide.

Designed specifically for academic environments, it empowers students, researchers, and research faculty to leverage the powerful digital twin environment to explore end-to-end wireless network system design and conduct advance radio channel simulations across all wireless technologies, including 5G, IoT, and the evolution toward 6G.



## Built for Academia

Designed to support University teaching and research in wireless channel propagation and analysis.



## Advanced Wireless Tools

Model realistic devices and evaluate network simulations using professional-grade software.



## Emerging Technologies

Explore 5G, 6G, Massive MIMO, RIS, and more with add-on research-ready capabilities.

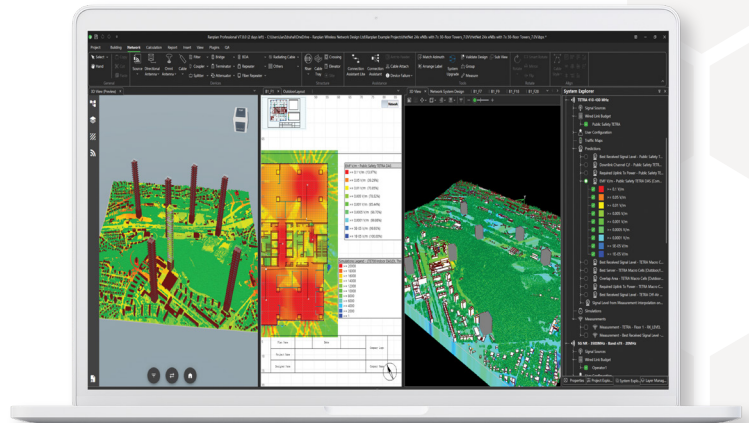




# Professional Tools for Future Wireless Experts

## Model Wireless Scenarios

Ranplan Academic enables realistic modeling of indoor and outdoor environments—from campus buildings to smart cities—using GIS, CAD, and BIM data. Researchers can simulate wireless propagation across frequencies from 300 MHz to sub-THz, using high-precision ray-tracing and ray-launching propagation engine. This provides a robust digital twin environment for exploring how wireless systems behave under varying conditions, enabling reproducible results and scenario comparisons for academic studies.

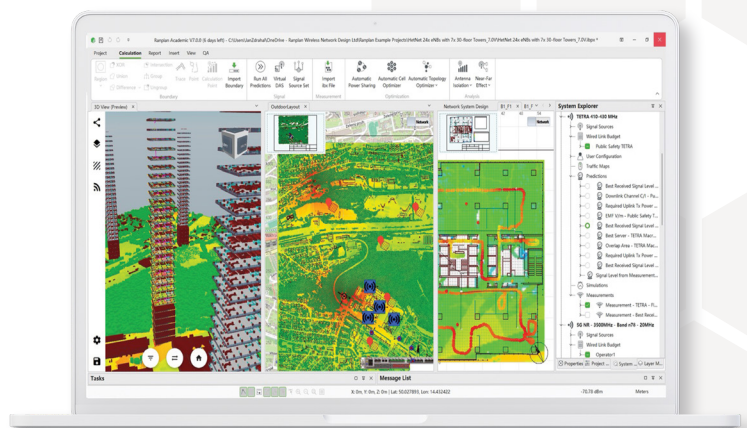


## Advance Research into Future Wireless Technologies

Designed for rigorous academic exploration, Ranplan Academic supports research into 5G, IoT and emerging 6G technologies. Generate high-quality datasets for AI/ML training tasks like channel estimation and beam selection. Optional research modules extend capabilities for advanced 6G investigations, allowing researchers to test the modelled devices within various scenarios to identify unknown propagation behaviour.

## Bridge Theory and Practice with Simulation

Strengthen academic learning through practical, simulation-based investigation of wireless system performance. Explore latency, interference, antenna design, capacity, and quality of service under realistic network loads. Ranplan Academic integrates with wider research workflows and tools, making it ideal for postgraduate teaching, PhD projects, and collaborative academic research into next-generation wireless communications.



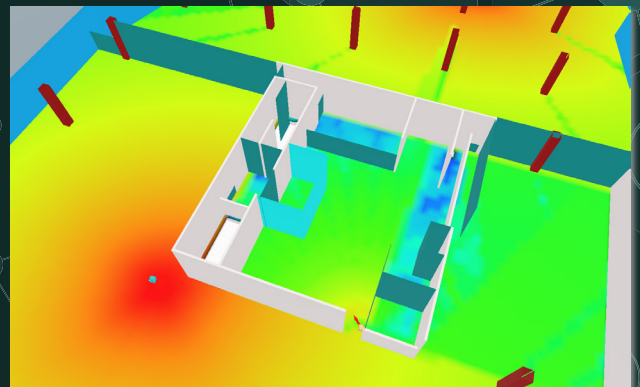
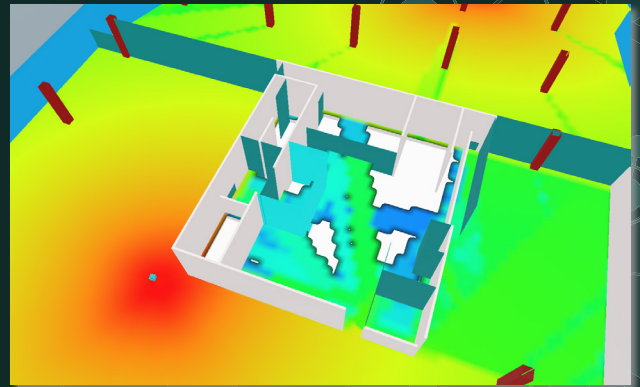
# Looking to take your research further?

## Ask us about our Research Modules

Designed for academics, engineers, and innovators aiming to push the boundaries of wireless network research, our Research Modules offer advanced capabilities that extend the core software.

- Investigate cutting-edge wireless technologies such as Reconfigurable Intelligent Surfaces (RIS).
- Explore advanced massive MIMO configurations and their impact on network performance.
- Simulate novel use cases and architectures with customizable parameters.
- Generate multipath datasets supporting AI/ML algorithm development and validation in emerging wireless domains.
- Seamlessly integrate with academic workflows for robust, reproducible research that can support publications and grant proposals.

Whether you're advancing theoretical models or testing practical implementations, our Research Modules provide the flexibility and power needed to accelerate innovation in wireless systems.



## About Ranplan Wireless

Ranplan Wireless pioneer software solutions for the design, optimization and simulation of in-building and urban outdoor wireless networks. Our open platform, intelligent automation and 3D ray-tracing simulations streamline the network planning process, expertly identifying potential issues and optimizing network performance for reliable connectivity. This results in an unparalleled quality of service, ensuring seamless and efficient wireless communication for end-users and businesses.

Ranplan Wireless is a subsidiary of Ranplan Group AB (Nasdaq First North: RPLAN) whose head office is in Stockholm, Sweden. The group operates out of offices in the UK, USA and China.

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