

IRANATA

Interference and RAdiation in Network PlAnning of 5G AcTive Antenna Systems

15.01.2021 - 14.11.2023

@ Luxembourg Kirchberg

IRANATA investigates one of 5G's key technologies: Active Antenna Systems (AAS). Classic 4G antenna systems work by transmitting the signal via continuous wide beams. 5G active antenna systems focus on the transmission of dedicated signals through beams directed solely at the mobile user. The main purpose of the project is to ensure that radiation levels from the 5G AAS will remain at acceptable levels while optimizing network coverage. To achieve this goal, the project's industrial research combines software simulations, laboratory pilots and over-the-air measurements with drones.

For more information, visit [the project website](#) or view the [5G & me video](#).

Coordinator



With contributions from



proximus

Co-funders



THE GOVERNMENT
OF THE GRAND DUCHY OF LUXEMBOURG
Ministry of State

Department of Media, Connectivity
and Digital Policy



digital
luxembourg
innovative initiatives.