infovista

DATASHEET

Planet

Deliver accurate and efficient wireless network designs with the world's first AI-powered RF planning solution

Intelligently plan and optimize 2G, 3G, 4G and 5G networks with Planet's powerful capabilities

With Planet, planning engineers can deliver higher quality radio network designs within the ever-tighter budgets and shorter deadlines demanded by the business. 3D simulation technologies, underpinned by machine learning and multiple live data sources, help you create more accurate designs. While comprehensive what-if scenario planning ensures maximum return on CAPEX investments and automation of planning tasks increases engineering efficiency, reducing the time-to-market of new designs..

Why Planet?

Accelerate your 5G roll-out

With automatic site selection, advanced AI-driven propagation modeling, native 3D planning and support for mmWave, latency, MIMO and more.

Improve your RF propagation modeling

Enhance accuracy without the need for extensive calibration thanks to machine learning from AIM, Planet's AI-driven 3D propagation model.

Automate for improved productivity

Automate repetitive tasks to free up engineer time and integrate across business silos via open APIs to drive productivity.

Maximize insights with external data sources

Leverage open APIs to build customized services and integrate with 3rd party data and applications to create value-added use cases.

Optimize your network CAPEX ROI

Determine your optimal network design based on network performance and quality targets as well as revenue and cost metrics with Planet ACP.

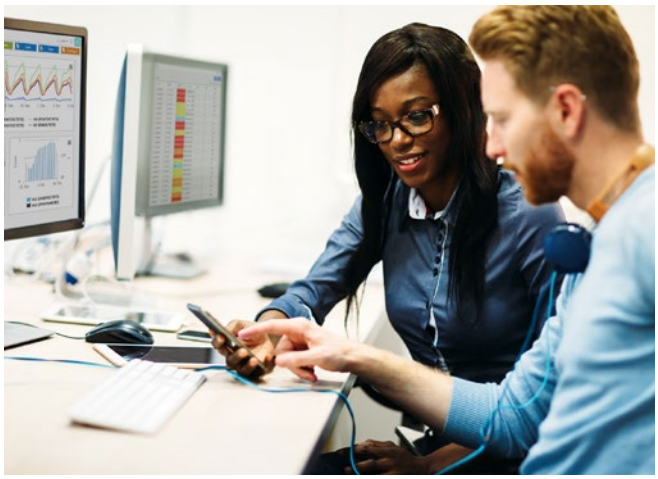
Identify and resolve service quality issues faster

Troubleshoot subscriber experience problems down to Layer 3 messages via live network call trace recording analysis in Planet Call Analytics.

Use cases

5G network planning

5G employs radically new technologies like massive MIMO and flexible numerology, as well as new bands like sub-6 and mmWave. Planet has been developed to support 5G NR use cases like eMBB, FWA or URLLC, and complies with the latest 3GPP standards. With true 3D planning capabilities, Planet helps your engineers to make the right design and optimization decisions. By simplifying the design and evolution of complex 4G/5G networks, Planet helps you to transition to 5G faster and at a lower cost.



Network planning in 3D

In many cities, 70-80% of mobile broadband traffic comes from indoor locations. This means the subscribers are not necessarily at ground level, making traditional 2D planning ineffective. It is therefore critical to be able to plan your network in 3D. Planet natively supports 3D planning and optimization with support for high-resolution 3D geodata including building and vegetation vectors, 3D propagation models with ray-launching, 3D traffic maps, 3D beamforming analysis and 3D site-selection.

Data-driven network planning

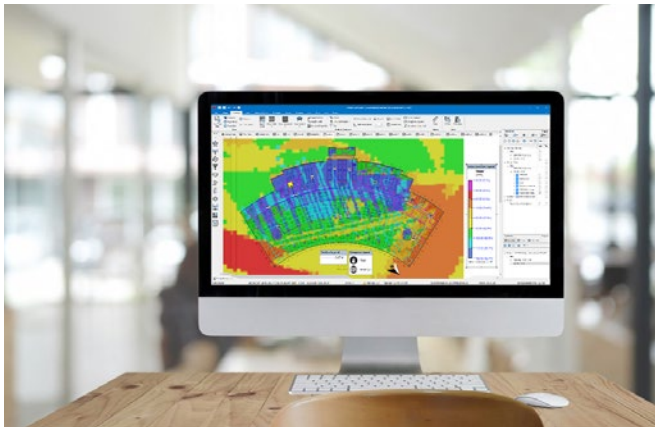
Planet allows you to combine live network measurements including crowdsourced data and call traces with predictions, to connect your plans with reality and ultimately improve the accuracy of your planning and optimization. With seamless integration of call trace data and direct access to crowdsourced data, your engineers have an unprecedented level of geolocated insights into mobile subscribers' behavior and coverage experience directly inside their planning solution.

ROI focused network planning

The Planet ACP module allows you to quickly create and evaluate network upgrade scenarios such as 5G overlay or 4G capacity expansion. It includes automated site placement capabilities to perform dimensioning and initial planning of new wireless networks, geographical expansions, or technology overlays like 5G rollout scenarios. In addition to performance KPIs, Planet ACP can consider revenue, time-to-market, and total cost of ownership models for a plan that balances ROI and performance.

Unified indoor/outdoor planning

Planet offers seamless integration with the world leading in-building RF design solution from iBwave. The integrated solution enables unification of indoor and surrounding outdoor network RF design activities. With it, you can automatically pull RF prediction data generated by Planet into iBwave Design for greater indoor prediction accuracy, as well as send indoor prediction information to Planet to greatly improve RF designs for campus outdoor environments.

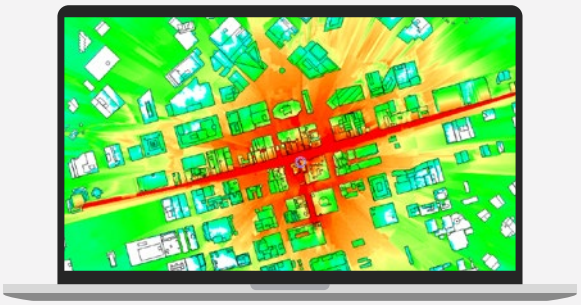


Strategic mobile network planning

Whether you are looking to deploy a greenfield network, a technology overlay such as 5G, or just expanding your existing network, there are many different approaches you could take. Strategic RAN planning helps establish the cost vs. benefit of various scenarios to meet your business objectives. Planet's what-if scenario planning and unmatched post-processing analysis of simulations helps you determine the best solution from both a network performance and a cost standpoint.

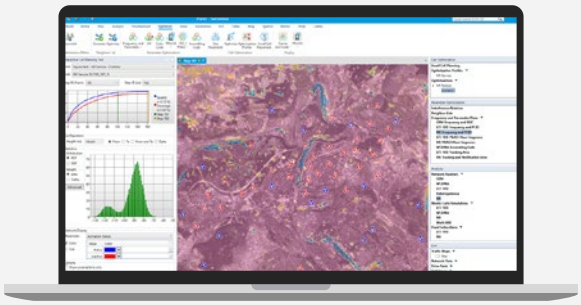
Customize Planet to meet your needs

Planet can be customized with a number of add-on modules to meet your specific business needs. Some of these modules include



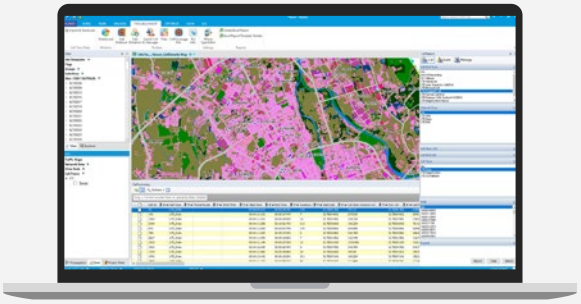
Planet AIM

Improve your RF simulation accuracy with the world's first AI-powered RF propagation model. With Planet AIM, you can execute wireless planning tasks faster, delivering highly accurate network plans and ensuring your radio network performs as intended when built.



Planet ACP

Accelerate your network planning and optimization with automated site placement and cell planning. Planet ACP helps you to determine the optimal network design based on performance, time to market and total cost of ownership targets.



Planet Call Analytics

Resolve VIP quality of service escalations by troubleshooting subscriber experience problems down to Layer 3 messages. Planet Call Analytics allows you to quickly assess subscriber experience, locate network problems and resolve RF issues.

Planet Crowdsource

Connect your plans with reality and enable more informed planning. With Planet Crowdsource you have an unprecedented level of geolocated insights into mobile subscribers' behavior and coverage experience directly inside Planet.

Part of the Infovista Planet Suite for RAN planning and optimization

Deliver the best wireless network with end-to-end RAN planning and optimization

Planet Suite is our portfolio of solutions to address every aspect of planning and optimizing your RAN network whether it be just 5G, or a combination of multiple technologies. Leveraging decades of expertise in radio and backhaul network modeling and underpinned by extensive automation, 3D simulations and machine learning, the Planet Suite helps you to deliver the best wireless network - one that reliably provides the exceptional subscriber experience for the possible lowest cost.

THE PLANET SUITE

Planet

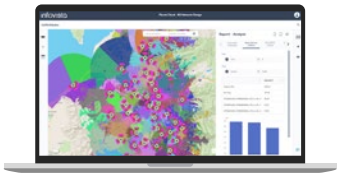
RF planning and optimization

Increase radio design accuracy and accelerate 5G network roll-out

Planet Cloud

Cloud-based RF planning and optimization

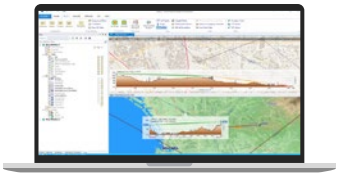
Adopt cloud-native planning for performance, scalability and efficiency



Ellipse

Backhaul planning and optimization

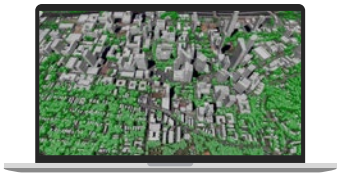
Design backhaul network topologies, capacity and latency to support 5G



Geodata

Maps for wireless network design

Accurately model your wireless network with modern geodata sets



Why choose the Planet Suite?

Leverage Machine Learning to improve propagation accuracy with AIM, Planet's AI-driven 3D propagation model.

Automate and integrate easily via open APIs, removing repetitive tasks from engineers and benefitting from cross-departmental collaboration.

Base your network planning on real-world data insights from external data sources including crowdsourced data for improved accuracy.

Optimize your network CAPEX return on investment by considering revenue and cost metrics when determining the optimal network design.

Accurately dimension your backhaul network based on least-cost routing, capacity assessments and fiber vs. microwave feasibility.

Ensure an accurate baseline from which to plan with our best-in-class geodata, designed and validated specifically for RF planning.

About Infovista

Infovista is the global leader in network lifecycle automation (NLA) for the next-gen networks era. With its unique NLA approach, Infovista allows communications service providers (CSPs) and enterprises to improve their network performance and customer experience, optimize their productivity, and reduce their costs, while maximizing return on their investments. Spanning the entire network lifecycle, Infovista's products and solutions leverage an open, integrated, cloud native portfolio that automates tasks, flows, analytics, and decisions to the greatest extent possible. More than 1,000 customers, including 400 Mobile Network Operators, around the world rely on Infovista to plan, design, deploy, test, operate, support, optimize, evolve, report on and monetize their networks.

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