infovista

Planet Cloud

Scale and automate your radio planning, improve radio network design efficiency and roll out next generation networks faster

Cloud-based RF planning and optimization leveraging a next generation use case-centric approach

Planet Cloud is a cloud-native radio planning solution, powered by AI, that enables you to quickly scale, integrate, optimize and automate your radio planning.

Planet Cloud provides you with use case-centric radio planning capabilities at scale, enabling higher quality radio network designs, faster roll-out of modern networks and, ultimately, improved network CAPEX and OPEX efficiency. Its cloud-native approach ensures high availability, openness, interoperability and dynamic scalability, allowing you to not only have detailed insights into your nationwide network but also to integrate network planning into other workflows throughout the network lifecycle.

Why Planet Cloud?

Leverage use case-centric workflows

Remove the complexity often associated with RF planning applications via use case specific user interfaces including one for 5G network planning.

Scale your RF planning

Elastically scale your RF planning to support nationwide use cases and leverage cloud compute power for faster what-if scenario planning.

Automate radio planning workflows

Integrate with external data sources to enable automation of previously manual tasks such as regulatory conformance checks during design exercises.

Enable added value use cases

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

Benefit from cloud-native reliability

Achieve the best-in-class availability, disaster recovery and observability required from a business-critical tool with our cloud native approach.

Choose your deployment approach

Deploy into any public, private or hybrid cloud with a 100% Linux compatible solution on an industry standard Kubernetes cluster.

Use cases

Use case-centric workflows

Planet Cloud provides web UIs specifically tailored to end user workflows, removing the complexity often involved with RF planning applications. These UIs also extend the usefulness of Planet Cloud to other parts of the organization such as forecast reporting to the Cx0, or coverage and availability mapping for Customer Support teams. Being cloud-native with true core microservices allows for local customization of user control and datasets presented for each use case or job role.
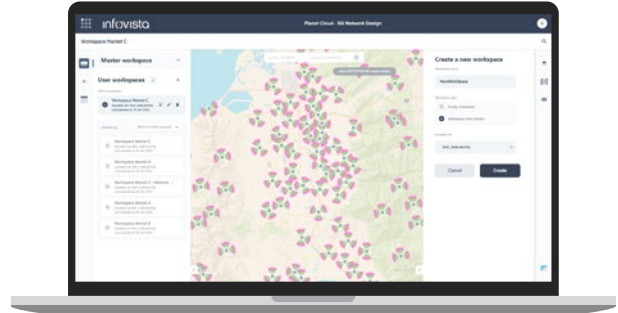
Network-wide visualization and KPIs

Planet Cloud excels at accurately modeling the network so you can benefit from an optimal return on investment across your entire deployed network. It leverages horizontal scalability, not only for cell-level predictions but also networkwide coverage/interference/throughput plots and multi-level statistics from cell to market to national or any combination thereof. It benefits from resource autoscaling to scale reliably and support any geographical reporting requirement.

Nationwide coverage automated optimization

Planet Cloud supports continuous optimization, and site selection for new technology deployments (such as 5G NR) across your entire network. Making use of cloud-native elastic horizontal scalability enables nationwide site selection scenarios, particularly in the context of CAPEX optimization. The cloud-native architecture benefits from resource autoscaling to scale reliably, offering unparalleled scale and automation.
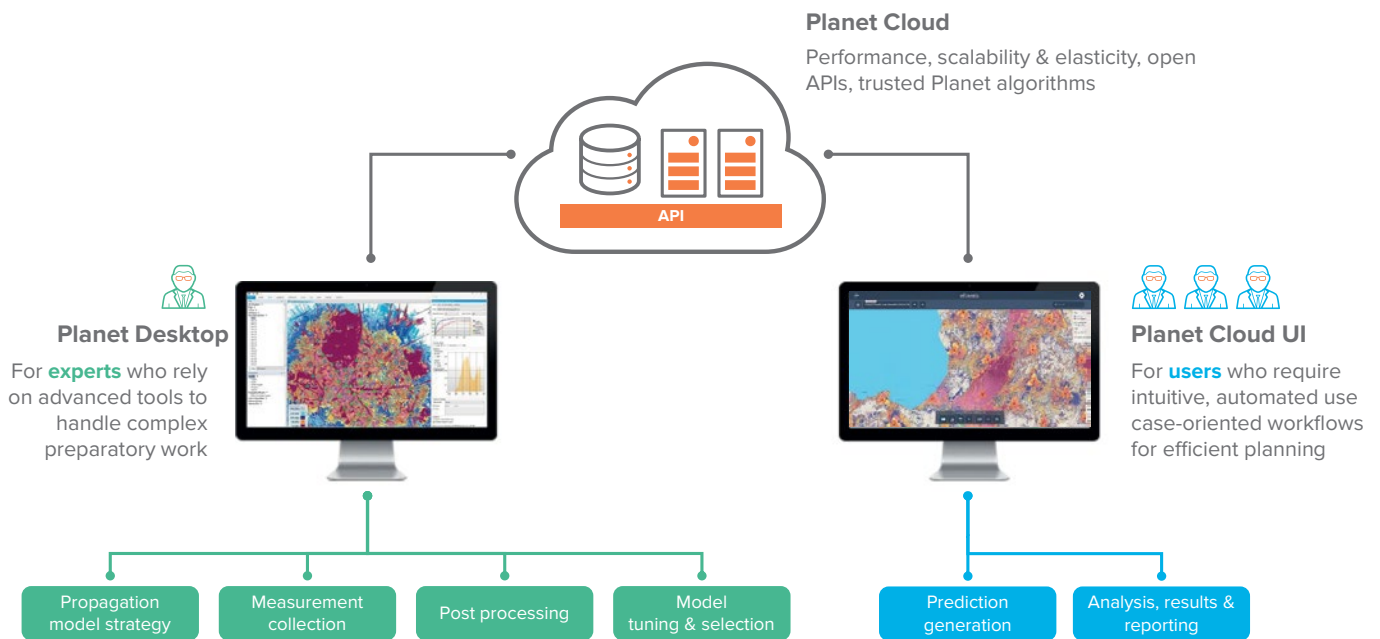

Regulatory conformance automation

Planet Cloud's ability to seamlessly integrate with external data sources allows for automation of previously manual design exercises such as regulatory requirement checking as part of the cell design process. Using boundaries and configurations to automatically optimize cells to avoid any infringements of regulatory or other design criteria significantly reduces network design time.

Seamless interworking of Planet Cloud and Planet Desktop

Planet Cloud has been designed for users who require intuitive, automated use case-oriented workflows for efficient RF planning. To maintain this efficiency and simplicity means the advanced tools required by experts for complex preparatory work remain in Planet Desktop and the two solutions work seamlessly together.
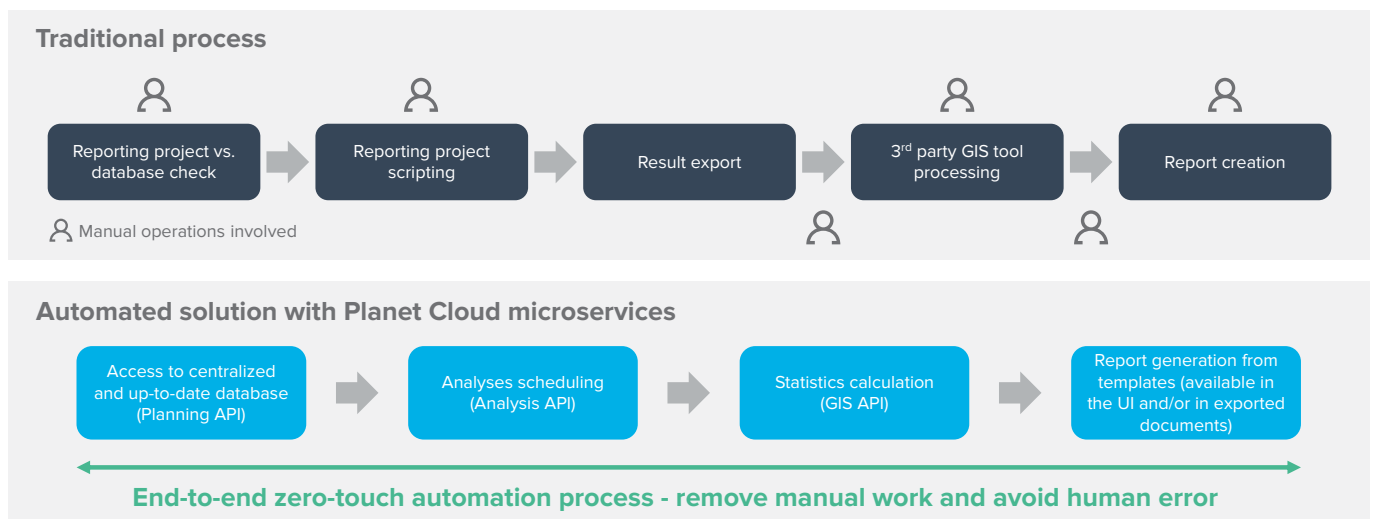
Below is an example of how each solution is used for a propagation modeling use case.

Planet Cloud
Performance, scalability & elasticity, open APIs, trusted Planet algorithms

API

Planet Desktop
For **experts** who rely on advanced tools to handle complex preparatory work

Planet Cloud UI
For **users** who require intuitive, automated use case-oriented workflows for efficient planning

Propagation model strategy	Measurement collection	Post processing	Model tuning & selection

Prediction generation	Analysis, results & reporting

Leverage Planet Cloud microservices via open APIs

Planet Cloud offers a complete set of planning and optimization microservices. These microservices can be leveraged externally via APIs to automate business processes. APIs cover planning, analysis, optimization and GIS capabilities. All APIs include an integration package with documentation, sample data, etc. and are extremely easy to deploy.

Below is a coverage reporting automation use case example leveraging Planet Cloud microservices via APIs to achieve a zero-touch automated process.

Traditional process

Reporting project vs. database check	→	Reporting project scripting	→	Result export	→	3rd party GIS tool processing	→	Report creation

Manual operations involved

Automated solution with Planet Cloud microservices

Access to centralized and up-to-date database (Planning API)	→	Analyses scheduling (Analysis API)	→	Statistics calculation (GIS API)	→	Report generation from templates (available in the UI and/or in exported documents)

End-to-end zero-touch automation process - remove manual work and avoid human error

Powered by the NLA Cloud Platform

Planet Cloud is powered by Infovista's cloud-native NLA Cloud Platform which provides common telco-specific functions such as automation, analytics, and data correlation engines to power Infovista solutions across the entire network lifecycle, including Planet AI-driven RF network planning, TEMS™ network testing solutions and the Ativa™ Suite of applications for automated assurance and operations.

The NLA Cloud Platform™ unifies network planning, testing, and automated assurance and operations and breaks the limitation of traditional siloed-solution approaches. This brings greater use case innovation, agility, and interoperability for CSPs', unlocking new cross-cycle processes such as Precision Drive Testing™, which leverages 5G network, service and customer data, and ML/AI techniques to increase the speed and accuracy of 5G testing. The data-driven and automated network testing solution supports a wide range of network-testing scenarios, from new site verification to user-experience validation.
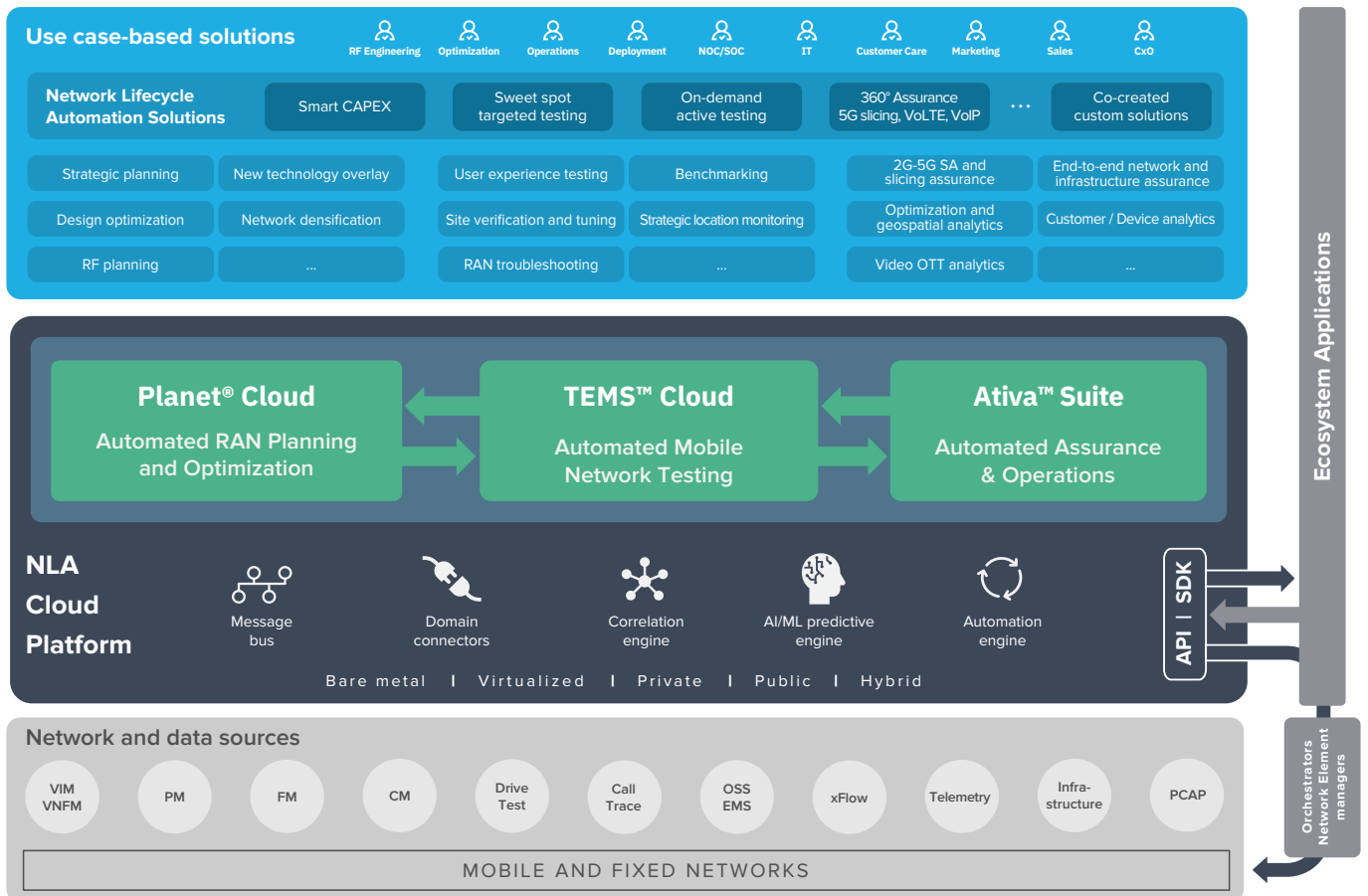
Part of the Infovista Planet Suite for RAN planning and optimization

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
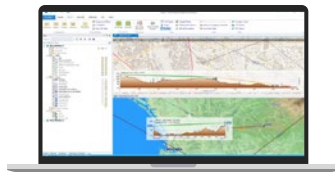**Cloud-based RF planning and optimization**

Adopt cloud-native planning for performance, scalability and efficiency
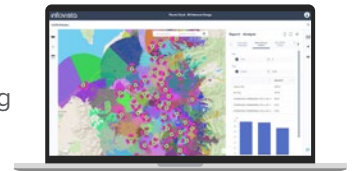
Ellipse
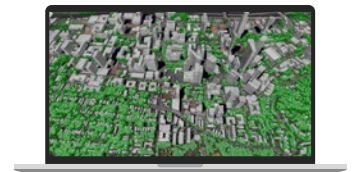**Backhaul planning and optimization**

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.