

DATA SHEET

Geodata

Accurately Model Your Wireless Network

Infovista develops, produces and benchmarks digital mapping products for the telecom sector to deliver best-in-class radio performance. These products are designed to work with RF planning & optimization software that are used by wireless network operators, as well as the vendors and consulting firms that support them. Infovista’s geodata portfolio includes a range of products to meet the engineering requirements and budgets of the wireless ecosystem. With an on-the-shelf inventory of geodata that is unmatched in quality and coverage, Infovista is the premier choice in the telecom industry when accuracy matters.

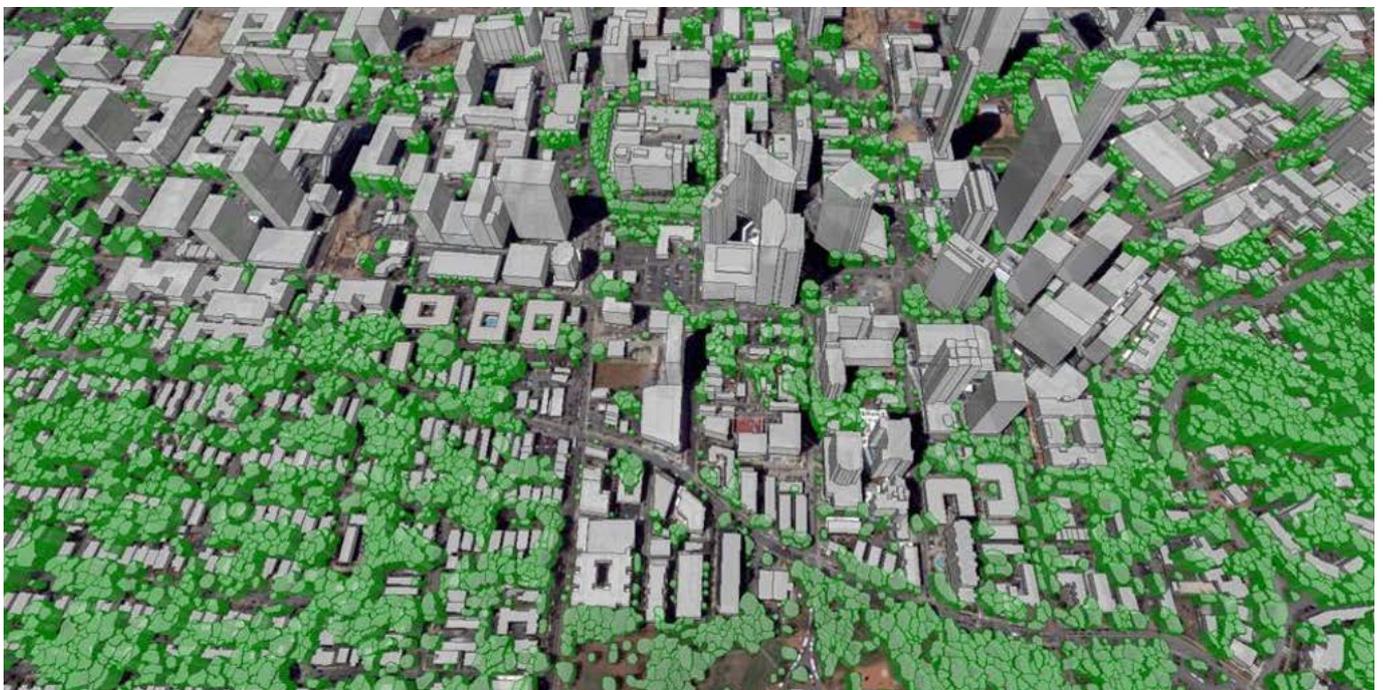


Figure 1. The use of mmWave frequencies for 5G networks required innovation in geodata: the 3D vegetation model.

Infovista delivers advanced geodata enabling network operators to make informed CAPEX and OPEX decisions and exploit information resources to make sound decisions and deploy better networks.

WHY ACCURACY MATTERS:

- Models for better real-world performance
- Support for network densification planning (prepare for 5G)
- Higher frequencies requires more accurate maps

Plan with Precision

SKYLINES

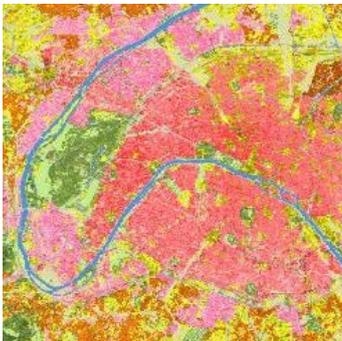


Skylines databases provide detailed 3D building and vegetation models for urban environments and are derived from the latest available high-resolution satellite imagery.

TYPICAL USE CASES

- 5G planning (including mmWave and Massive MIMO)
- Dense urban planning
- Indoor coverage assessment
- Small-cell design
- Planning for capacity
- RF optimization & geolocation

CITYSCAPES HD

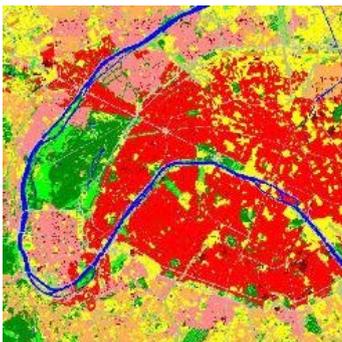


Cityscapes HD is designed for RF engineering in sprawling metropolitan areas where both structures and vegetation play an important role in defining propagation characteristics. Network operators using Cityscapes HD experience improved propagation modeling accuracy, increased model reusability and reduced reliance on propagation model calibration.

TYPICAL USE CASES

- High-accuracy propagation for 4G networks
- Planning outside urban core
- Planning for capacity
- Urban cell planning “below rooftop”

CITYSCAPES



Cityscapes is designed to meet detailed macrocell network planning requirements in geographically diverse areas, and remains the standard input for a good balance between propagation modeling accuracy, price and performance.

TYPICAL USE CASES

- Network planning (macrocells)
- Network optimization
- Any project anywhere
- Trial coverage/capacity design

LANDSCAPES



Landscapes are medium to low-resolution databases designed for large-area planning and are the ideal solution for initial designs, network planning in rural areas or bid preparation.

TYPICAL USE CASES

- Large-area macrocell planning
- Strategic planning & CAPEX dimensioning
- Bid preparation
- Cost and time-constrained projects

The Infovista geodata team works closely with the Planet R&D group to understand new wireless technologies and related modeling challenges, such as the those introduced with 5G. This unique perspective allows Infovista to develop geodata tailored for use by the RF planning ecosystem for the most complex networks.

THE RIGHT GEODATA FOR THE “RIGHT” LEVEL OF ACCURACY

Using the appropriate geodata for a project is an important requirement to ensure the best possible propagation modeling results. Infovista offers a range of products specifically designed to meet the planning needs of each environment.



3D Building and Vegetation Models

Highly accurate vector representation of buildings and trees (or tree canopy) within a city

Linear Vectors

Various geographic data represented by lines, polygons or points including roads, rivers, political boundaries, demographic data and place names

Land Use (Clutter)

Raster representation of the earth’s surface categorized into specialized classes

Orthoimage

Orthorectified satellite image tied to the data set as a visual reference of the area of interest

Terrain

Raster representation of the land elevation typically referred to as a digital terrain model (DTM)

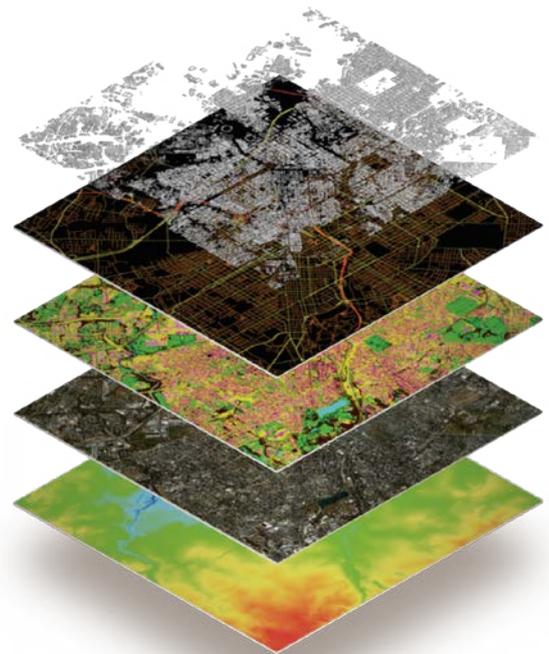


Figure 2. Geodata layers.

Geodata Benefits

Unmatched Accuracy

Accurate simulation of real-world conditions enables reliable budgeting, efficient planning and optimal return on investment

Specialized

Infovista's best-in-class geodata is precisely tailored to RF planning software requirements

Improved Performance

Better network simulation models drive better decisions for the on-air network

Innovation

New products tailored to the requirements of the latest technologies

Cost Effective

Flexible options are available to suit any budget

Proven Record

Infovista is the trusted source for network planning software for more than 375 customers globally



About Infovista

Infovista, the leader in modern network performance, provides complete visibility and unprecedented control to deliver brilliant experiences and maximum value with your network and applications. At the core of our approach are data and analytics, to give you real-time insights and make critical business decisions. Infovista offers a comprehensive line of solutions from radio network to enterprise to device throughout the lifecycle of your network. No other provider has this completeness of vision. Network operators worldwide depend on Infovista to deliver on the potential of their networks and applications to exceed user expectations every day. Know your network with Infovista.