

Keima



Rapid decision making is required to achieve tight launch timescales in new technology deployments, often in the context of limited input data.

Composer reduces cost by providing the engineer guidance through automation, enabling best practice decisions to be made while project velocity is maintained.

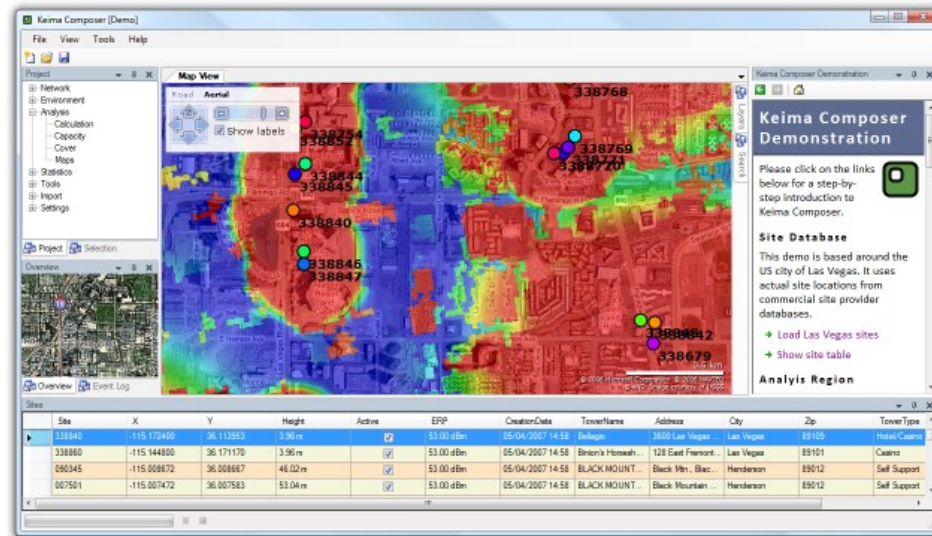
Composer's SPICE algorithm focuses deployment in areas of dense traffic, maximising return on investment.

Composer has been used to select more than 20,000 sites, and has been validated in customer trials to reduce site requirements by more than 30% compared to existing processes.



Composer: Next generation wireless network design

Composer is a pre-build network planning application based upon Keima's Overture Framework. Composer helps mobile phone and wireless broadband engineers to deploy their networks more quickly, efficiently and effectively: fewer masts to cover more subscribers, planned in a shorter period of time. Composer contains advanced optimisation algorithms, intuitive reports and visualisation, flexible configuration, and consideration of a wide range of input data. Composer is designed to be complimentary to existing planning and simulation tools.



Composer interface showing the map view, site table and a custom process

Key Benefits

Revenue Coverage Focus

Incremental traffic planning is used to ensure that the network plan is commercially optimal.

Rollout strategy evaluation allows comparison of different design criteria and geographic deployment scenarios.

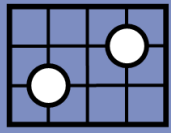
Simple Accuracy

The SPICE site selection algorithm provides a statistically rigorous yet technology neutral approach to site selection.

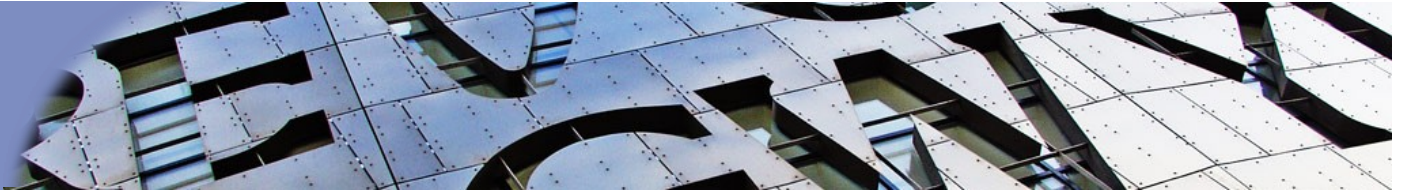
Multi-dimensional environment allows Composer to consider more sources of data than any human planner.

Interactive Planning

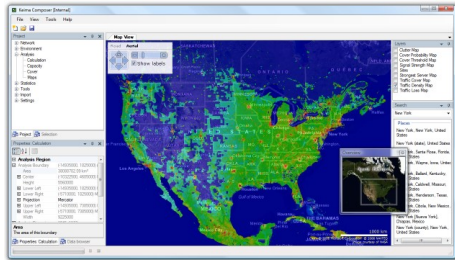
Detailed statistics and maps allow the user to work interactively with automation.



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Composer: Features and Specification



Large network and area support

Specification

System Requirements:

- OS:** Windows 2000/XP/Vista/
Windows Server 2000/Windows
2003 Server
- CPU:** 1GHz
- RAM:** 512MB
- Hard disk:** 10MB (Composer) +
2GB (mapping cache)
- Internet Access**

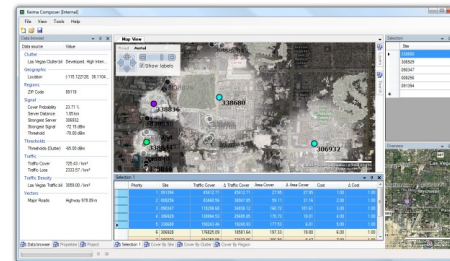
Data Formats:

- (others as required)*
- Raster:** MapInfo, BIL
- Sites:** Excel, Planet EV 4.2

Features

- **SPICE site selection algorithm** reporting incremental traffic/area coverage to maximise revenue.
- **Industry standard propagation models** including Okumura Hata, COST 231 Hata, Stanford University Interim (SUI).
- Consideration of **market data** including population and land-use rasters, polygon statistics and transport vectors.
- **Proximity analysis** to filter co-located sites from mixed own/3rd party site portfolios.
- **Technology neutrality** enabling Composer to be applied to cutting edge technologies, and compare different vendors and configurations.
- **Reports and statistics** on area, population, traffic, and site requirements.
- **Planning tool and propagation prediction import** from leading solutions, including Planet EV.
- **Scriptable and customisable interface** allowing in-built custom processes and user screen layouts.

- **Mapping of network plan and coverage** including manual interactive analysis to add/remove sites from a plan.
- **Advanced visualisation** allowing global satellite imagery and building data, with full zip/post code and place name search.



Site selection plan review

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Composer is complementary to manual planning:

Manual planning of a new technology has a number of key weaknesses: for example it is impossible for planners to visualise multiple layers of data, and it is too time consuming to develop multiple plans to different design targets. *Composer provides guidance to planning engineers, removing “handle-turning” activity and allowing them to apply local knowledge and expertise more efficiently in a review phase.*

Composer is complementary to conventional planning/ simulation tools:

Conventional planning and simulation tools are technology specific, require hundreds of input parameters and analyses and may take several hours to run. Often planning is carried out using simple or reduced analyses, as full analyses can introduce unacceptable delays into the overall process. *Composer’s technology neutral approach is rapid, allowing quick evaluation of possible plans. If required outputs can be exported to detailed simulations for further investigation.*