

SUDARSHAN

A GEO-SPATIAL OPTIMIZATION PLATFORM FOR WIRELESS NETWORK

PROBLEM STATEMENT -WHERE DO I DEPLOY MY WIRELESS/IOT ASSETS?



in a complex environment with buildings and vegetation....



when I want to MAXIMIZE Resident Coverage...



CONSTRAINED BY spectrum and regulations...



MAXIMIZE Vehicle Coverage....

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The challenge:



MAXIMIZE ROI



Multi-dimensional _

Multi-objective



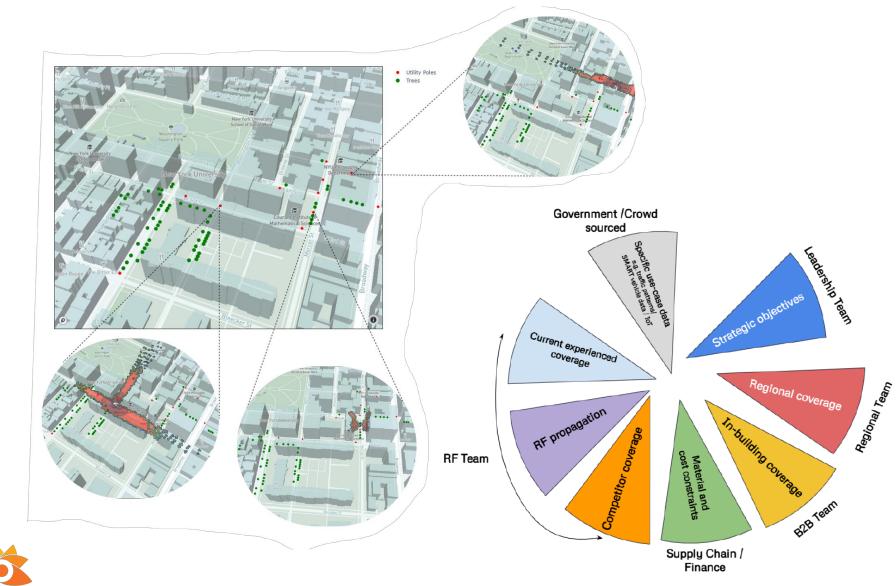
MAXIMIZE Customer Retention



MINIMIZE cost...



COVERAGE MAPS ARE JUST ONE PIECE OF THE PIE...



• Different stakeholders use different data and different systems or frameworks for analysis

• No integrated analysis and planning platform to capture inter-dependencies and constraints

Outcome - Inefficient CapEx and OpEx planning, missed opportunity of cost savings and quality of service

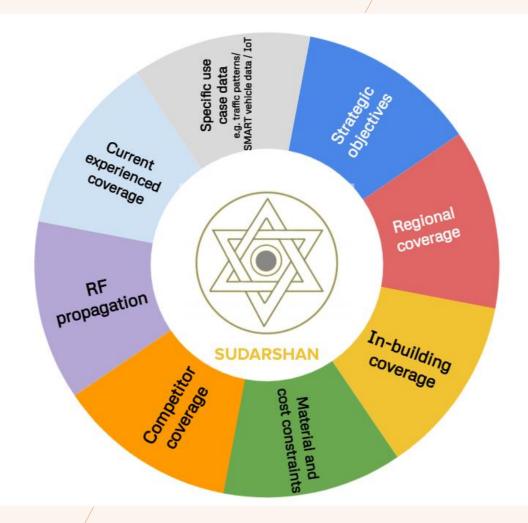
Proprietary and Patent Pending

SAFFRON

Our Solution:

SUDARSHAN

A platform that brings together all data sources to make AI-enabled smart decisions in optimal planning and deployment of wireless infrastructure





WHAT MAKES SUDARSHAN UNIQUE?

CUSTOMIZATION

Train your own ML/AI propagation models to solve your custom 5G deployment problem, e.g., FWA, Private 5G network, mm-Wave deployment, etc.

FASTER

Near real time ray tracing using massive GPU parallelization - Enables placement of 5G towers anywhere

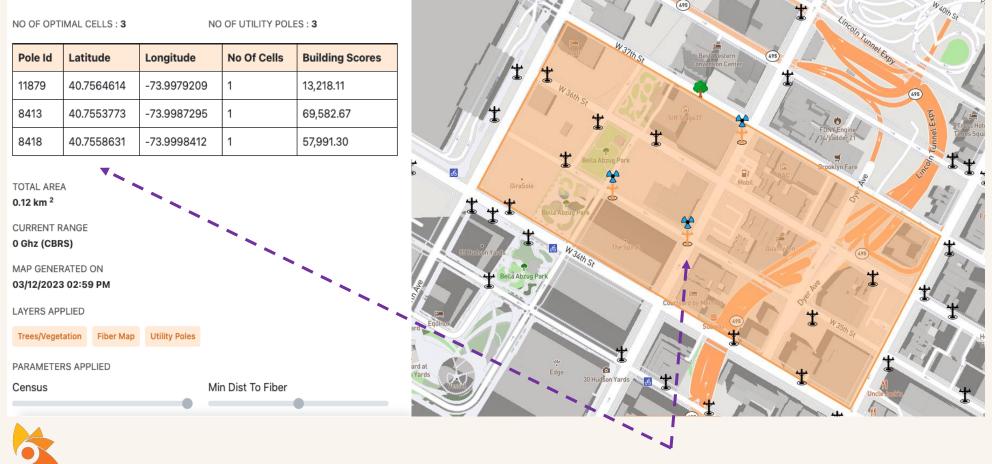
MULTIPLE OBJECTIVES

Simultaneously optimize multiple business objectives - Ability to "drag and drop" business objectives

EASY TO USE

Simple design that gives customers the targeted information they need

SAFFRON Proprietary and Patent Pending **SUDARSHAN** - A geo-spatial wireless network optimizer platform that brings together all relevant data sources to make AI-enabled smart decisions to optimize the number and locations of wireless assets subject to constraints such as cost, presence of fiber backhaul, etc.



- Simultaneously optimizes multiple business objectives, allows customers to train their own ML/AI propagation models to solve custom 5G deployment problem.
- Optimization objectives -Maximize coverage for population or buildings Output
 Optimal number and location of assets -cellular towers utility poles or traffic
- towers, utility poles or traffic light poles to mount antennas
- Constraints Total cost of ownership (TCO = CapEx + OpEx), distance from fiber backhaul, etc.
- Factors impact of foliage, etc.

SAFFRON Proprietary and Patent Pending Three optimal utility poles selected to maximize coverage for population in selected

area