

ascom

Efficient Tools for an Efficient Organization

HetNet Planning...



...used to involve a complex, time-consuming workflow

- *Multiple tools...*
- *Multiple vendors...*

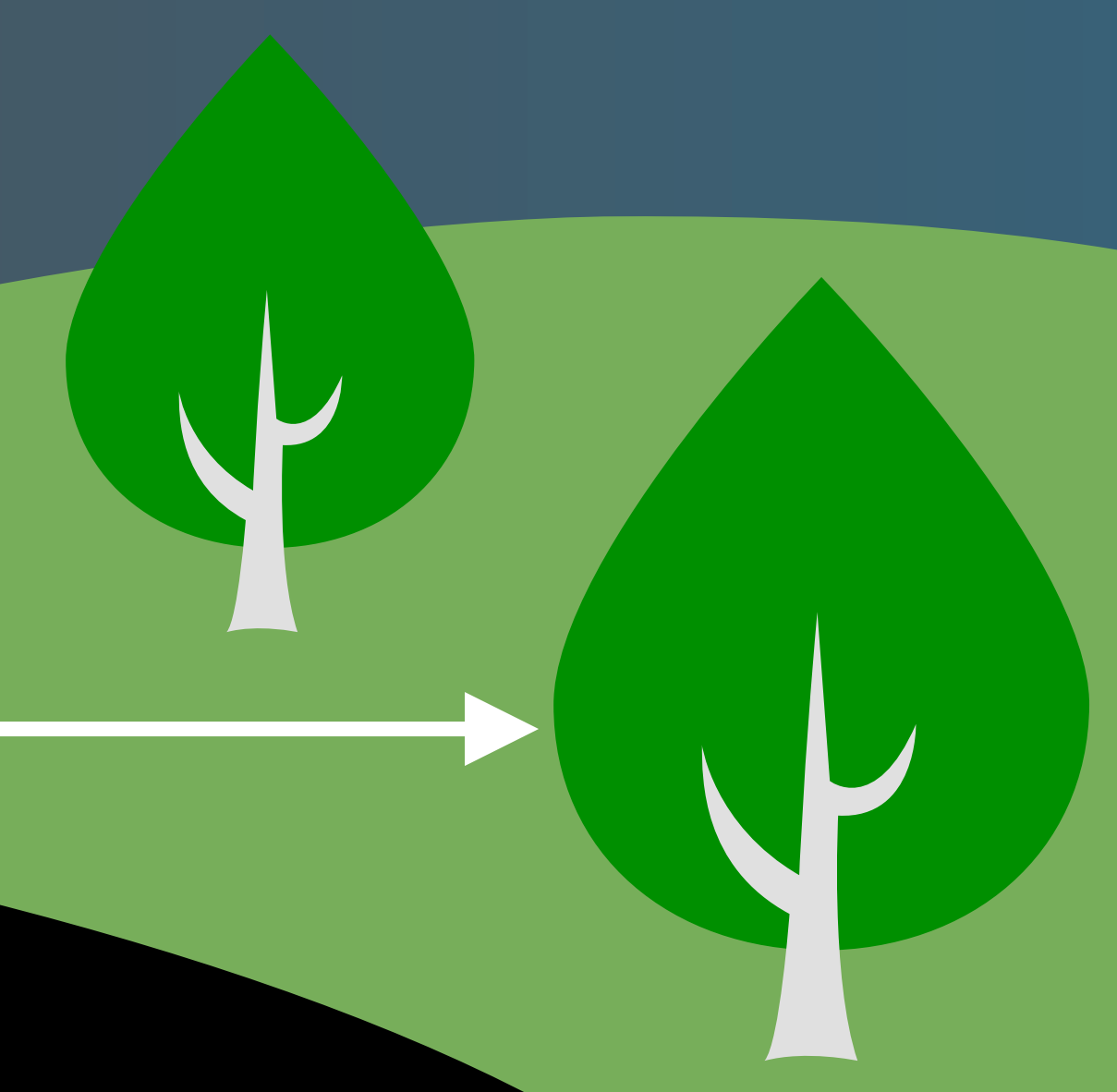
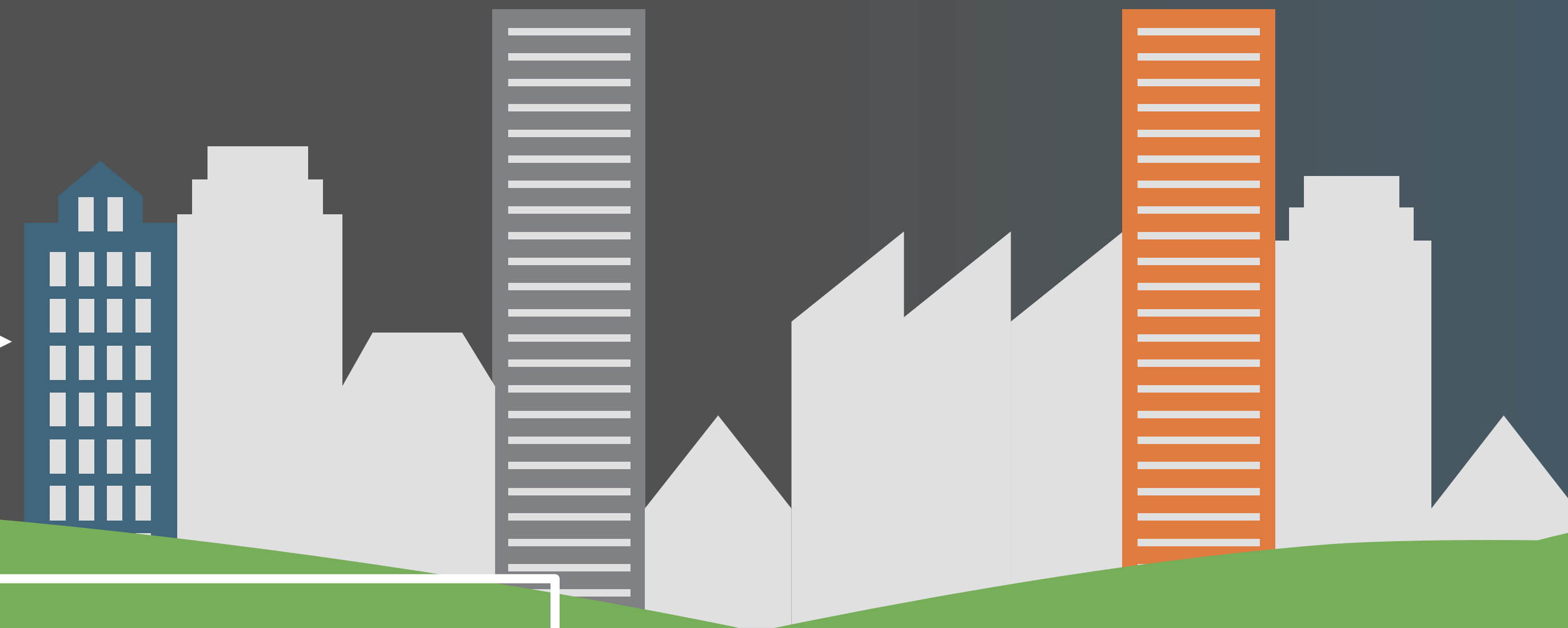


For network design and planning

- *This meant...*
 - *Multiple, costly site visits for experienced engineers*
 - *Multiple platforms required to manage a single project*
 - *Limited control and visibility of essential project elements*
 - *Backhaul?*
 - *Outdoor?*
 - *Complex and inefficient workflows*
 - *Complex and expensive support and training arrangements*

HetNet Planning...The Ascom Way

iBuildNet
For
Outdoor

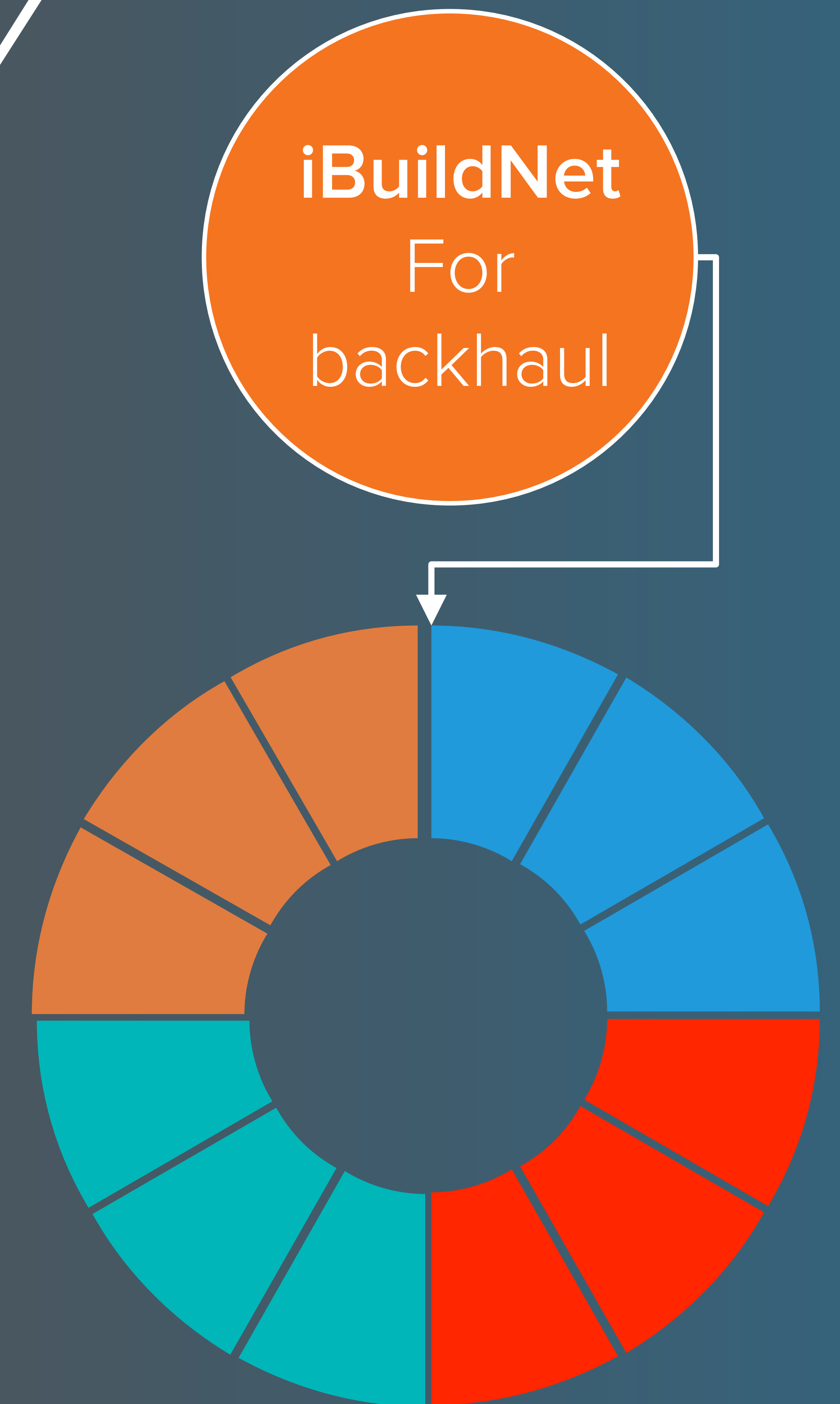


HetNet Planning...The Ascom Way

- *Proactively plan for backhaul capacity*
 - *Generate accurate backhaul capacity requirements*
 - *Work to your design QoS thresholds*
 - *Integrated, simpler workflows*

HetNet Planning...The Ascom Way

- *Eliminate dimensioning errors*
 - *TEMS iBuildNet design suite plans both:*
 - *Radio Access Network*
 - *Backhaul capacity*
- *A single planning tool for Radio and Backhaul*



Design for optimum user experience

- *Integrated QoS planning*
 - *Beyond simple coverage to End User viewpoint*
 - *Automated reporting and capacity planning*
 - *Optimized for user experience*



Simpler, more sustainable pricing



Flexible, global pricing

- Simple, flexible licensing model for easier, more cost effective collaboration
- No mandatory cloud subscription fees
- Lower product pricing

Integrated for lower TCO

- No need to find a 'compatible' data collection product
- Streamlined data exchange with handheld test solution, TEMS Pocket
- Works with all major equipment/ component vendors

No expensive training

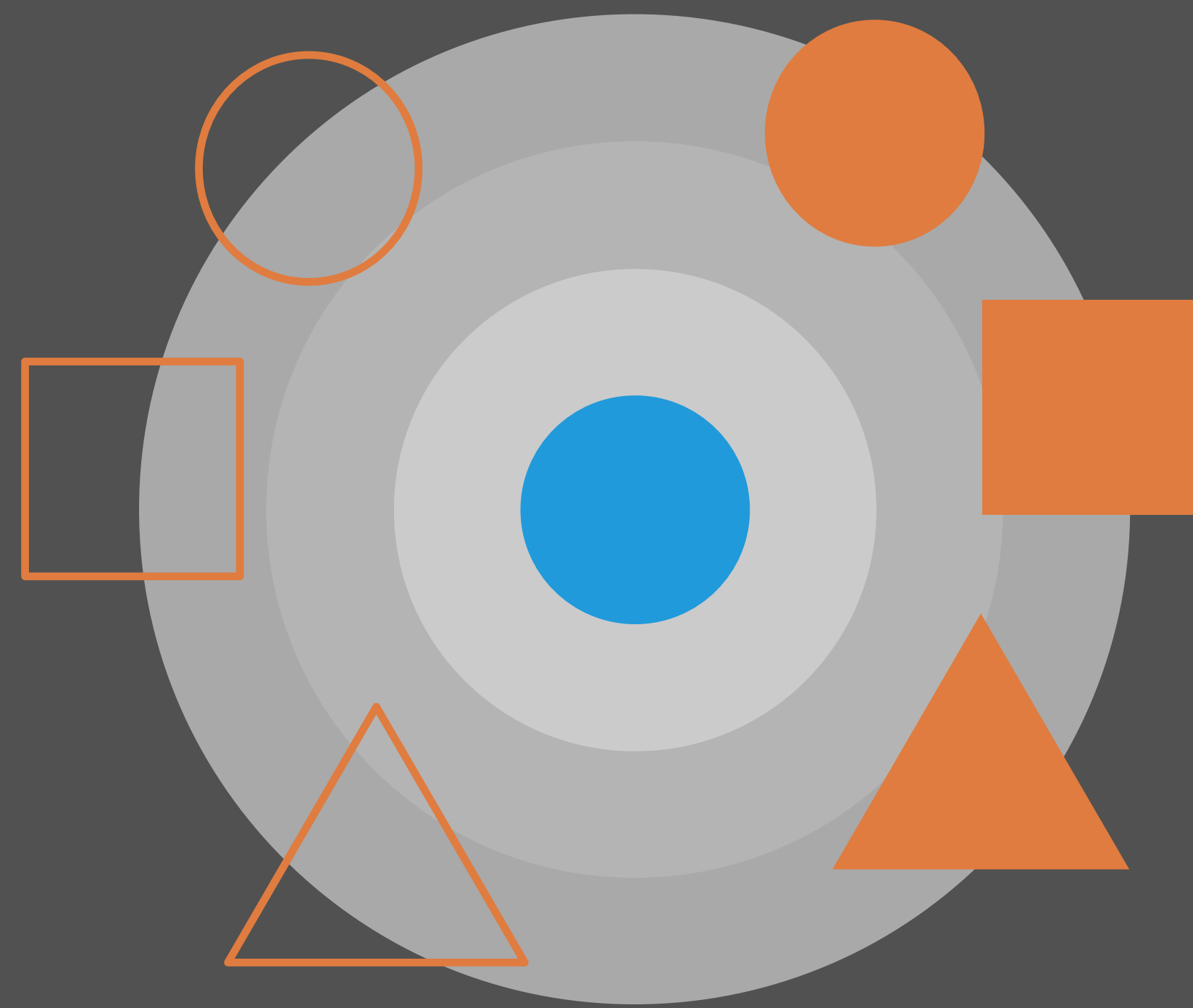
- Level 1 training provided as standard
- An ideal solution for less experience engineers

Superior Design Accuracy

- *Verified by various operators and manufacturers*
 - *90%+ samples within 5dB error margin*
 - *2dB Average error*



Intelligent Network Design



Intelligent cell optimization

- *Automatic AP location allocation and Tx power assignment*



Intelligent topology optimization

- *Automatic connections between devices and antennas*

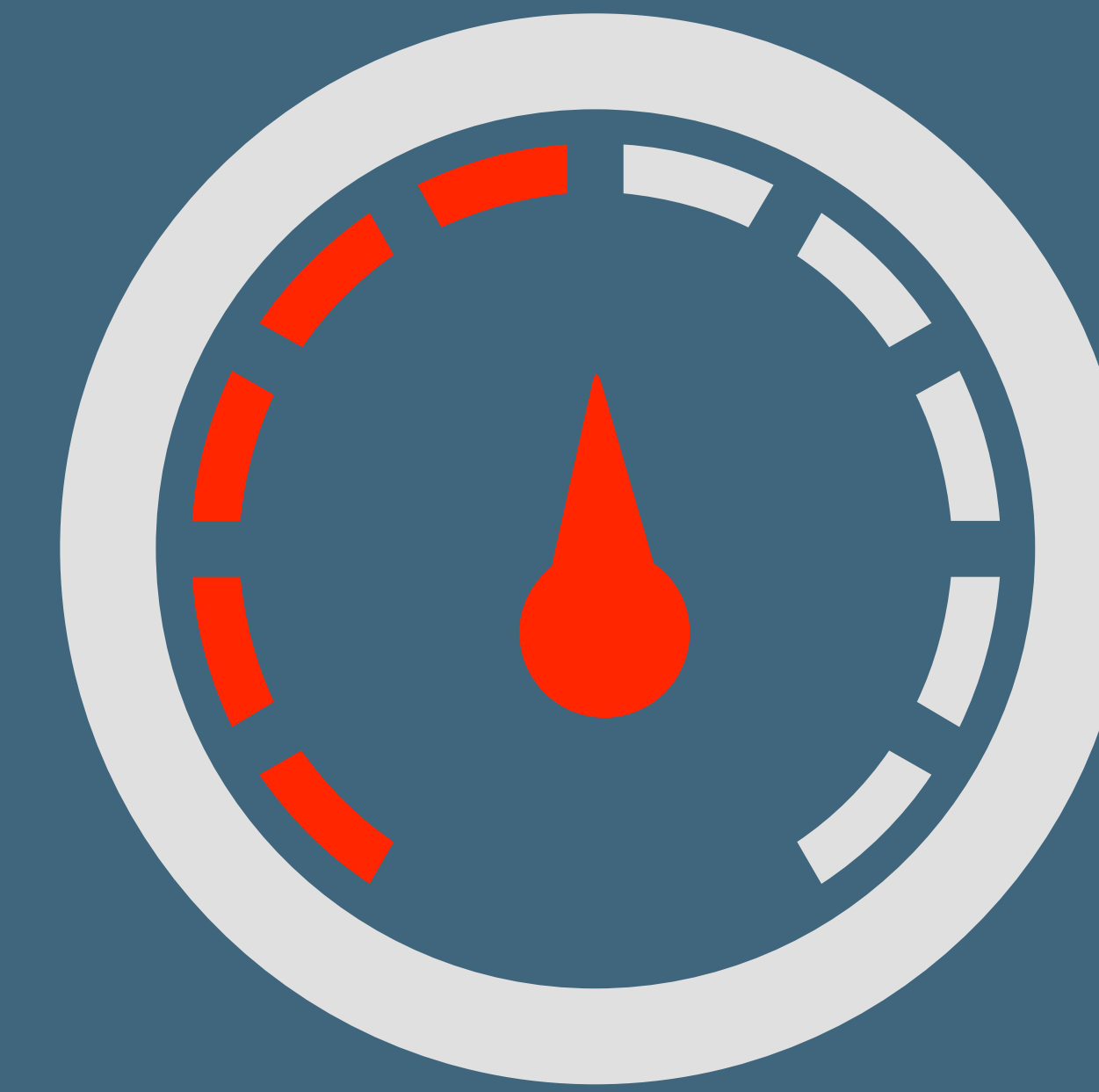


Coverage and leak analysis

- *Locate leaking antennas, analyze coverage and leakage indicators*

Intelligent Network Design

- *Advanced Automation*
 - *90% design accuracy*
 - *Drastic reduction in site visits*
 - *Simpler, more cost efficient planning*
 - *Less training for engineers*



50%

*Less time spent
planning*



90%

*Accuracy in
automation*

iBuildNet – A comprehensive Product Suite...



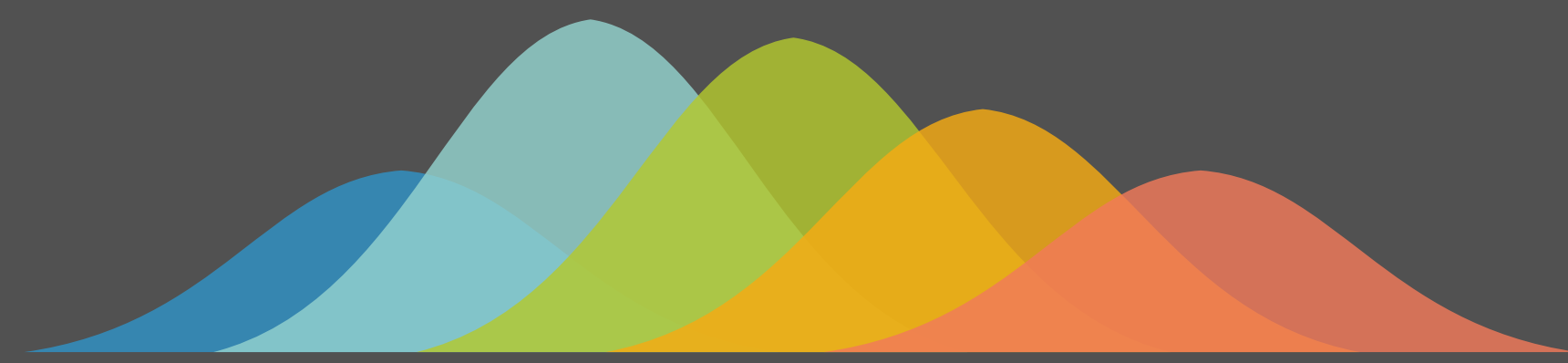
A full lifecycle
Product suite



iBuildNet Professional

- 3D building modelling
- Network intelligent design
- 3D coverage prediction
- Automatic network optimization
- Measurement, collaboration & reporting

iBuildNet – A comprehensive Product Suite...



A full lifecycle
Product suite



iBuildNet
PROFESSIONAL

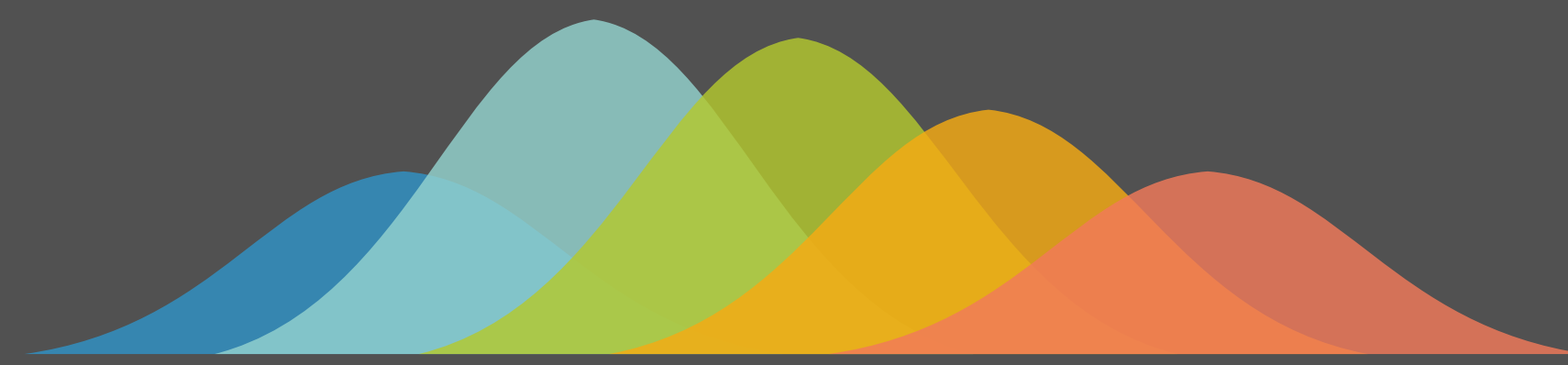


iBuildNet
TABLET

iBuildNet Tablet

- 2D building modelling
- Pre-RF site survey
- RF measurement and collection
- Real-time performance prediction
- Report Generation
- Optional automatic onsite quick design and quote

iBuildNet – A comprehensive Product Suite...



A full lifecycle
Product suite



iBuildNet
PROFESSIONAL



iBuildNet
TABLET

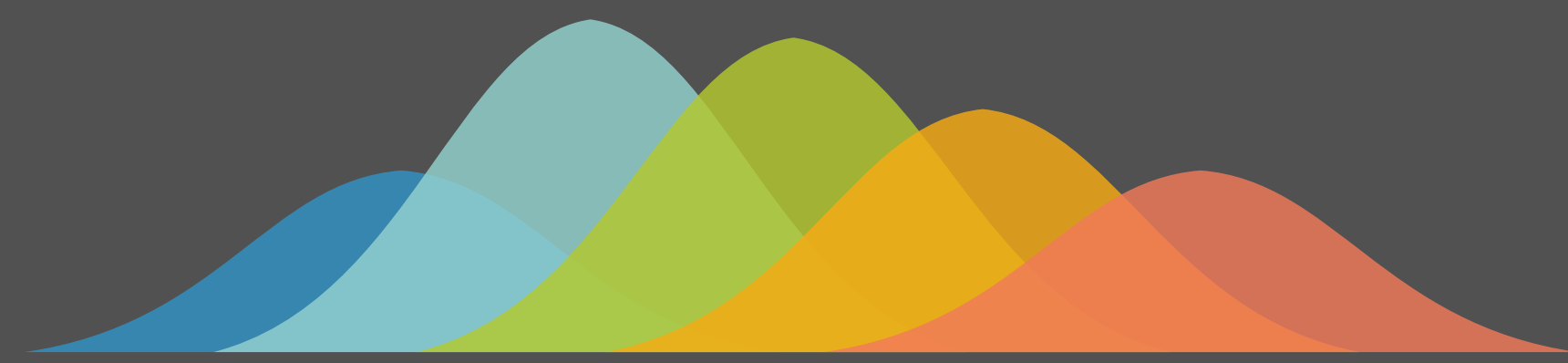


iBuildNet
DAS

iBuildNet DAS

- 2D building modelling
- DAS layout and configuration
- RF propagation engine
- Wireless performance prediction
- Automatic optimization

iBuildNet – A comprehensive Product Suite...



A full lifecycle
Product suite



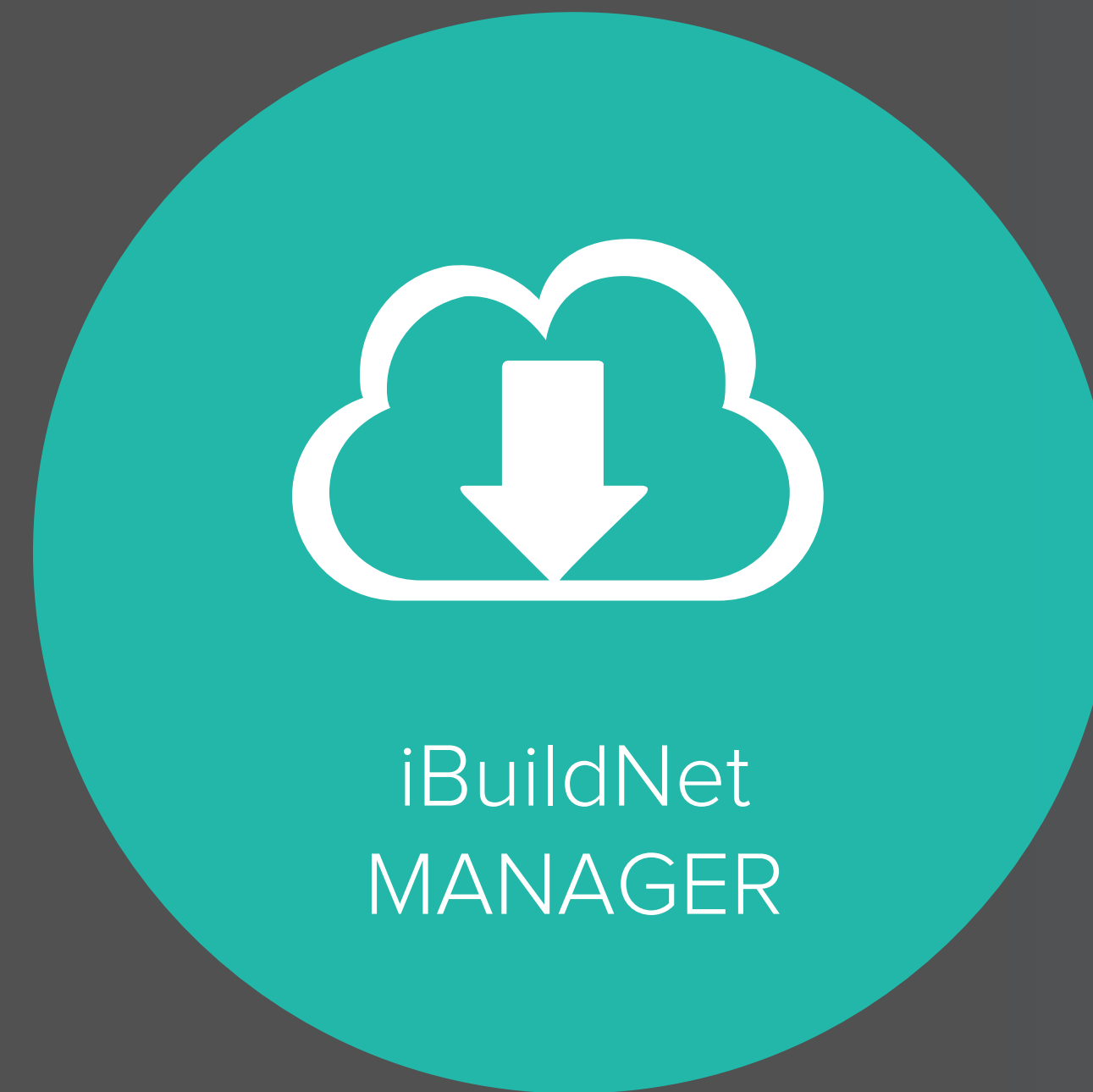
iBuildNet
PROFESSIONAL



iBuildNet
TABLET



iBuildNet
DAS

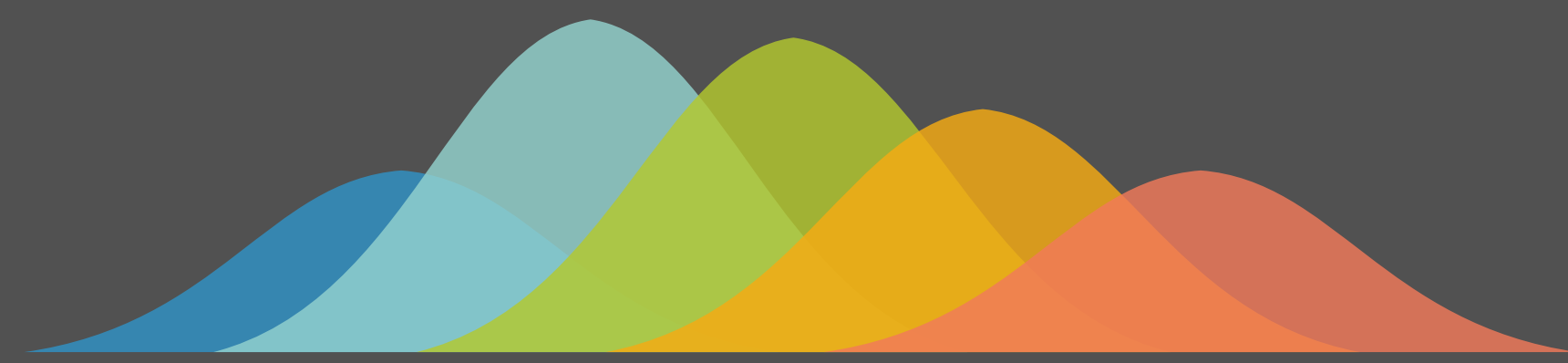


iBuildNet
MANAGER

iBuildNet Manager

- Cloud based project management
- Online workflow management, assignment, review and visualization
- Project monitoring and audit

iBuildNet – A comprehensive Product Suite...

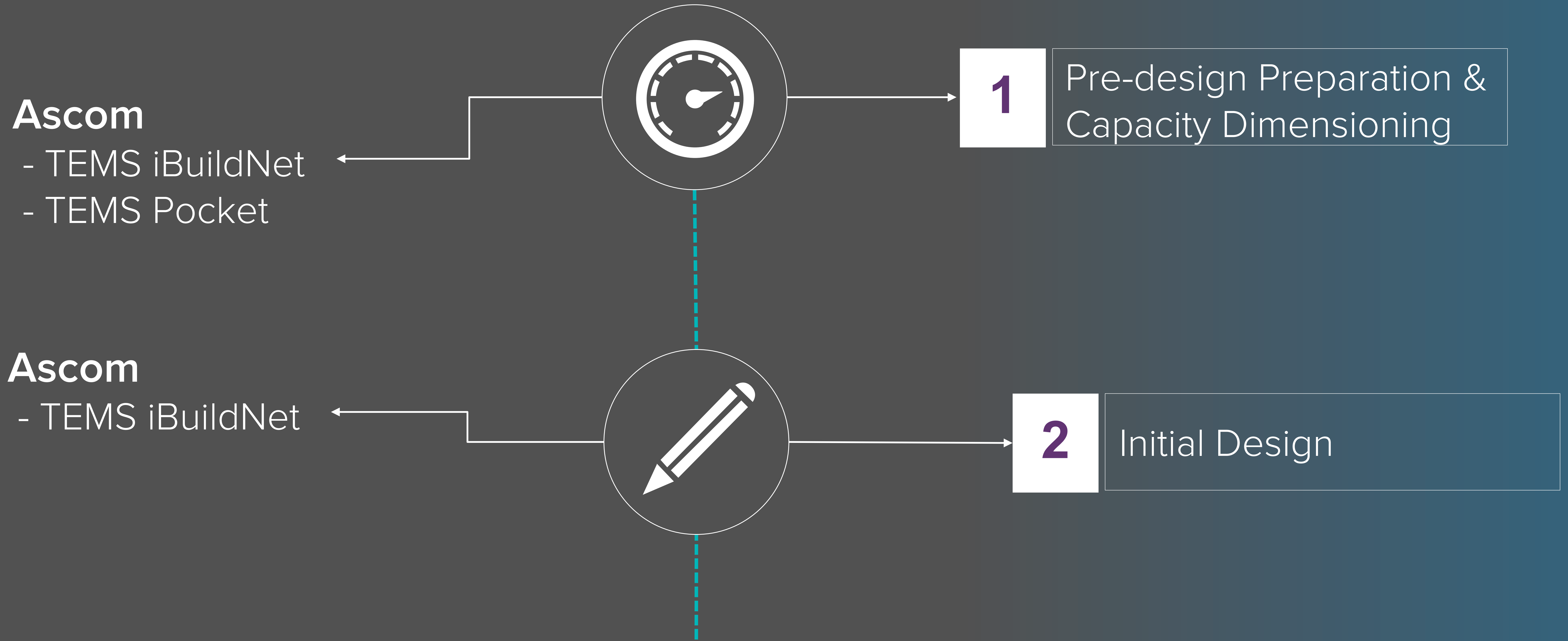


A full lifecycle
Product suite



TEMS
iBuildNet

...that fits with your workflow



Ascom

- TEMS iBuildNet Tablet
- TEMS Pocket



3

Initial Site Survey

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- TEMS iBuildNet



4

Final Design

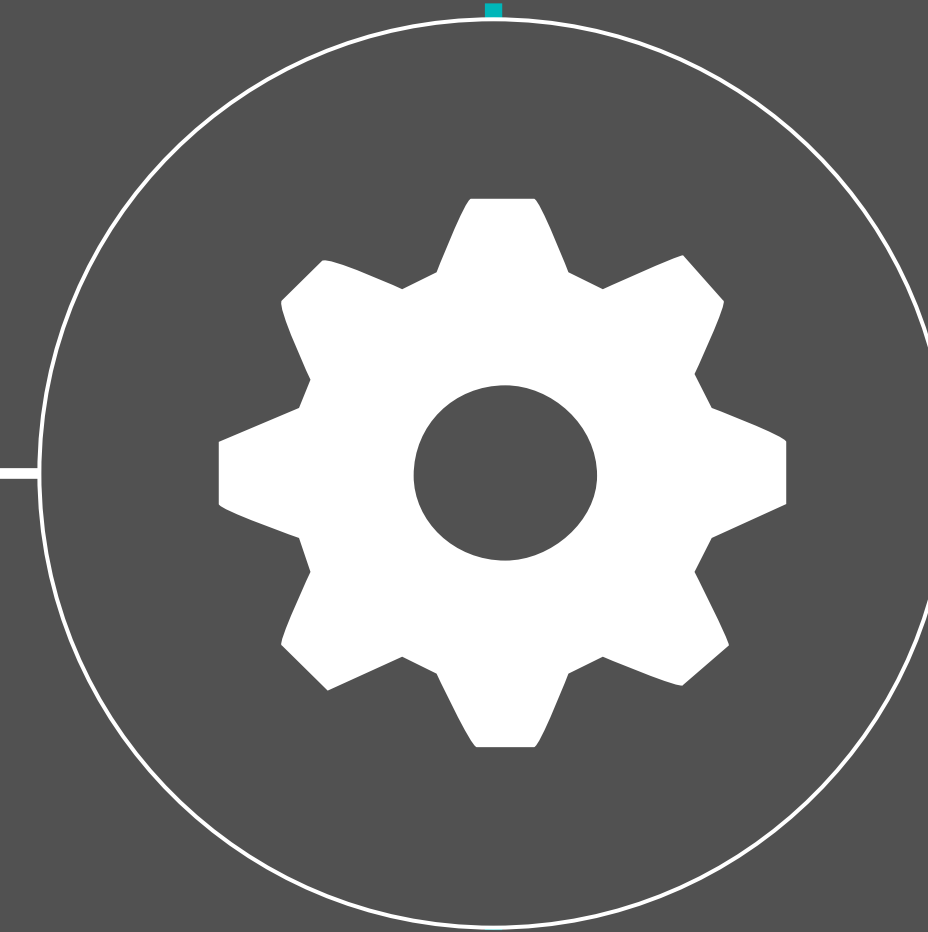
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- Services



5

Installation

Ascom
- TEMS iBuildNet
- TEMS Pocket
- TEMS Discovery

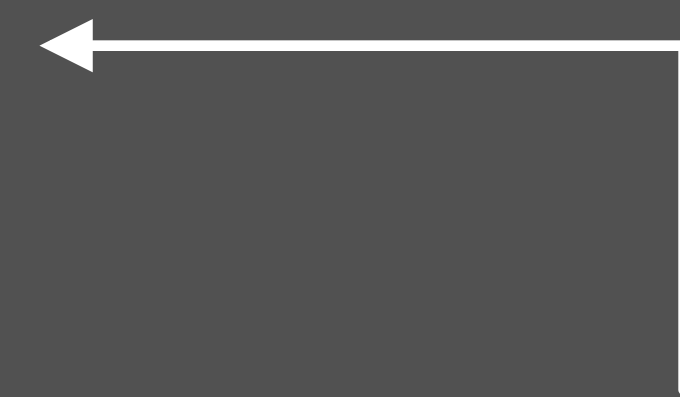


6

Initial Site Validation
SC Optimization/ Tuning

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- TEMS iBuidNet
- TEMS Pocket



7

Final Acceptance & Commissioning

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- TEMS Discovery



8

Operation & Monitoring

A product suite that fits with your workflow



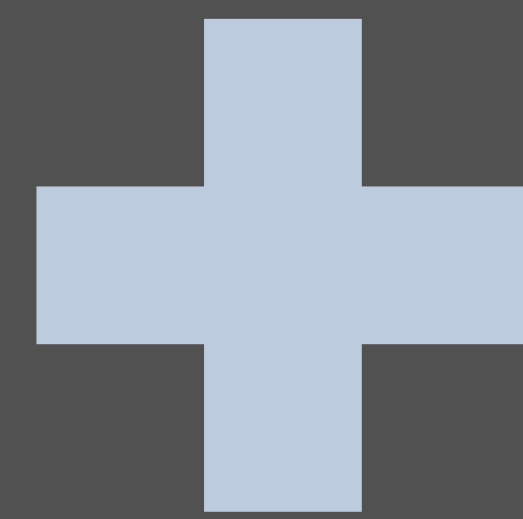
TEMS iBuildNet – The new formula for HetNet Planning



*A suite
of planning
tools*



*A simpler, more
flexible pricing
model*

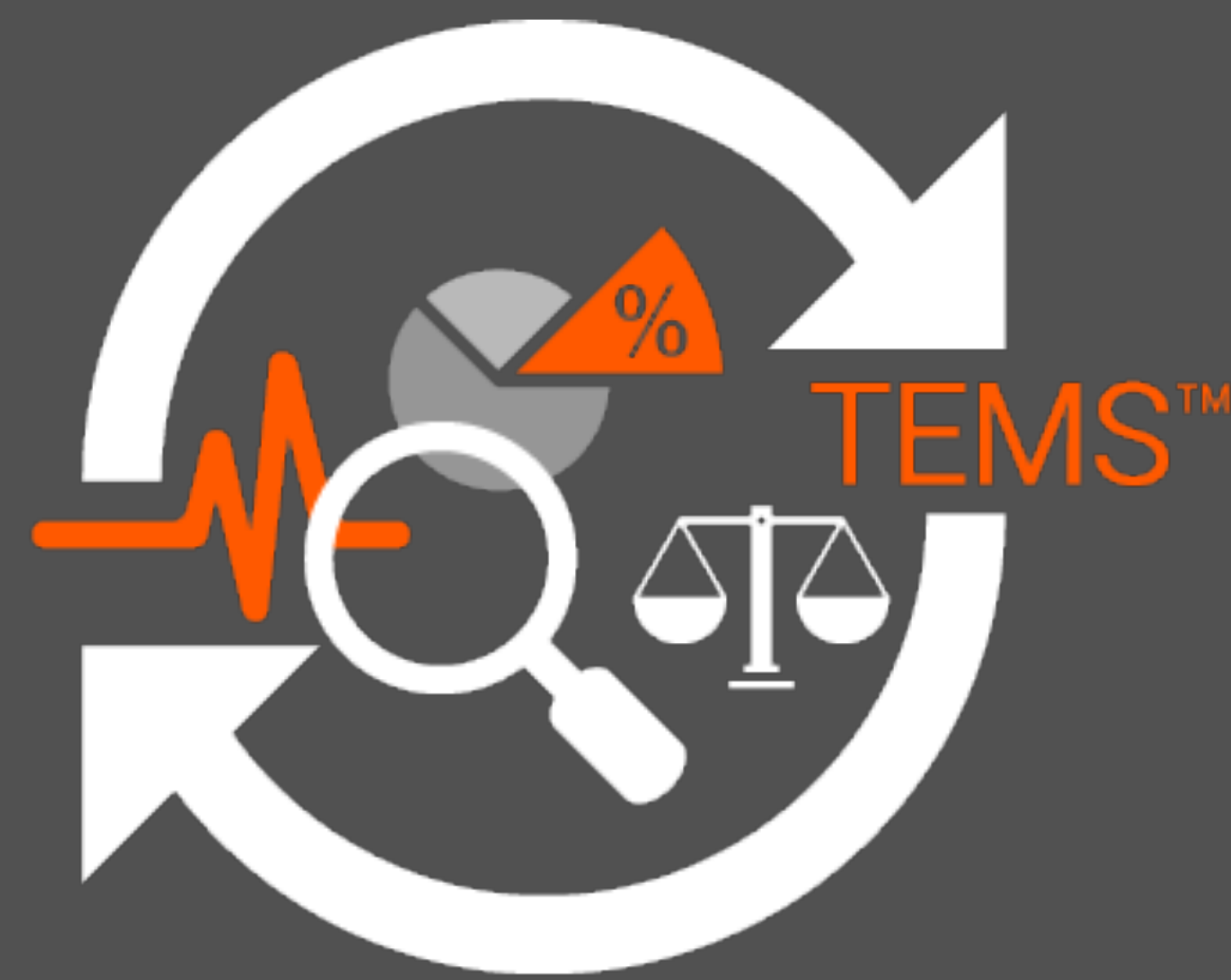


*A leaner, simpler
workflow*



*iBuildNet from
Ascom TEMS*

Why Ascom TEMS?



NETWORK LIFECYCLE QUALITY ASSURANCE

*Complete
Portfolio*



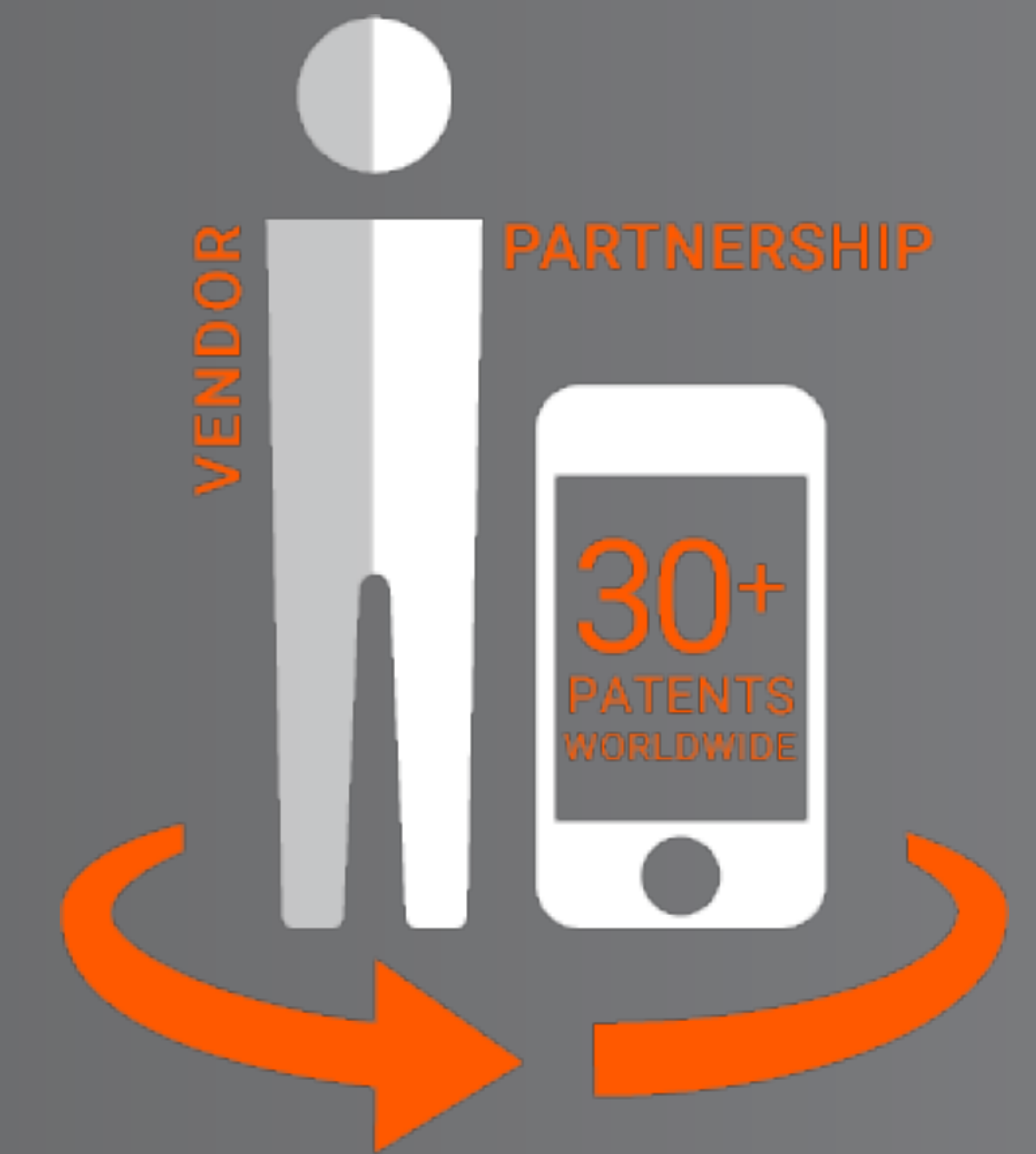
20+ YEARS
OF COMMERCIAL DEPLOYMENTS

*Innovative
Leader*



650+
CUSTOMERS IN **170** COUNTRIES

*Worldwide
Presence*



ENSURING CUSTOMER NEEDS

*Formative
Player*