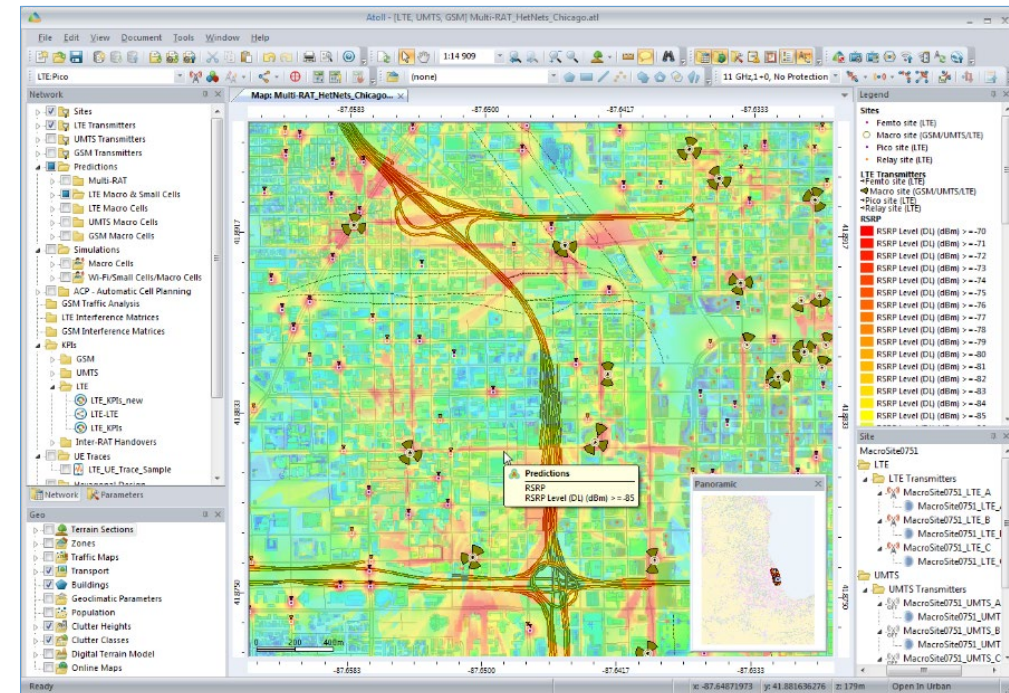# Atoll – Radio Planning and Optimisation

Company Profile

- Independent company founded in France in 1987

- Dedicated to radio planning & optimisation software development

- Atoll is a multi-technology wireless network planning and optimisation software

    - Design the future mobile operator networks
    - Optimise the existing mobile operator networks
    - Engineering of physical parameters (antennas, power, tilt, azimuth …)
    - Engineering of technological parameters (frequencies, PCI …)
    - Outdoor networks as well as indoor networks engineering
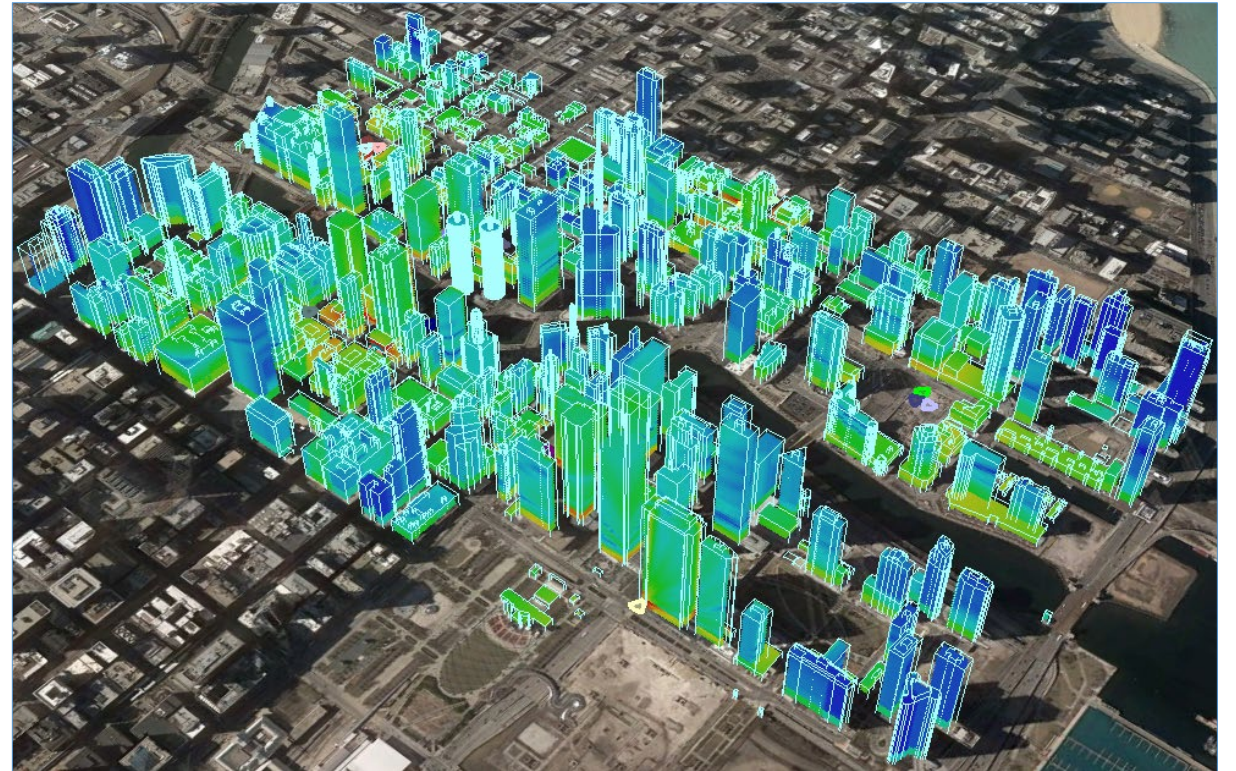   - Automatic planning and optimisation capacities

Atoll market share

◀ **Supports all major wireless technologies**

- 5G NR
- LTE/LTE-Advanced Pro
- UMTS/HSPA
- GSM/GPRS/EDGE

- CDMA2000 1xRTT/EV-DO
- TD-SCDMA
- NB-IoT

- LoRa, Sigfox, and other LPWA IoT technologies
- Wi-Fi
- WiMAX

◀ **World leader on the market**

- 9000+ licences in use worldwide
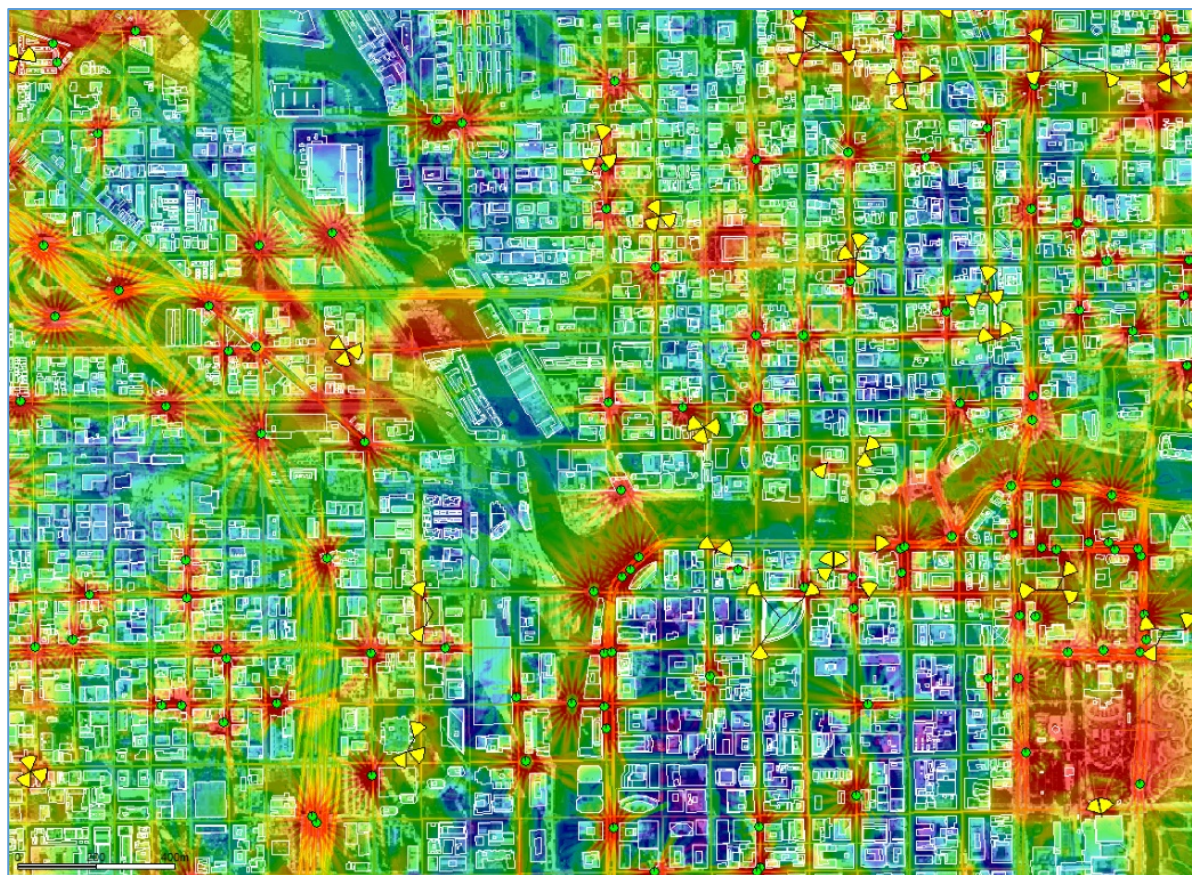- 500+ customers in 140 countries

Atoll market share

Atoll market share

By number of subscribers : 17 of the top 20 largest mobile operators worldwide use Atoll
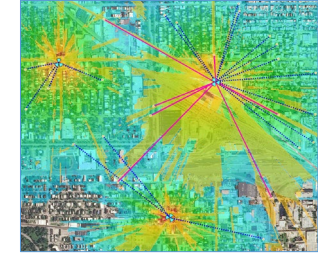
- 1/ China Mobile
- 3/ Reliance JIO
- 4/ China Telecom
- 5/ Vodafone Idea
- 6/ China Unicom
- 7/ America Movil
- 8/ Telefonica
- 9/ MTN Group
- 10/ VEON
- 11/ Orange
- 12/ Vodafone Group
- 13/ Telenor
- 15/ AT&T
- 17/ Axiata Group (3 out of 6 networks)
- 18/ Etisalat
- 19/ BSNL
- 20/ Verizon Wireless

Case Study : Automatic 5G deployment

- What is the optimised plan to reach the maximum area/population covered by 5G

- Less number of sites as possible (cost optimisation)

- Maximum benefit for users (throughput + KPI optimisation)

- No downgrade of the quality of the existing 2G/3G/4G networks

- No human actions, 24/7 calculation

Case Study : Automatic 5G deployment
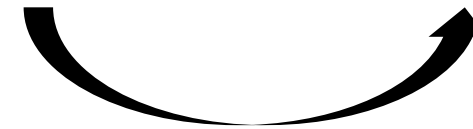
4G network analysis
- ✓ 4G users location
- ✓ Network quality
- ✓ Sites location
- ✓ Equipments audit

Sites selection from 4G
- ✓ Population coverage
- ✓ Area coverage
- ✓ 4G Downgrade assessment
- ✓ Fulfil Technical criteria

Deployment plan
- ✓ Coverage prediction
- ✓ Report and Statistics
- ✓ Bill of Material
- ✓ Estimated cost

Thank you

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