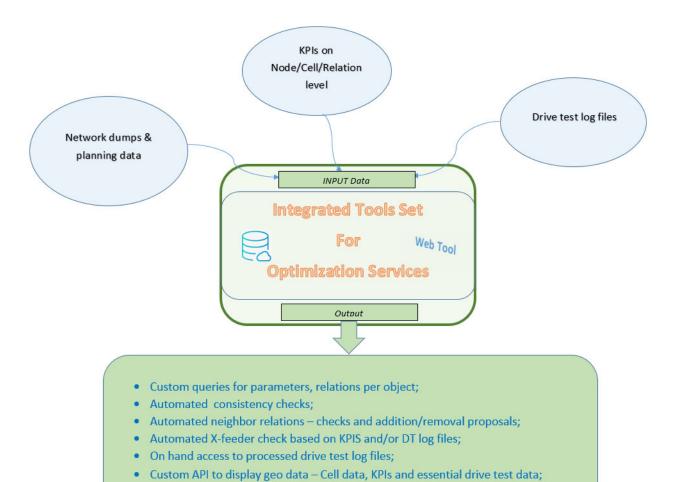
### **Integrated Tools for Network Monitoring and Optimization**



# Examples of some of the integrated tasks are presented below with plots and brief description

## 1. Cells represented on map with various statistical data related:

## 1.1 Cell/neighbor statistics on map:

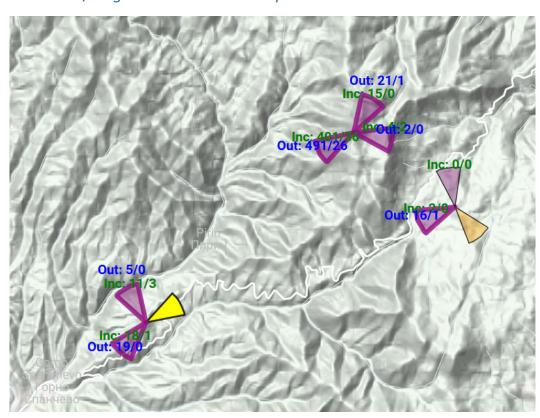


Fig. 1.1 – Handovers attempts vs failures per neighbor relation and statistical window

### 1.2 Custom KPIs plotted on map:

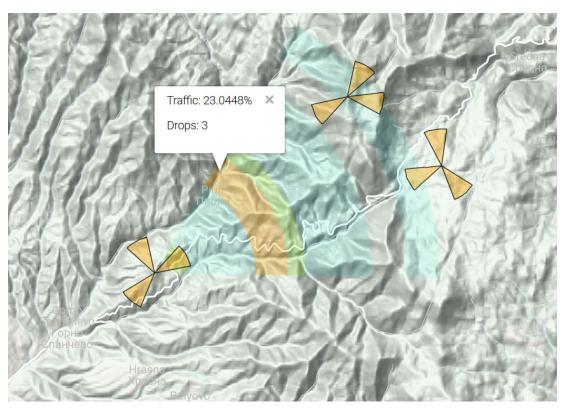


Fig. 1.2 – Statistics for traffic and drops per distance represented on map

## 1.3 KPIs along with terrain profile:

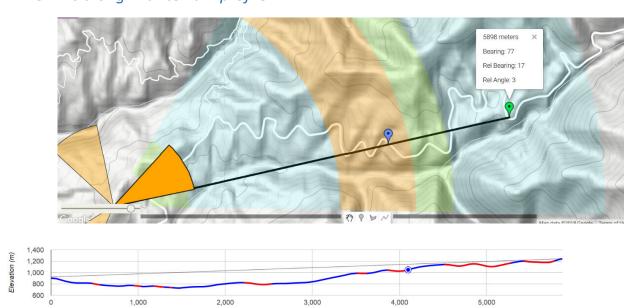


Fig. 1.3 – Line of Sight and bearing data in a single click

## 2. Drive test log data post-processed, stored and analyzed in database with visualization on map



Fig. 2.1 – Network levels with geo-location and mapped to serving cells based on cells' distinct attributes from the date of measurement /BCCH-BSIC, PSC, PCI and distance/

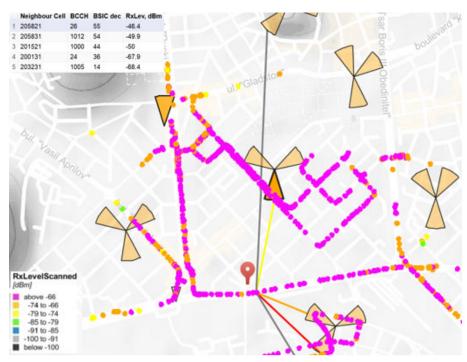


Fig. 2.2 –Top 5 cells in each measurement sample represented on map with distance and levels measured

## 3. Drive test data summary and automated analysis:

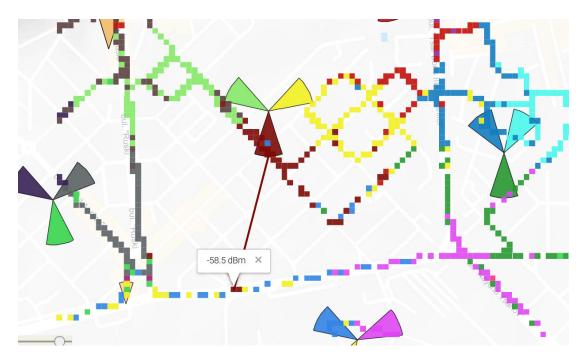


Fig. 3.1 -Best server per location colour-coded;

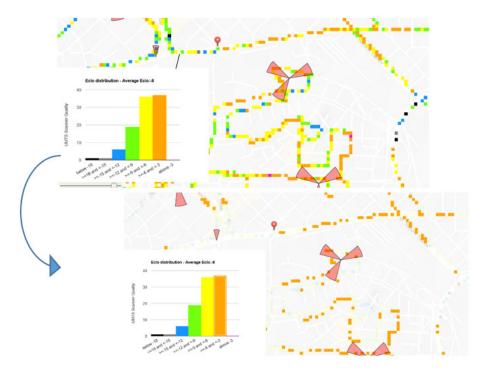


Fig. 3.2 –Straightforward identification of zones with given quality ranges /Eclo, CINR/

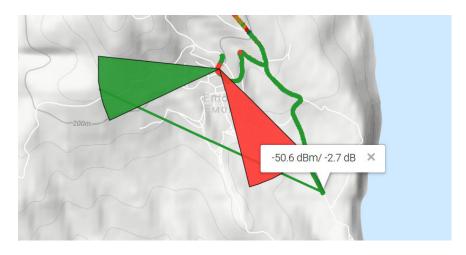


Fig. 3.3 –Automated cross-sectors identification

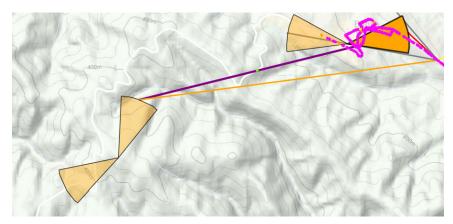


Fig. 3.4 –Automated missing neighbours identification

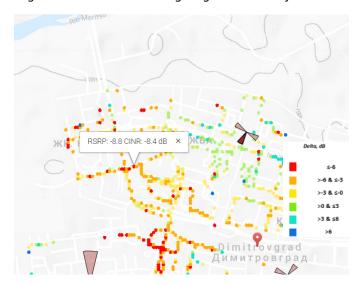


Fig. 3.5 – Delta values for pre-post drive test measurements

### 4. Benchmark and comparison reports easily prepared for desired location

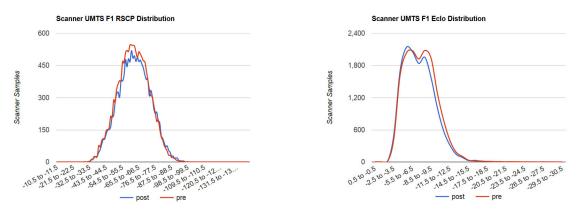


Fig. 4.1 –Statistical representation of different data arrays

#### 5. Plots for KPIs on cell or cluster level

