

Company Presentation





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Motivation



68% of MNO's view

#1 Strategic Priority

Cost of retaining a

customer = 1X, Cost of

lost customer = $50 \sim 100X$

stomer Experience as their



up to 40% increase in ARPU

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Target customers and positioning



Target Customers

- Network operators (Mobile/WiFi/Fixed)
- Vendors of network equipment and management solutions
- Airports, Train stations, Smart cities, Exhibition centers, Conference centers, Malls, Shipping, ...

Positioning:

- Advanced Customer Management
- Added value services on Big Data
- Smarter/automated network management, OPEX reductions
- Complementary to SON
- Enabler for IoT / IoE
- Quality and efficiency for smart cities and other Hotspots

Scope of Addressable Challenges



Efficient Network

- Resource Management
- Service Management
- Fault Management
- Network Energy Saving
- Network Planning
- Threat Detect/Prevent
- Fraud Management
- Field / Workforce mngt.

NG Customer Operations

- Churn/Retention Mngt
- Personalized QoS
- Proactive Customer
 Interactions
- BP Optimization
- Personalized Offers Mngt.
- Campaign Impact
 Prediction



- Smart City / IoT
 Applications
- Footfall Predictions
- Mobility Pattern Analytics
- Predictive Logistics
- Hetnet Management
- Emergency Support

Incelligent's Framework

Addressing Needs from different Industries







Quick intro of our software platform

Incelligent Platform in one sentence





Incelligent processes Network and non – Network Big Data with advanced Machine Learning algorithms producing unparalleled levels of:

Customer Retention & User Experience,

Optimization of Resource Use,

Monetization of Big Data and the **IoT**

revolution.

Incelligent Software Components (standalone products)



Support

IncelliAna

Accurate predictions from seemingly uncorrelated, highly heterogeneous data (network & non-network)

IncelliSim

What – If Analyzer

Evaluating your Investment, Management and Technical

options IncelliOpt

Optimizing Service Quality, Network performance, Customer experience, Revenue and OPEX

IncelliGUI

Unified GUI for Incelligent components allowing for an outstanding user experience and ease of control

API

Business / Management / App Development open to 3rd parties



Incelligent Platform – *Combined Intelligence*





Innovations & Benefits







Examples of use cases

Use Cases





significant degradation

IncelliOpt

2. Which element(s) of my promotion need(s) to be optimized?

Shift promotion by 3 hours earlier and reduce

the provided data volume by 20%

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Current Projects

Spectrum Optimization *Pilot with Large MNO, part of Global group*

- Identified Milestones:
 - Phase 1:
 - Traffic / Spectrum Analytics
 - · Evaluation of the impact of each refarming action to selected KPIs
 - Phase 2:
 - Predictive analytics of data traffic
 - Exploitation for finding best options regarding GSM band refarming.
- Data sources: Network & Marketing KPIs, External Events (non network)
- Components: IncelliAna, IncelliOpt, IncelliSim
- Areas of interest for collaboration after this project:
 - Predictive analytics for planning & optimization
 - Impact of imminent / scheduled 4G cell deployments to operating segments
 - Management of extra 5MHz / 10MHz channels
 - Evaluation and smart selection of SON options
- Timeframes:
 - Phase 1: Completed June 15 2016
 - Phase 2: Estimated time for completion Q3 2016



<u>~85%</u> prediction accuracy, <u>50%</u> faster decisions, resulting in <u>TTM advantage</u>



Optimize Antenna Azimuth *Project with Antenna Vendor*

- Topics:
 - Analyzing radio performance at different transmission angles
 - Predicting optimal angle schedule per antenna
- Data sources: Network KPIs, Weather, Social media
- Components: IncelliAna, IncelliOpt
- Estimated completion: 2016 Q4
- Areas of interest for collaboration after this project:
 - Installations to mobile network operators
 - Maintenance & Support
 - Further evolution of platform
 - Vendor OEM reselling



>30% gain in base station performance Dynamic adjustment -Follow the traffic - Predict Optimized positioning

Challenge Up







IoT Accelerator



Monetize Mobility and BSS data PoC with a strong MNO in Region Middle East

- Topics:
 - Big data monetization
 - Analytics and predictions of footfall and dominant mobility paths in Malls and other Commercial zones
- Data sources: Network, Demographics, Events, Social media
- Components: IncelliAna, IncelliSim
- Estimated completion: 2016 Q3
- Areas of interest for collaboration after this project:
 - Ongoing business development for all relevant zones of the country
 - Additional areas of big network data monetization





Improve Net Promoters Score (NPS) PoC with a Large MNO, part of global group



- Topic:
 - Predictive identification of subscriber low quality of service incidents
 - Action: activate customer care
- Data sources: Network, Marketing, Weather, Social, etc.
- Components: IncelliAna, IncelliOpt, IncelliSim
- Estimated completion: 2016 Q2
- Areas of interest for collaboration after this project:
 - Predictive / Personalized QoS net analytics & management
 - Proactive evaluation of campaigns



IoT, 5G Services and Network Management

Topics:

Proof of Concept (PoC) architecture and platform, enabling enhanced IoT services to be delivered efficiently in a 5G environment through the use of a proactive management framework with monitoring, analysis, learning, predictions and configuration capabilities. The demo showcases the delivery of high quality IoT services through the real time performance monitoring and reconfiguration of the virtual Evolved Packet Core (vEPC) VNFs (e.g. PCRF, HSS, MME) and the IoT LoRa gateways in order to follow the requirements of the deployed IoT services (e.g. mix of MBB/MTC/MCC services, required level of reliability etc.).





Standards and R&D





Strategic Partnerships



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Geo Coverage

Global Reach



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