



# Anomaly Detection and Troubleshooting with 3P Model

- **P**reventive
- **P**redictive
- **P**roactive

# Current Analysis & Inspection Models at Networks

## Hardware Inconsistency

Cross Sector Connection



RSSI Abnormality



RET Device Malfunction



Inefficient Hardware Utilization

## Focusing on Several KPI Targets

Lack of KPI Correlation



Limited Boundaries for Fine Tuning Activities

## Inevitable Negligence

Huge Size and Number of Automated Reports

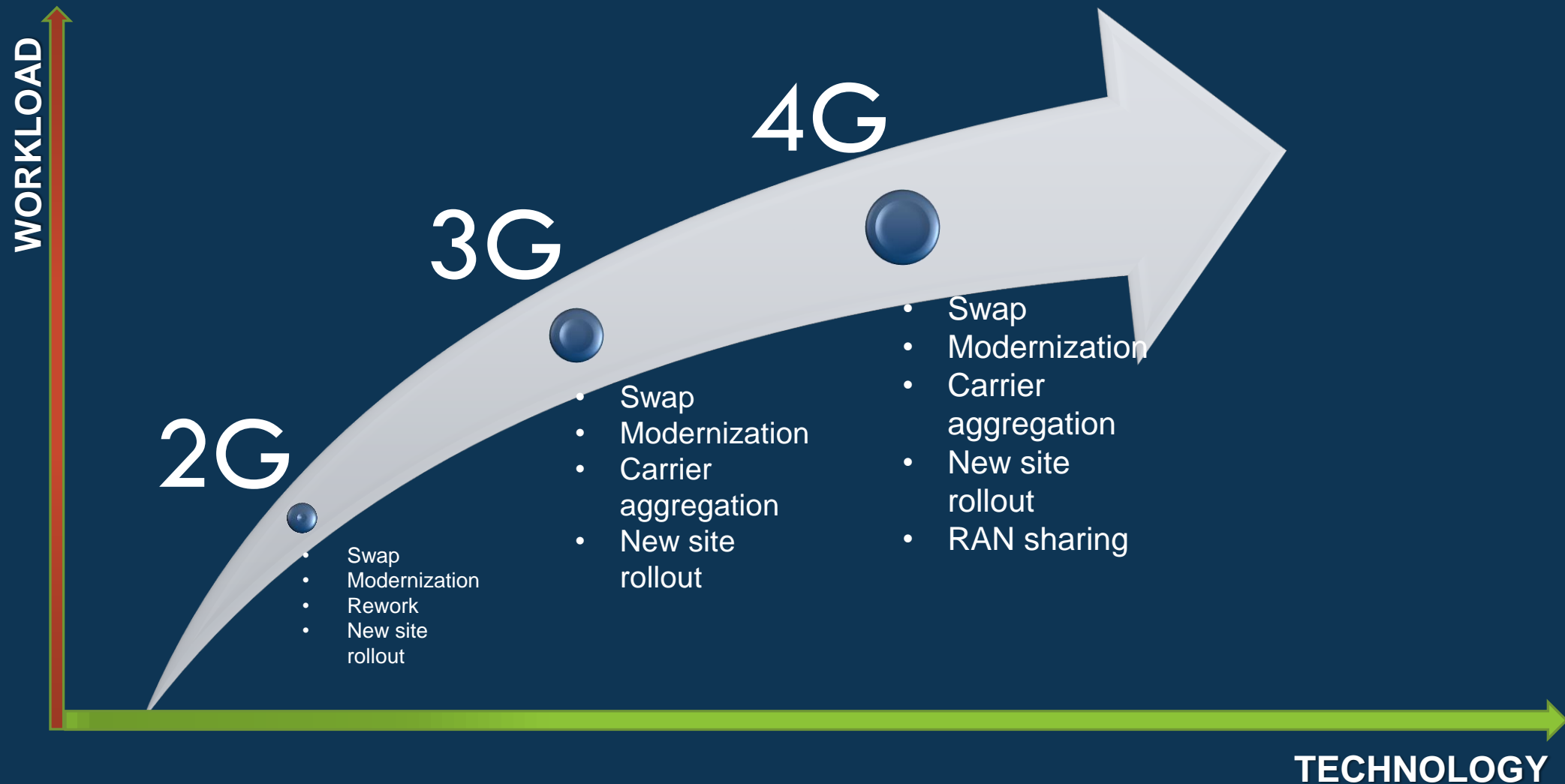


Heavy e-mail Traffic for Reporting



Late Corrective Actions

# Current Analysis & Inspection Models at Networks



# 3P Model for Mobile Networks

## Improved Hardware Performance

Unstable Performance Inspection



Improved Capacity Utilization



Precise Investment Forecast with Reinforcement Learning

## Progressive KPI Monitoring

Relational and Tailor-made Algorithm Generation



Innovative Fine Tune Options with AI

## Accurate Perception

Integration of Source-free Big Data with Flexible Trained Models



Organized Task Management



Precise and Agile Actions

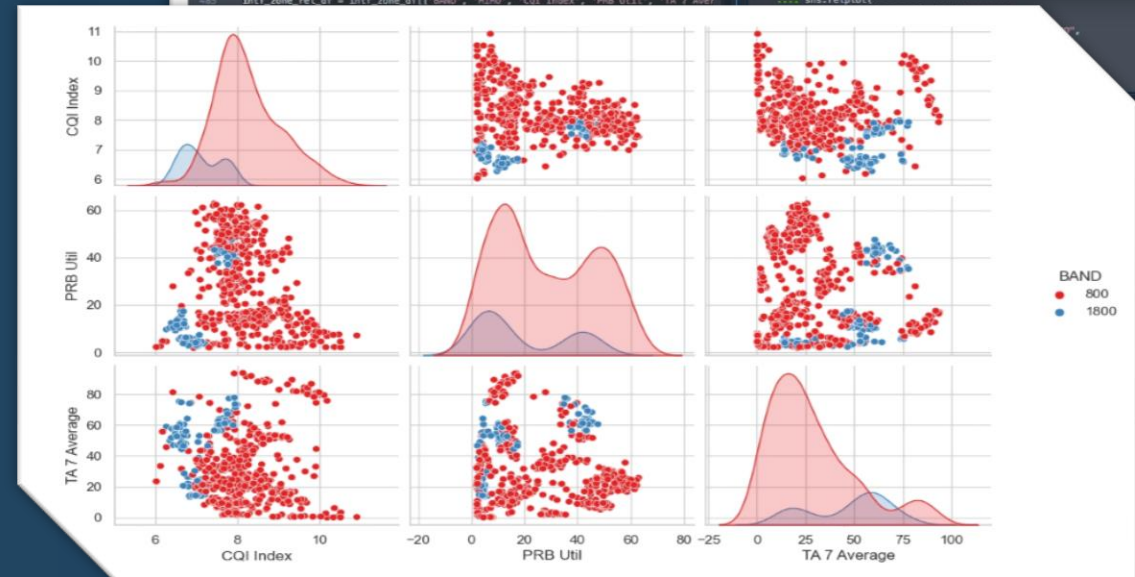
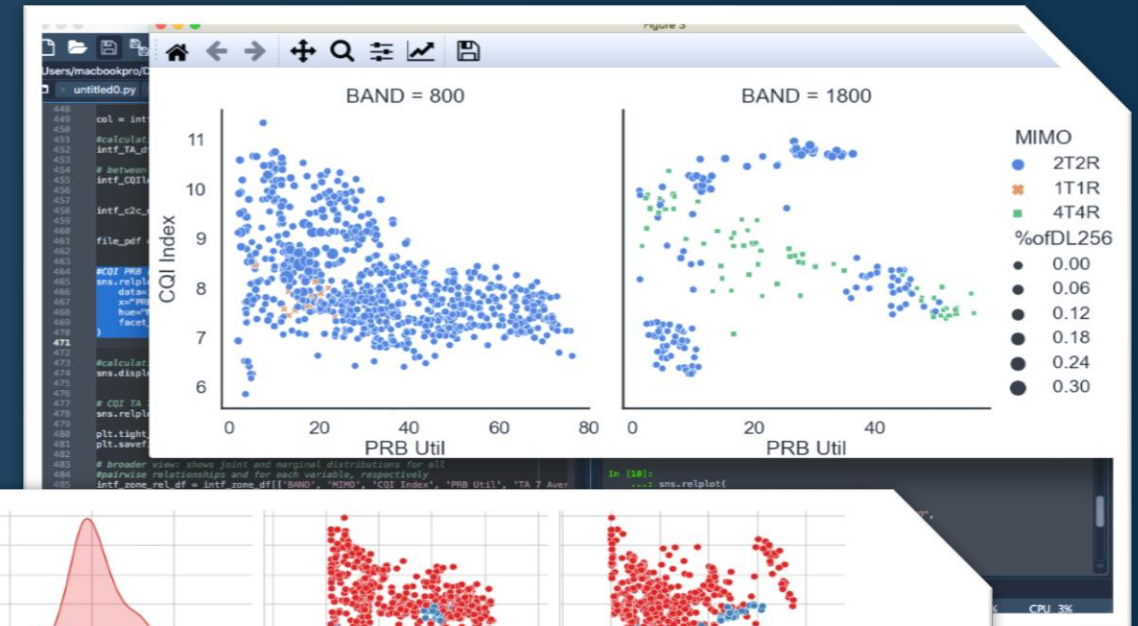
# 3P Model for Mobile Networks

## KPI Analysis and Optimization

Generating customized tailor-made codes and monitoring KPI's with big data.

Case specific detections and validity control

Determination with 3D graph theories



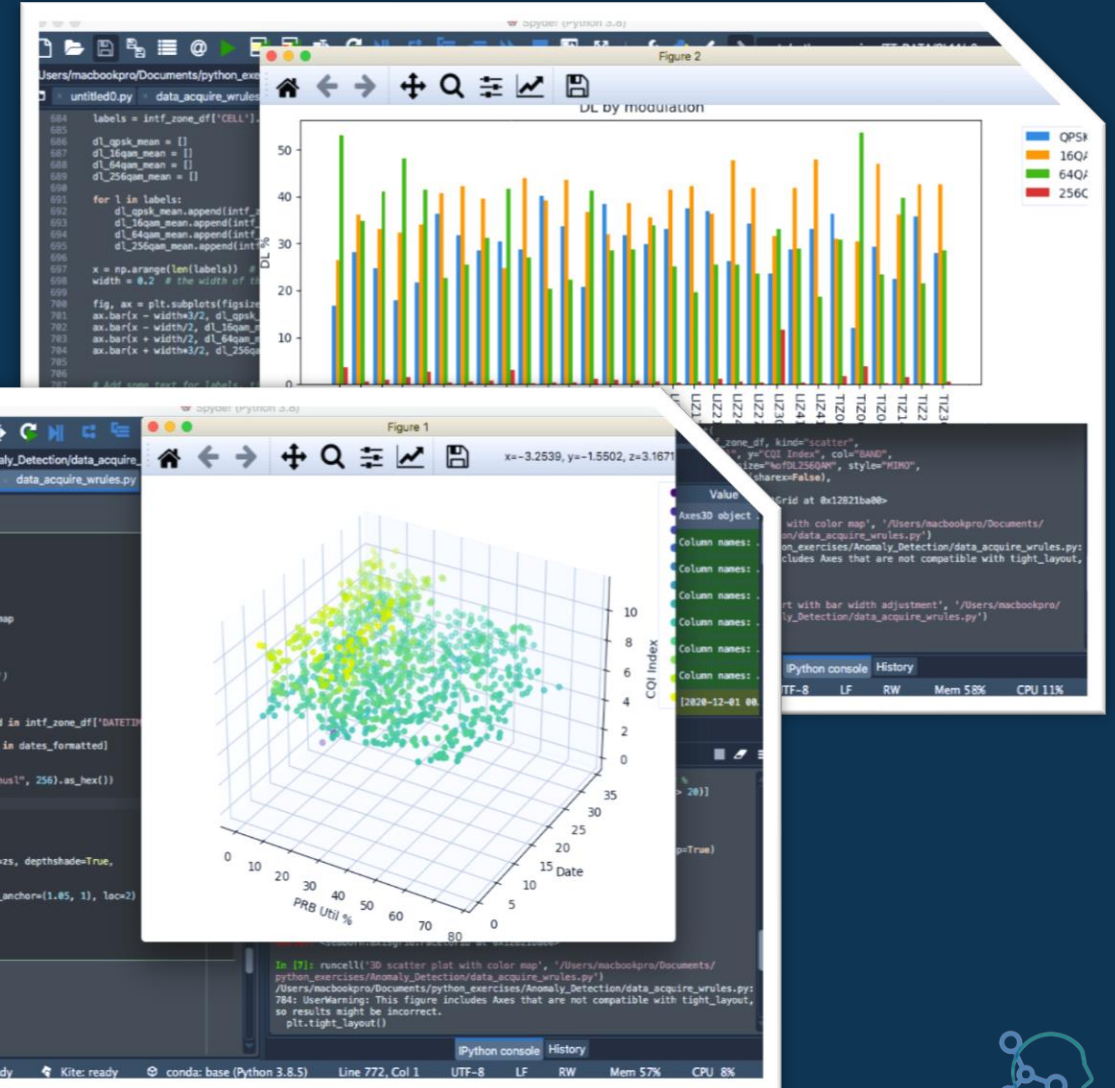
# 3P Model for Mobile Networks

## Fine Tune and Benchmark of KPI Results

Anomaly detection regarding to defined KPI formulas

Analytics with Flexible time period options (Annual, Q-Based, Monthly, Hourly)

Traffic steering and load balance analysis for efficient resource utilization





# 3P Team

CO-FOUNDER



NAMIK ISIK

MBA BSc. Electronics Engineer

- +25 Yrs of managing experience
- +20 Yrs of Telco Business consultancy

CO-FOUNDER



H.YIGIT ISIK

MBA BSc. Electronics Engineer

- 15 Yrs of Telco Experience
- 7 Yrs. Planning & Optimization Expat (KZ, Geo., Azb., Palestine)
- Operation Management
- 4 Yrs Turkcell
- 3 Yrs Vodafone

CONSULTANT



DOĞAN ALTUNBAY

PhD. Candidate MSc.  
Computer Engineer

- 13 Yrs of SW development Experience
- 4Yrs Govn't R&D Projects
- 3 Yrs Defense Industries Consultancy

CONSULTANT














SERDAR KARAASLAN

MSc. Cyber Security  
BSc. Electronics Engineer

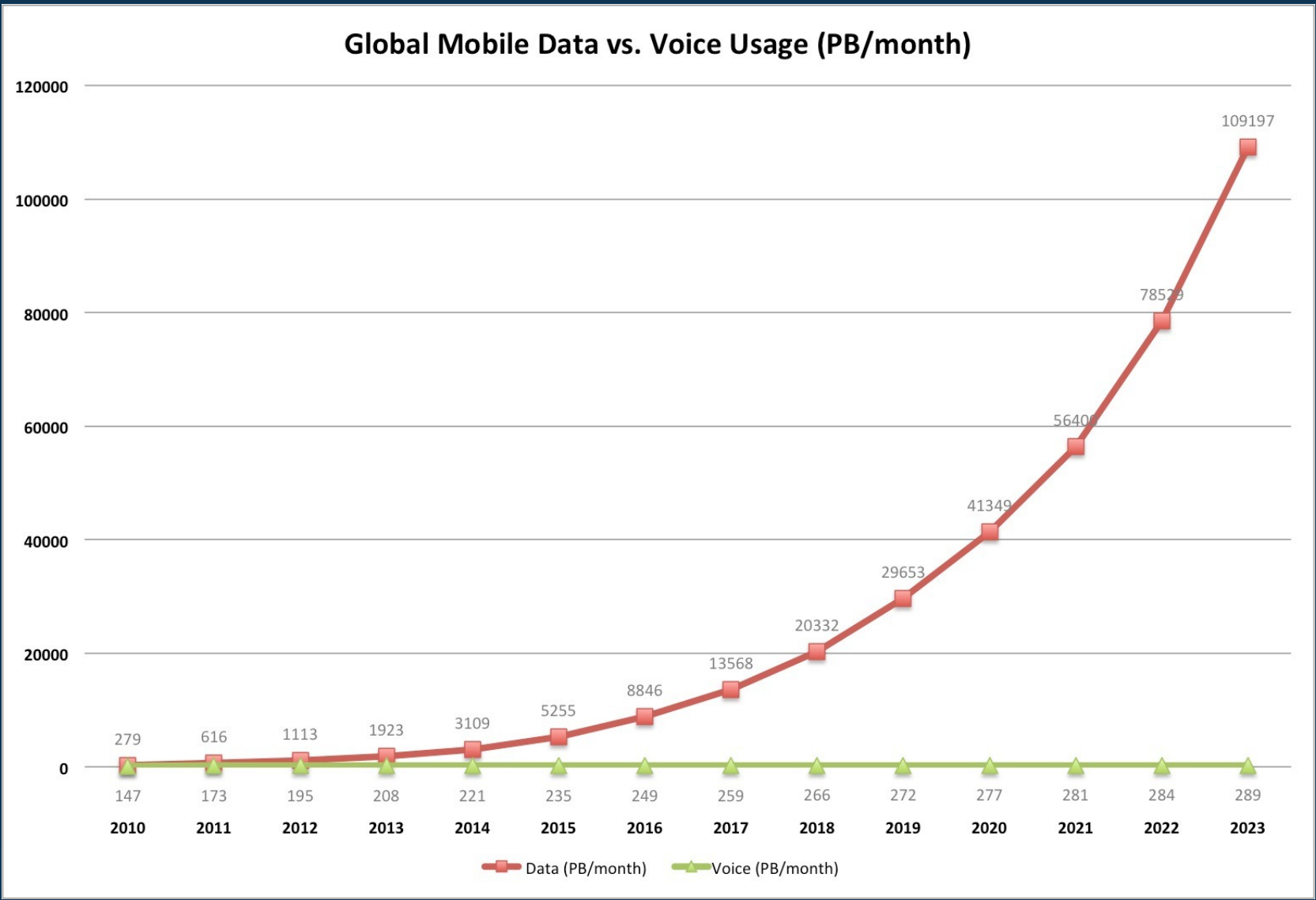
- 13 Yrs of Telco Experience
- 9 Yrs. Planning & Optimisation Expat (UK, Iran, Palestine, Geo.)
- 4 Yrs Turkcell

# Feature Comparison Matrix

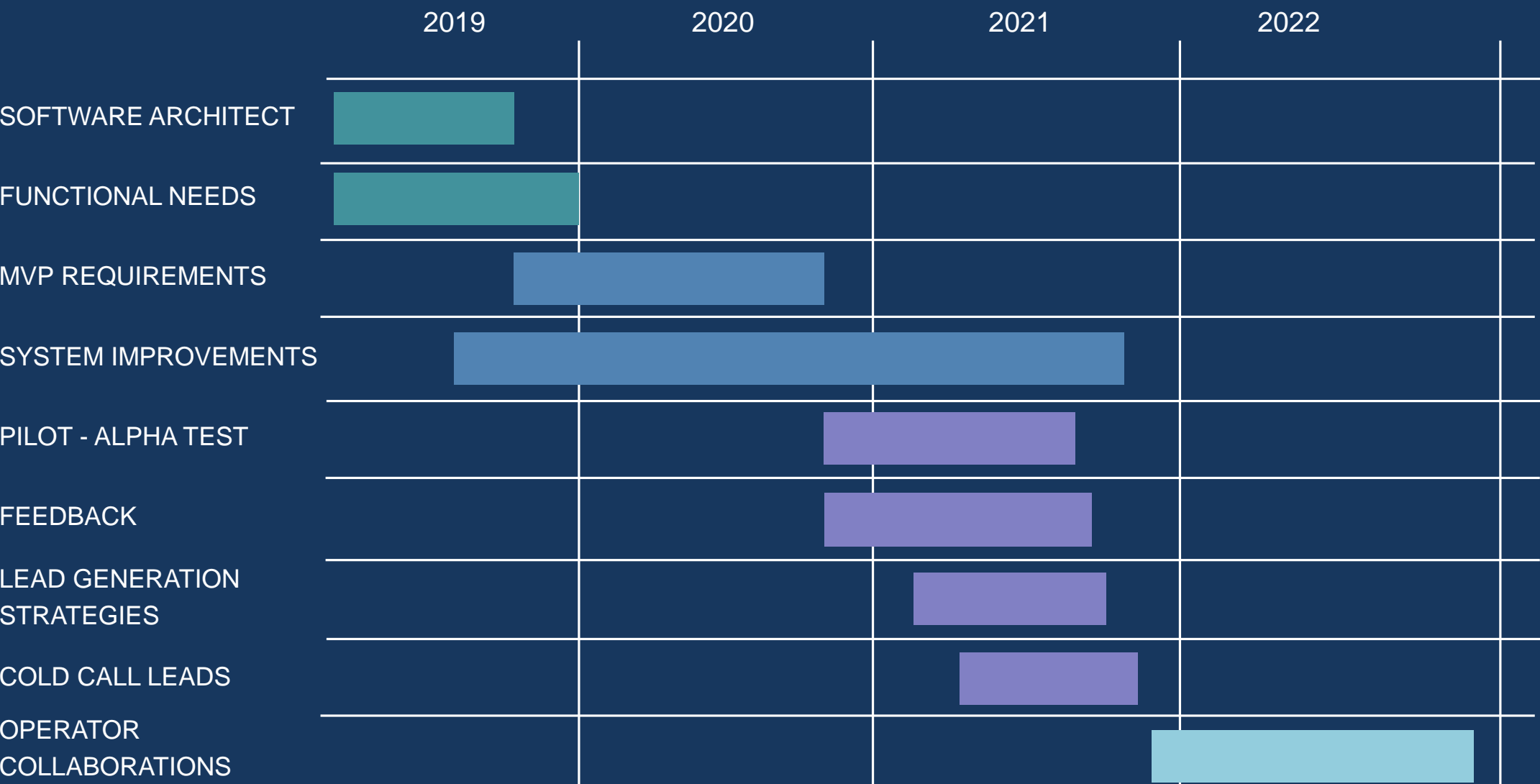
	3P MODEL	OPPONENT FEATURES
FAST CALCULATION		
GEO-LOCATION		
EASY DIAGNOSTICS		
COVERAGE PREDICTION		
DEMAND-LED ACTIONS		
REPORT GENERATION		
LICENCE FREE		
SOURCE-FREE DATA CONCATENATION		
CUSTOMER COMPLAINT DRIVEN ANALYSIS		



# Mobile Networks Market Demand Growth



# Road Map



# Contact Us!

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