

RADIO PHYSICAL NETWORK INVENTORY

For Open Radio Network Access Network



SIT DIGITAL



SIT Digital Introduction

- Engineering Competence Centre
- Consultant of consultants
- ESRI Silver Partner, Utility Network Specialized
- Market leader in Digital Solutions, Specialized in;
 - Physical Network Inventory, Engineering & Consultancy
Transmission, Metro, Access
 - Geographic Information Systems (ESRI GIS)

Innovators



Presenters



Raja Ijaz Haider

Principal Consultant / President

- Based in Saudi Arabia
- Subject matter expert for engineering designs
- Worked closely with 12 operators
- Served and supported in 9 countries

- Network trainer and technical documents writer
- 20+ years of fiber experience with 15 years of C-Level
- 500+ CEOs and CTOs active connections & collaborations
- Top of the pyramid thinker, advisor and decision maker
- 10+ billion USD budget control experience

Shawaz Ahmad

Consultant GIS & Design

- Based in Gujrat, Pakistan
- Subject matter expert for ESRI GIS
- GIS for radio inventory expert
- Team leader

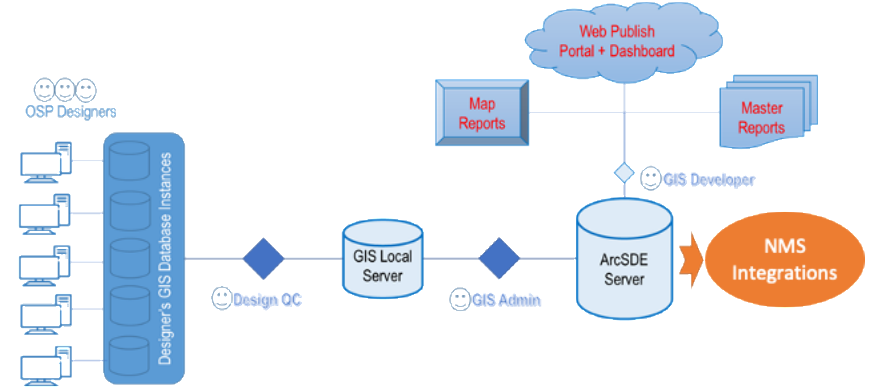
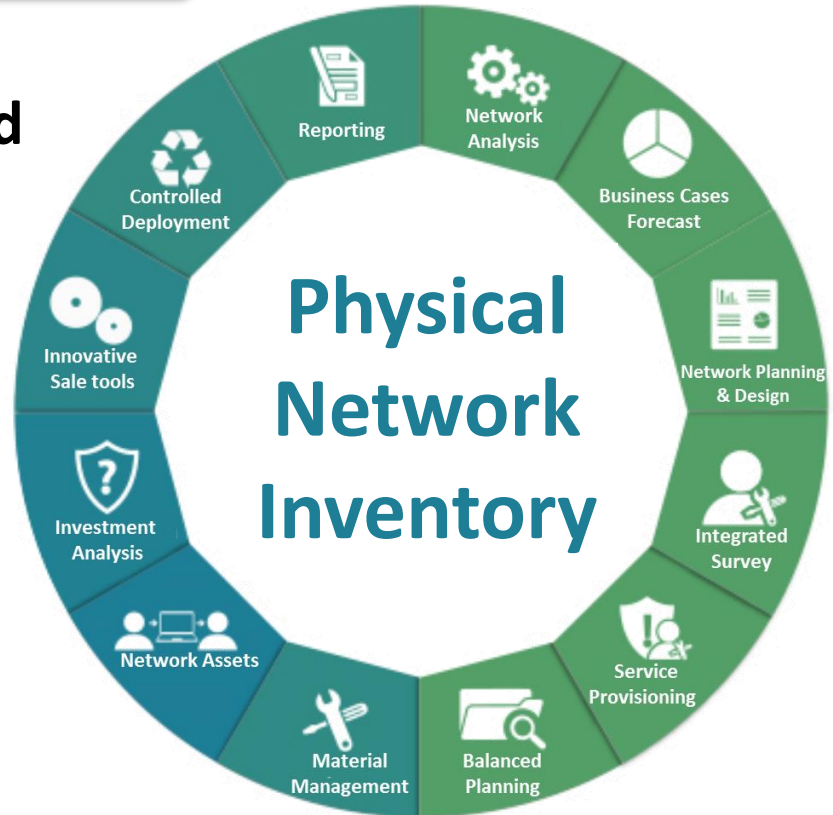
- ESRI Enterprise Solution architect
- GIS Trainings and Technical document writeup
- 5+ years of experience in relevant domain
- Served and worked with customers from 9 countries
- 100+ CEOs and CTOs connections



State of the art OSS & physical network inventory

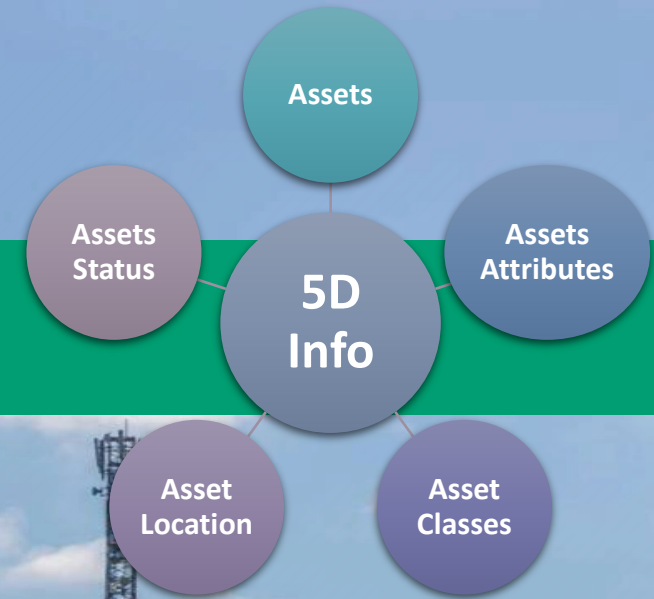
State of the art GIS based physical network inventory should enable at least:

- 100% network visibility in map-based web applications and mobile applications
- Asset leasing and utilization visibility. Single port level depth of information.
- Radio network planning
- Physical network inventory integrated with active network inventory
- Network Analysis, utilization reporting & depreciation





Open RAN PNI Solution



Survey

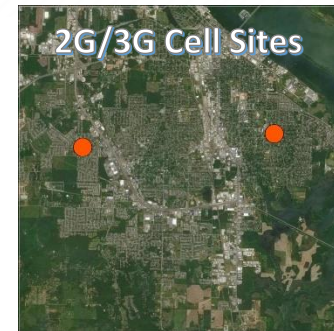
Dashboard & Reporting

Planning & Design

Work Order Management

Inventory

Integrations



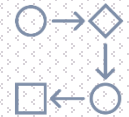


SIT Radio PNI - Product

Web Application



Create, Edit, Delete Assets



Workflow Management



Survey Management

24/7 Access



Access from any device



User Tracking & Logs



Add map from any service

The screenshot displays the Radio UMS web application interface. On the left, there is a sidebar menu with modules: Survey Module, OSP Planning & Design, ISP Module, Connectivity Module, Reporting & Printing Module, WO Management Module, and Warehouse Module. The main area shows a satellite map with several tower locations marked as 'TWR-125ba', 'TWR-127ba', 'TWR-128ba', and 'TWR-129ba'. A 'Details' window is open for a selected asset 'CLS-D52545612', showing a tree view of components (Container 1 with Multiplexer-SAD-F-2565, OPTSwitch-SAD-Q-2516, and Splitter-QWE-F-2556; Container 2) and a detailed information panel. The details panel includes fields for Reference, Category, Type, Subtype, Status, User Reference, Comments, Owner, Owner Contact Number, Secondary Owner, Installation Date, Installation Method, Manufacturer, Model Number, and Store Inventory ID. An 'OSP Editor' window is also visible on the right, showing a list of templates for creating features, such as 'FAT', 'JCL', 'OOB', 'PoleBox', 'Stackloop', 'MDU', 'SDU', 'VA', 'CO', 'Others', 'POP', 'OFC', 'OFC_ADDS', 'OFC_Micro', and 'OFC_OPGW'.



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Radio Network Inventory Development

Physical Network Design



ISP Network Design and GUI



Detailed Specification of Network Assets



Management of Survey Data for Radio network



Fiber and Ports Splicing user interface

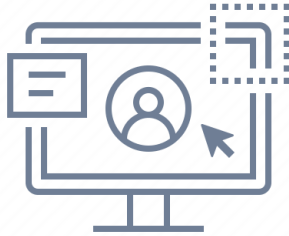


Power allocation and signal strength design



Quick data import (.csv, .kml, .shp)





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Radio Network Engineering, Audit & Reports

Generate construction packages



Analyse and map coverage of Network



Generate reports of network in Realtime



Radio PNI use-cases



Project Management

Cost Control

Time Control

Scope & Quality Control

Workorder / Workflow Management



Work force Management



Enterprise Content management



Manage Store Inventory





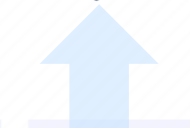
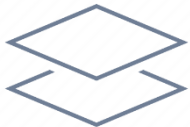
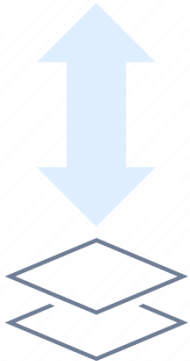
Radio PNI use-cases



GIS Portal



GIS Server

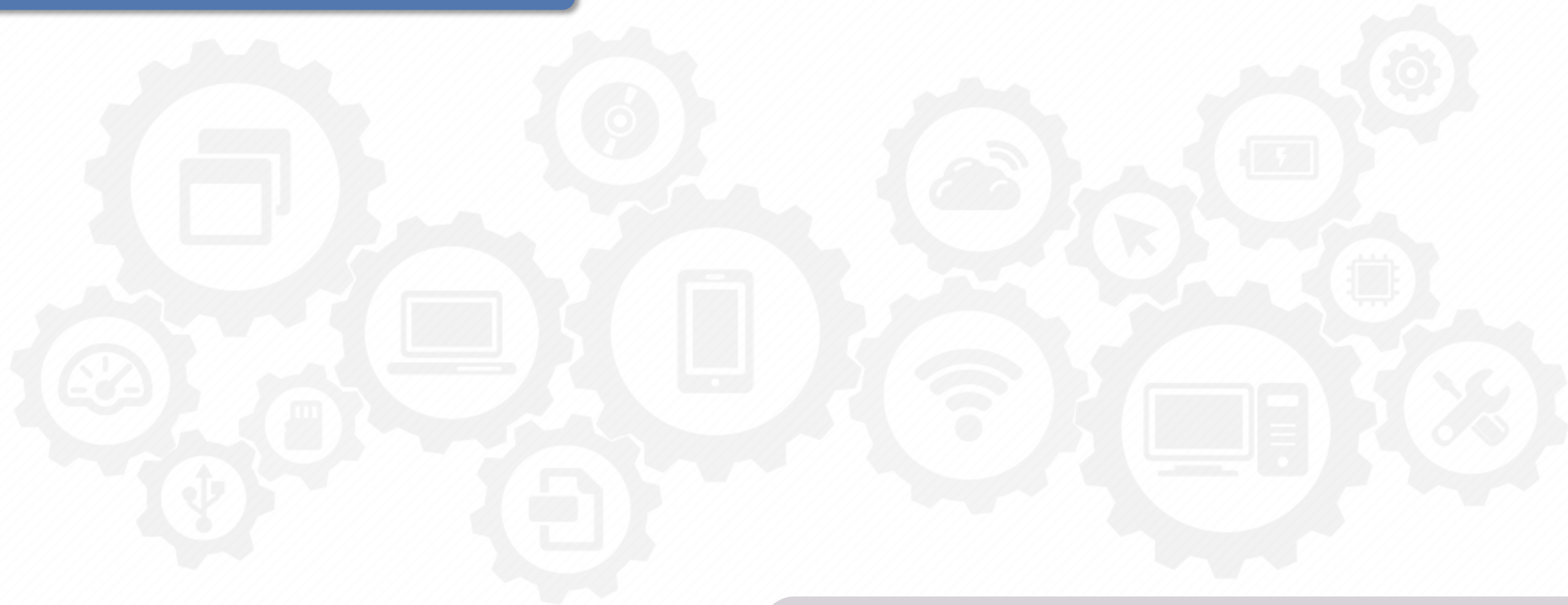


Database Server



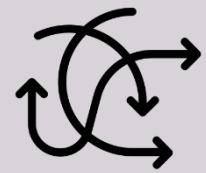
Portals & Dashboards

- 100% Network visibility
- Progress Monitoring
- Realtime Network Summary



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Integrations



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