



7 May 2020

# Network Data Monetization

## Get there **Faster** with AI

**SHRIRANG BAPAT**

CTO - Software Business, Sterlite Tech



# Agenda

- Data is the nucleus of Digital
- Data Centric Organizations
- Introducing Intellza
  - Customer's Network Experience and its impact on NPS
  - Spectrum Utilization with Edge Analytics
  - Artificial Intelligence for Perimeter Security and Network Ops
- Recap



# Agenda

- **Data is the nucleus of Digital**
- Data Centric Organizations
- Introducing Intellza
  - Customer's Network Experience and its impact on NPS
  - Spectrum Utilization with Edge Analytics
  - Artificial Intelligence for Perimeter Security and Network Ops
- Recap





# Data has always been there..

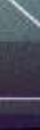


What has changed is ...

## Our Ability to

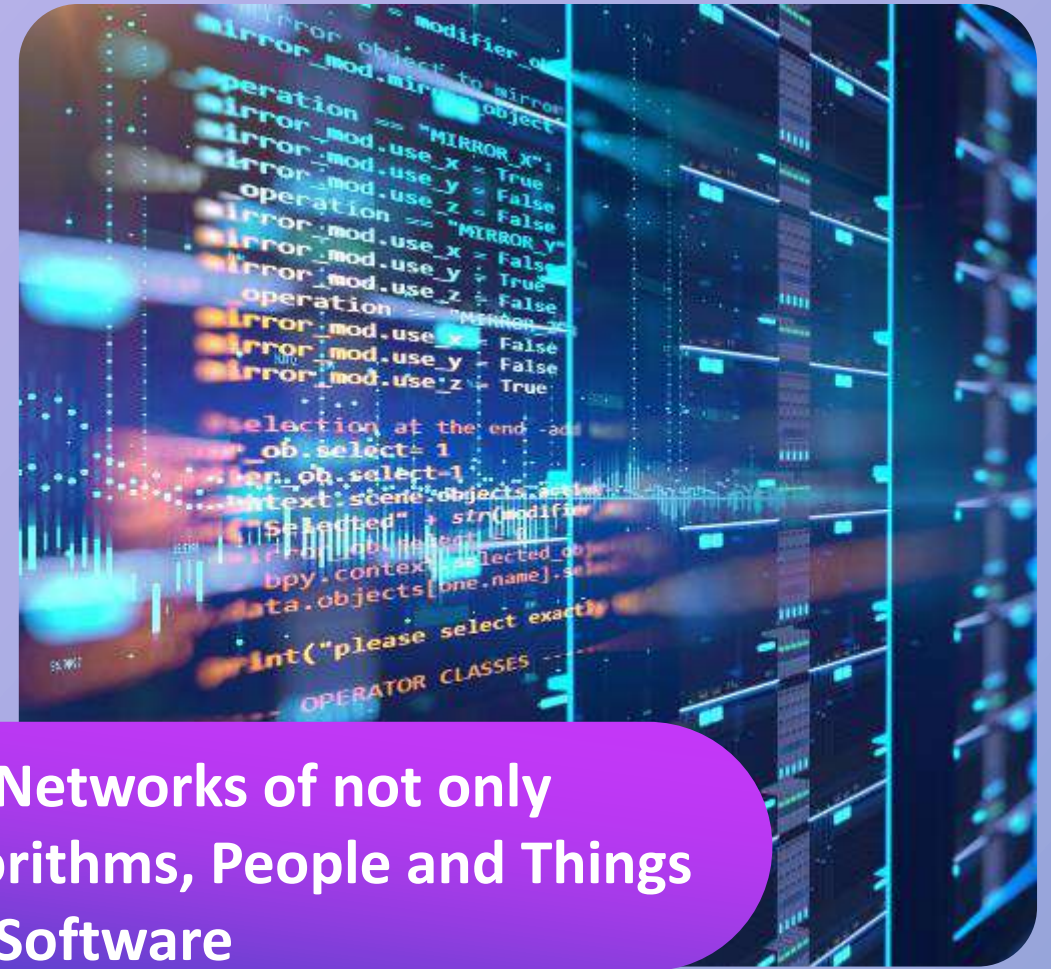
- Capture
- Process
- Analyze
- Store
- Distribute
- Synthesize

## Has Improved Exponentially !



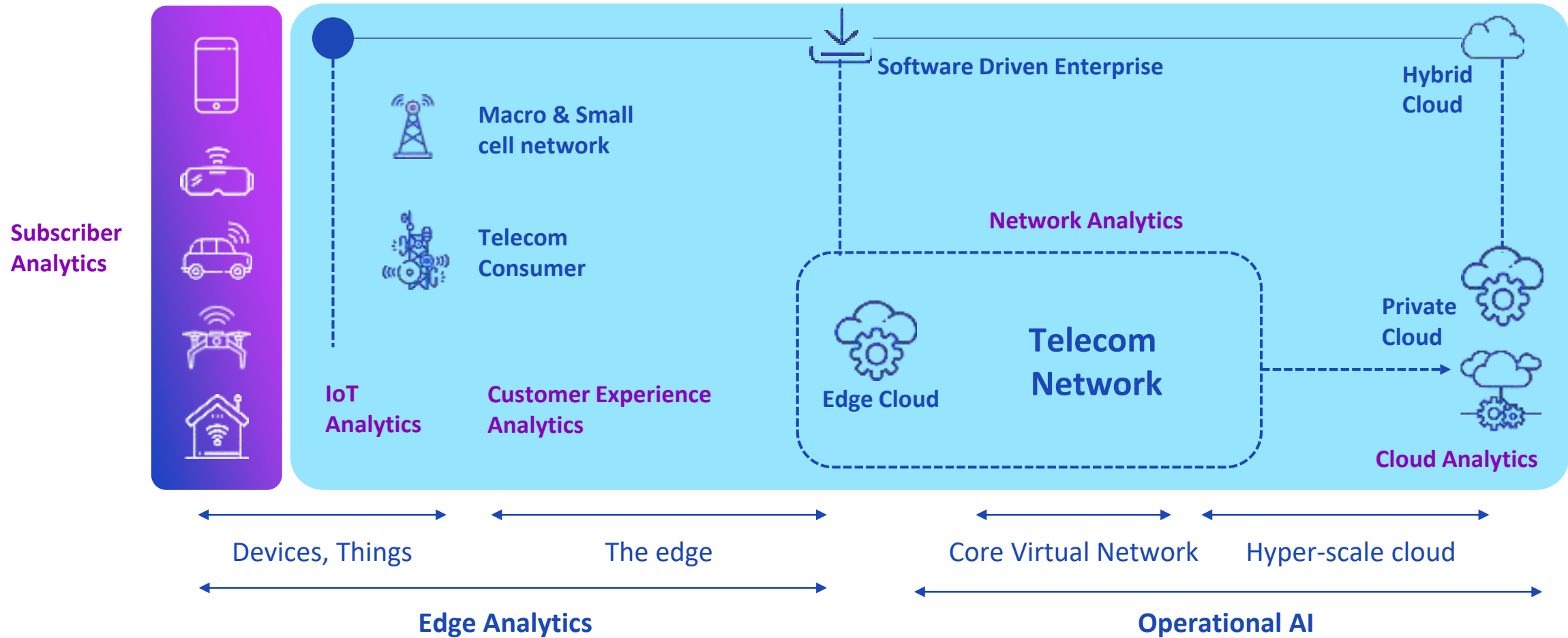


# Networks have always been there



They have evolved into Digital Networks of not only Computers but also of Vehicles, Algorithms, People and Things interconnected by Software

# And with everywhere analytics an opportunity to monetize them is there too..





**And now is the perfect time as  
Data storm is brewing...**

**Virtualized Networks**

**Data Platforms**

**Edge Computing**

**Real Time Streaming**

Which is the greatest challenge to network data monetization in your organization?

- Lack of industry vertical expertise outside of telecom
- Uncertain RoI of data analytics projects
- Lack of internal data analytics expertise

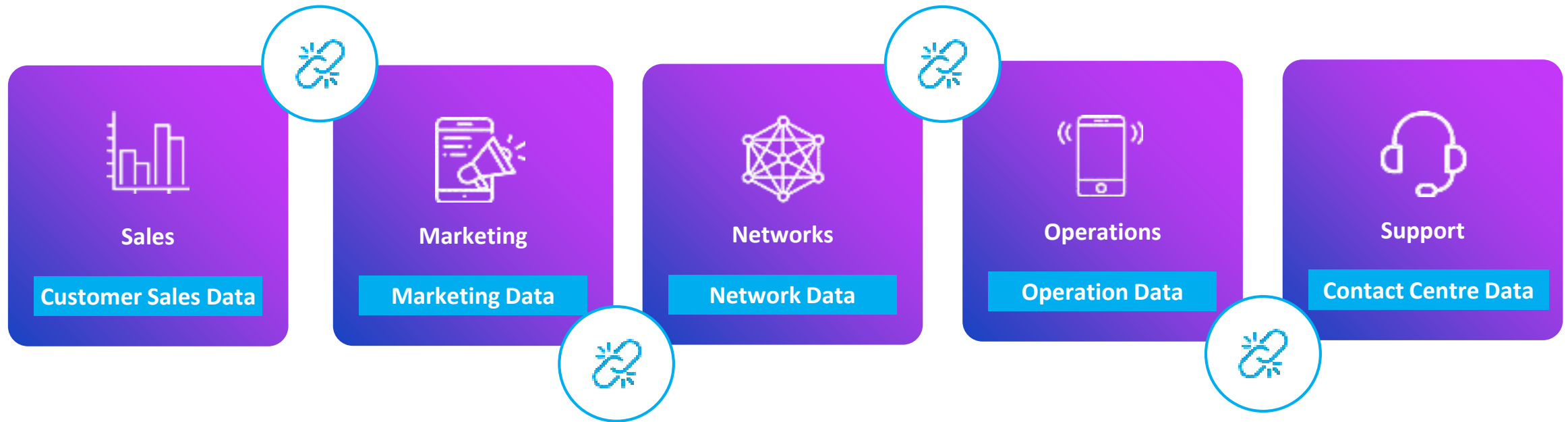


# Agenda

- Data is the nucleus of Digital
- **Data Centric Organizations**
- Introducing Intellza
  - Customer's Network Experience and its impact on NPS
  - Spectrum Utilization with Edge Analytics
  - Artificial Intelligence for Perimeter Security and Network Ops
- Recap



# Today most of the Telco are organized around functions..



**Departmental, Functional Alignment  
results in Data Silos**

# Now, The need of the hour is to move to a DATA Centric ORG



Relevant Insights  
for Various  
Functions

  
Marketing

  
Sales

  
Networks


  
Operations

  
Support/Care


Common Data Platform

Data Ingestion  
from Various  
network elements

  
Social  
Networking

  
Real Time  
Gaming

  
Autonomous  
Driving

  
3D Printing

  
Personal Cloud

  
Video Streaming

  
Virtual Reality  
Augmented Reality



# Data centric organizations are towards..



**~23X**

**More customers  
Acquisition**

**~6X**

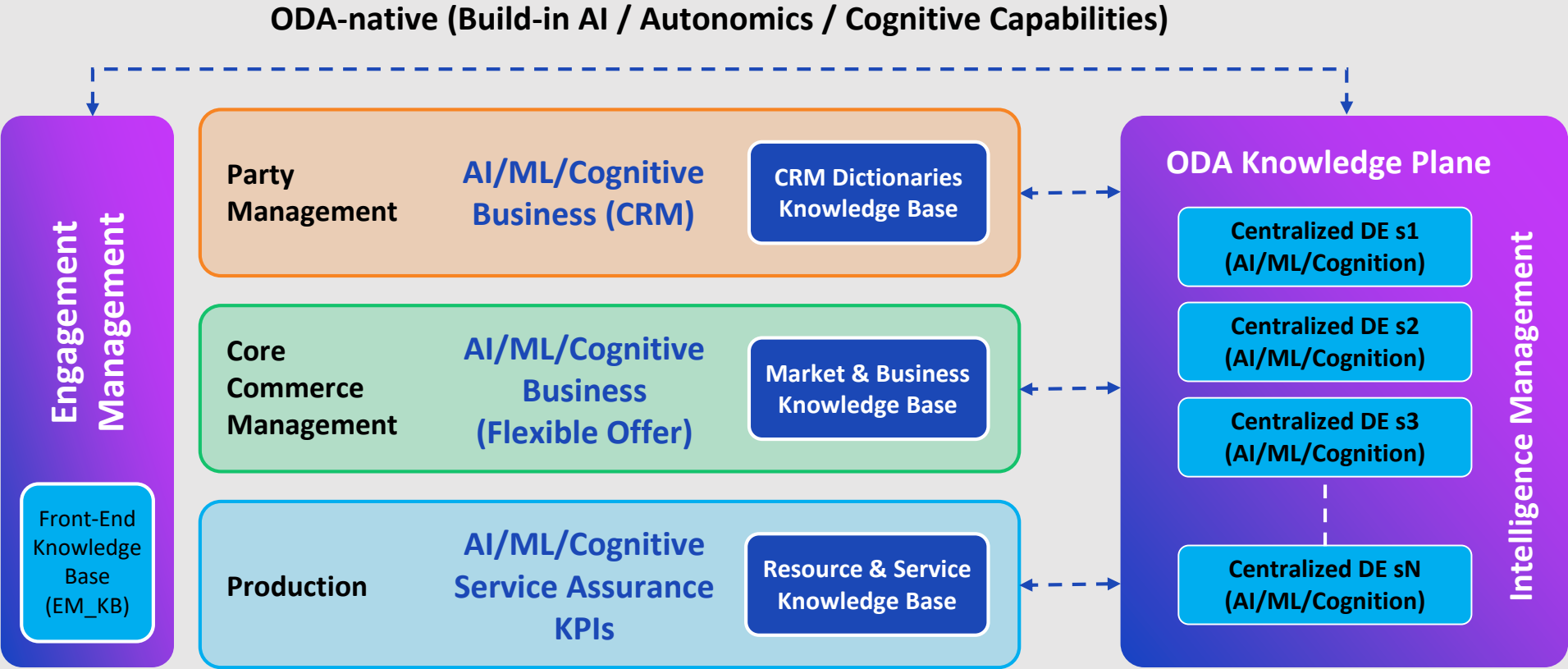
**likely to retain  
customers**

**~19X**

**likely to be  
profitable**

IDC predicts that **31.5% of the telecommunication organizations** are mainly focusing on utilizing current infrastructure and **63.5% are committing investments on AI systems.**

# Telcos are reinventing using AI across O/BSS Systems to become data centric



Data is the common fabric that enables all the functions and is the Real World Vibranium

TM Forum Open Digital Architecture

# Data and Analytics delivering Value to the Business



Volatility

Velocity

Volume

Validity

Variety

Customer Analytics

Personalized Offerings

Network optimization

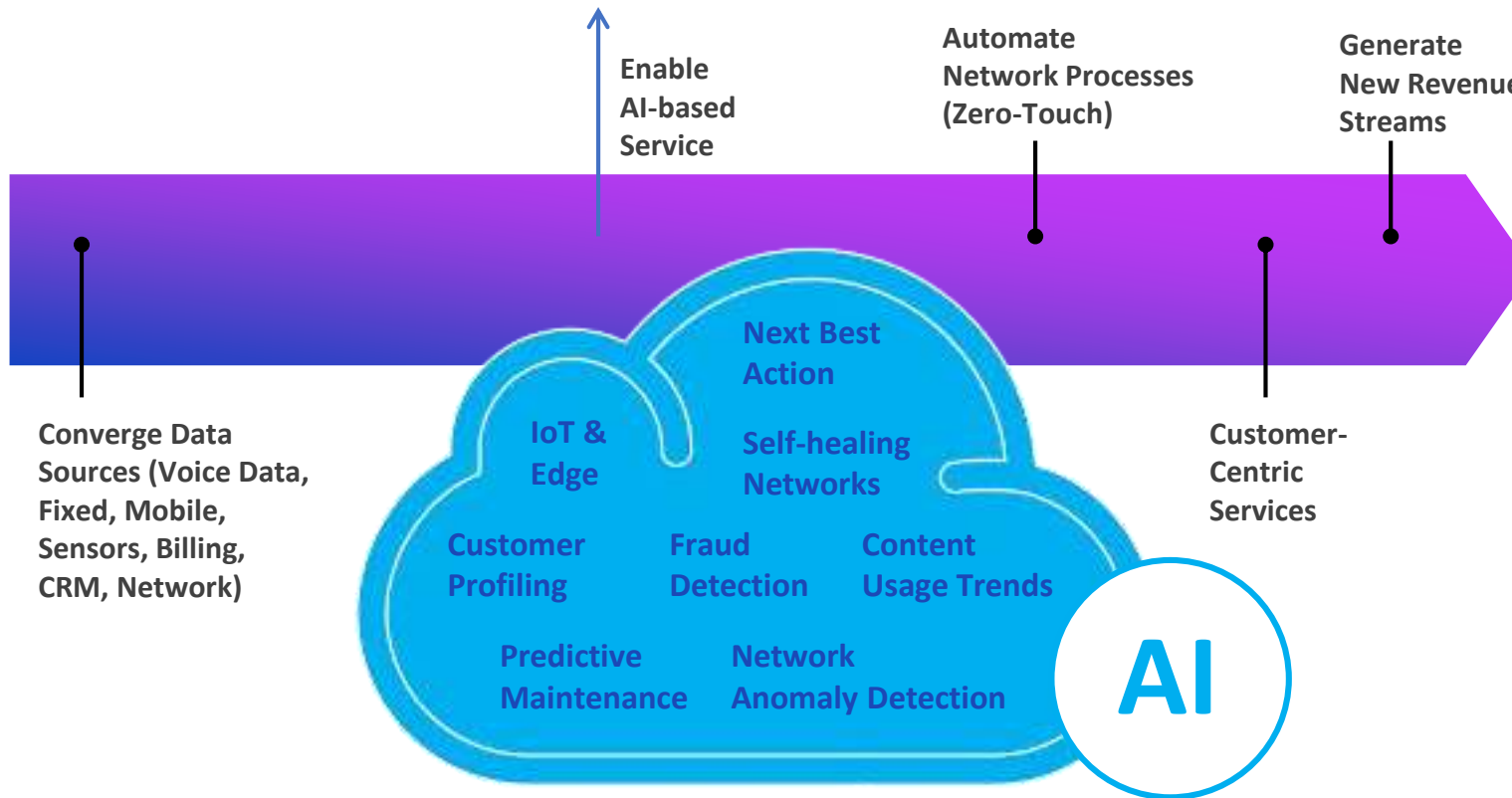
Data Forecasting

**Actionable  
Business  
Insights  
(Value)**



# And how with AI we could derive value faster

## Towards a subscriber-centric paradigm



- Complex decisions based on detecting a large number of hidden or hierarchical influencers
- Self-learning
- Self-healing
- Autonomous decision making
- Delivering an enhanced CX

Which analytics use case do you see as most attractive in the networking domain?

1. Customer Experience
2. Operations and Support
3. Network Optimization
4. All of the Above
5. None of the Above / Other

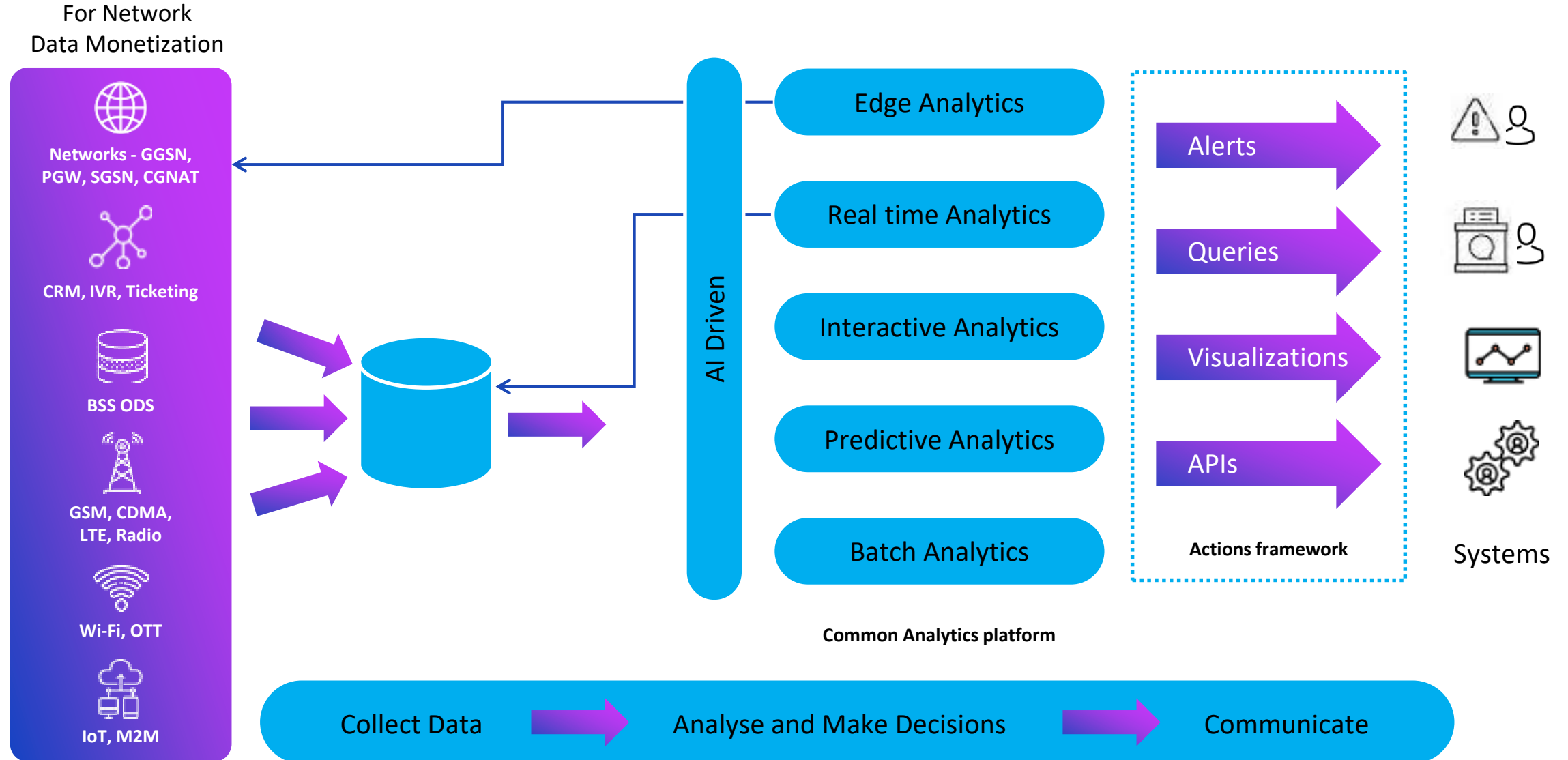
# Agenda

- Introduction – Data-based Business Models
- Data is the nucleus of Digital
- Data Centric Organizations
- **Introducing Intellza**
  - Customer's Network Experience and its impact on NPS
  - Spectrum Utilization with Edge Analytics
  - Artificial Intelligence for Perimeter Security and Network Ops
- Recap





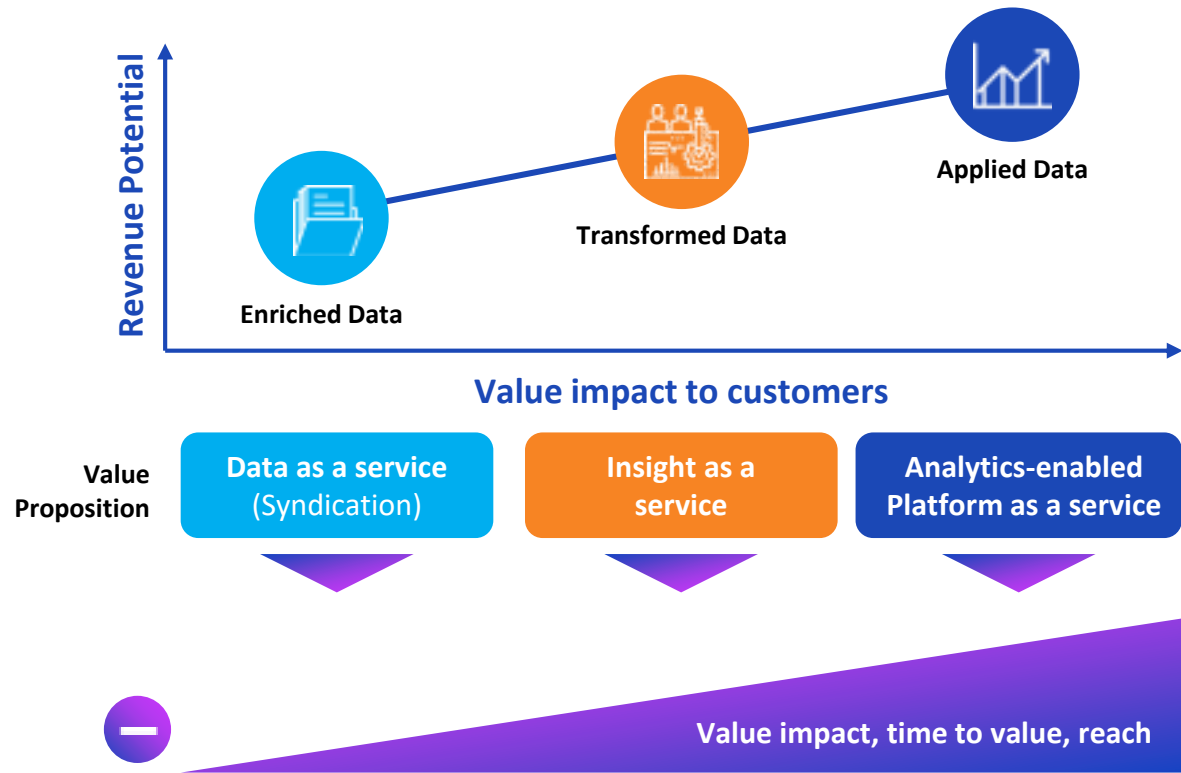
# AI Driven Data Intelligence Platform ~ Intelliza



# AI driven Network Data Platform



## Sterlite Intellza



## Common Network Data Platform to enable

- Customer Experience
- Network Experience
- Predictive Capacity
- Fibre Optic Network Fence

# Where are you applying AI today?

1. Customer Experience
2. Customer Support
3. Billing and Operations
4. All of the Above
5. None of the Above





INTELLZA IN ACTION

# Intelliza Use Case 1

## Network Performance – Supervised Learning



**User App for  
Network  
Experience**

**Supervised  
Learning**

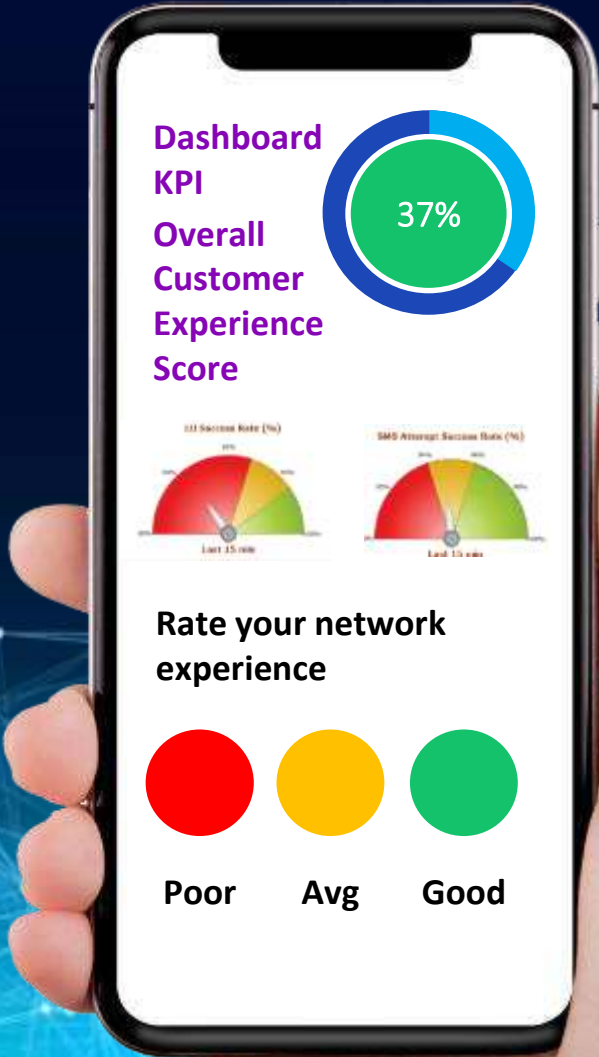
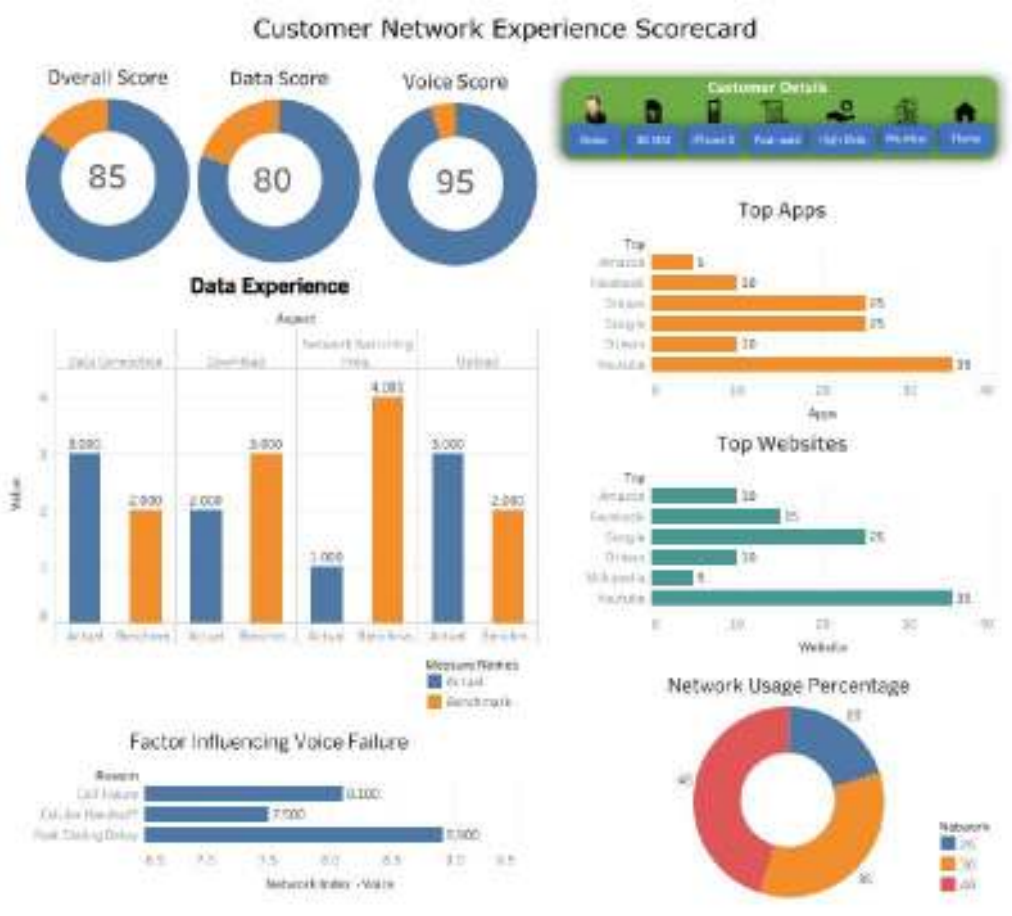
**Network  
Optimization  
Algorithms**

**Improved  
Customer  
Experience**





# Network Customer Experience Scorecard



# Intellza Use Case 2

## Empowered Smart Edge





# Intellza Use Case 3

## Online Journey Analytics

---



**Increase in  
lead to conversion  
ratio and ARPU**

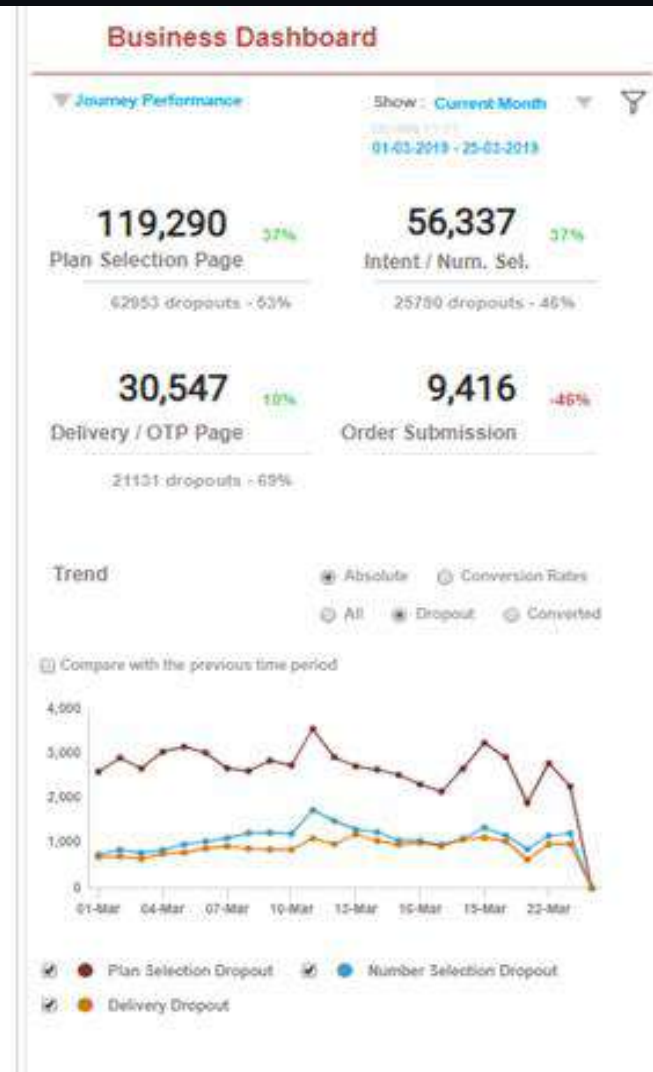
**Optimize and  
personalize the  
customer's path  
to purchase**

**Agile and at scale  
Deployment and  
adoption of new  
customer journeys**

**Self-service  
Customer  
experience aligned  
to preferences and  
behaviour**



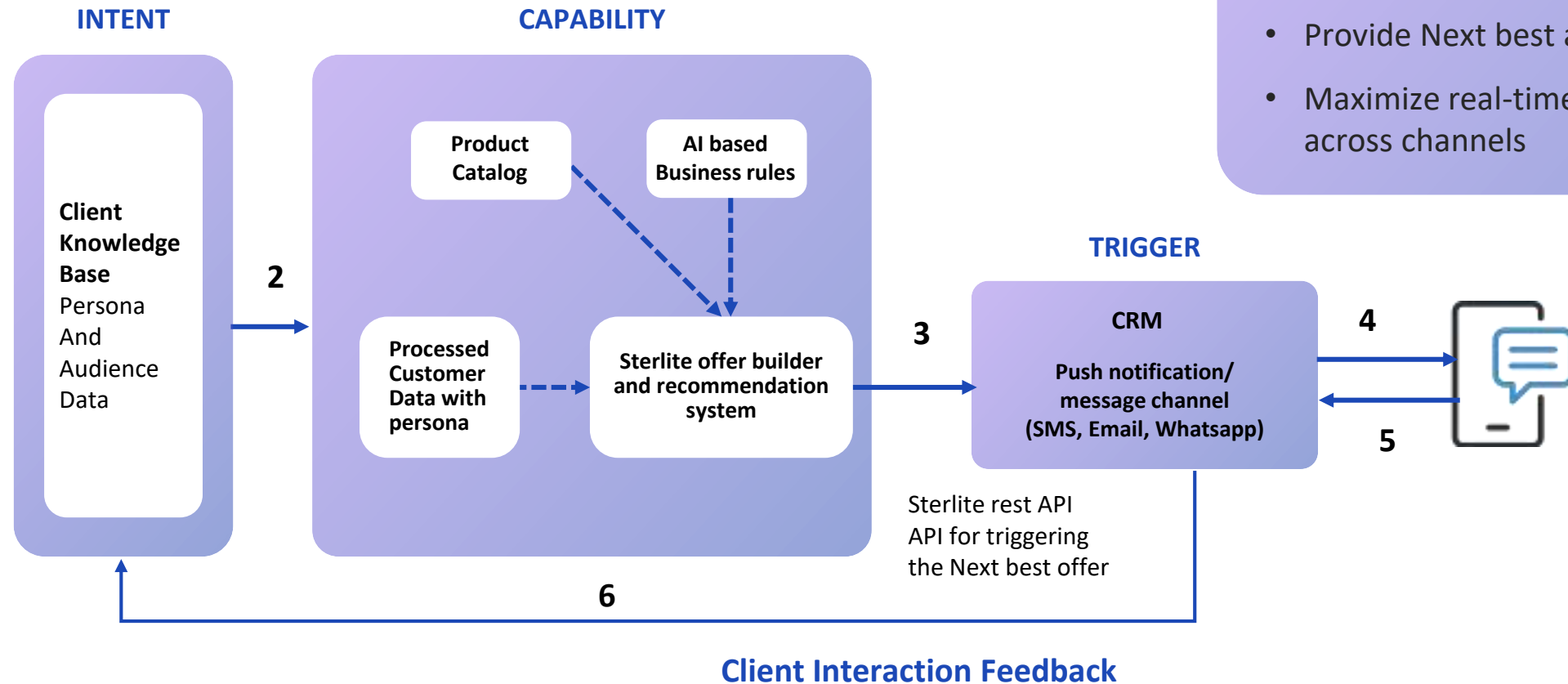
# Online Journey Analytics Dashboard



# Intellza Usecase 4

## AI driven Next Best Engagement

### Sterlite AI System - Intellza



- Multidimensional data view for successful personalization strategies
- Provide Next best actions
- Maximize real-time engagement across channels





## OUR CAPABILITIES ACROSS THE VALUE CHAIN

Optical Fibre & Cable



Converged Network Integration



Programmable Network



Fibre roll out

Software & Intelligence

Presence in over  
**100**  
Countries

Partnering with  
**8** of Top 10  
Global Telcos

**3** Research  
Labs

**8** Production  
Facilities

### Designing, Building and Managing Smarter Networks



# Intellza Usecase 5

## Intelligent Fibre



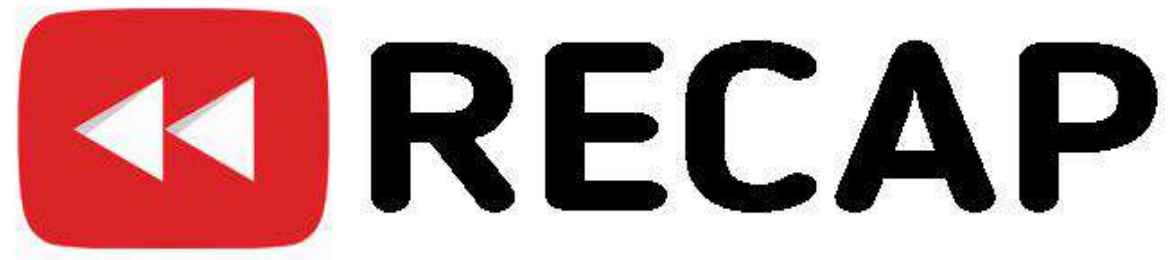
**ANOMALY DETECTION**  
**PATTERN RECOGNITION**





# How AI enabled alarm in real time ?







# Summing it Up..



- Data is everywhere and the same Data can give functional insights to business functions to make better decisions
- With help of AI and being Data driven, Telcos will be in the league of Software Platform Companies
- Artificial Intelligence leads to various new revenue streams and cost reductions
- Intellza Platform from Sterlite helps Telcos to take advantage of the Data Monetization Opportunity





Please send in your questions and comments on Twitter/ LinkedIn



beyond tomorrow

Go to [sterlitech.com/webinars/](https://sterlitech.com/webinars/) to listen to this and many other SterliteTech webinars