Collaboration with small and medium Russian businesses in IoT innovation projects

IoT Service ingredients

SENSORS　　CONNECTIVITY　　PLATFORM　　APPLICATION　　ANALITYCS　　AUTOMATION
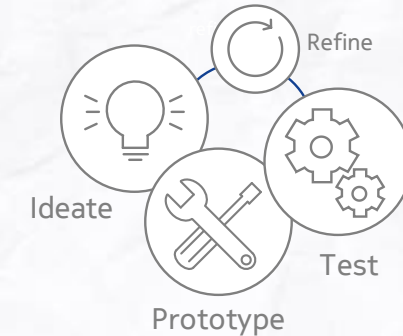
There are six main parts to provide IoT solutions.

We unleash the potential of the IoT through technical and market validation with our member ecosystems: ng Connect and the IoT Community
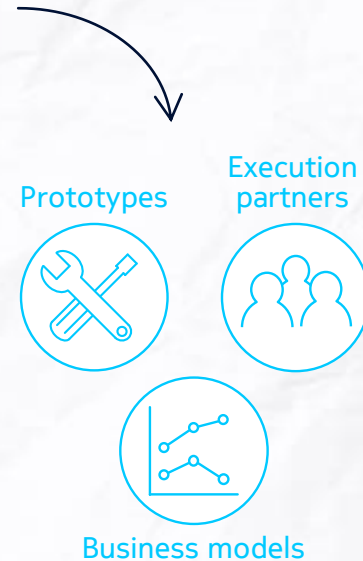
Innovation ecosystem

- Retail & e-commerce
- Automotive & transportation
- Hospitality
- Health & wellness
- Media & entertainment
- Energy
- Service providers
- Tech industry
- Consumer electronics
- Education
- Public sector

ng connect program

Agile prototyping

- Ideate
- Refine
- Test
- Prototype

Concept showcase

- Prototypes
- Execution partners
- Business models

Market trials

NOKIA

Nokia IoT offering

IoT devices and modules

NB-IoT

LTE-M

EC-GSM

MEC

Wi-Fi

MulteFire

LoRa

BT/RFID

From partners*

Radios and MEC

IoT optimized cloud core network

CMM

HSS

Cloud Packet Core

CMG

NB-IOT SCEF

IoT platform (IMPACT)

Device onboarding & management

Data collection & processing

Connectivity management

Application enablement

Solution certification

Security (NetGuard)

Endpoint security

Cognitive network analytics

Applications

Automotive

Utilities

Public safety

Smart cities

Health

From Partners*

Services

Can be supplied	Available in Skolkovo
Available in Cloud	

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*Partner solutions availablity depends on scope

NOKIA

LOCAL IoT ZONE
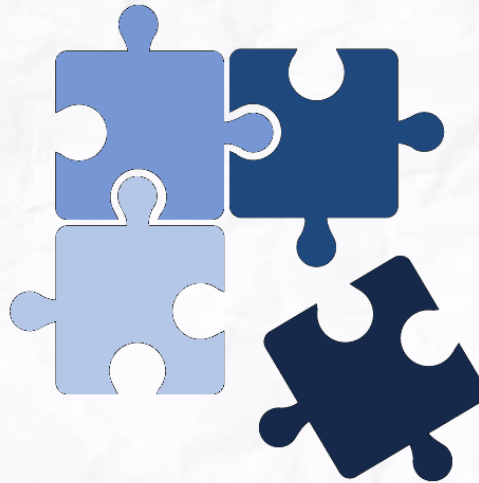## Resources

NOKIA INNOVATION TEAM

Located in Skolkovo
- Application Architects,
- IoT Device Integration Engineers, Technical Writers
- IoT Solutions Agile Prototyping
- IoT Incubation team

R&D ST. PETERSBURG

- 70+ Developers
- Full cycle of telco applications development serving Nokia internal R&D. Support IoT solution development for commercial cases.
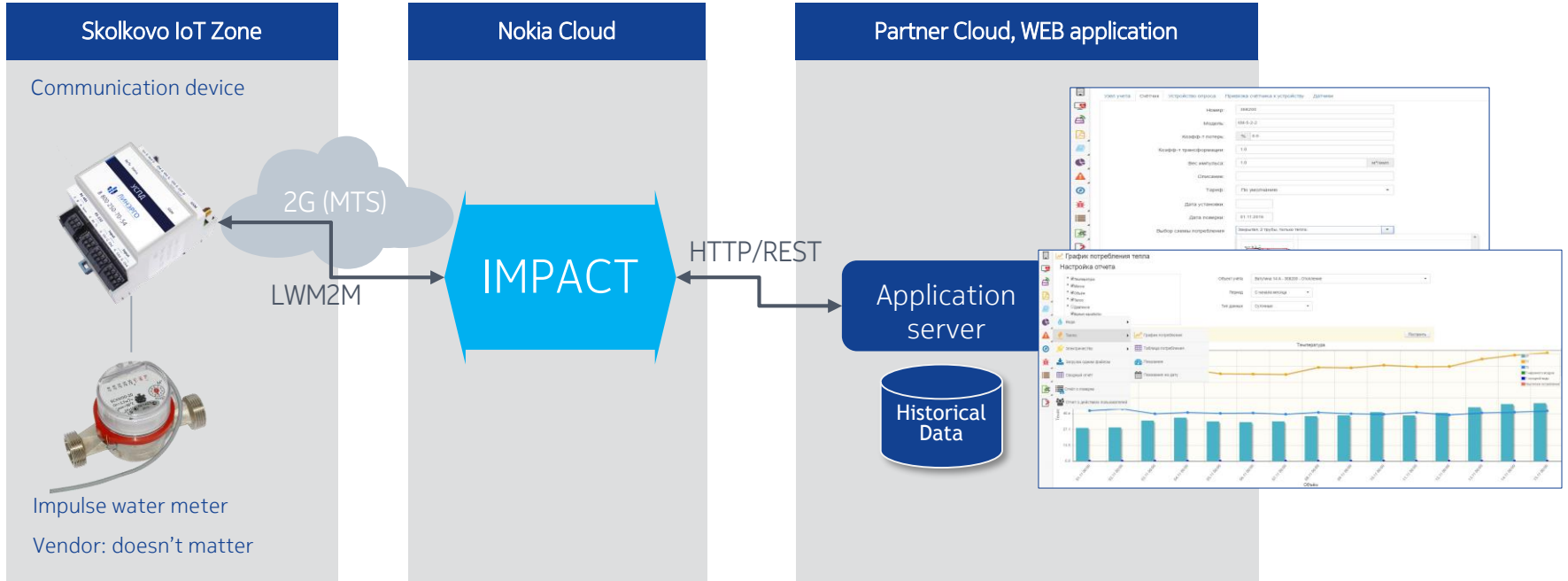
GDC VORONEZH

- 500+ Delivery and Support Engineers
- Massive workforce to deploy solutions across Russia and support Platforms and Applications hosted at Nokia for Operators and their customers
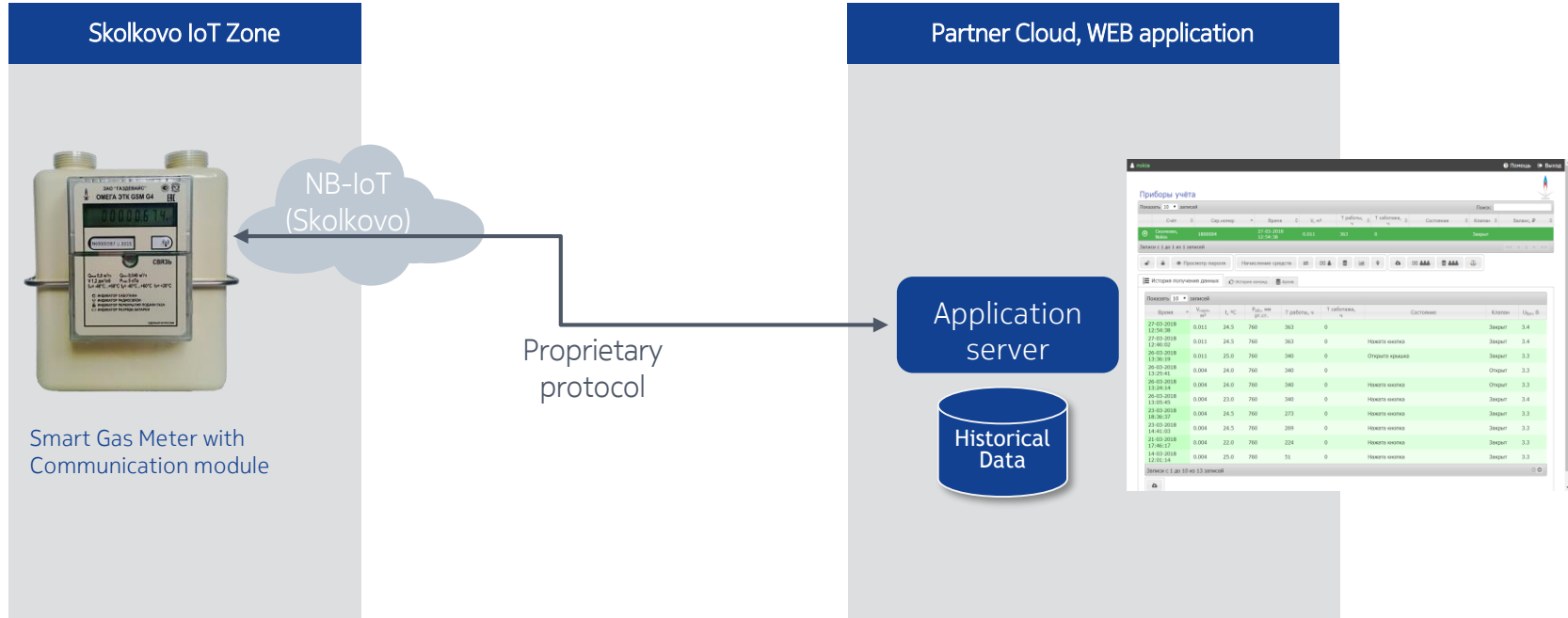
BELL LABS CONSULTING

- Business and technical consulting
- Consulting team leveraging on:
- 700+ Innovators across 9 Global sites
- 33000+ Patents
- 8 Nobel Prizes, 8 Marconi International Fellowship Awards, 3 Turing Awards, 3 Kyoto Prizes, 3 Japan Prizes, 2 Grammys, an Emmy, an Oscar

NOKIA

Use Case 1. Smart Metering

Skolkovo IoT Zone

Communication device

Impulse water meter

Vendor: doesn't matter

2G (MTS)

LWM2M

Nokia Cloud

IMPACT

HTTP/REST

Partner Cloud, WEB application

Application server

Historical Data

NOKIA

Use Case 2. NB-IoT Gas Metering
Stage 1

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