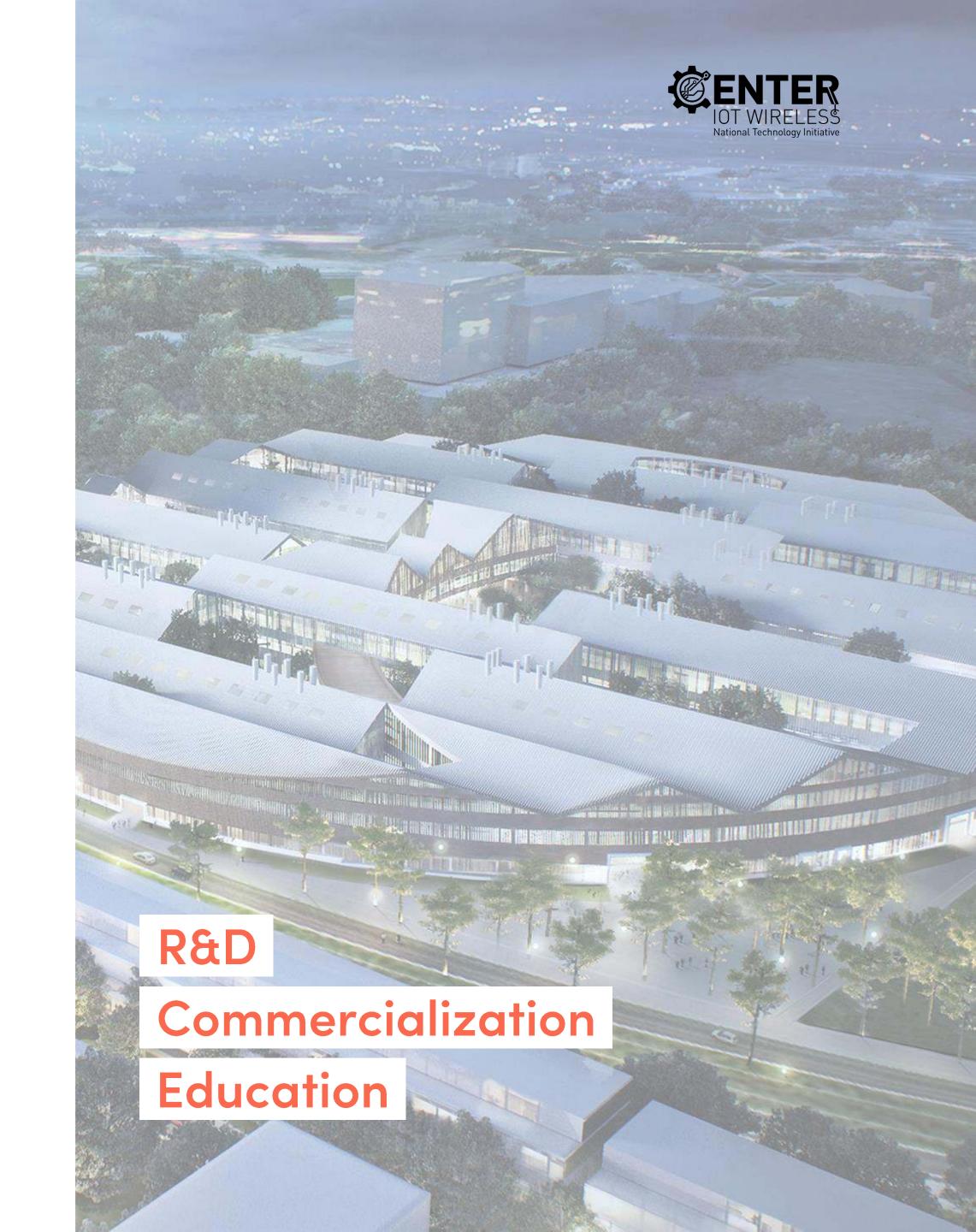
Wireless Technologies and Internet of Things

National Technology Initiative Center of Excellence

Coordinator of the consortium of technological, scientific and educational organizations on the basis of Skolkovo Institute of Science and Technology

- Developing cross-cutting technology
- Creating partnerships among business, science and education
- Developing innovative infrastructure
- Transferring Technology
- Facilitating wide spread of advanced Wireless & IoT technologies across industries
- Equipping professionals with digital age competencies
- CoE: Center of Excellence NTI: National Technology Initiative IoT: Internet of Things
 Skoltech: Skolkovo Institute of Science and Technology





Founded in 2018

BRIEF FACTS

Team

112

business practitioners, scientists and engineers

Consortium

40+

Industrial partners

11

higher education institutions

Partners

10+

Huawei, Philips and others

R&D Budget

700 m rubles

until 2022

Projects

2

19

accomplished in progress

Events

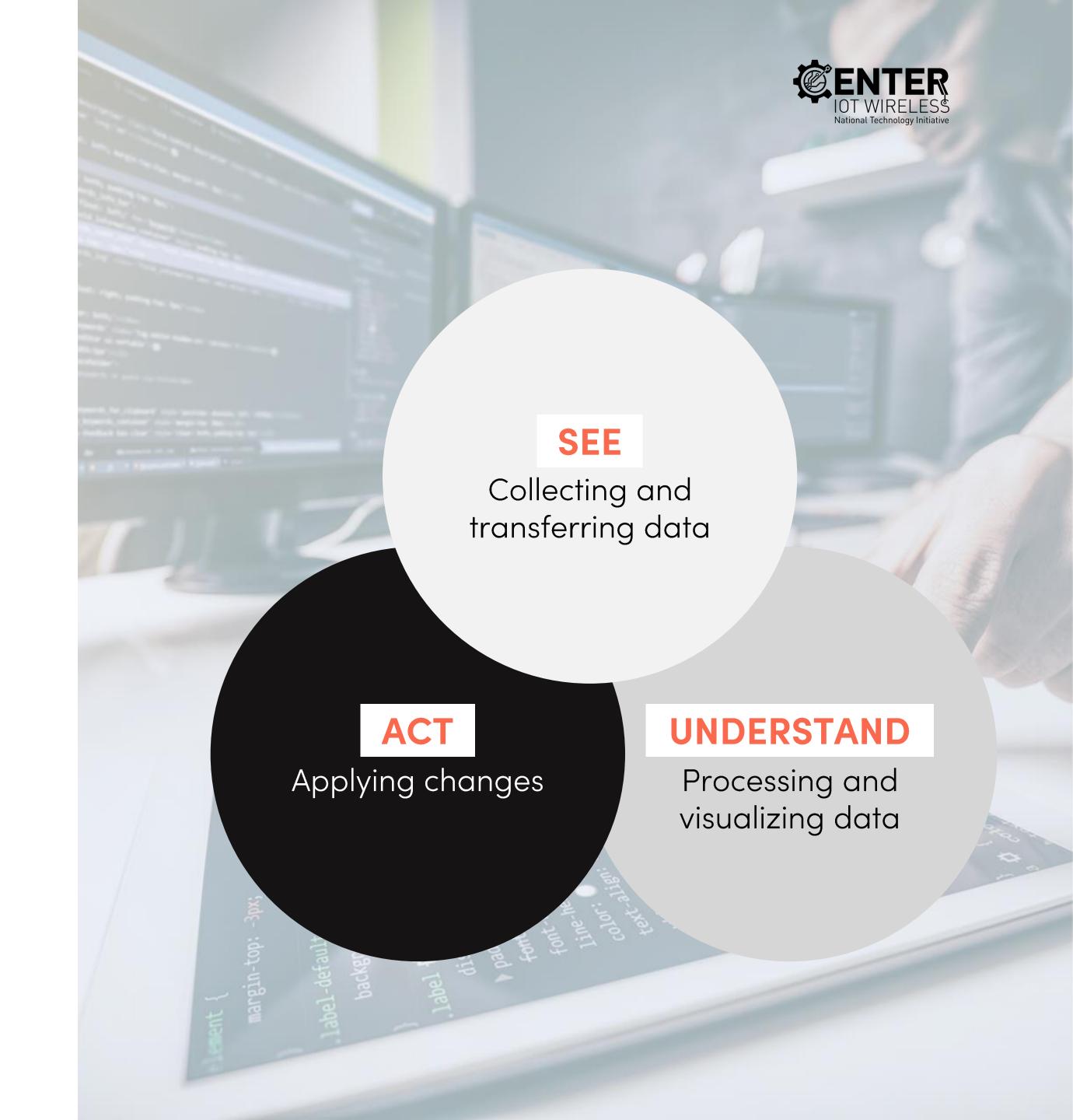
5

conferences

CROSS-CUTTING TECHNOLOGY

Industries:

- Wireless communication
- Industrial data processing
- Information security in IoT
- Connected vehicles
- Medical tech
- Smart industries:
 - City
 - Retail
 - Advertising and services industry
 - Agriculture and forestry





SOLUTIONS

DATASKAI

Industrial Data Processing Platform

- Propelling data-driven approach
- Quick assessment and decision-making
- Flexible integration into industrial processes
- Beginners-friendly
- Support for joint data and operation teams

MOVASKAI

Mobile Service Platform for Inventory Control

- Smart retail approach
- Automated in-store retail inventory management and other routine operations
- Flexible system with adaptation to a particular retail network

OpenUNB

National communication protocol standard for IoT

- Developing national communication standard for IoT
- Efficient in high-noise radio environment and suitable for long-range communication
- Transmitters run on a single battery for up to 10 years without recharging
- Minimizing costs: Open-source, Vendor-free, no operator payments or license fees

5G Solution

Telecom operator solutions for 5G

- We operate a 5G pilot area in Skolkovo
- 5G for service providers, corporate and institutional networks, including critical and state-protected infrastructure
- Reliable certified national hardware and software solutions for service providers

TEAM

Dmitry Lakontsev

Head of the Center Head of Internet of Things Laboratory PhD, Skoltech Associate Professor IPPI RAS, Telum, DATADVANCE





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Maria Pukalchik Research team leader, PhD



Evgeny Burnaev Research team leader, PhD MPTI, Higher School of Economics, Berlin Humboldt University, Laureate of the Moscow City Government



Alexei Frolov Research team leader, PhD Laureate of the Russian Government Award and Moscow Award



Ivan Oseledets Research team leader, PhD Laureate of the Russian President's Award