

SMART INDUSTRY 4.0



ITPS Group – one of the leaders in the Russian market of IT, management consulting, telecommunications, security systems, engineering and system integration for large manufacturing companies.

> **15** YEARS OF EXPERIENCE 

20 COUNTRIES 

ISO 9001 CERTIFICATION 

> **400** LARGE PROJECTS 

BUSINESS AREAS



Digital transformation of business

Industrial Internet of Things

Improvement of economic efficiency

Improvement of labour efficiency

STRATEGIC FOCUS

DEVELOPMENT OF PRODUCTS AND SERVICES

TECHNOLOGICAL SOLUTIONS

EXPORT

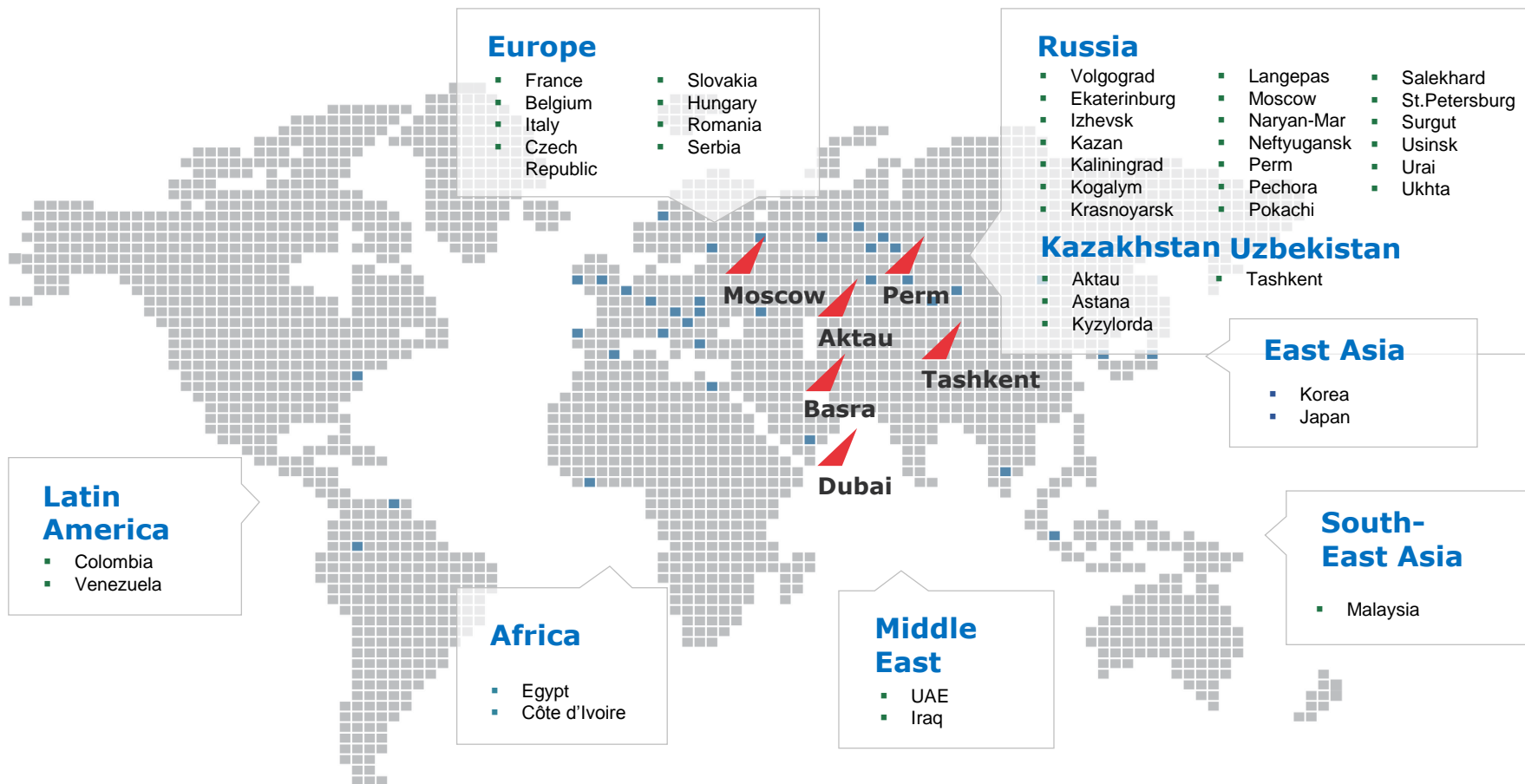
OUR CLIENTS












OUR PARTNERS



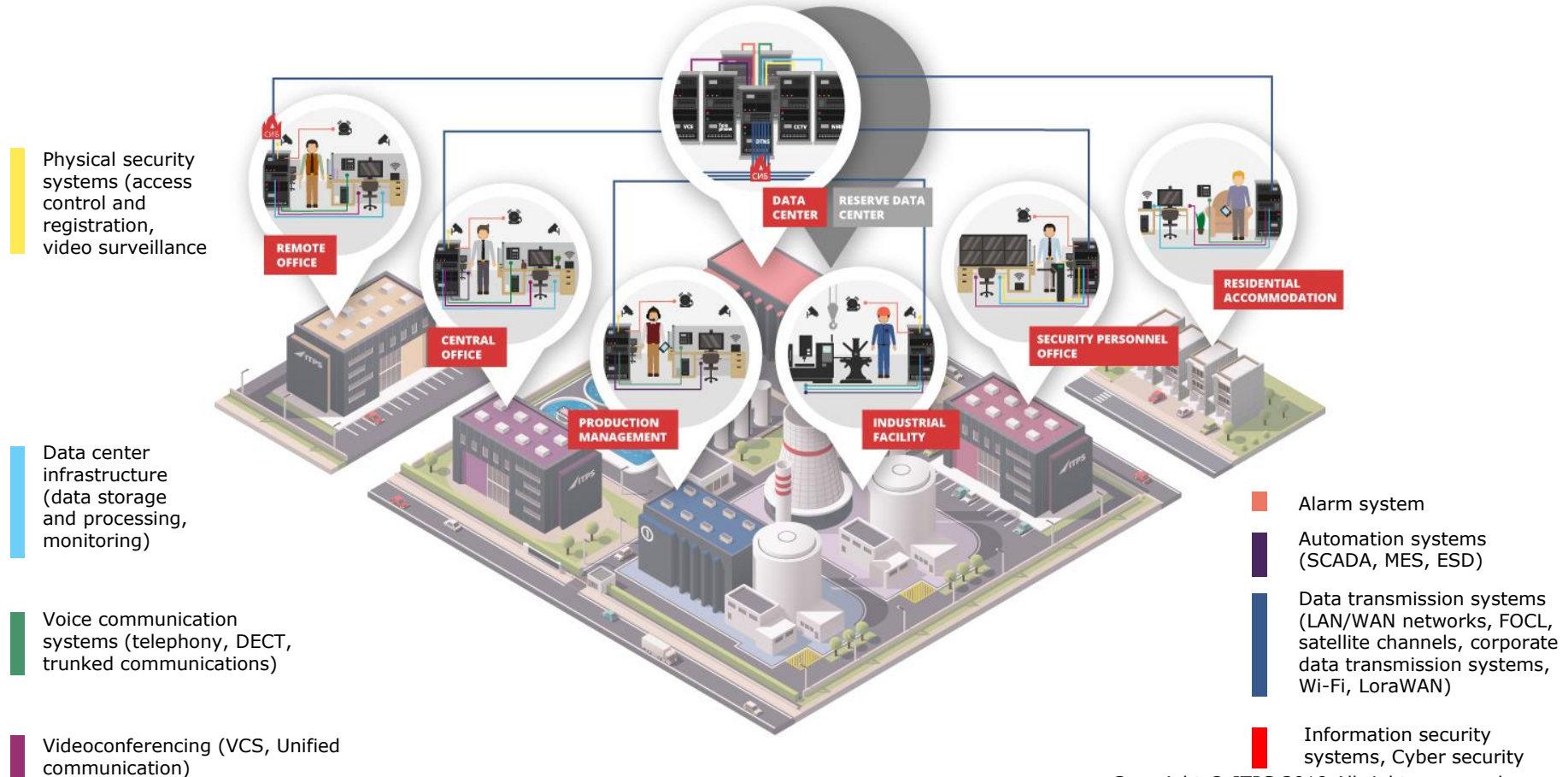
Geography of ITPS Projects and Offices

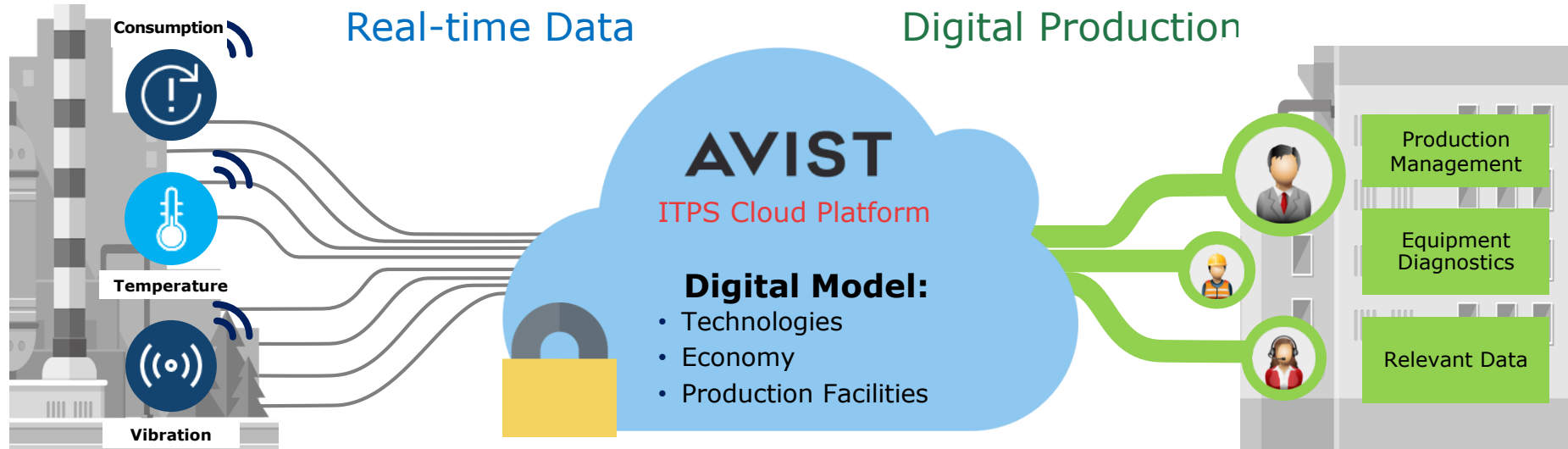


IT-infrastructure of Completed Projects

Development of a major oil & gas field infrastructure 450,000 bbl/day	 12 IT-systems	total budget of the project > USD 10,000,000
Gas turbine power plant Capacity 126 MW	 10 IT-systems	total budget of the project > USD 2,000,000
Export pipeline 80 km	 8 IT-systems	total budget of the project USD 6,000,000
MES Implementation Location: Iraq	Application systems in MES: <ul style="list-style-type: none"> • OSISoft PI System • AirWatch • EC Tieto • STARLIMS • Siemens XHQ 	 ~ 30 000  ~ 25  ~ 350
MES Implementation Location: Iraq Power plant 126 MW (6 gas-turbine units)	Application systems in MES: <ul style="list-style-type: none"> • OSISoft PI System • STARLIMS • Siemens XHQ 	 ~ 20 000  ~ 12  ~ 100

ITPS Solutions within a Typical Facility Structure





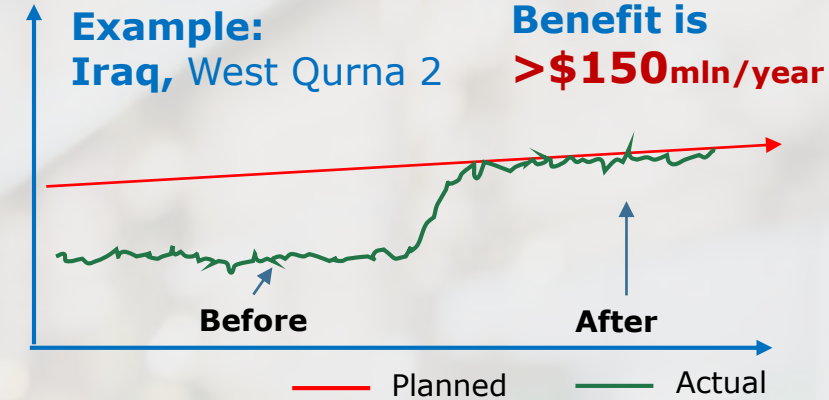
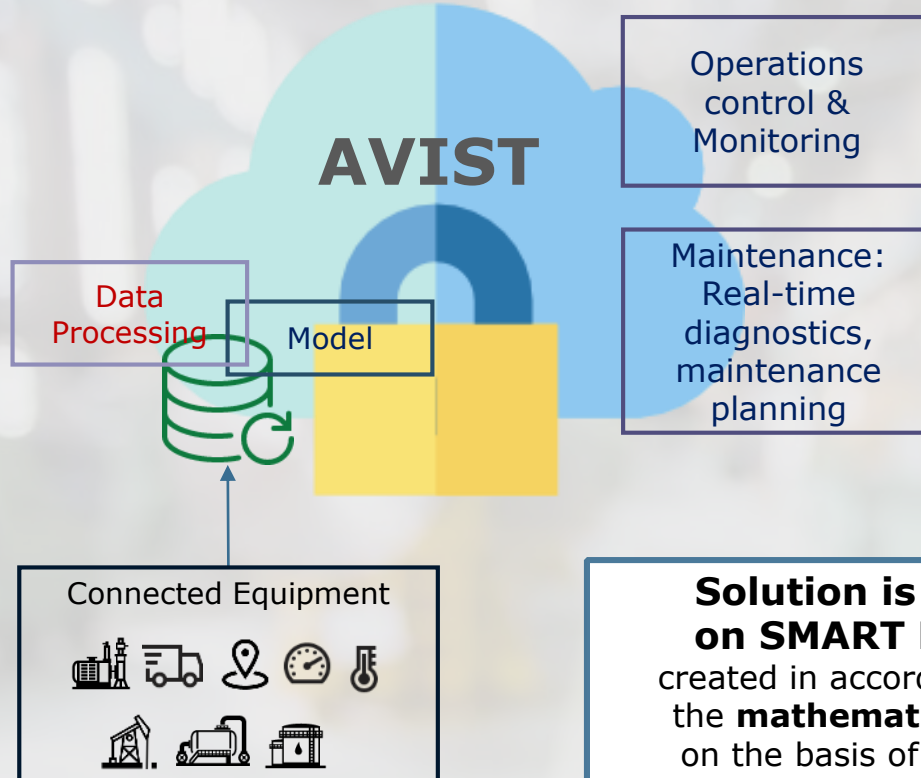
Production output increase by 10-15%

Improvement of labour productivity by 20-40 %

Optimization of investment and operating costs 10-25%

Efficiency of resources' use 10-15%

Environment Industrial safety and occupational health



Solution is based on SMART RULES
created in accordance with the **mathematical laws** on the basis of Big Data

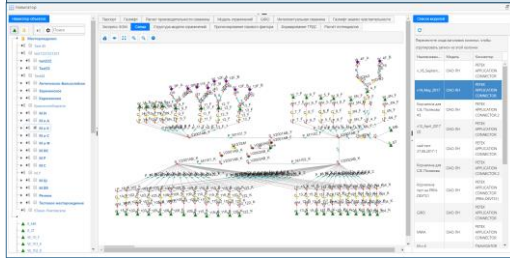
Specialists with
1 Doctors of Science and 19 PhD



Key elements illustrated through the example of INTELLIGENT OIL & GAS FIELD

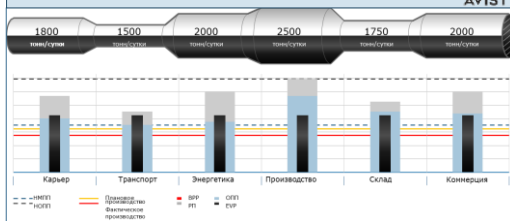
INTEGRATED MODELING

AVIST.PREDICTION



CHOKE MODELING

AVIST.CHOKE MODELING



INTEGRATED OPERATIONS CENTRE



Other
solutions

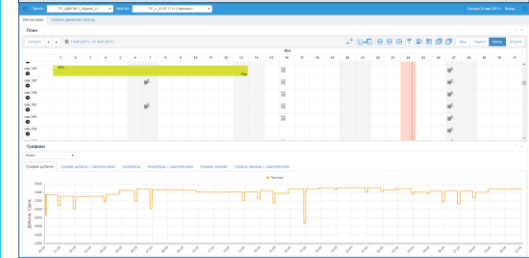
GIS, Bank of G&G
field data, MRO...

PERFORMANCE
ENHANCER
AND SMART
RULES



INTEGRATED PLANNING

AVIST.PLANNING



ADCS and IoT

AVIST.OPERATION



The competitive advantages of AVIST

You always have the RIGHTPLAN:
14/90/365 days and more

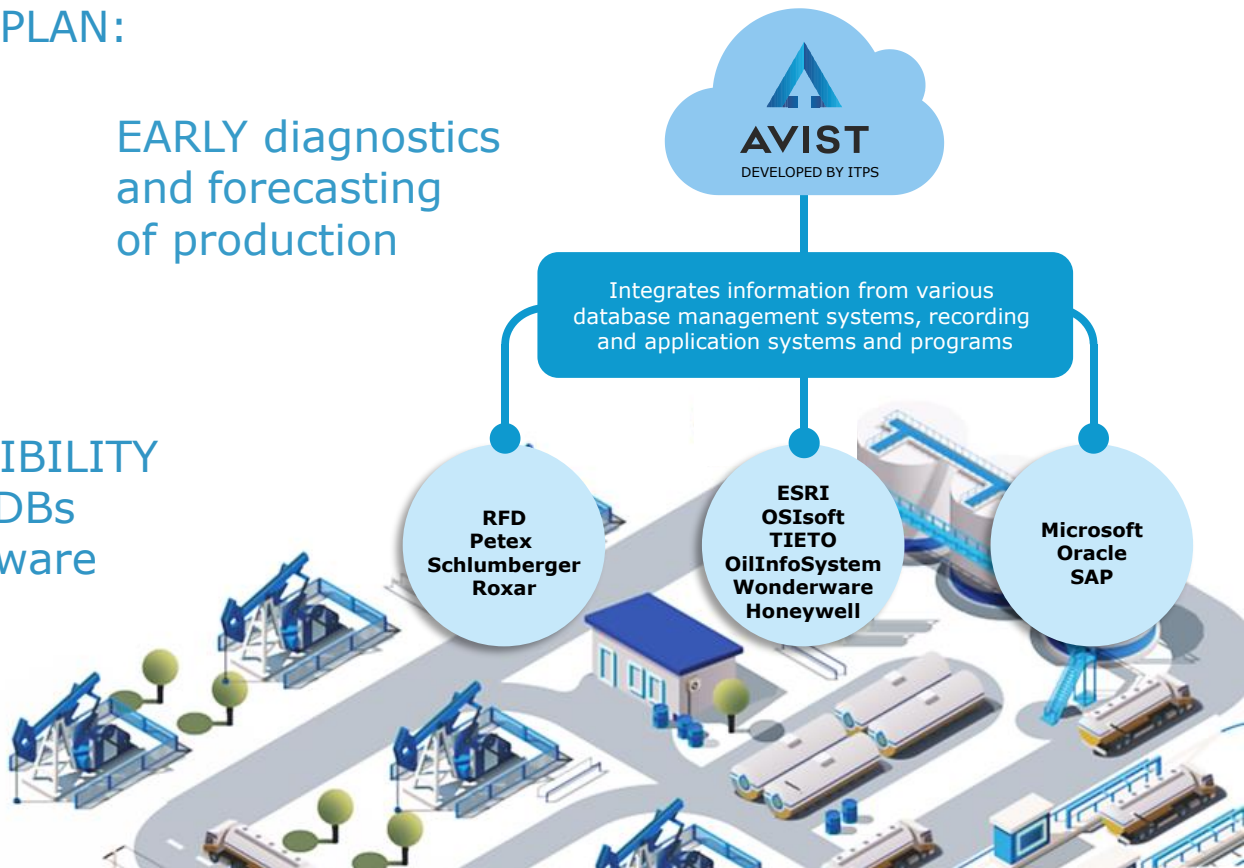
TEAM WORK,
ROLE ACCESS

EARLY diagnostics
and forecasting
of production

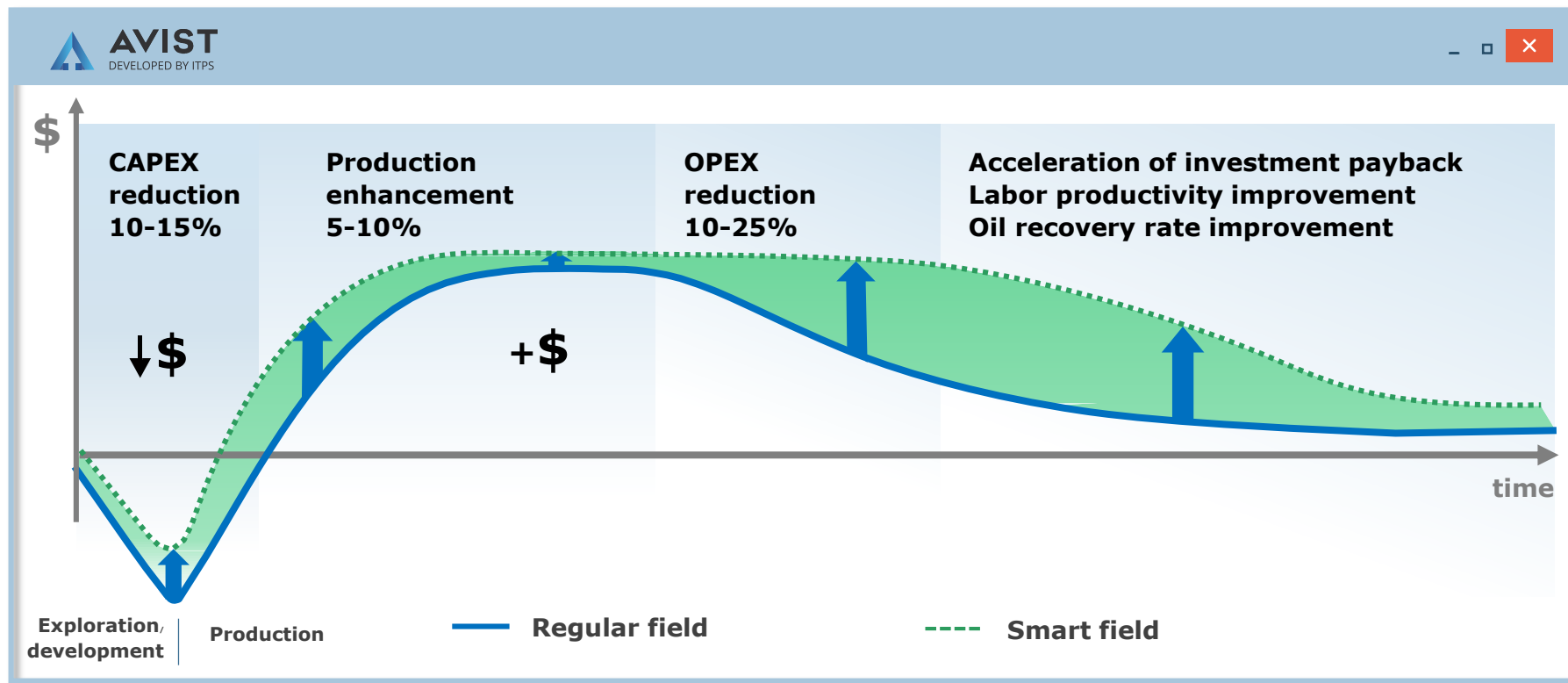
EASE
of installation

COMPATIBILITY
with all DBs
and software

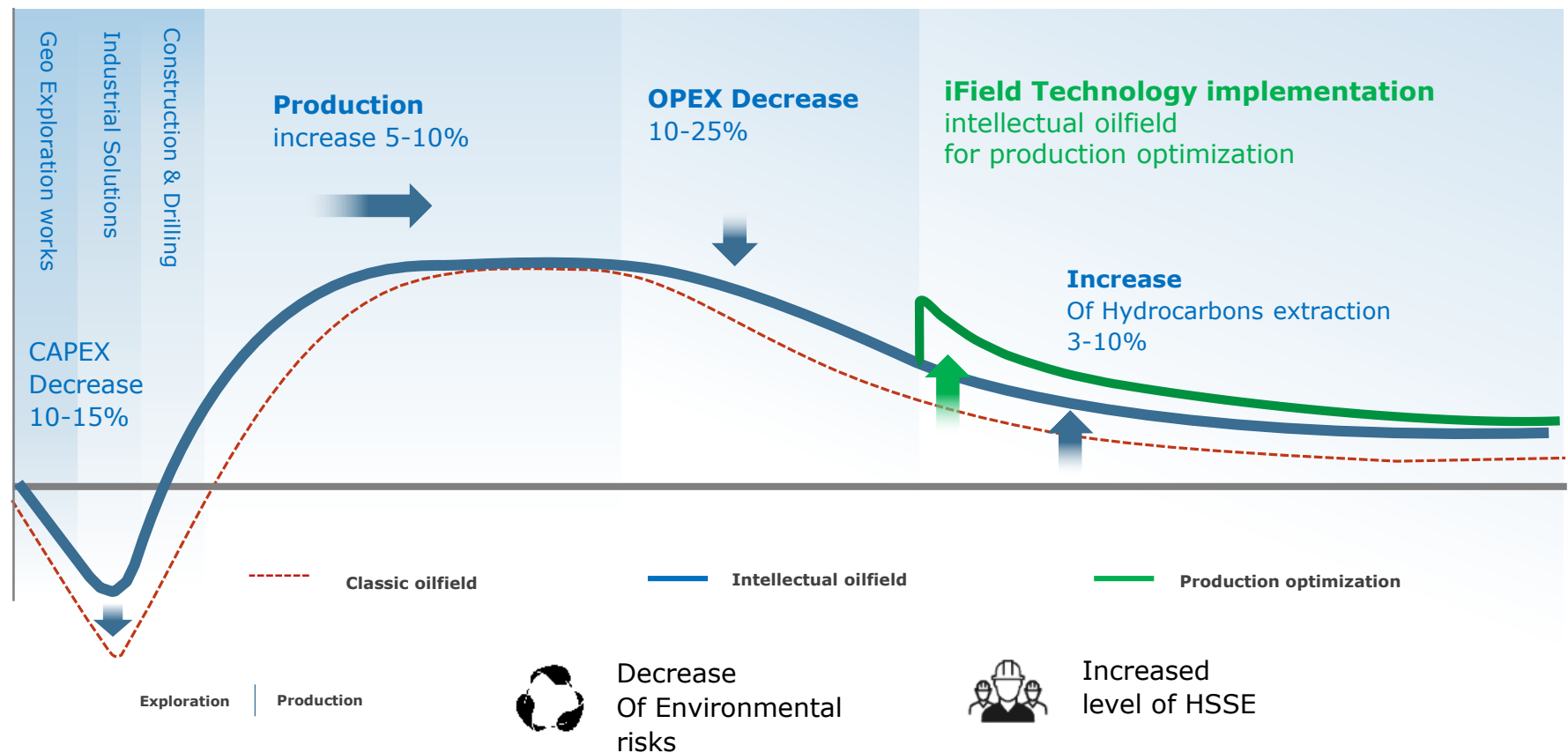
INTUITIVE,
simple interface



Investment cycle of an oil and gas field



Economical Impact of Digital production implementation



- **Improving Productivity**
- **Reducing Costs (Capex, Opex)**
up to 150 mln. \$ per year
- **Cloud platform AVIST**
- **Smart Rules**



Data accessibility



Flexibility and scalability



Reliability



**Models and big data based
intelligent control**

GoBe2 – the Only Complete Smart-life Band



Service allowing to continuously monitor key indicators of human health

This is more than data – a wearable device, mobile application and a personal account on site keep you informed about the physical state of the body.

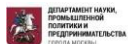
Wristband



iOS and Android app



Web-app



December 2014, Pitch-ring, Moscow
The Best Innovative Startup



June 2014, Consumer Electronic Week, New York
Winner of Battle of the Bands



January 2017, iPhone Life
Top best products on CES 2017

UNIQUE FUNCTIONS



Calories Intake

Automatic calories intake calculation



Stress

Stress level measurement



Hydration

Hydration level detection



Energy Balance



Energy Burned



Heart Rate



Quality of Sleep



Emotional Tension



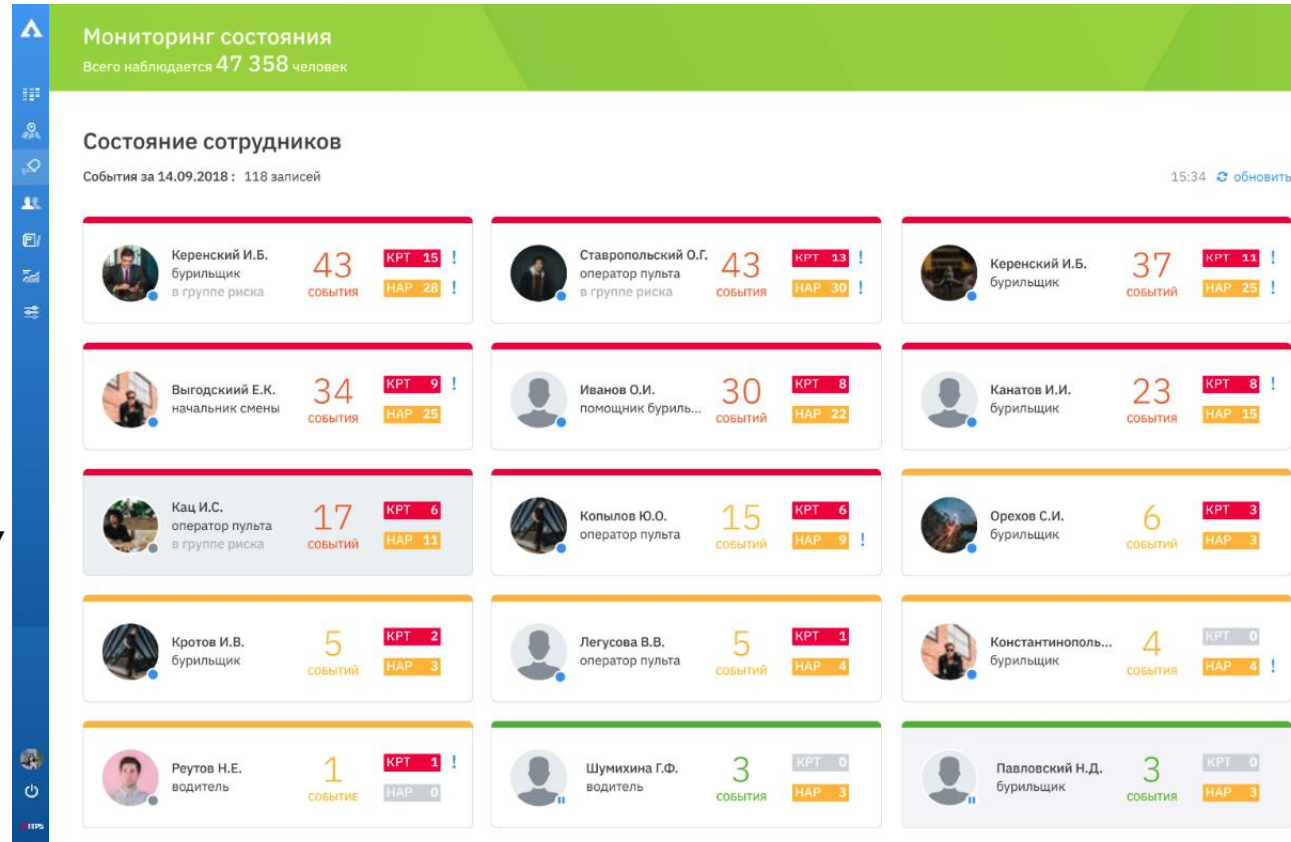
Number of Steps



Distance

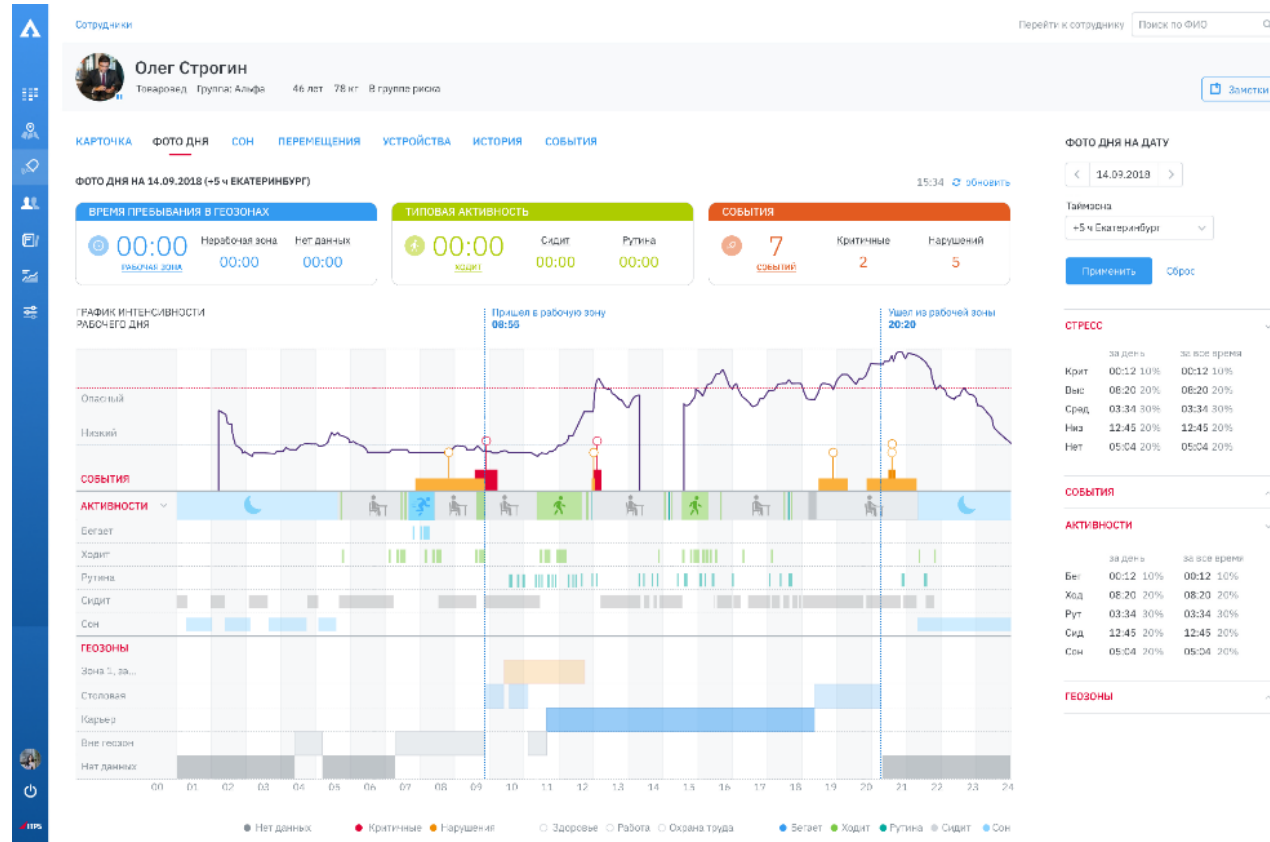
Remotely monitoring the physical status of employees

- Continuous monitoring of employees' physical condition:
 - ✓ identification of risks to health (cardiovascular system, metabolic diseases)
 - ✓ obtaining pre-diagnostic indications to assist medical personnel
- Assessment of employees' functional status during the working time (including detection of monotony, asthenia, and falling asleep)



A digital twin of the working day

- Automatic generation of snapshots of each employee's working day
- Identification of employees' activity types (sedentary state, sleep, walking, seated activities, running, various types of activity)





HEALBE



BIOTELEMETRY SOLUTION

Effects for enterprise health, safety and environmental protection

- **Improvement** of health and quality of employees' life
- **Optimization** of using the means of medical and social insurance
- **Identification** of the factors for the deterioration of the employees' health
- **Reduction** of the number of sick leave days
- **Reduction** of the number of accidents at work by taking timely measures after the identification of risks related to the employee's health problems
- **Improvement** of accident rate

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THANK YOU FOR YOUR ATTENTION!

