

# Optimizer

*Digital Platform for Field Workforce Productivity and  
Efficiency Increase, Health and  
Safety Process Management*

## Health and Safety

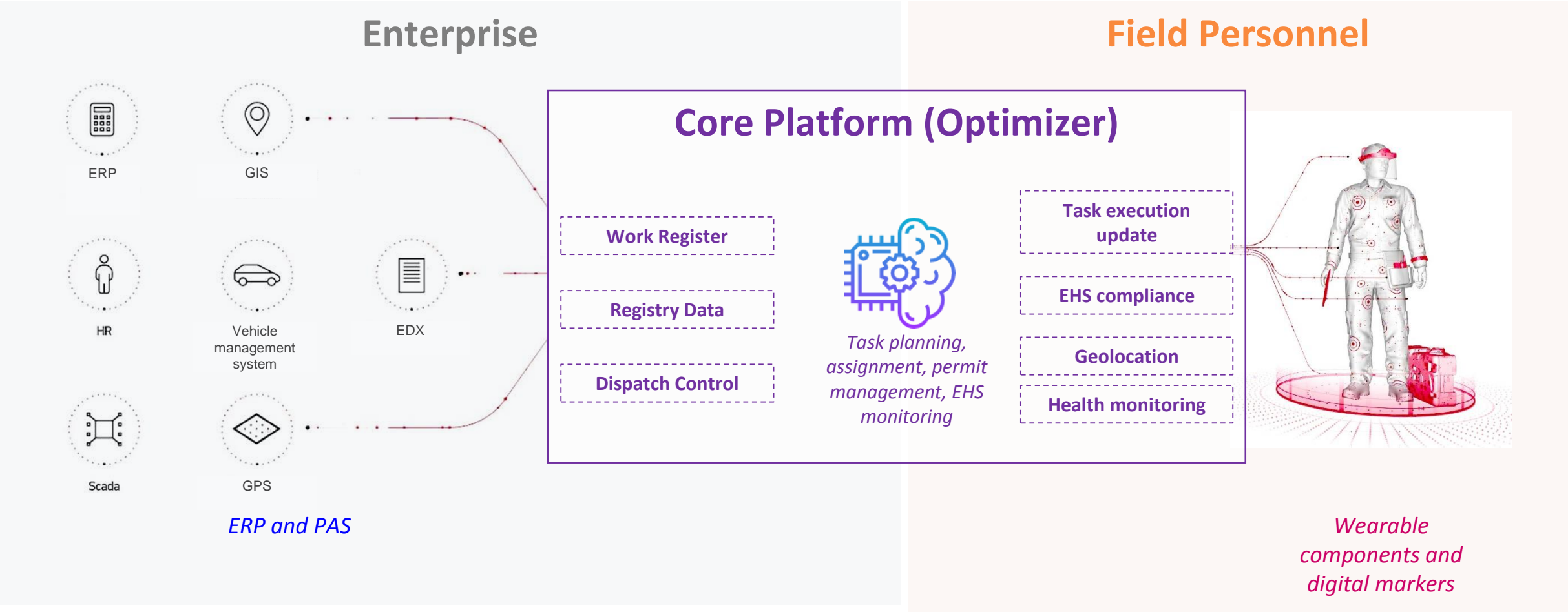
- Trauma protection
- Management and audit of EHS compliance.
- Accident registration and alarm management.
- Search and rescue operation assistance during accidents
- Personnel Health monitoring

## Productivity improvement

- Optimization of tasks planning and control of execution
- On-demand resource management
- Productivity increase due to less traumas
- Save time during production preparation, task execution and results analysis.
- Automation of reporting of routine operations

## Cost Saving/ Better Efficiency

- Less failures and accidents - less costs for repairs
- Lower insurance
- Better average production restoration time
- Improved supplier reliability score



## Enterprise



### Supervisor Workstation

- Task assignment, Field team assembly
- Real time Monitoring of execution, priorities, time-plan and location
- Electronic briefings, journals, access permits
- Accidents registration and analytics
- Medical tests
- Work conditions monitoring
- Stocktaking and monitoring of PPE
- Repair request management
- Real time and periodical reports

## Core Platform



### Planning module

- Planning based on location, availability of required qualifications, access permits, PPE and etc.
- Field Employee routes optimization and verification
- Check of EHS compliance
- Analysis of photo, video and voice data using Artificial Intelligence
- Predictive analytics

## Field Employee



### Mobile workstation

- Task Acceptance and execution status monitoring
- Electronic briefing and access permit acceptance
- Repair request management
- Registration of used materials and spares
- Photo documentation of performed work, detected defects/incidents, linked to geolocation
- Employee personal portal (PPE, certifications, access permits, etc.)
- Voice control



# Digital Personal Protection Equipment (PPE) and labeling of wearable components

## Digital PPE:

- PPE portal to track the lifecycle
- Real-time proper usage monitoring
- "Flight Data Recorder" functionality

## Core Platform (Optimizer)

Work Register

Registry Data

Dispatch Control



*Task planning,  
assignment, permit  
management, EHS  
monitoring*

Task execution  
update

EHS compliance

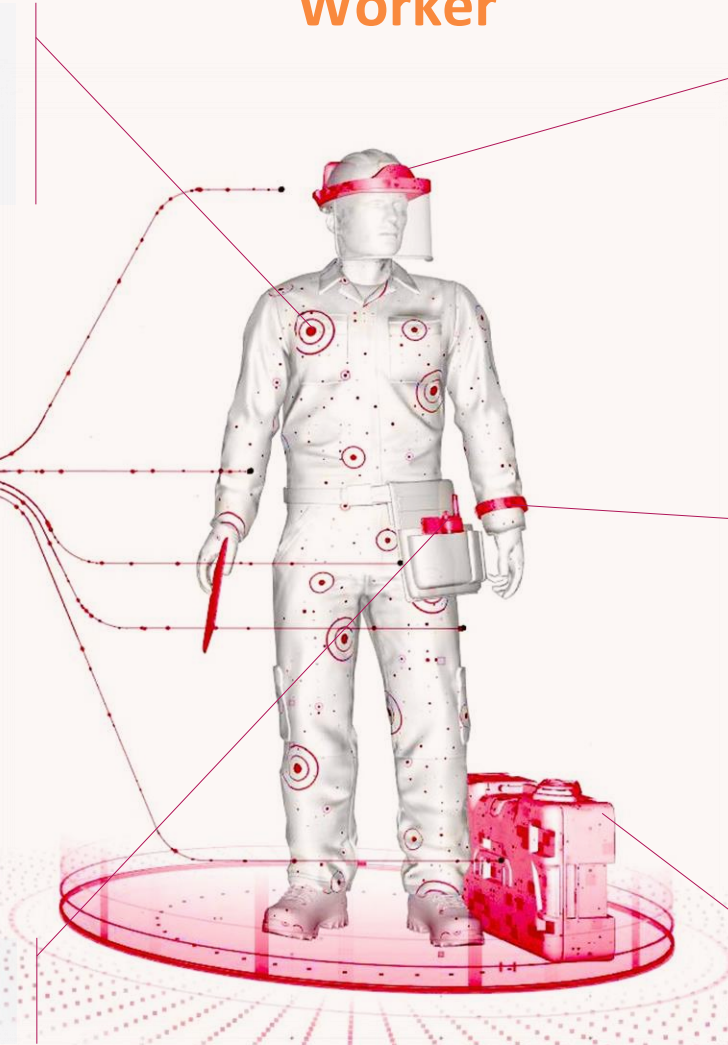
Geolocation

Health monitoring

## Mobile Devices:

- workstation
- measurement tools

## Worker



## Digital Helmet:

- Camera with video streaming for automatic threat recognition and automatic connection to dispatcher
- telephone/radio unit with voice control function
- Detectors:
  - availability and proper usage of PPE
  - environment parameters (gas/dust/temperature) monitoring
- GIS/accelerometer
- Emergency button

## Bracelets/Body-worn biometric devices:

- monitoring:
  - biometric parameters: EKG, pulse, breathing rhythm, temperature
  - location within 3-D object model;
- Recording of behavioral pattern ( to create Work day portrait using AI )
- Interconnect with passive labels of PPE and tools

## Tools labels:

- Availability and set completeness check
- Calibration testing schedule.

# Key Customers and Partners

Over 50 000 field employees are being effectively managed by Optimizer digital platform

## Customers



Russian Railways



## Partners

SAMSUNG



Honeywell



# OPTIMIZER

## Thank You!

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