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АДАПТИВНЫЕ  
ПРОМЫШЛЕННЫЕ  
ТЕХНОЛОГИИ

**SIEMENS**



**KASPERSKY** lab



**4.0RU. The journey from concept to implementation. IIoT  
Cybersecurity – from single sensor to MindSphere open  
platform [Ru]»**

**«4.0RU. От концепции к реализации. КиберБезопасность  
промышленного Интернета - от датчика до платформы  
MindSphere»**

**ANDREY SUVOROV, MAXIM VLASOV**

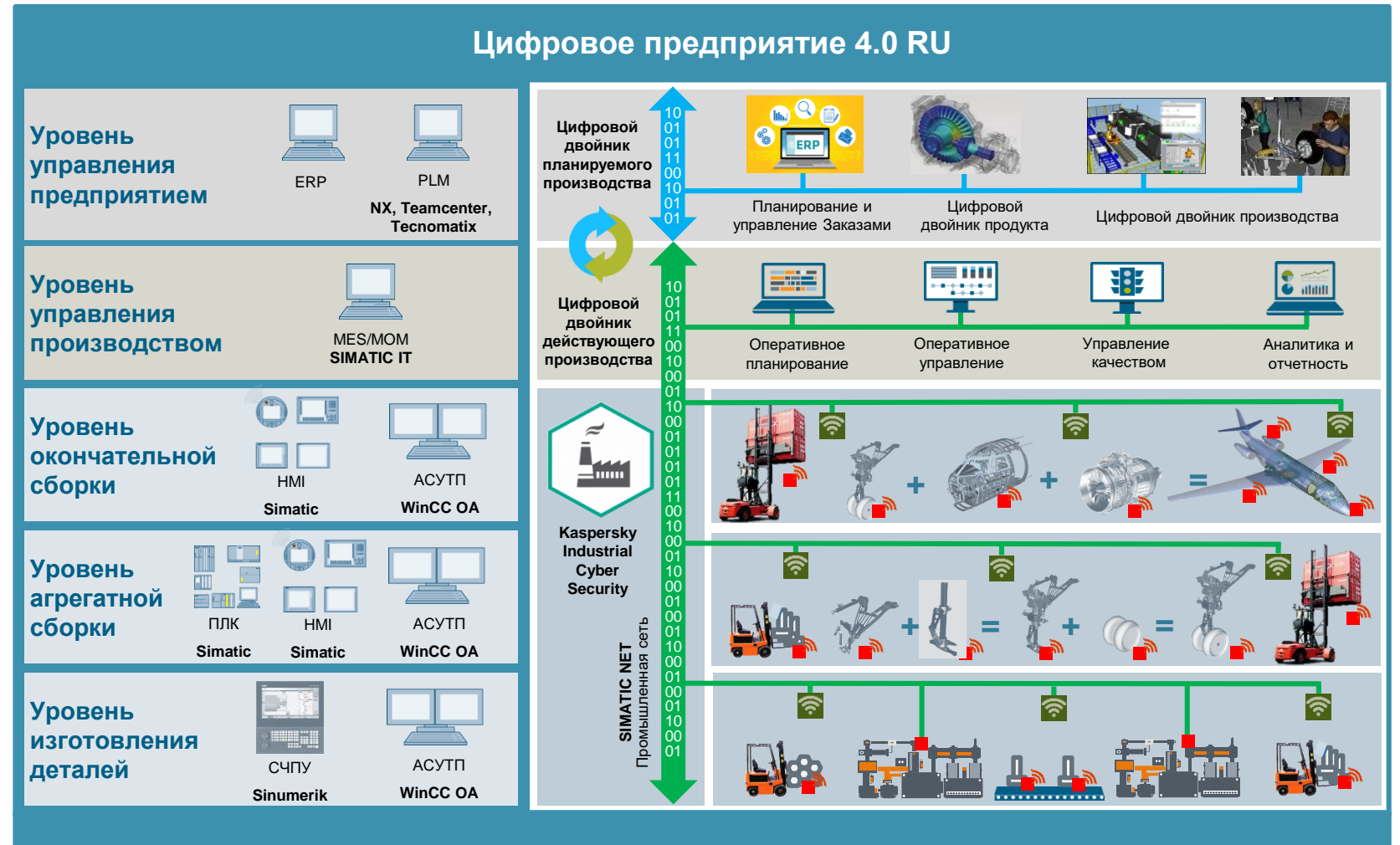
**SEPTEMBER 2018**



# Reference architecture of digital enterprise 4.0 RU

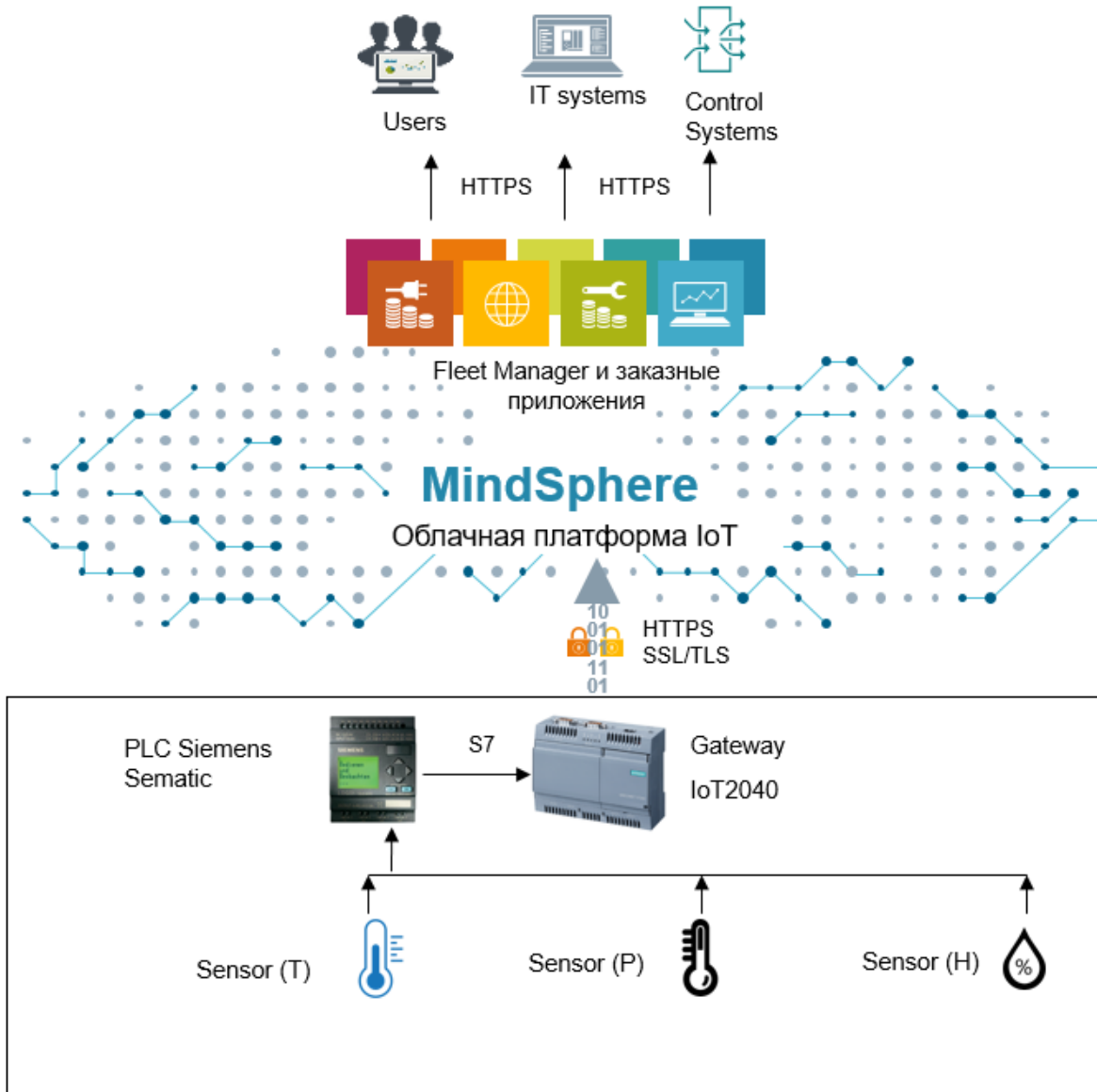


- TRACEABILITY
- PRODUCT and PRODUCTION Digital TWINS
- Vertical Integration (ERP, PLM, MES, SCADA, PLC, CNC)
- Cyber Security
- ALL levels of production and equipment
- Connection to IIoT open platform

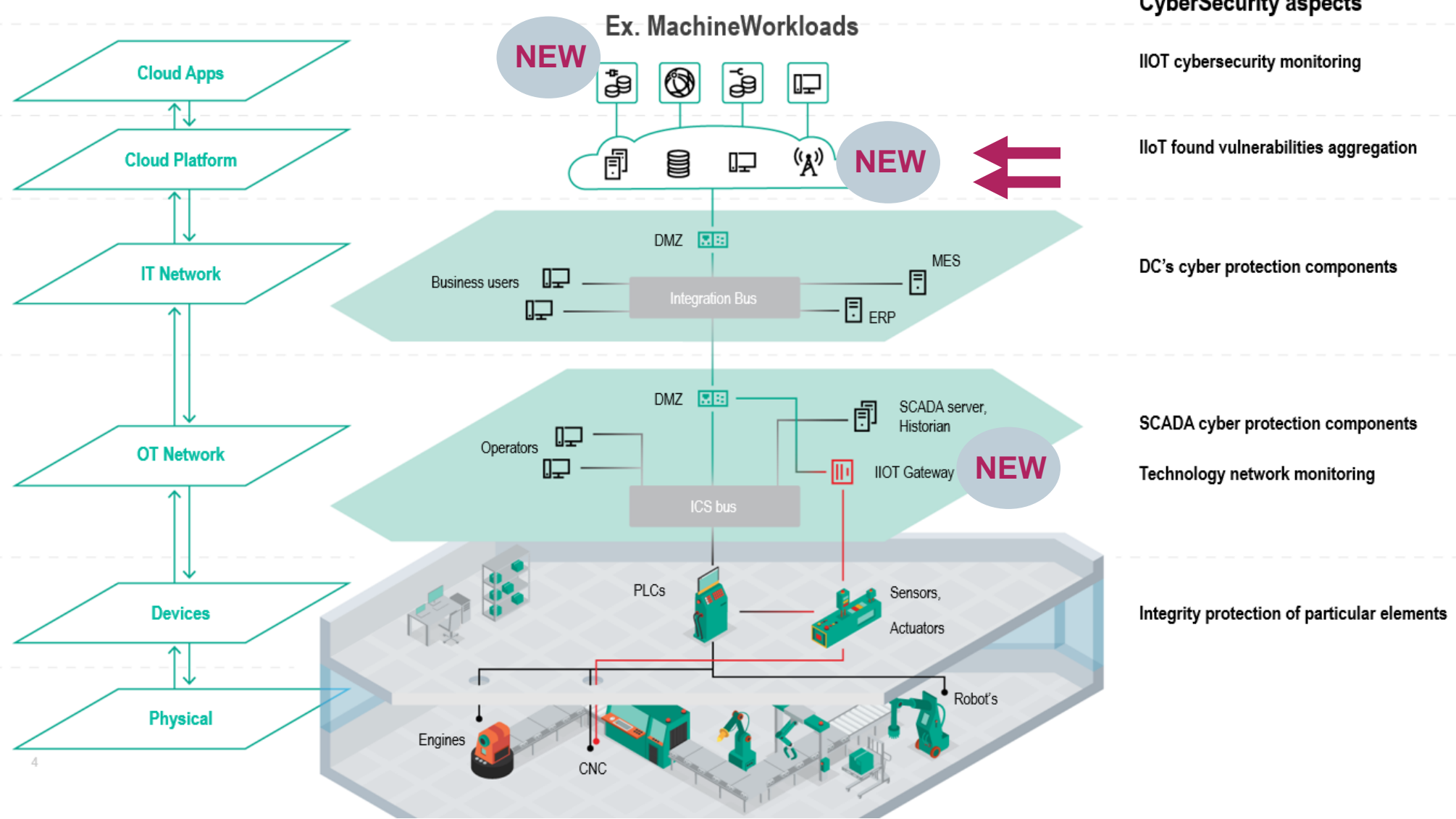


# MindShere – Digital platform ecosystem (4.0RU)

One example from hundreds...



# CyberSecurity matters...





NEW COMPANY

**АДАПТИВНЫЕ  
ПРОМЫШЛЕННЫЕ  
ТЕХНОЛОГИИ**

**ADAPTIVE  
PRODUCTION  
TECHNOLOGY**



Silver  
Partner

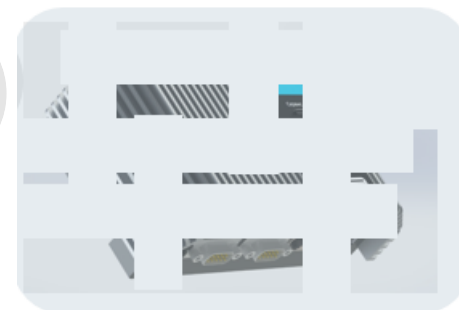
MindSphere

**SIEMENS**

# NEW COMPANY



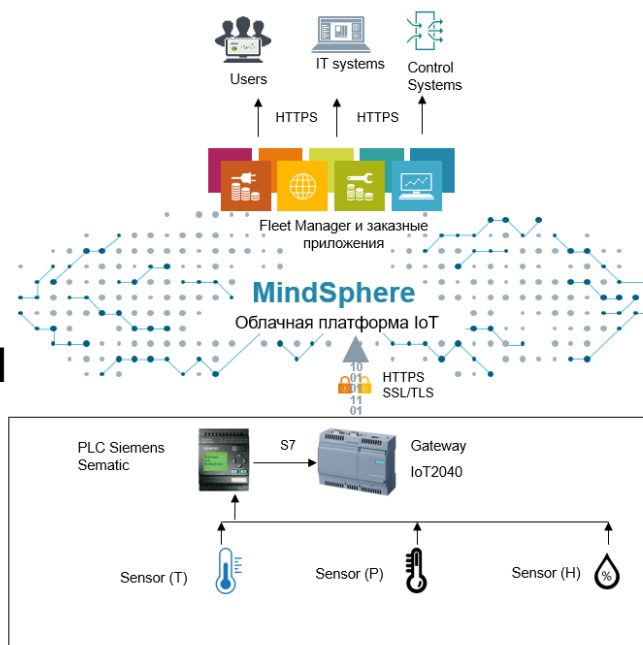
2



DIGITAL LAB \ ЛАБ. ЦИФРОВЫХ СИСТЕМ



EDUCATION \ ОБУЧЕНИЕ







1

# VIDEO



1

**ФОР БОТ ?**  
**DIYA CHEGO ?**



1

Время простоя / **Downtime**



xx

Эффективность снабжения /  
**Supply efficiency**



xx

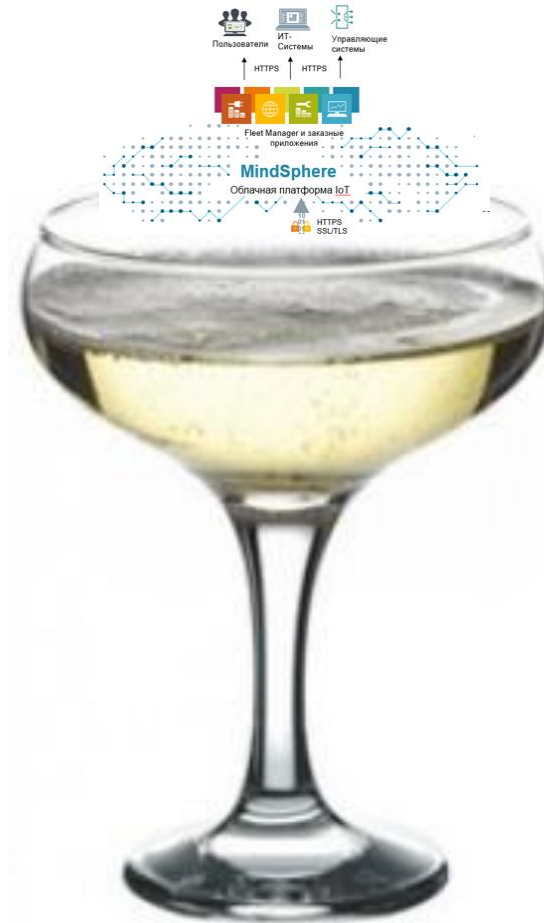
Затраты на контроль  
качества / **Quality control  
expense**



xx



СЕГОДНЯ \ TODAY (15:50 – 16:20)



**ANDREY SUVOROV – APROTECH, CEO**  
**MAXIM VLASOV – APROTECH, COO**