

Information & Control System

Проект

MES

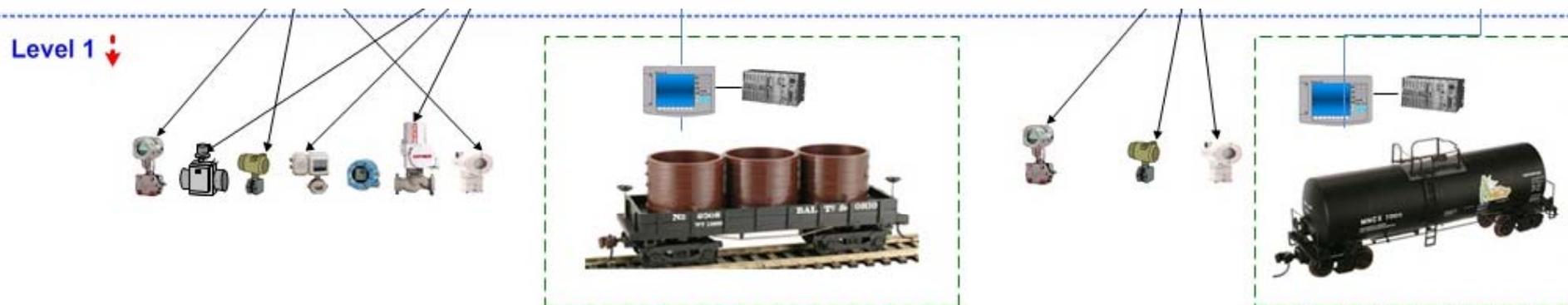
ОАО Невинномысский Азот





Level -1

Field Equipment





Level -2

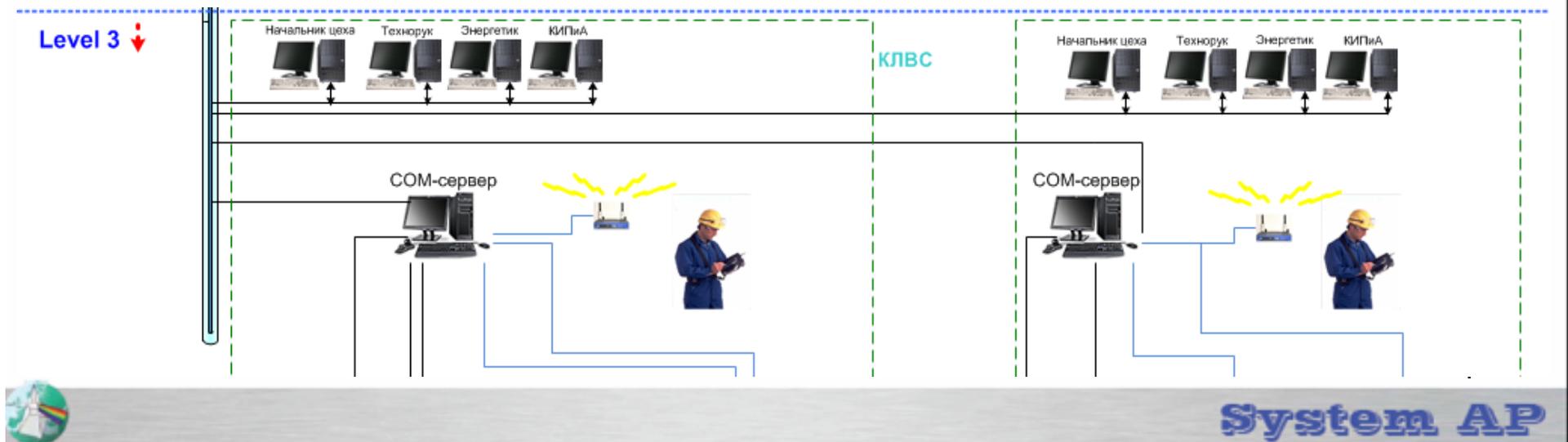
DCS & SCADA





Level -3

Communication Server



ERP & MES

КВЛС предприятия



Начальник смены



COM Server MES (PC)

Контрольный пункт
(Локальный архив >=125 часа)



Начальник цеха



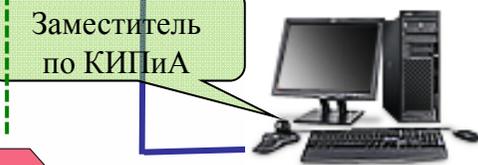
Технорук цеха



Механик цеха



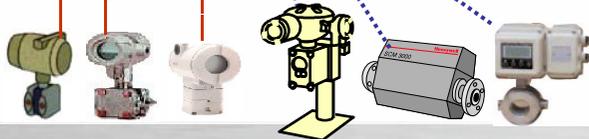
Энергетик цеха



Заместитель по КИПиА

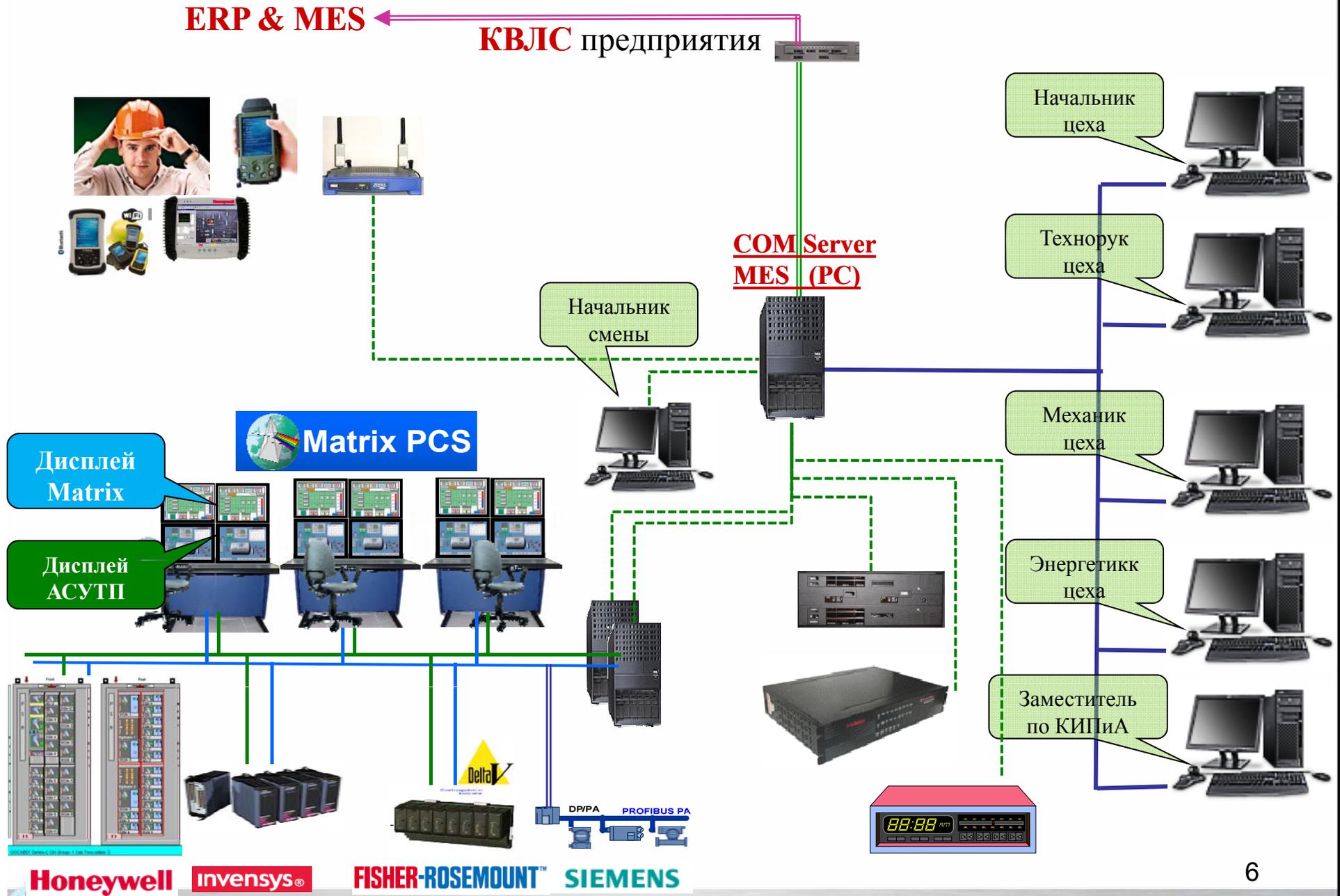


4-20mA



Level 2,3 Архитектура цеха (АСУТП)

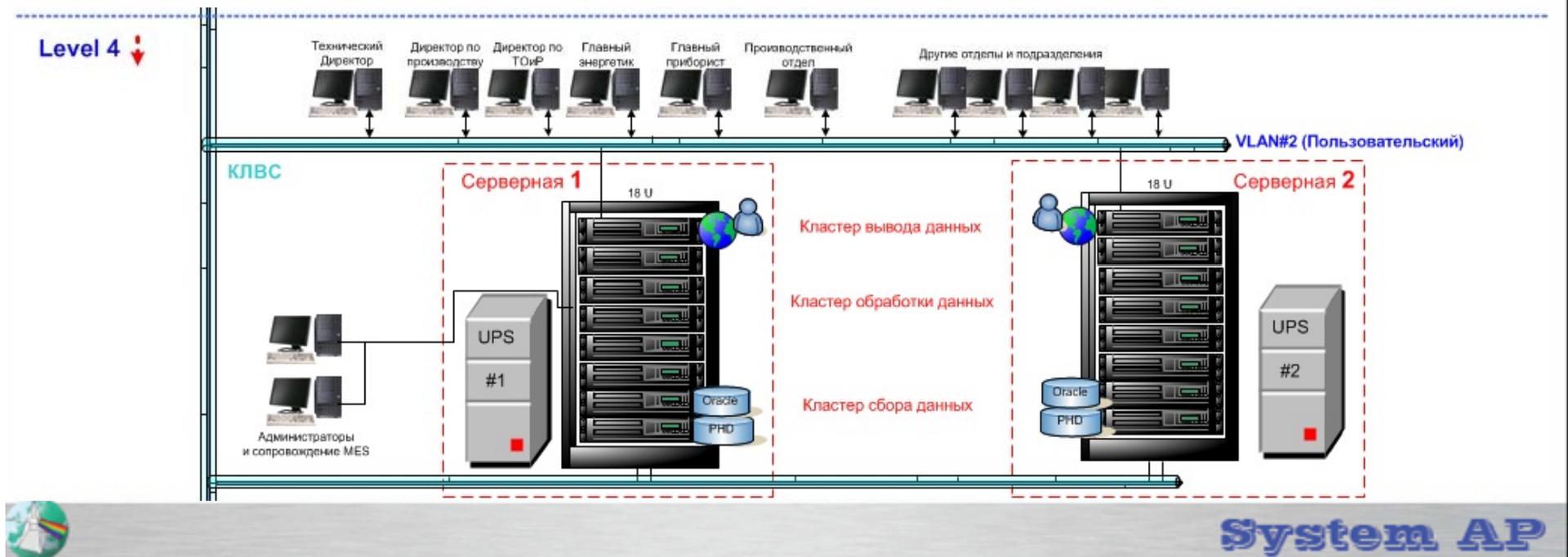
MATRIX





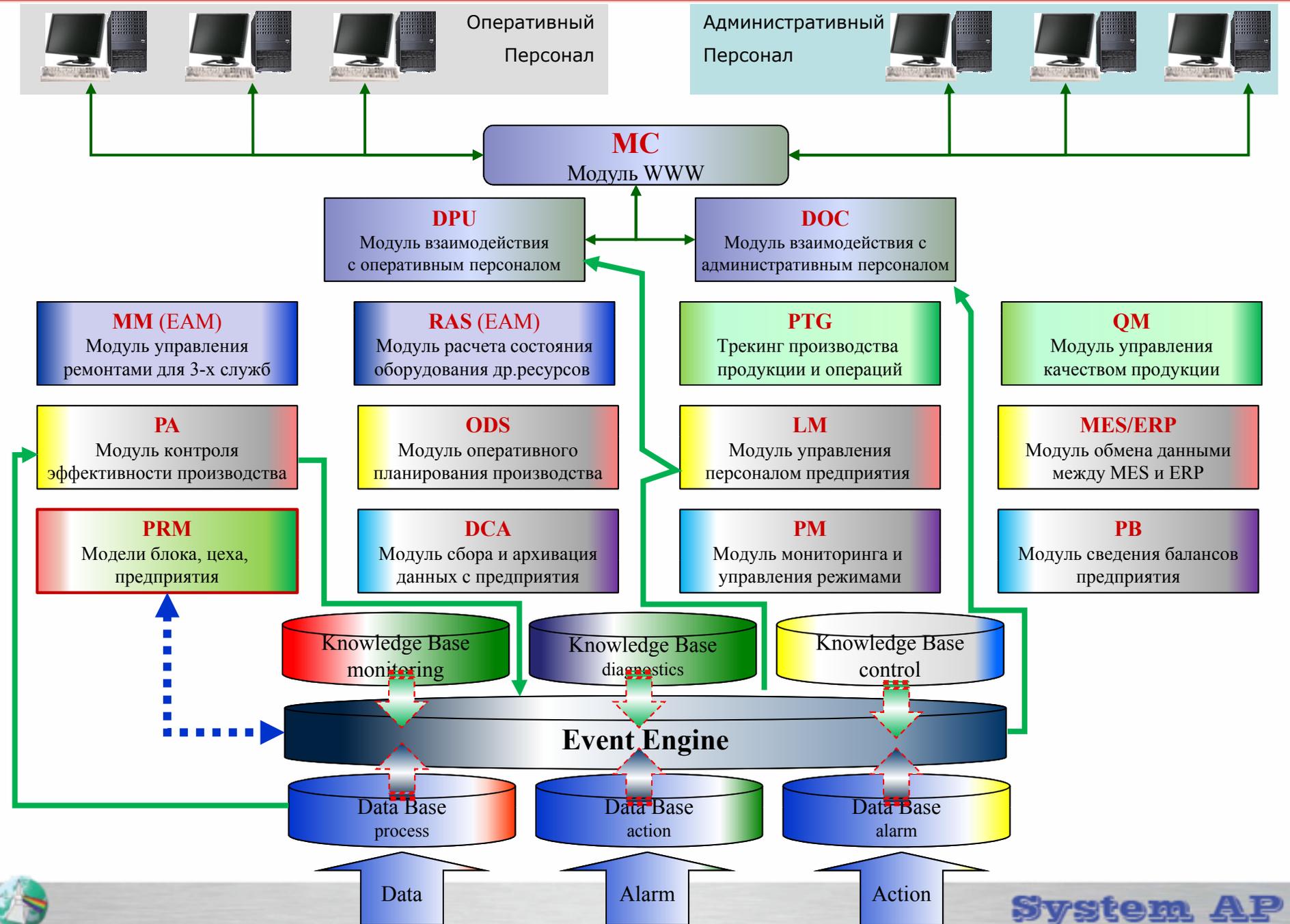
Level -4

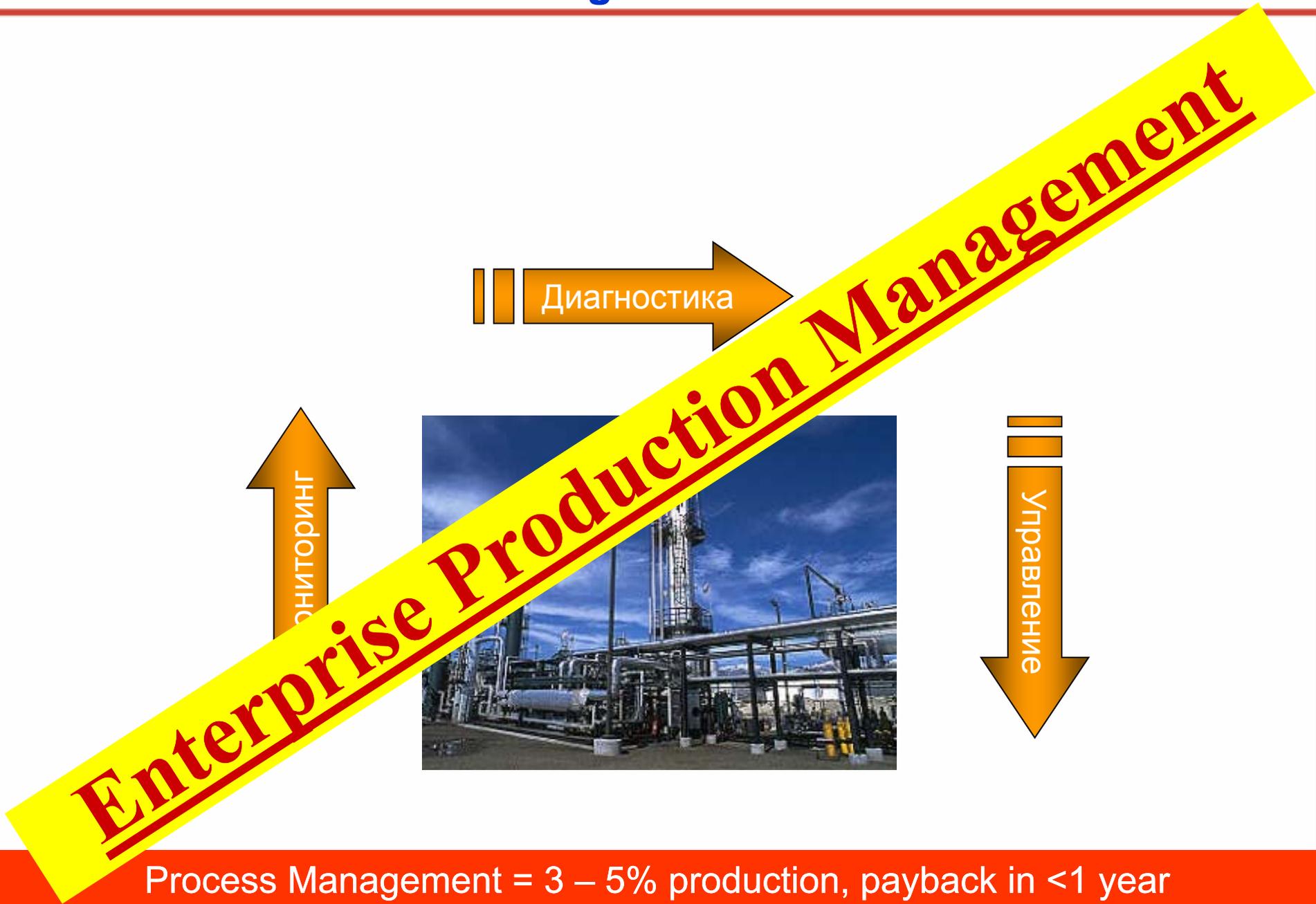
Application Data Center



Функции MATRIX MES

MATRIX





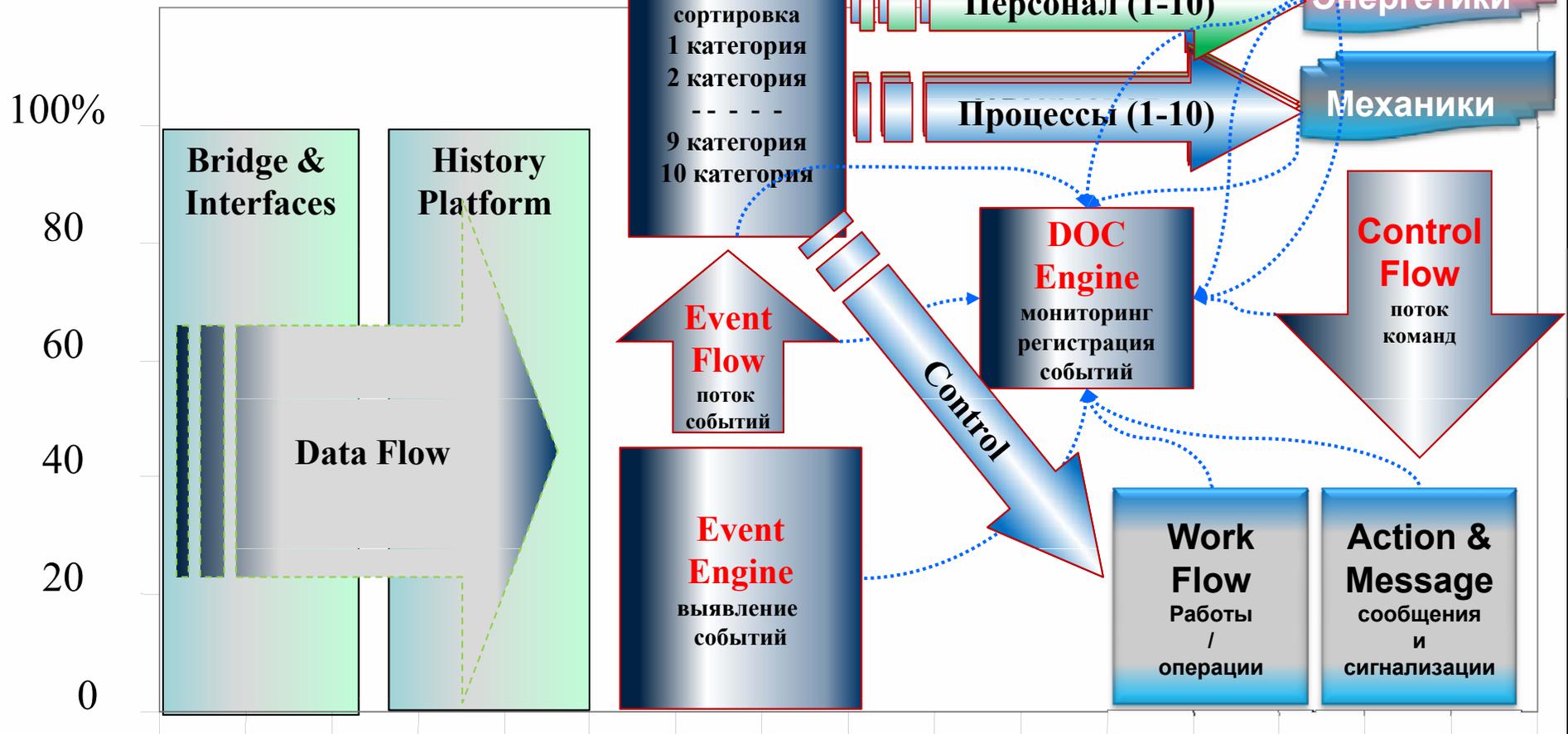
Process Management = 3 – 5% production, payback in <1 year



Обработка информации в MATRIX

MATRIX

**Компоненты
С
ИИ**



Enterprise Personnel Management

Диагностика

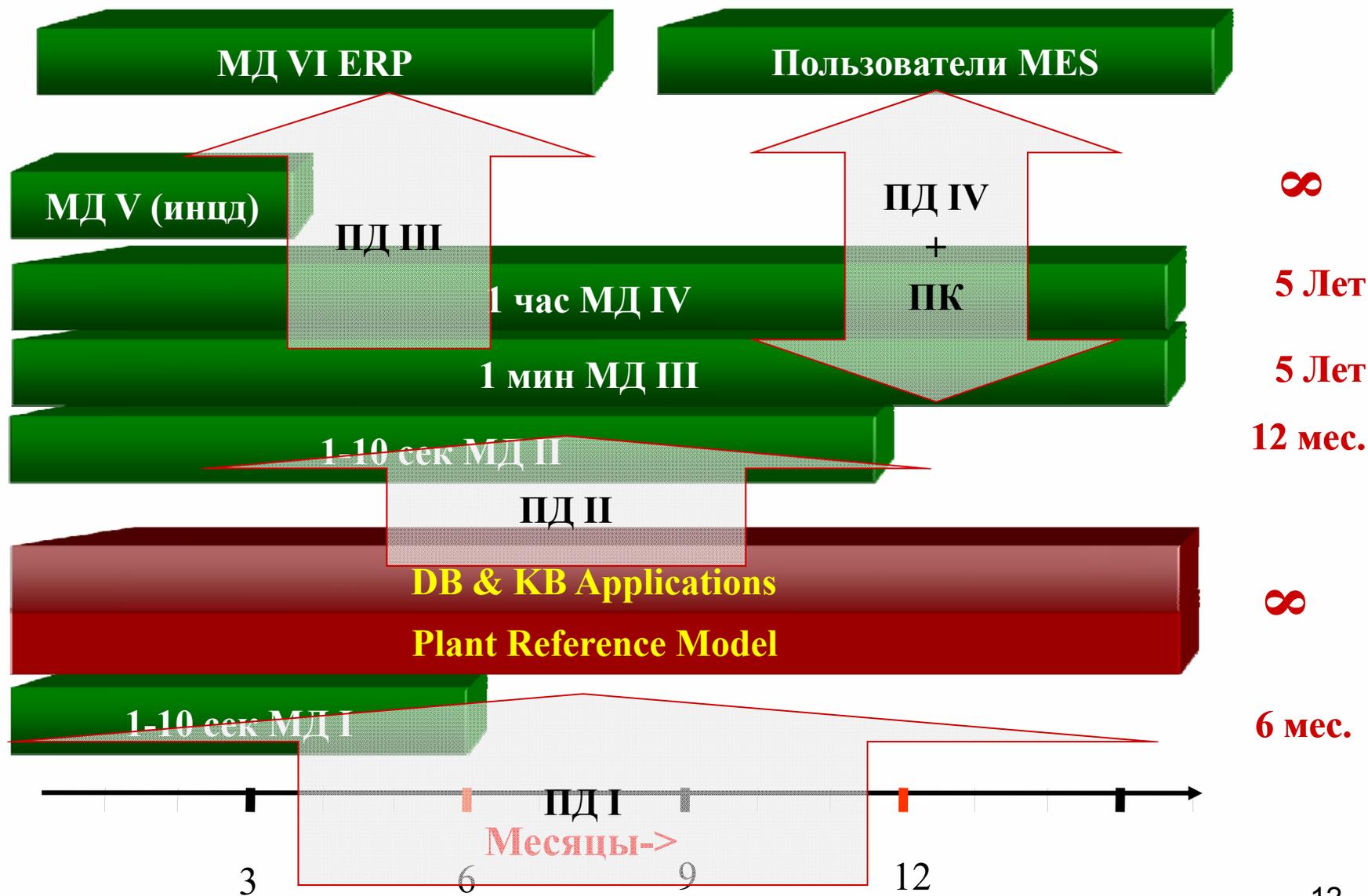
Мониторинг

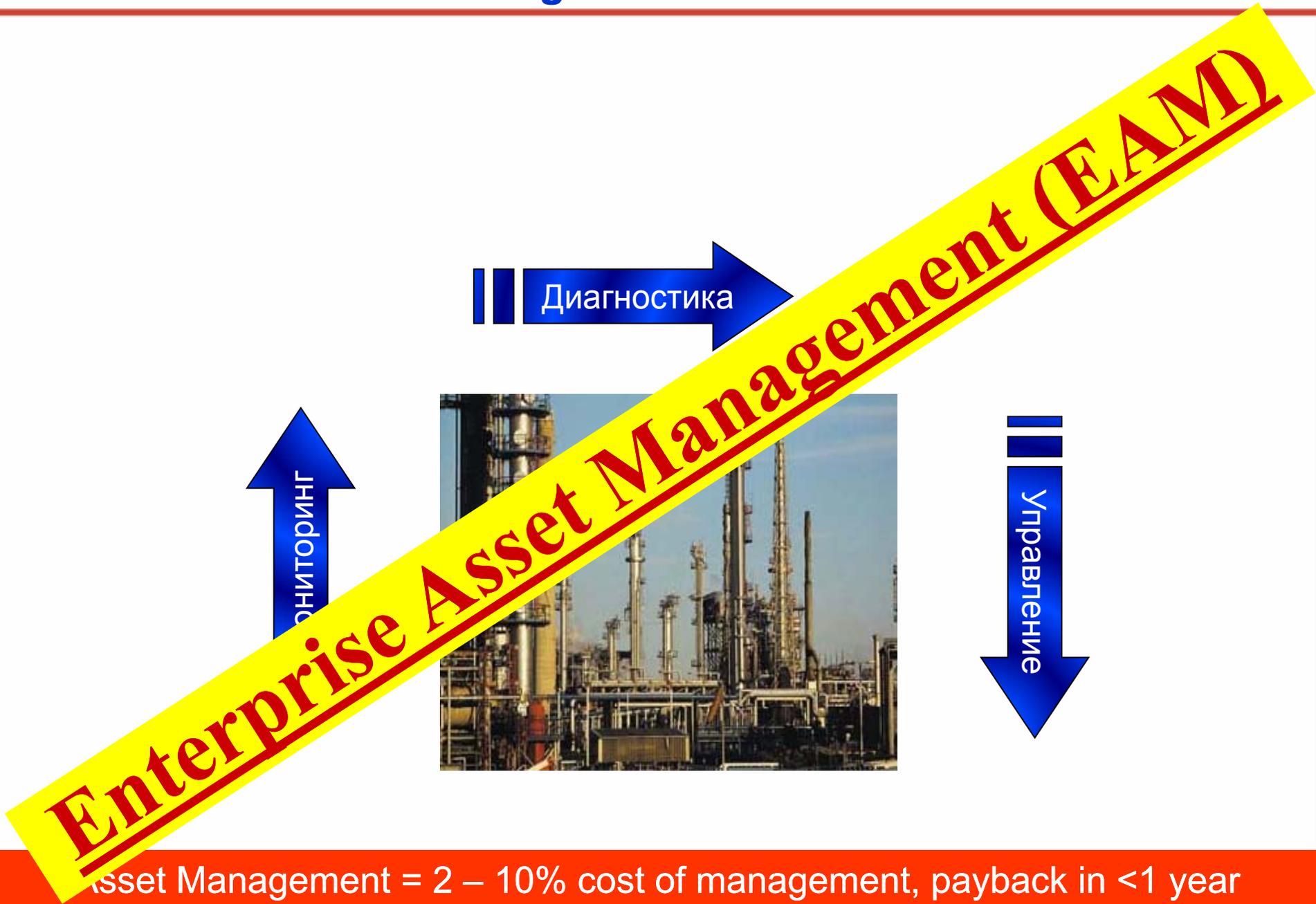


Управление

Operation Management = 1 – 3% production, payback in <1 year







Asset Management = 2 – 10% cost of management, payback in <1 year

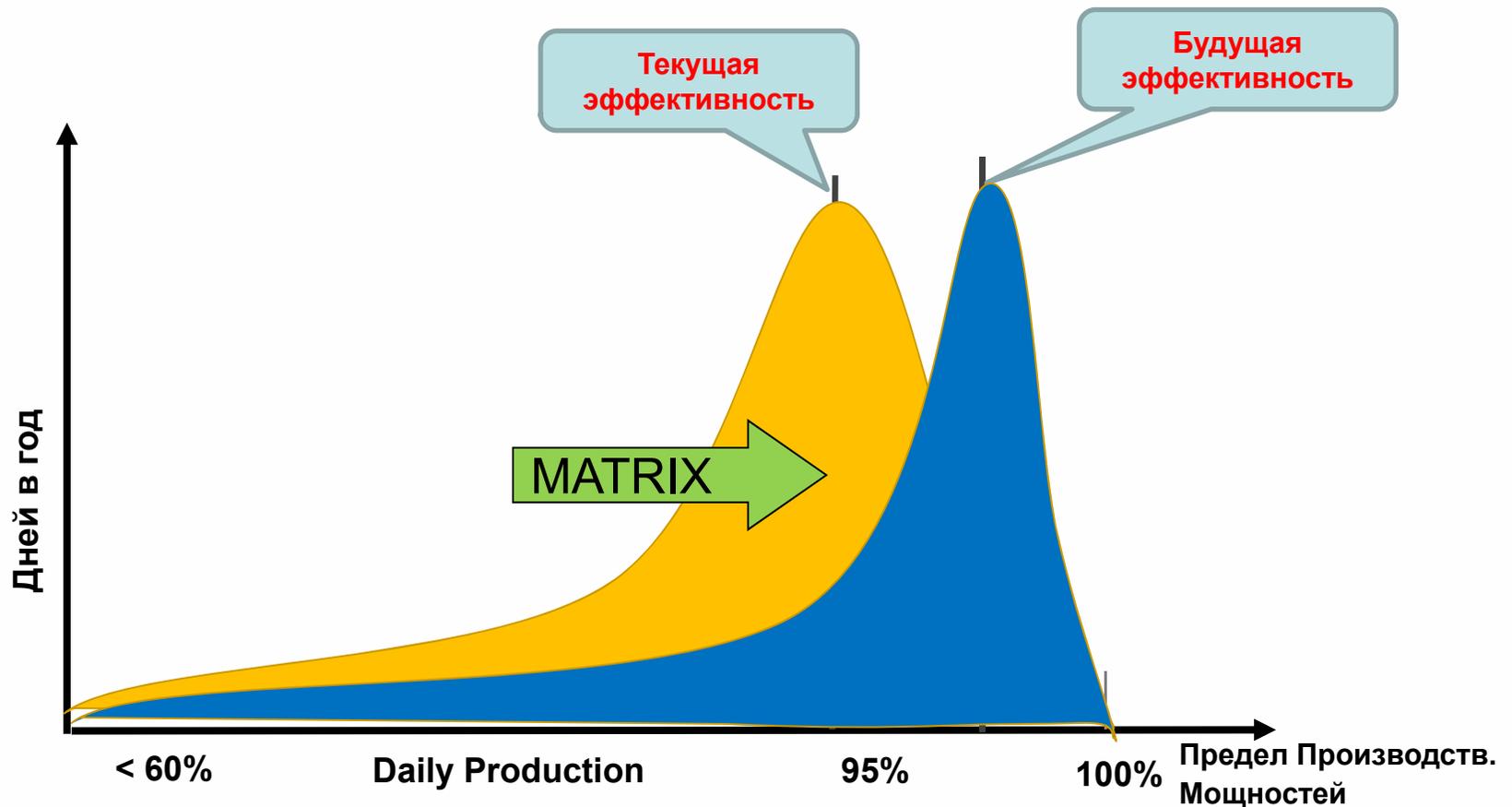




Level -5

Data Center Corporation





1. Увеличение выпуска продукции:

Matrix MES = **2-4%**

Matrix PCS = **3-5%**

2. Уменьшение эксплуатационных затрат

Matrix MES = **10-20%**

Matrix PCS = **1-5%**

