

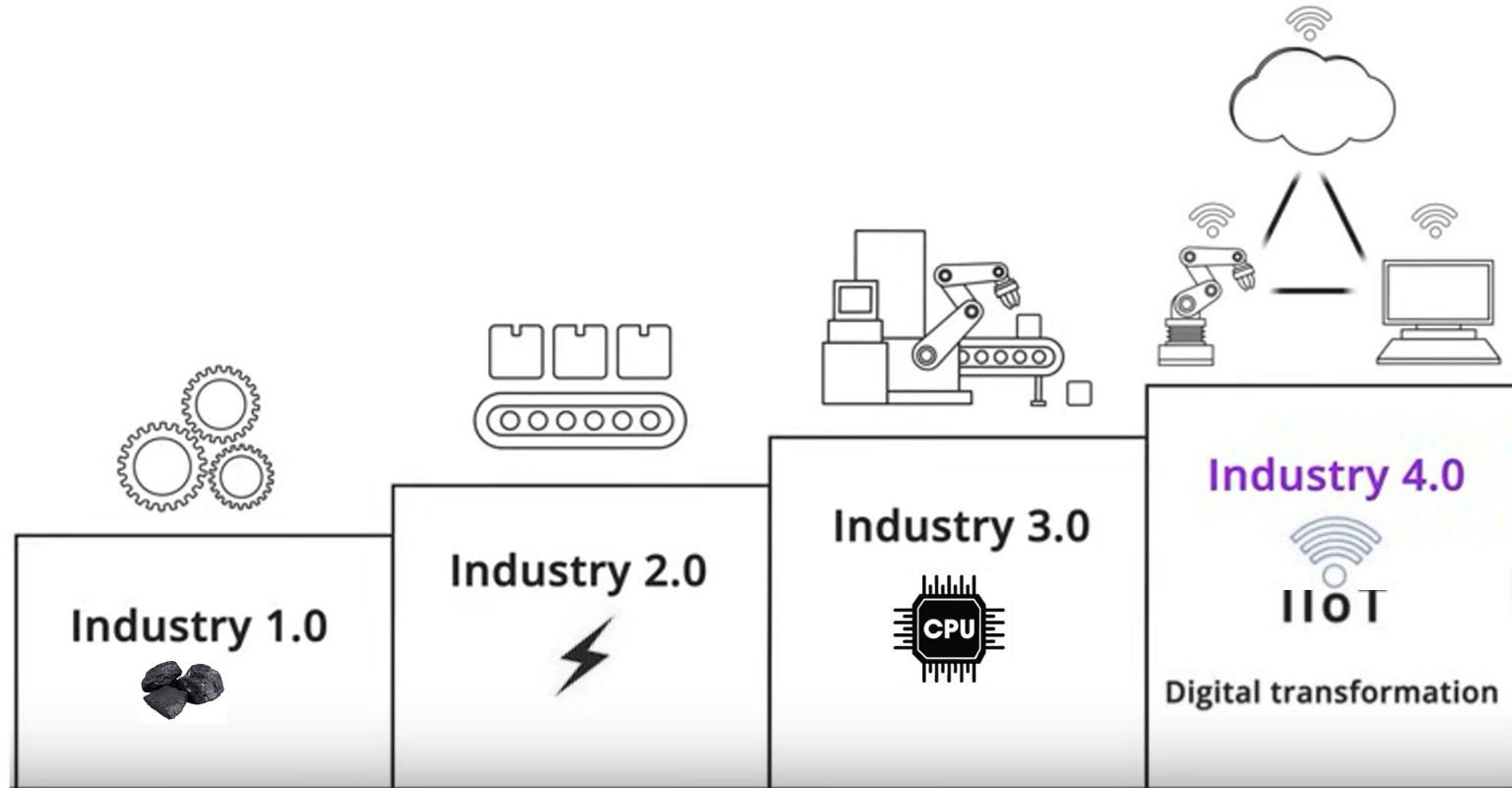
Redes Industriais e Sistemas Supervisórios

Bacharelado em Engenharia de Controle e Automação

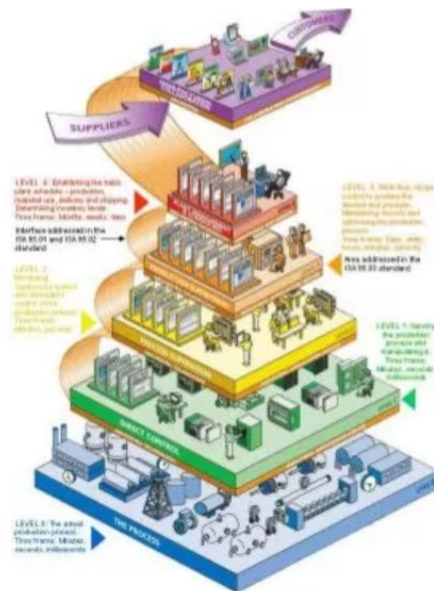
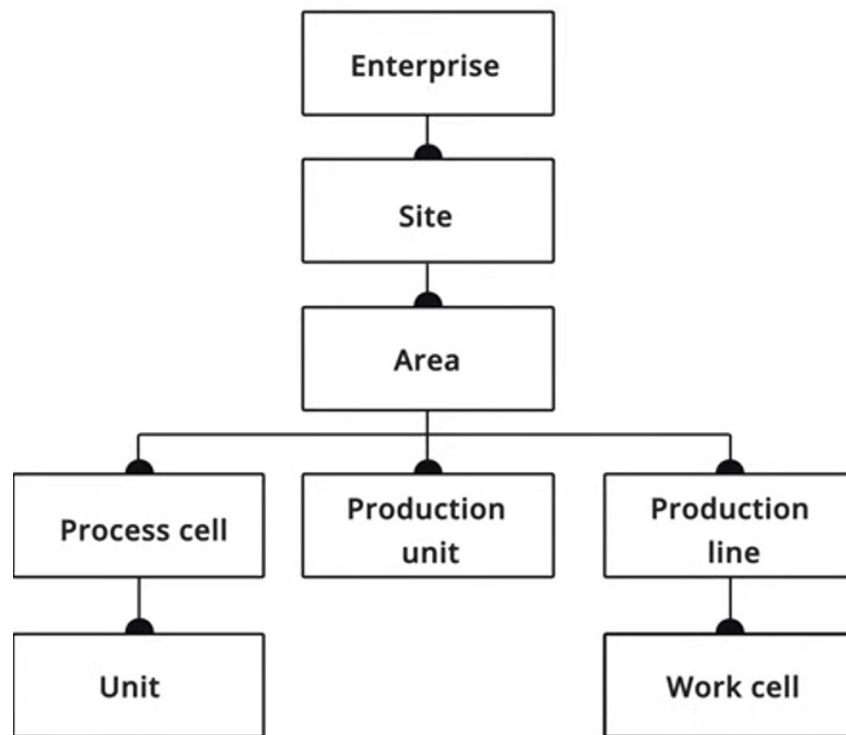
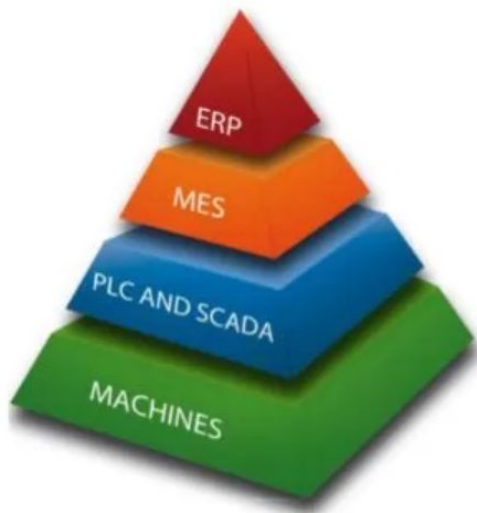
Industrial Internet of Things

IIoT

Industrial Internet of Things - IIoT

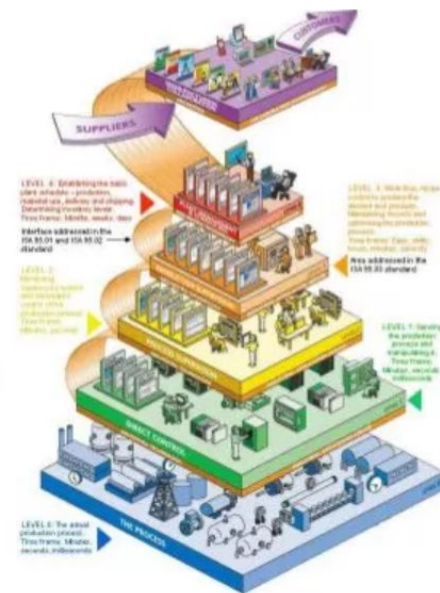
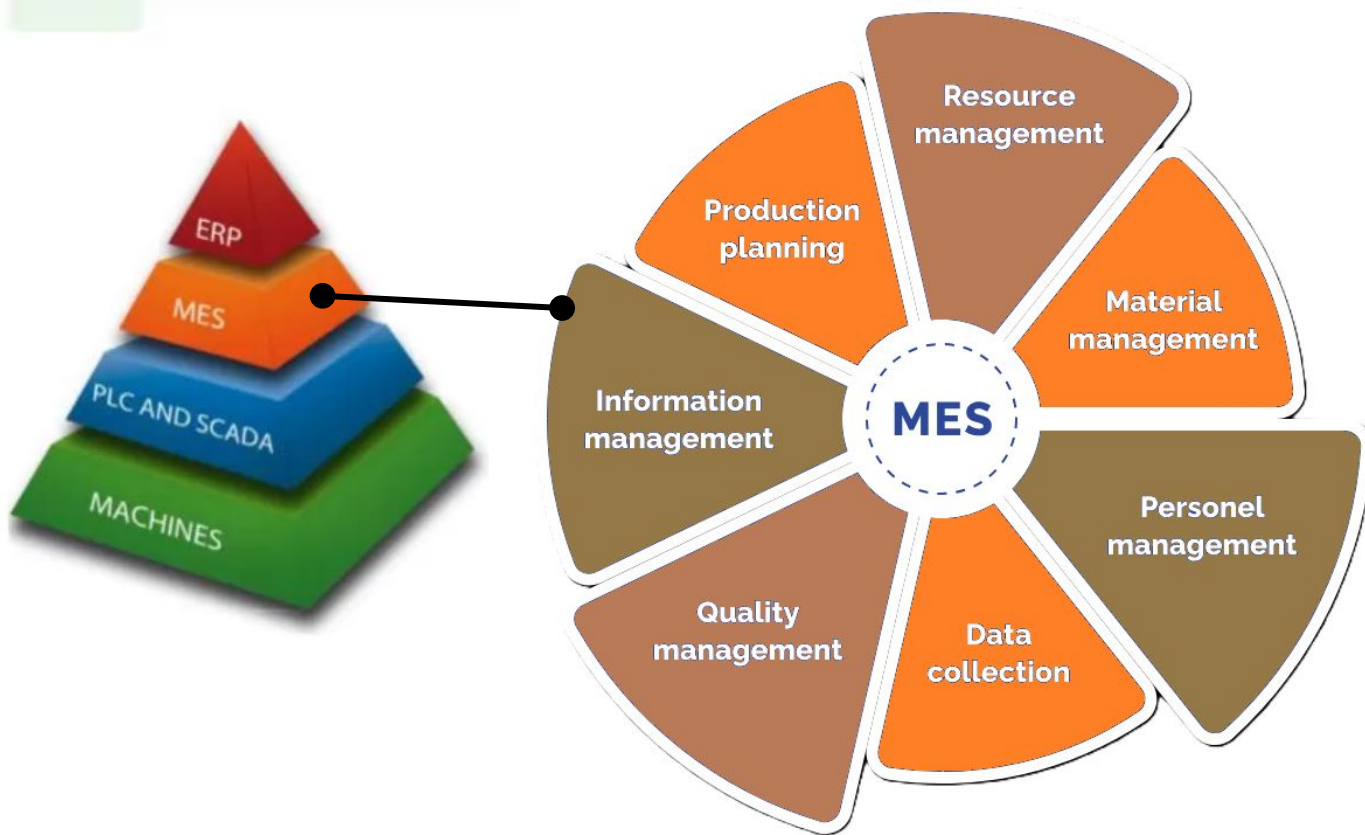


Modelo de hierarquia ISA95



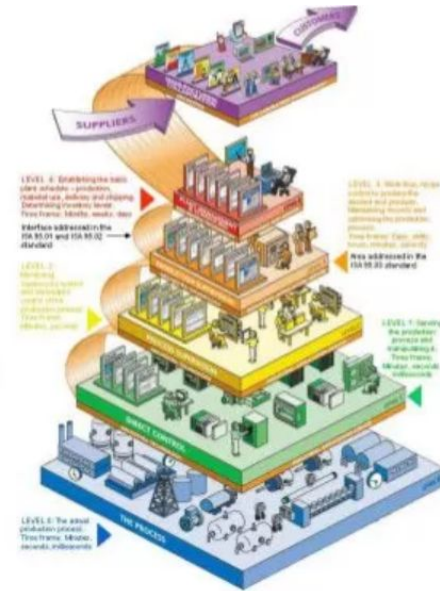
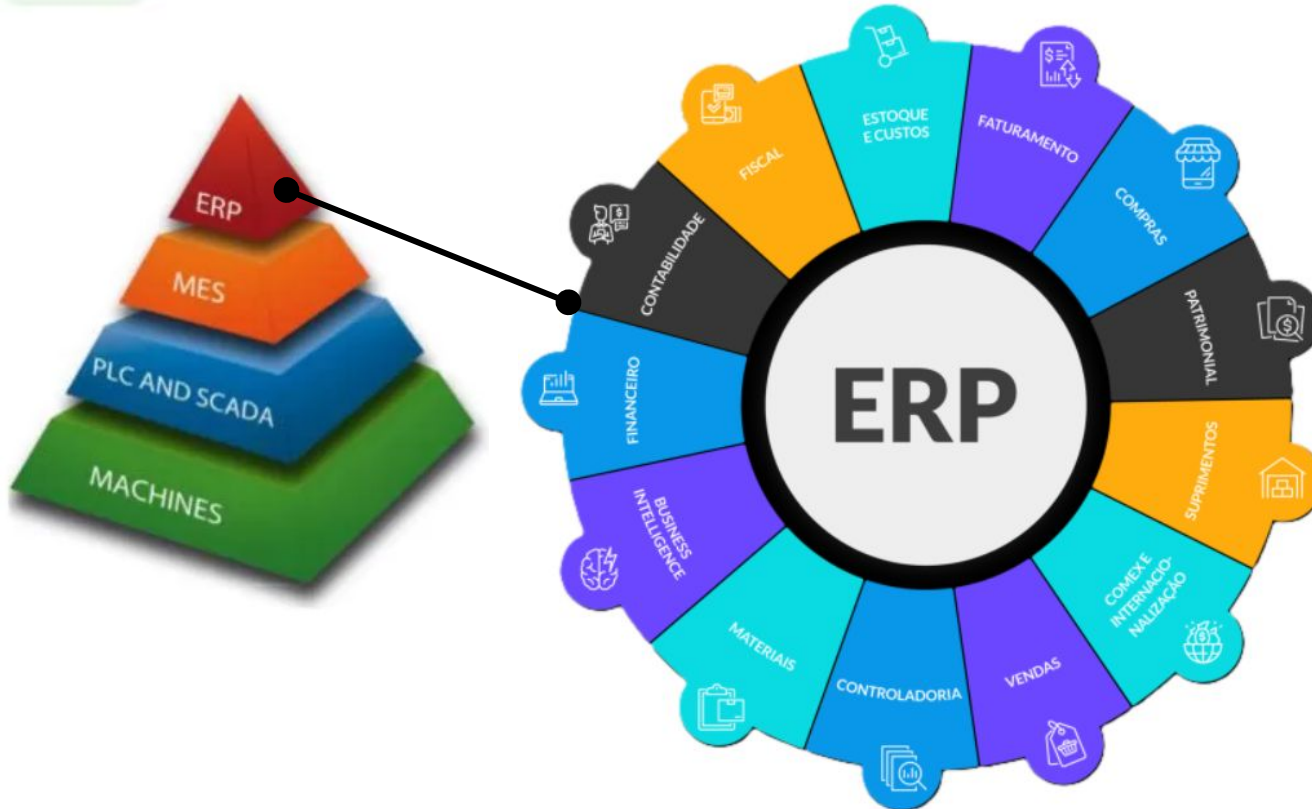
Sistema de Execução de Manufatura

Manufacturing execution system - MES

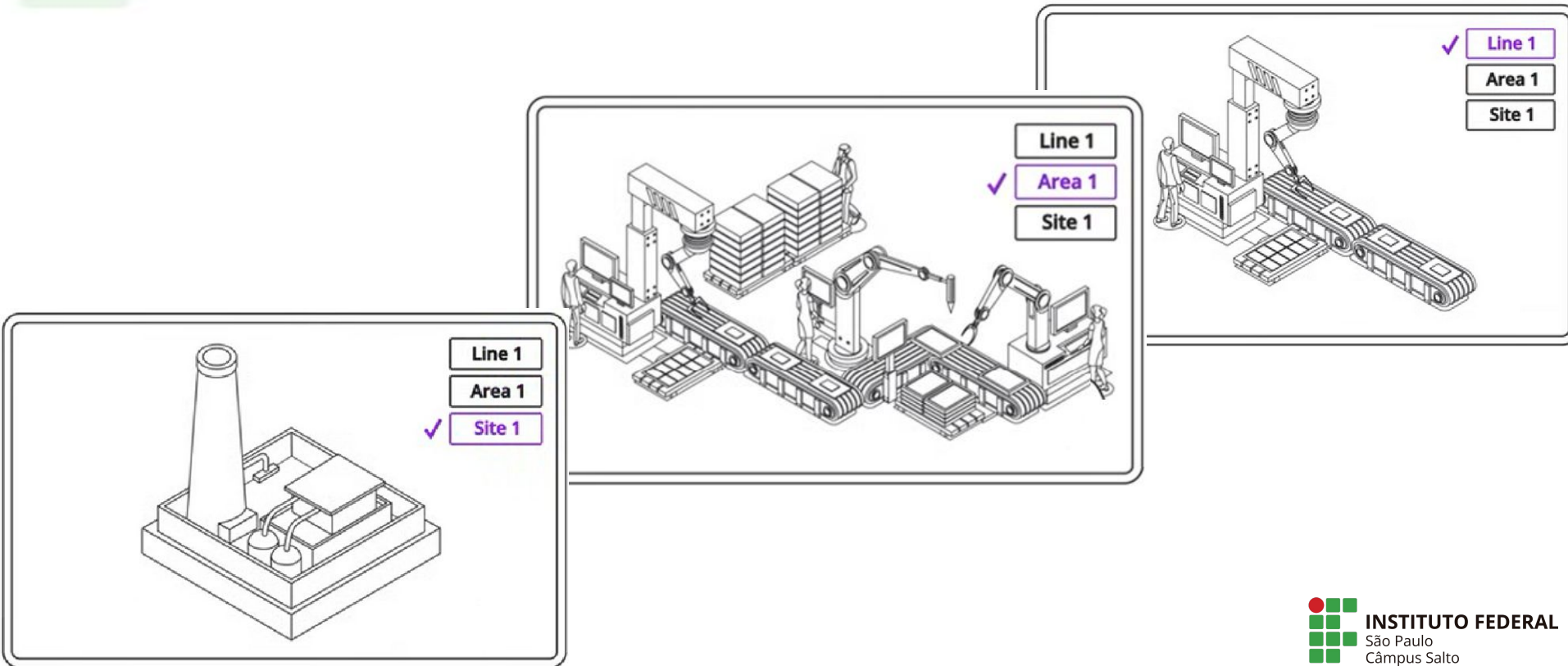


Planejamento de Recursos Empresariais

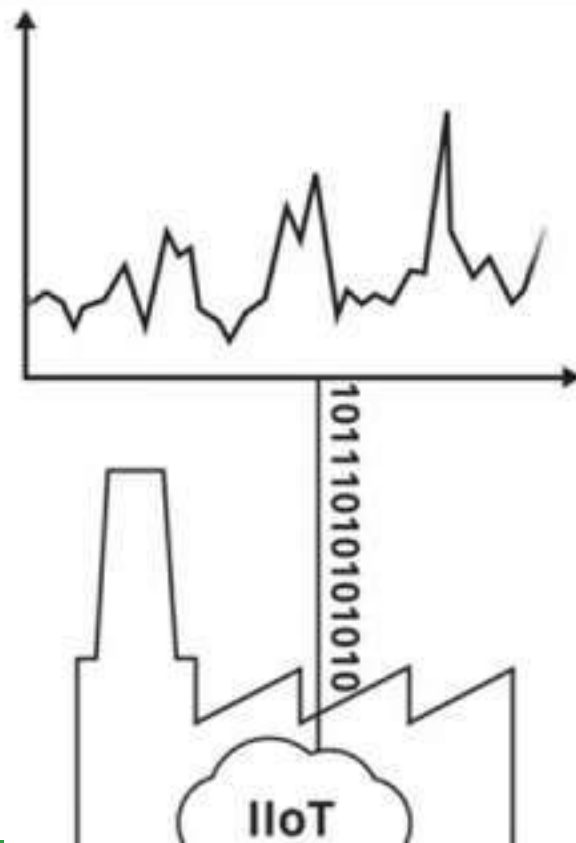
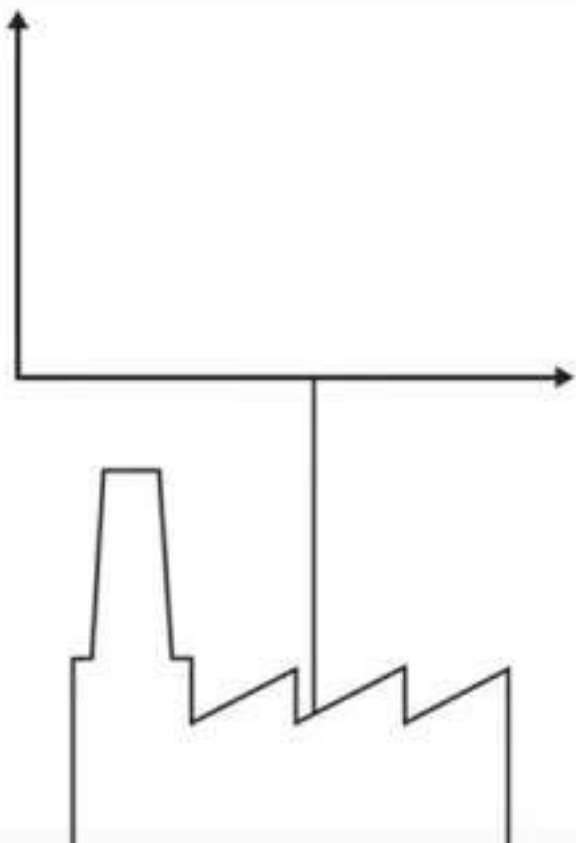
Enterprise Resource Planning - ERP



Industrial Internet of Things - IIoT



Mudança de paradigma com Dados

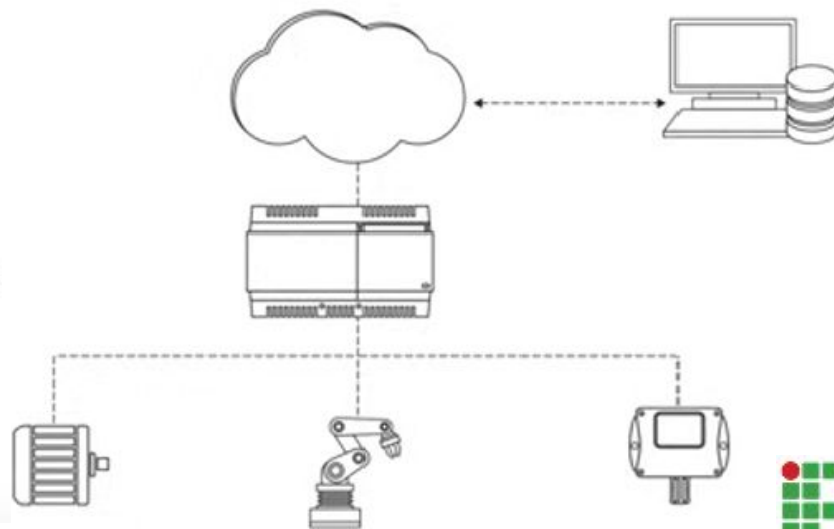


Diferença entre IoT e IIoT

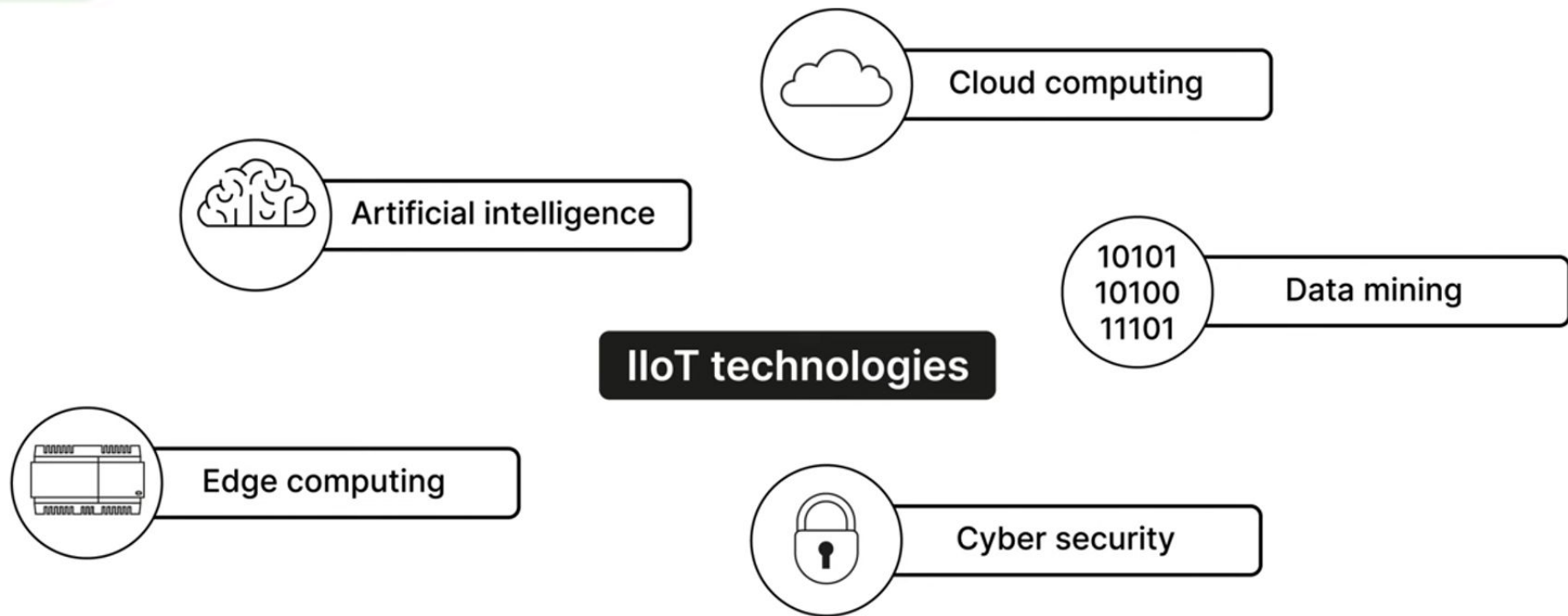
IoT



IIoT




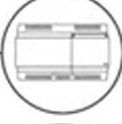
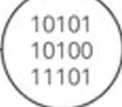


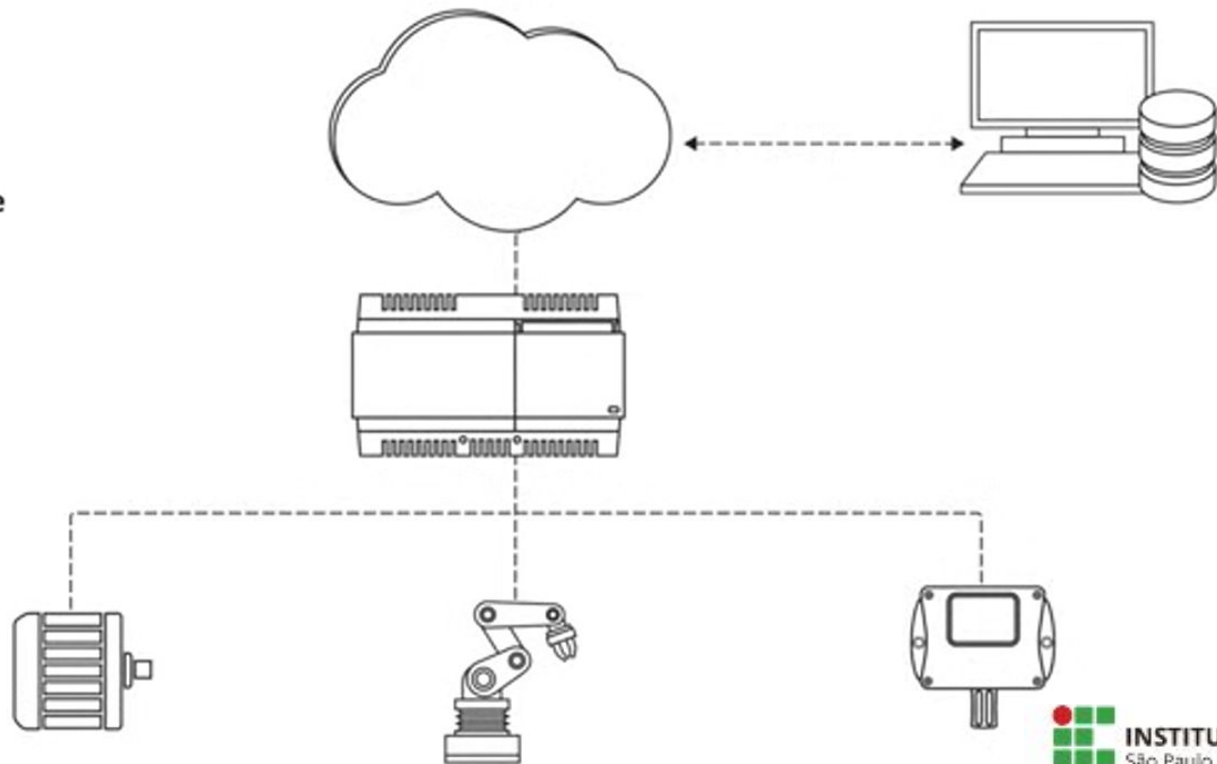
Tecnologias de IIoT



Tecnologias de IIoT

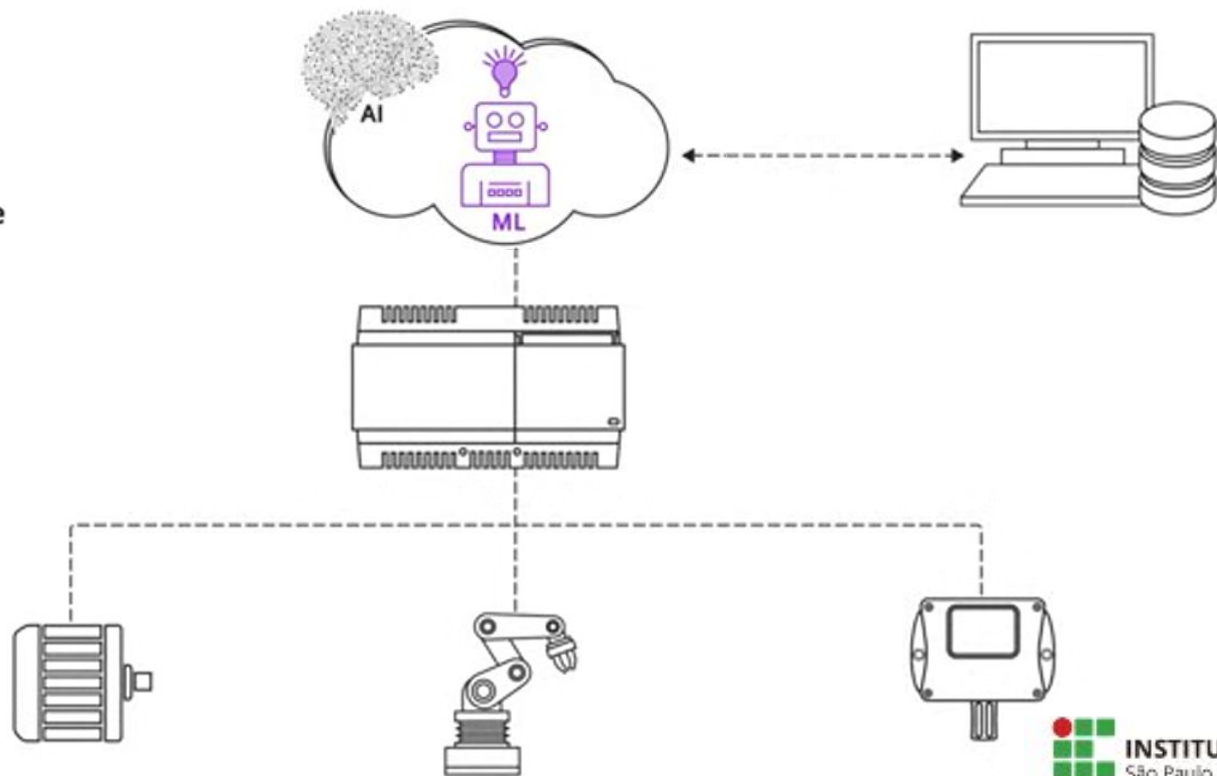
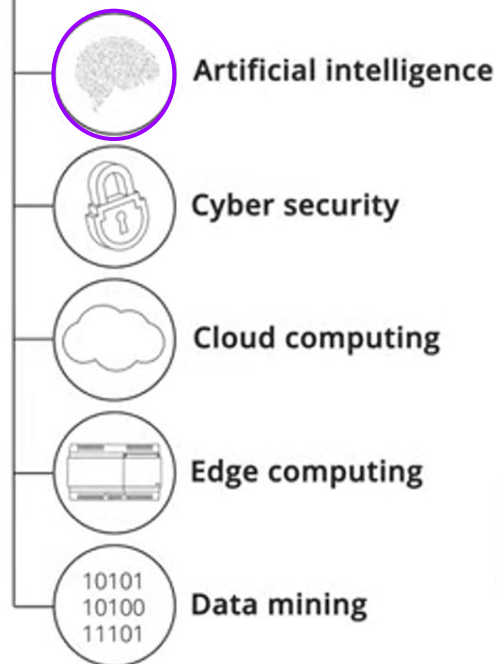
IIoT technologies

-  Artificial intelligence
-  Cyber security
-  Cloud computing
-  Edge computing
-  Data mining






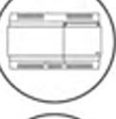

Inteligência Artificial

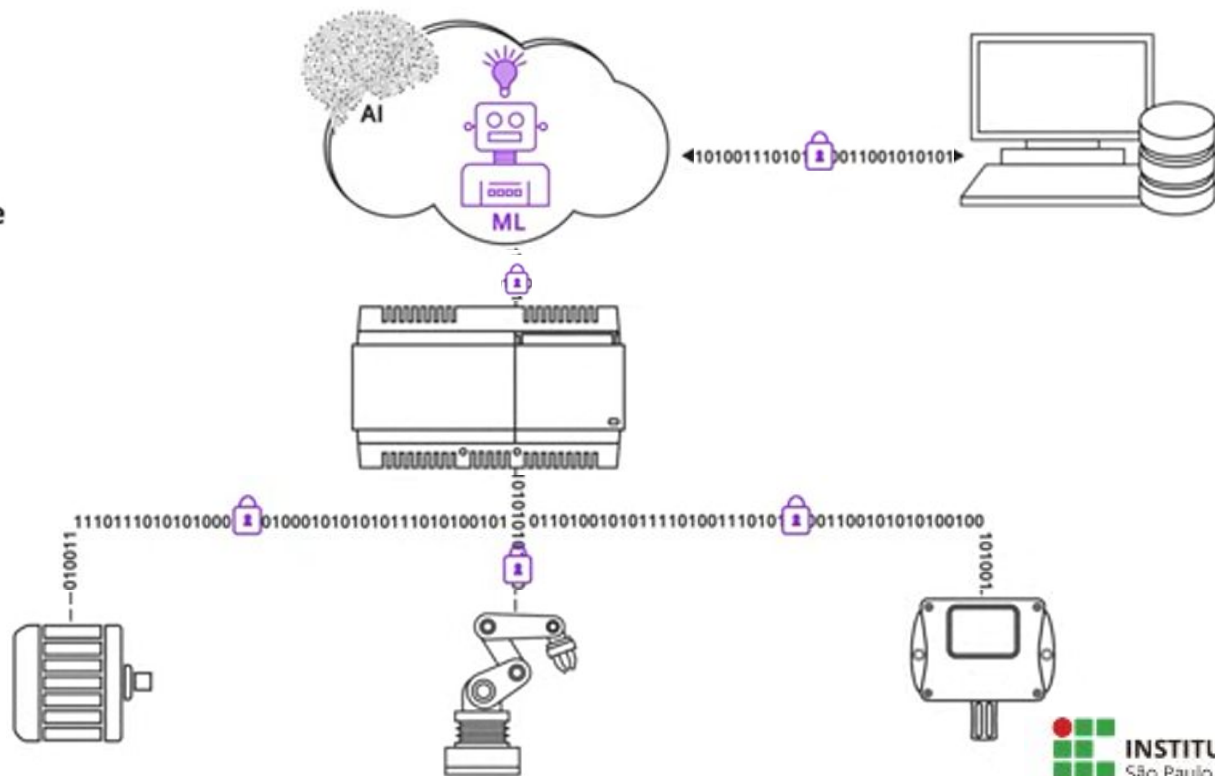
IIoT technologies



Segurança cibernética




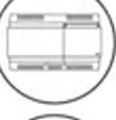

IloT technologies

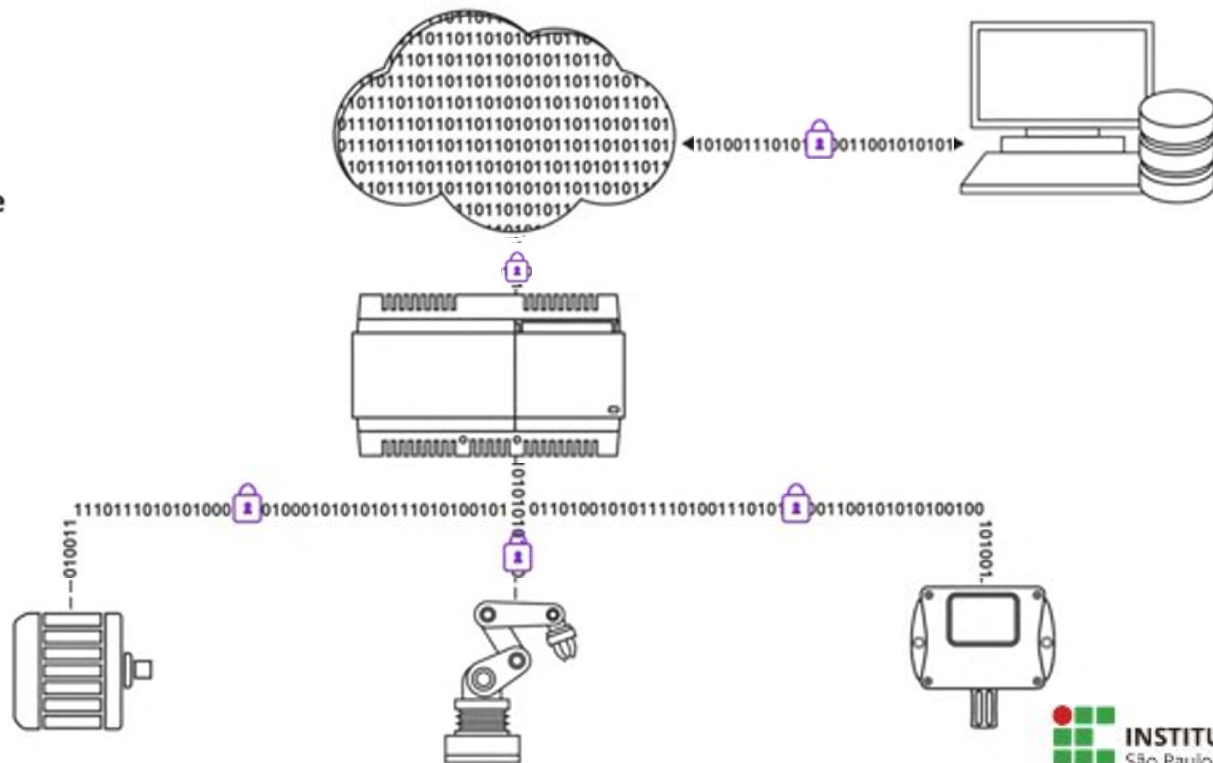
-  Artificial intelligence
-  Cyber security
-  Cloud computing
-  Edge computing
-  Data mining



Computação em nuvem

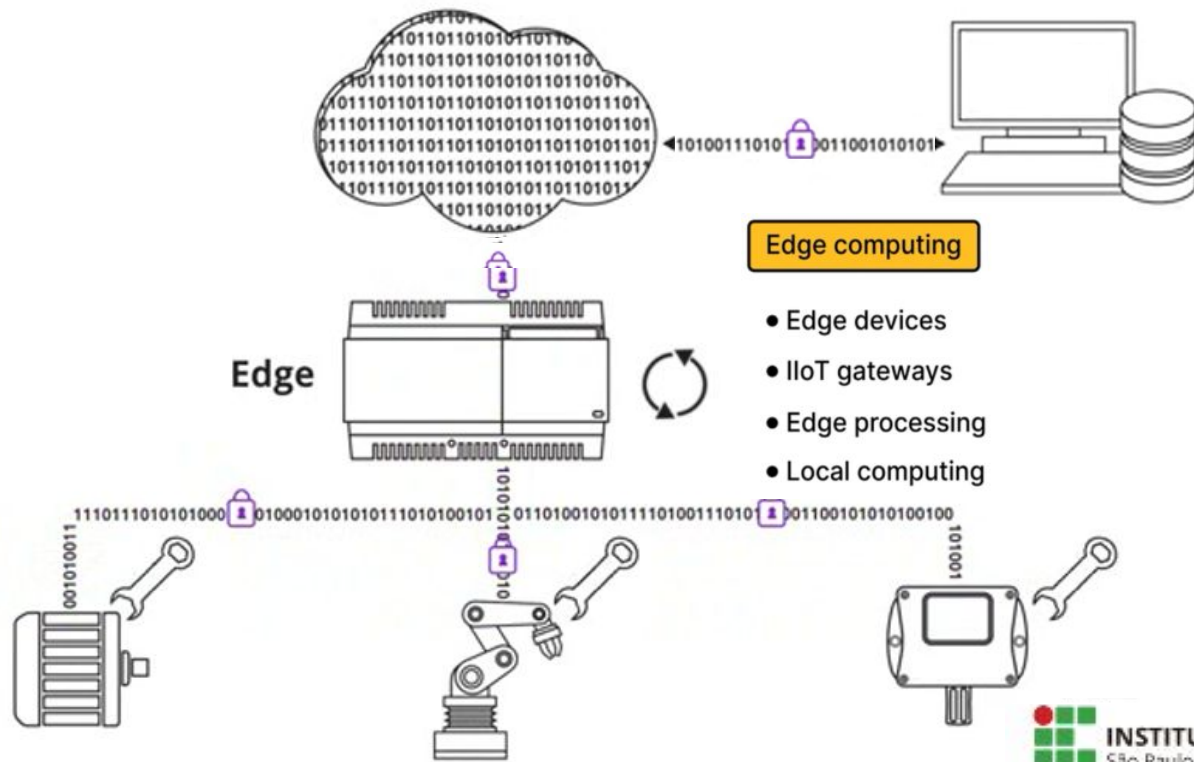
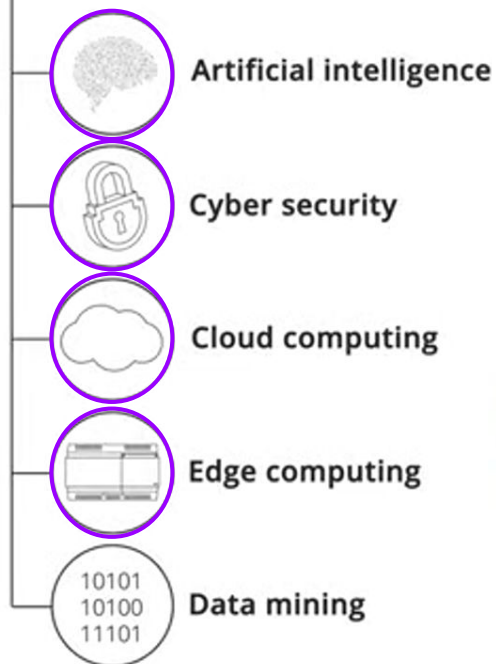
IIoT technologies

-  Artificial intelligence
-  Cyber security
-  Cloud computing
-  Edge computing
-  Data mining



Computação na borda

IIoT technologies



Mineração e Análise de Dados

IIoT technologies



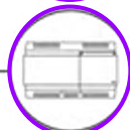
Artificial intelligence



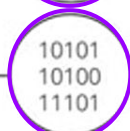
Cyber security



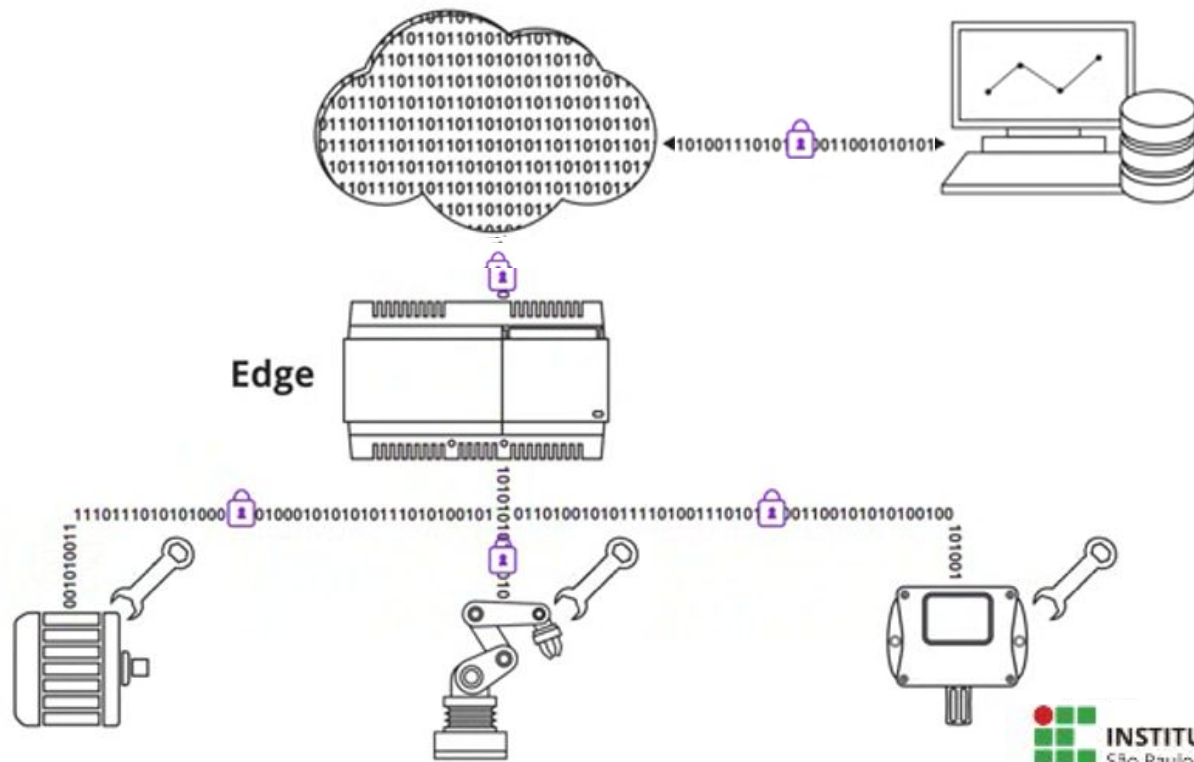
Cloud computing



Edge computing

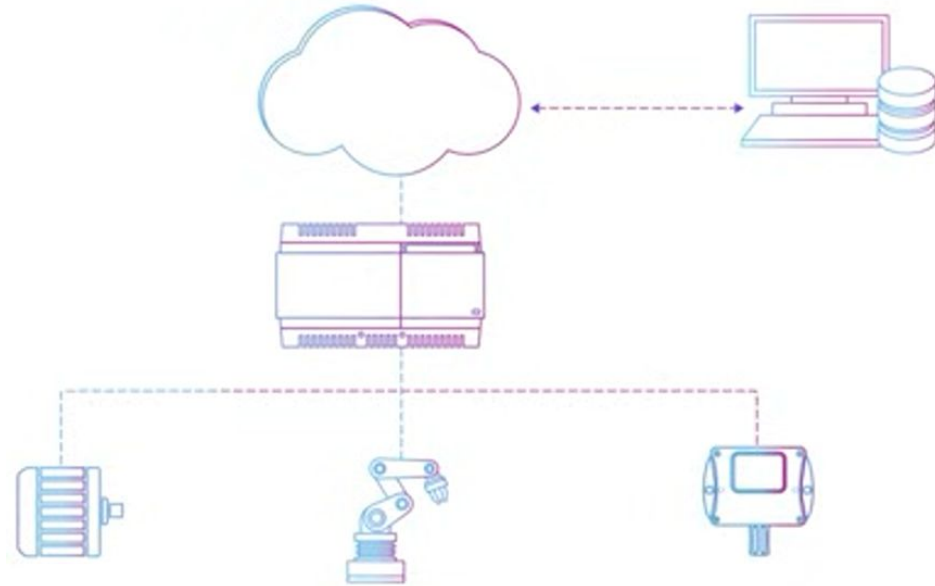
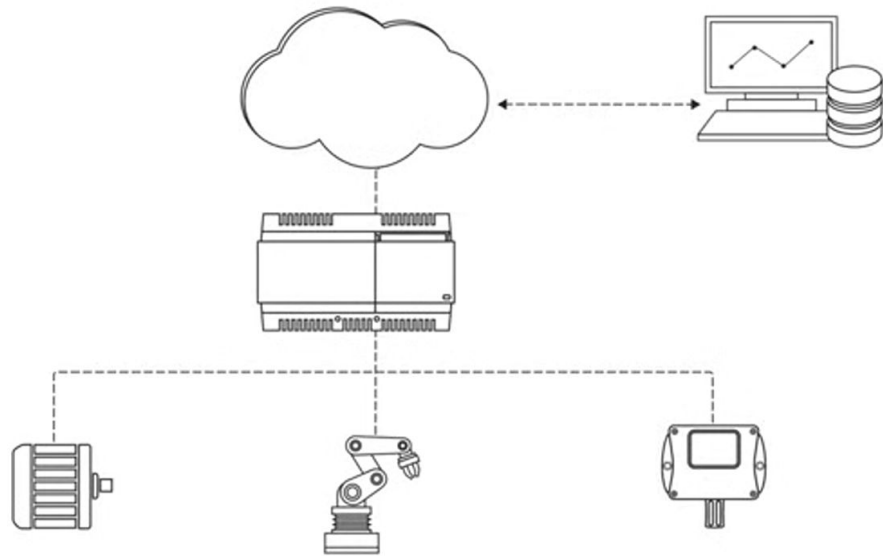


Data mining

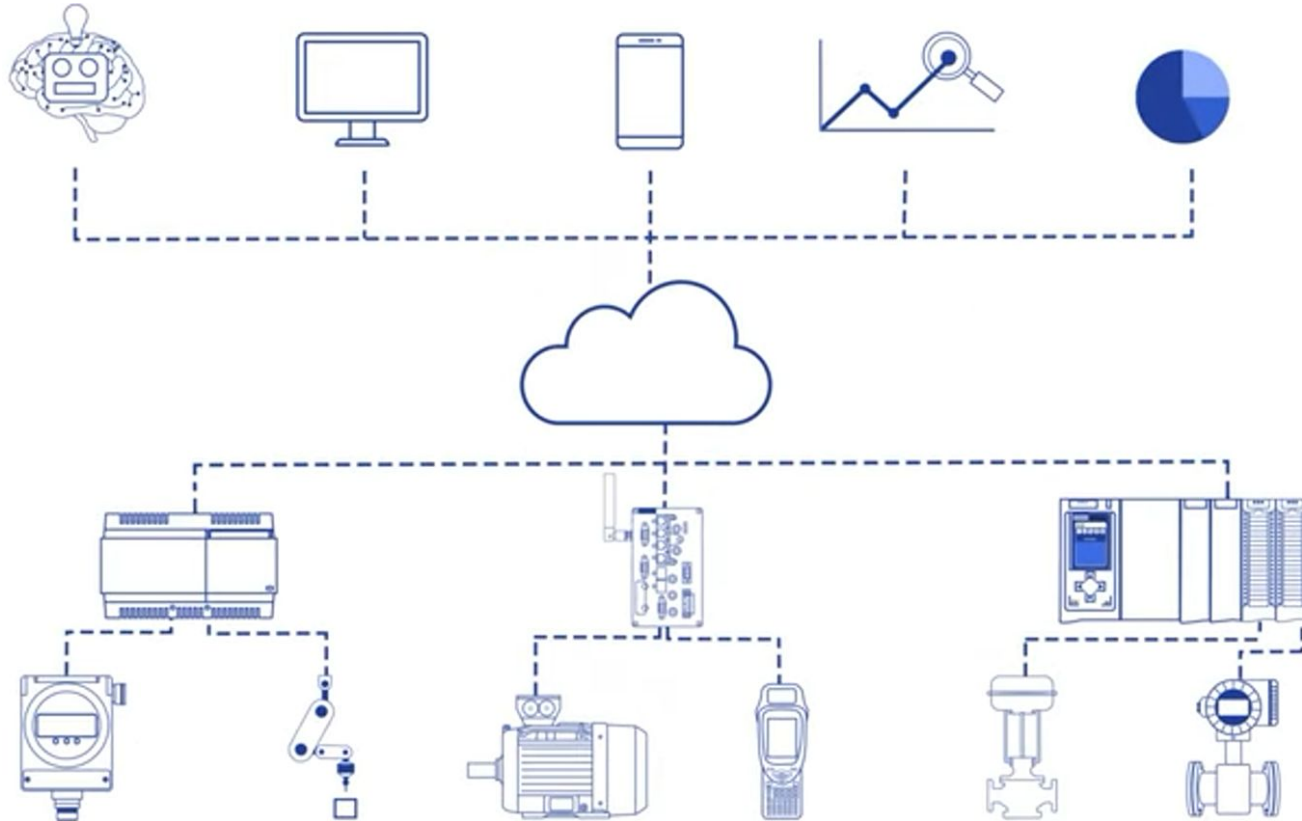


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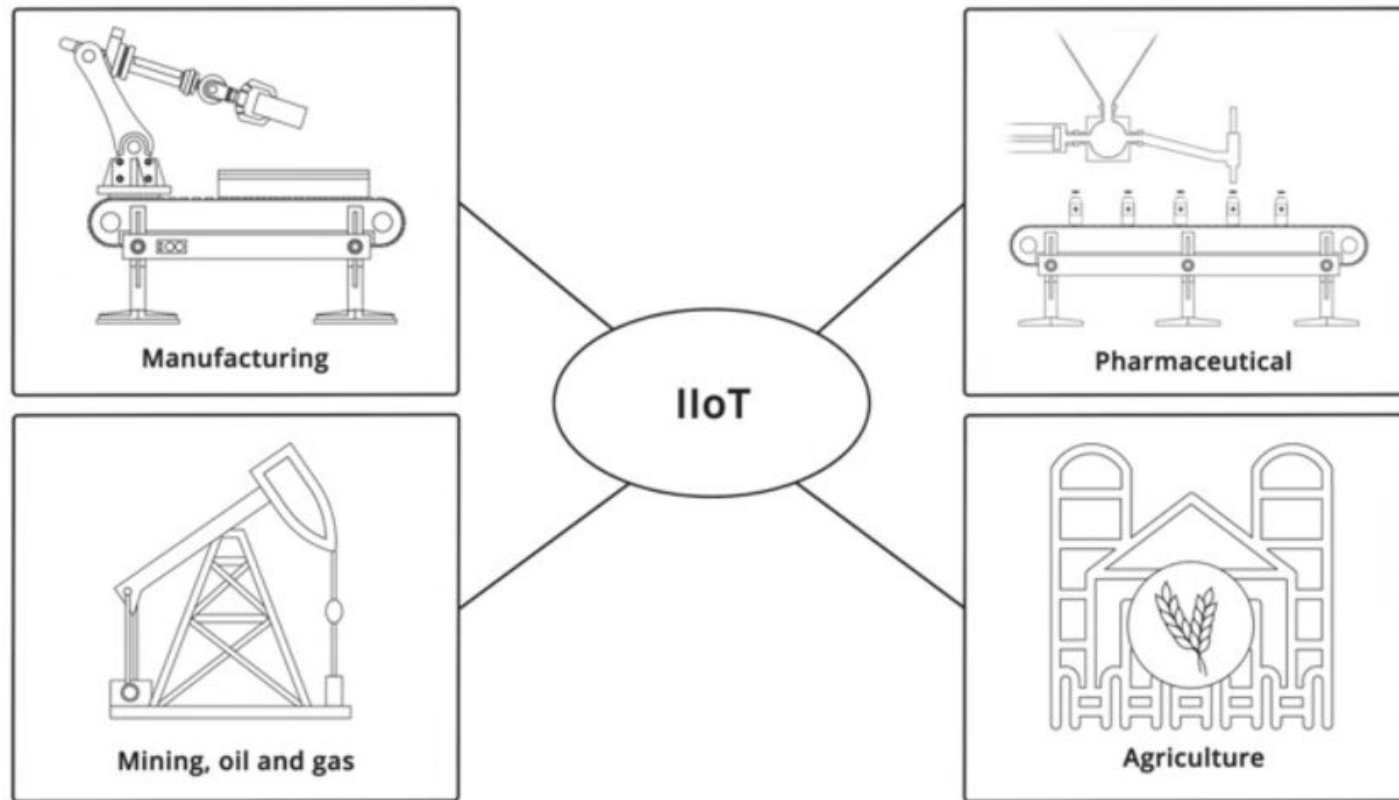
Gêmeo digital



Desafios para IIoT



Desafio: Custo elevado - investimento financeiro

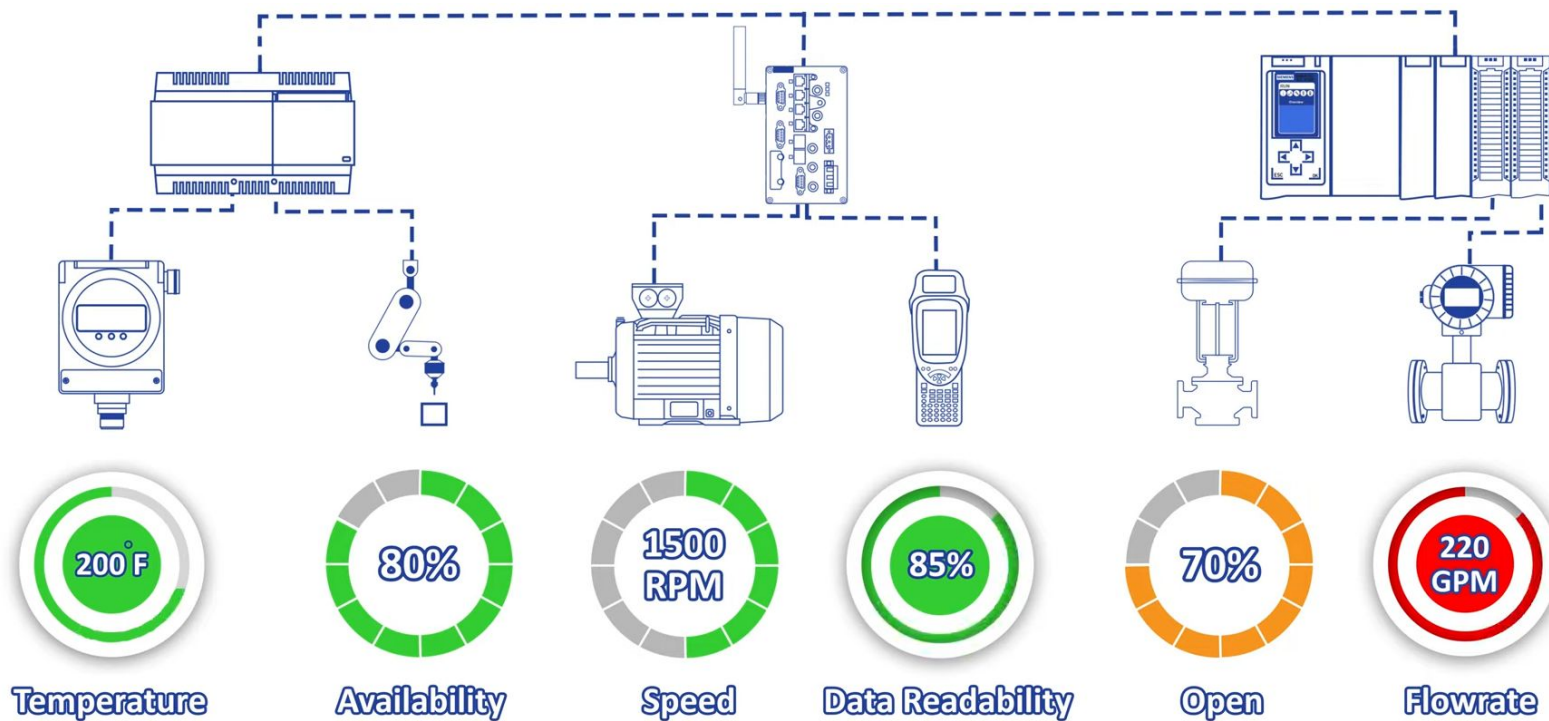


Process performance

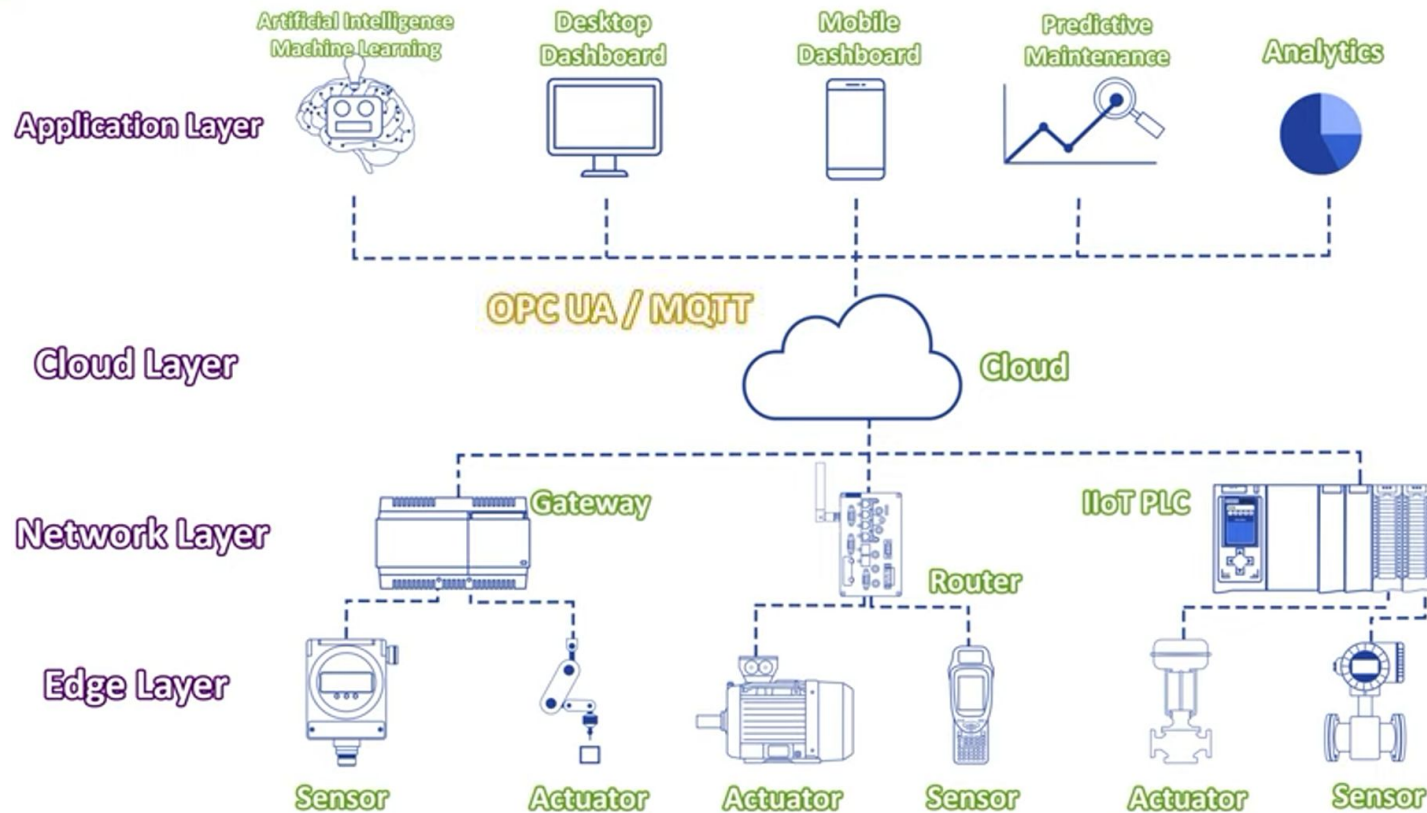


Reduce downtime

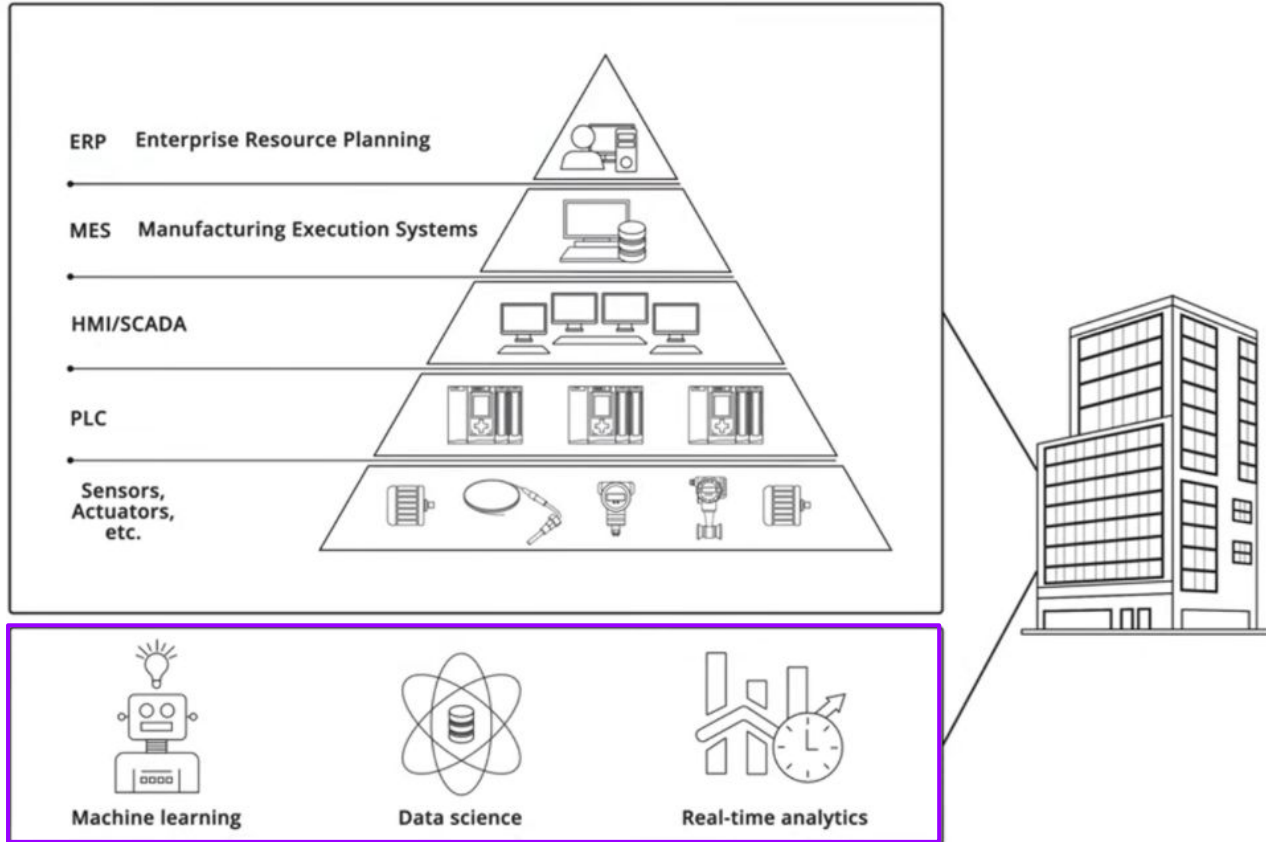
Desafio: Treinamento para operação



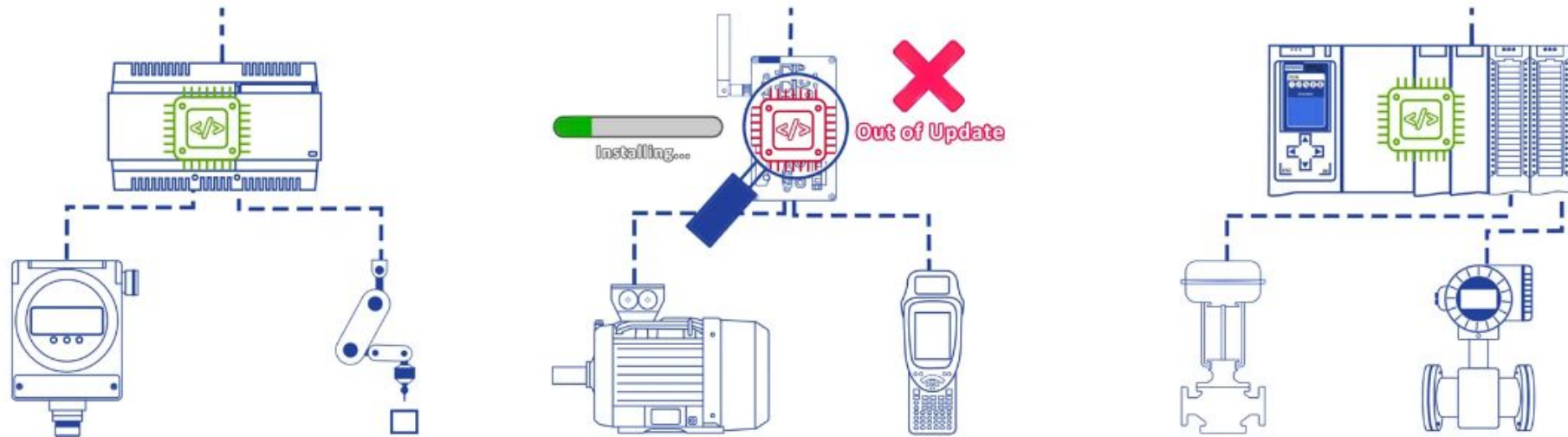
Desafio: Falta de experiência



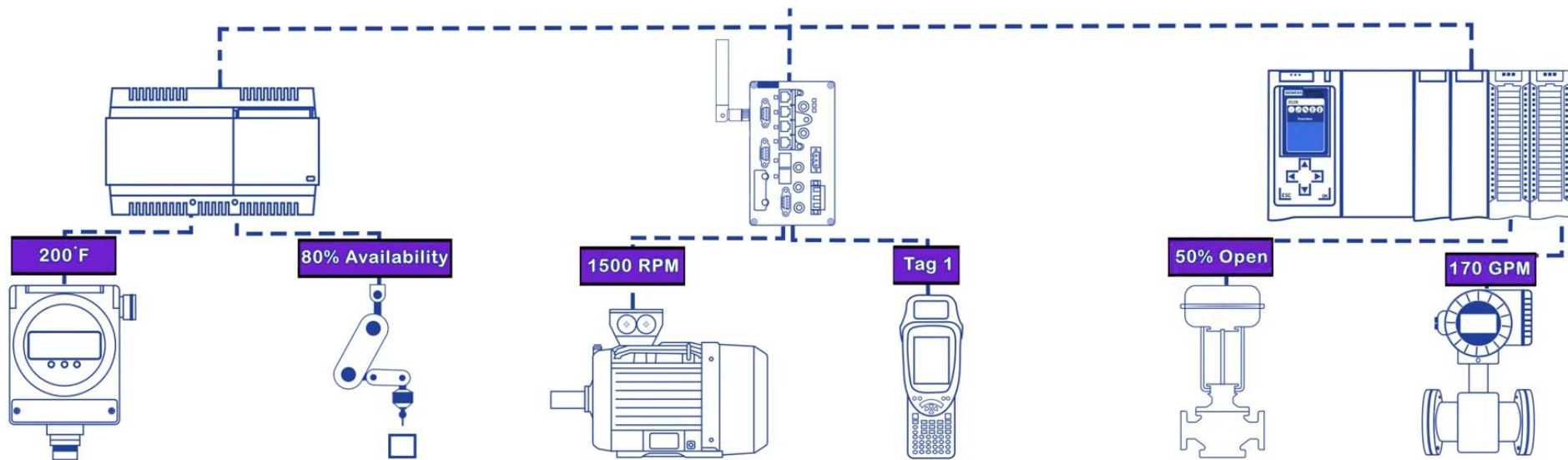
Desafio: Integração de ferramentas



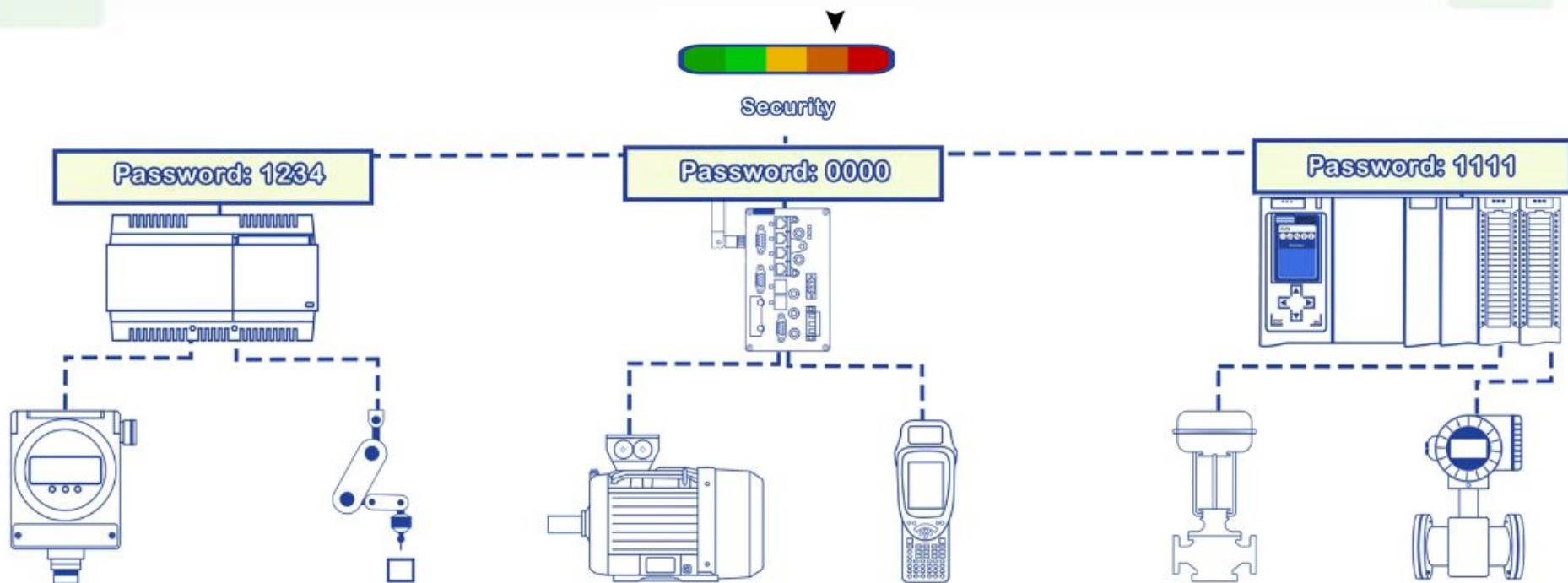
Desafio: Manter sistemas atualizados



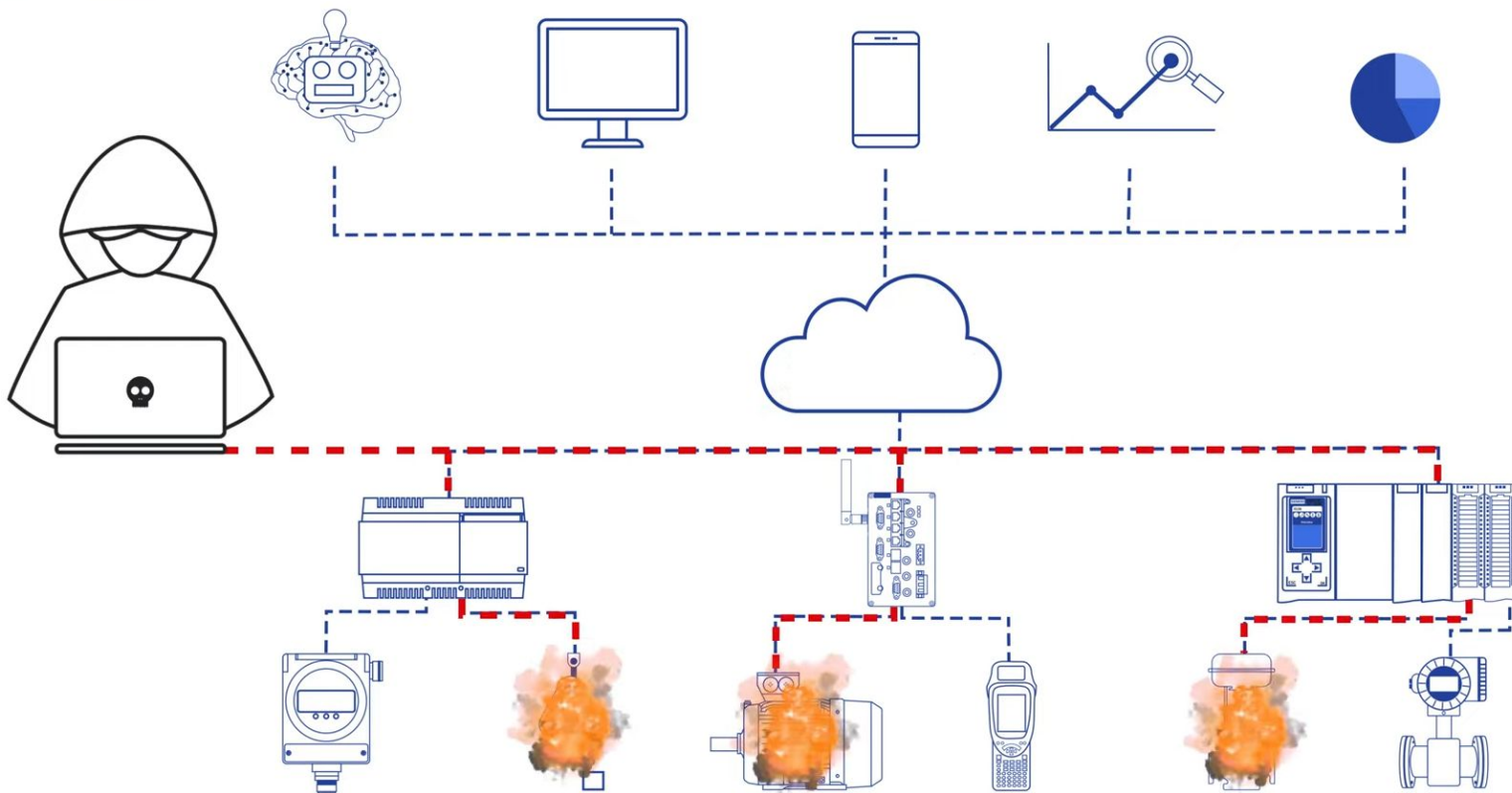
Desafio: Segurança



Desafio: Segurança



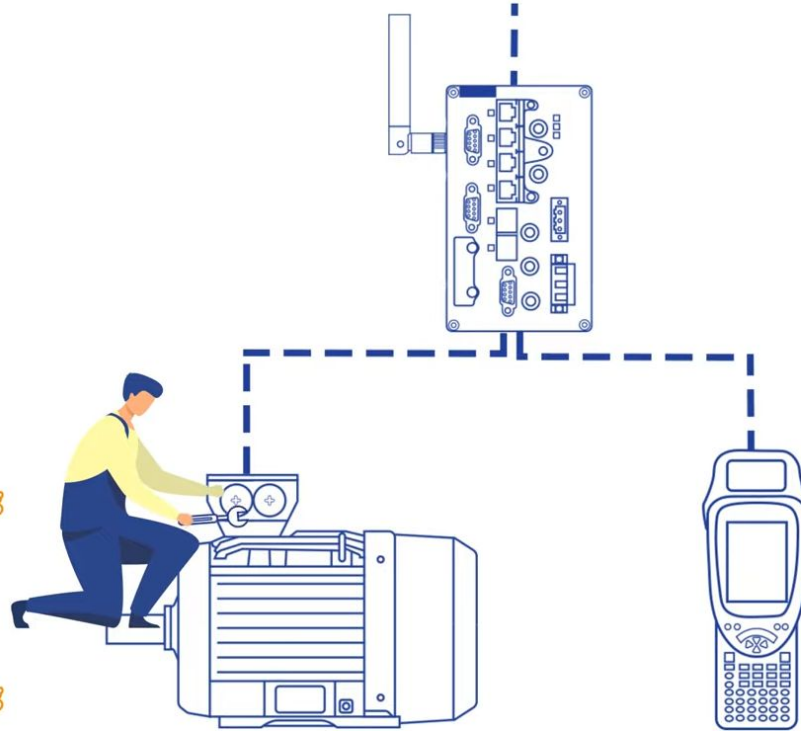
Desafio: Ameaças cibernéticas



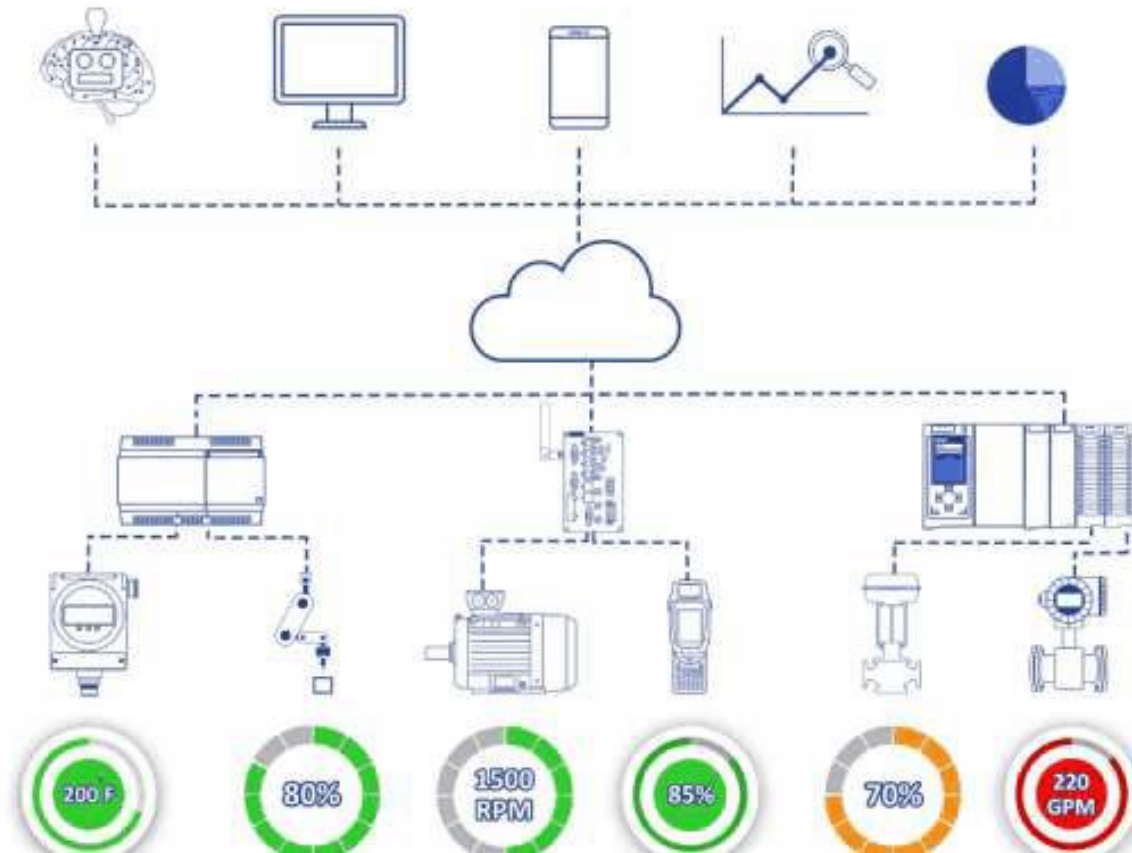
Mudança de paradigma na manutenção



Reduce Downtime



Industrial Internet of Things - IIoT



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