MAESTRI

Total Resource and Energy Efficiency Management System for Process Industries

Apresentador: Ricardo Rato

Workshops SIM4.0

13-15/03/2018

SPIRE Sustainable Process Industry through Resource and Energy Efficiency

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 680570.

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Conteúdo

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- Apresentação do projeto
- Principais componentes
- Próximos Passos

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Desafio

"A indústria deve fornecer produtos e serviços com preços competitivos, que satisfaçam as necessidades e qualidade de vida do consumidor, através de compromissos inteligentes entre os desafios económicos e da sustentabilidade"

Objetivo

FAZER MAIS COM MENOS

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Technical/Technological Gaps

- Falta de ferramentas simples para avaliação e otimização da eficiência de recursos e energia, que integrem aspetos operacionais, económicos e ambientais.

- Conhecimento insuficiente sobre como valorizar desperdícios (Energia, Recursos, etc.)

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Management Gaps

- Não incorporação de aspetos da sustentabilidade na estratégia das empresas

- Dificuldade na definição clara e consistente de KPIs, e seu acompanhamento

- Dispersão de dados relevantes do processo por vários departamentos da empresa

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Organizational Gaps

- Dificuldade na recolha e partilha de informação sobre os fluxos de processo (consume de recursos e energia, bem como, desperdícios e emissões;

- Inexistência de meios para mapear e partilhar de recursos (energia, água, desperdícios e materiais reciclados) entre unidade produtivas dentro de uma empresa ou entre empresas num parque industrial;

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Total Resource and Energy Efficiency Management System for Process Industries

Duração: Set-2015 | Aug-2019

Programa de financiamento: Horizonte 2020 | SPIRE 6 2015

Orçamento : EUR 5,673,356.13

Website: http://maestri-spire.eu/

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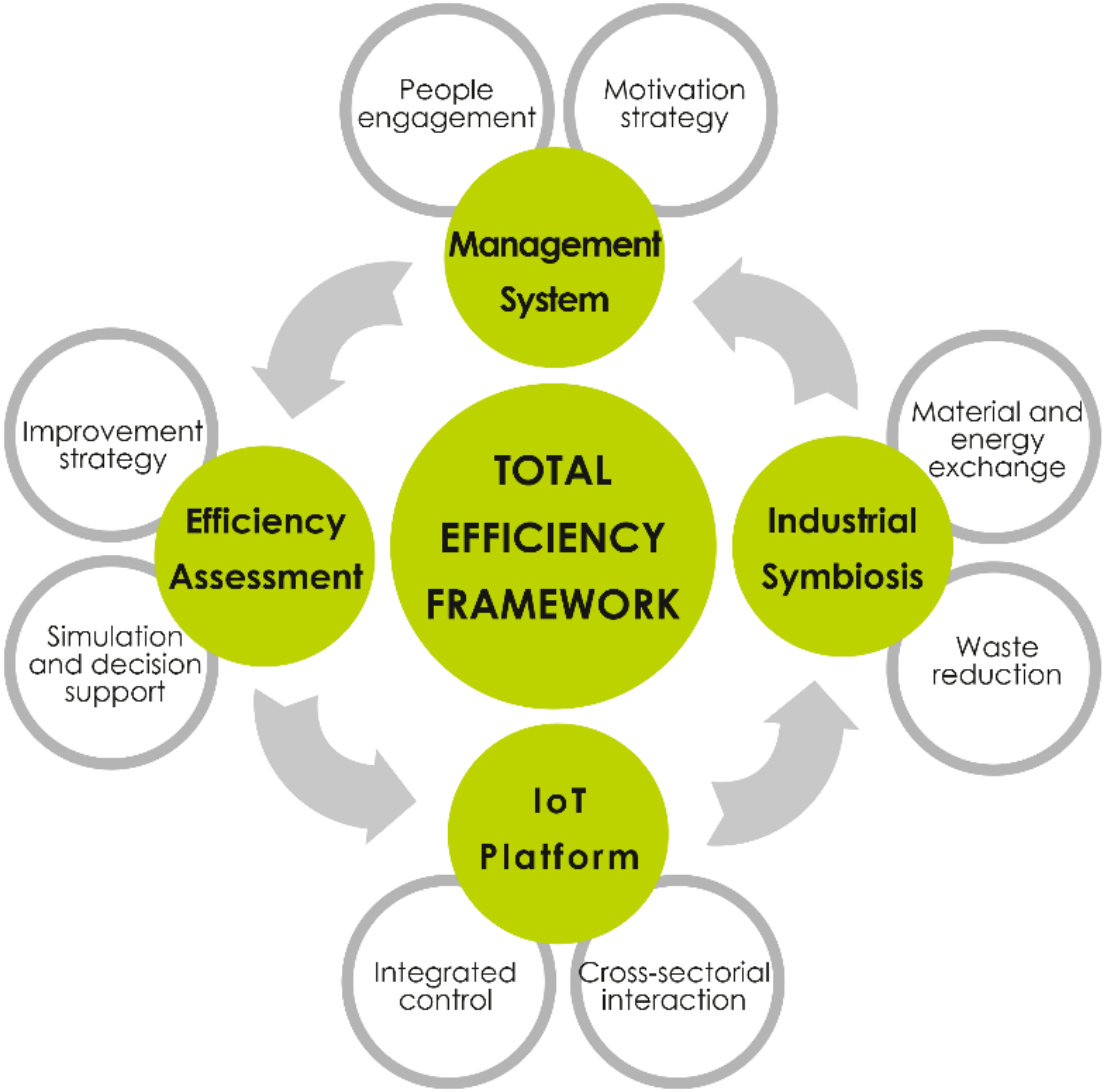
Conceito



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Consórcio

15 parceiros | 5 países

Coordinator

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Consórcio

Framework Developers

System Integrators

Industry

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Parceiros Industriais

- Injecção de Plástico
- Metalomecânica
- Produtor de tintas
- Produtos químicos base

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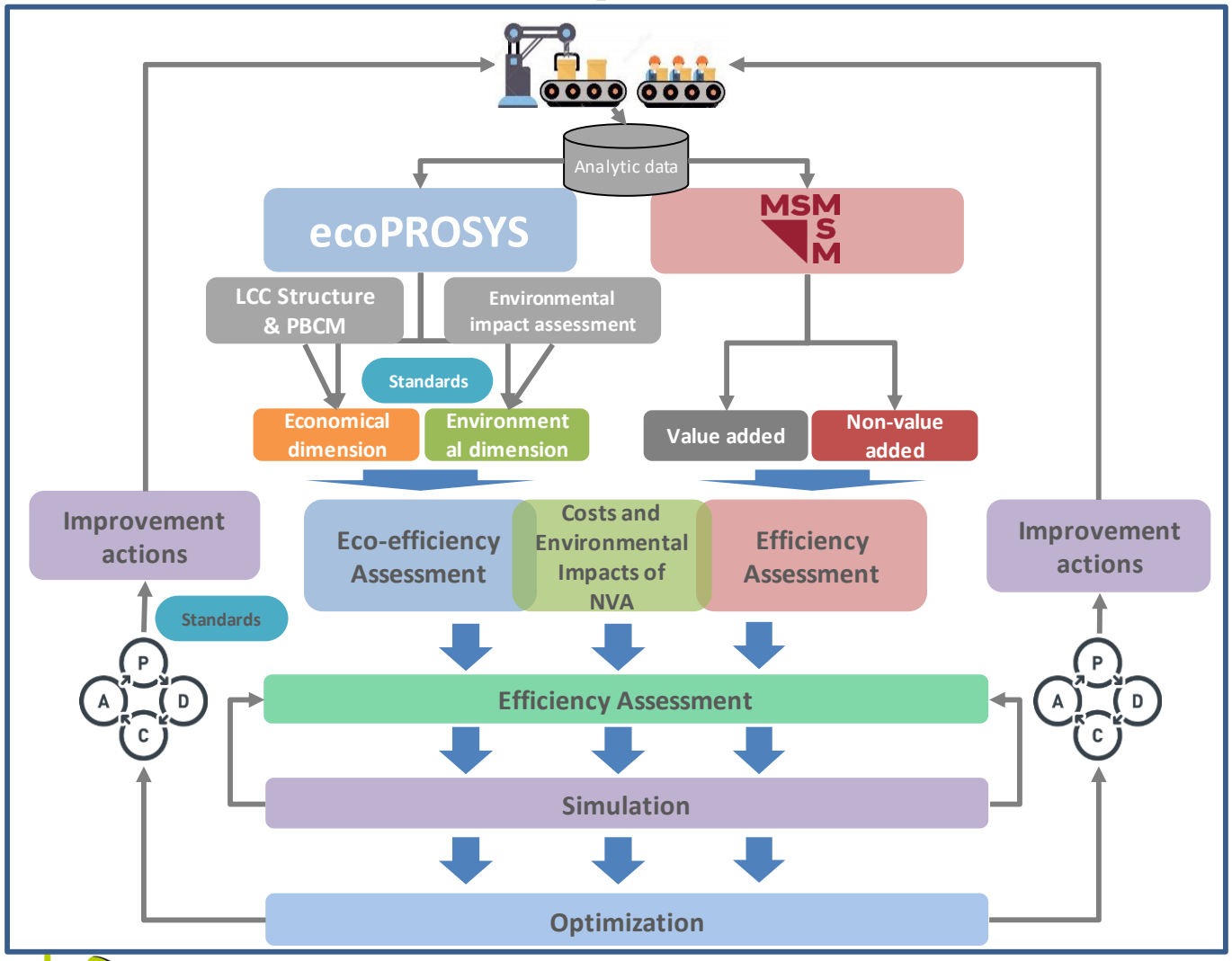
MAESTRI efficiency assessment



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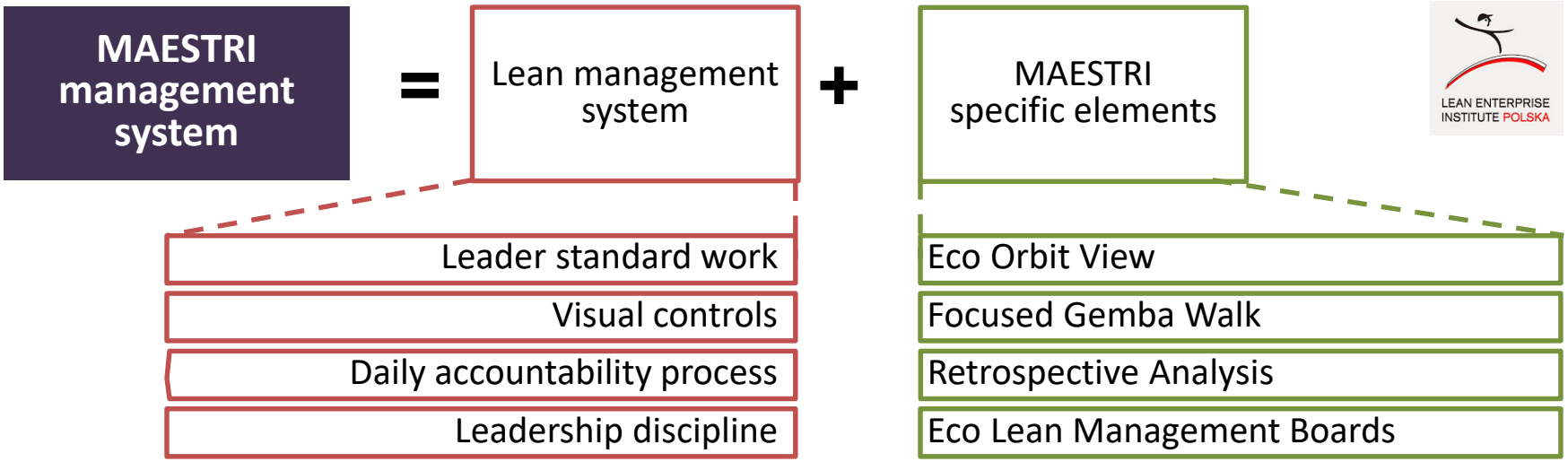
MAESTRI management system



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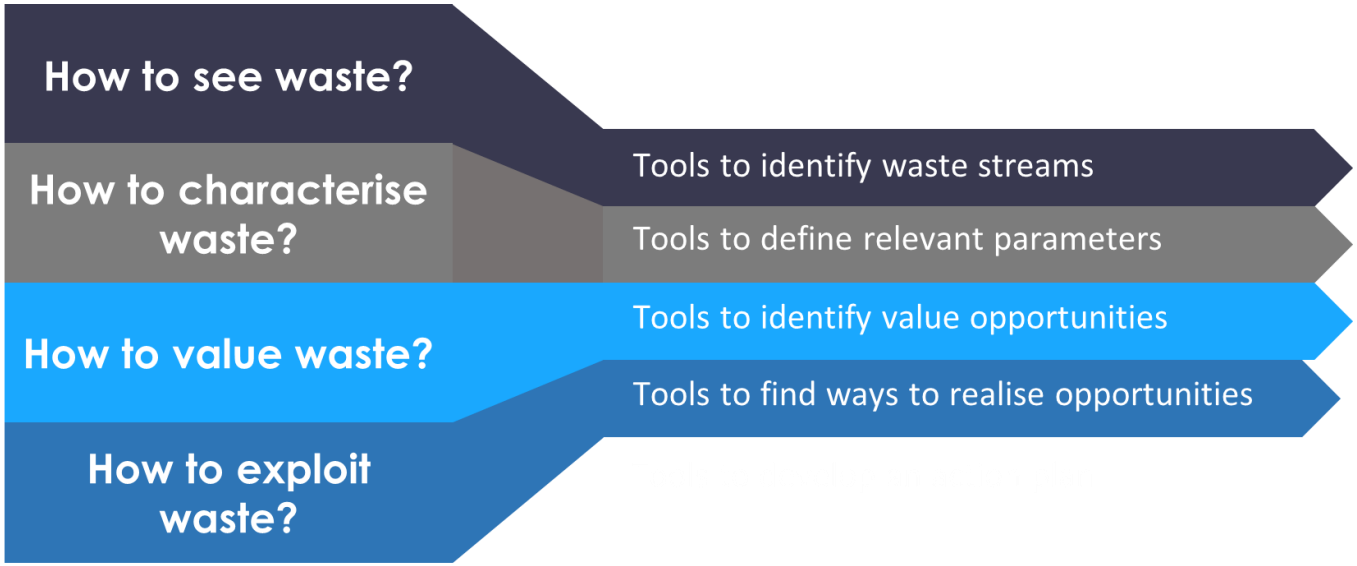
MAESTRI industrial symbiosis



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Build a library of case studies

Collect a set of different case studies of Industrial Symbiosis and made them available through MAESTRI dissemination platforms

Build an open source waste database

Create a database of exchanges, based on findings from the analysis of case studies. This database will inform MAESTRI management system

Develop a toolkit for Industrial Symbiosis

Create, test and refine a set of tools to support Industrial Symbiosis activities, in particular companies could use the toolkit to identify opportunities to obtain higher value from their waste.

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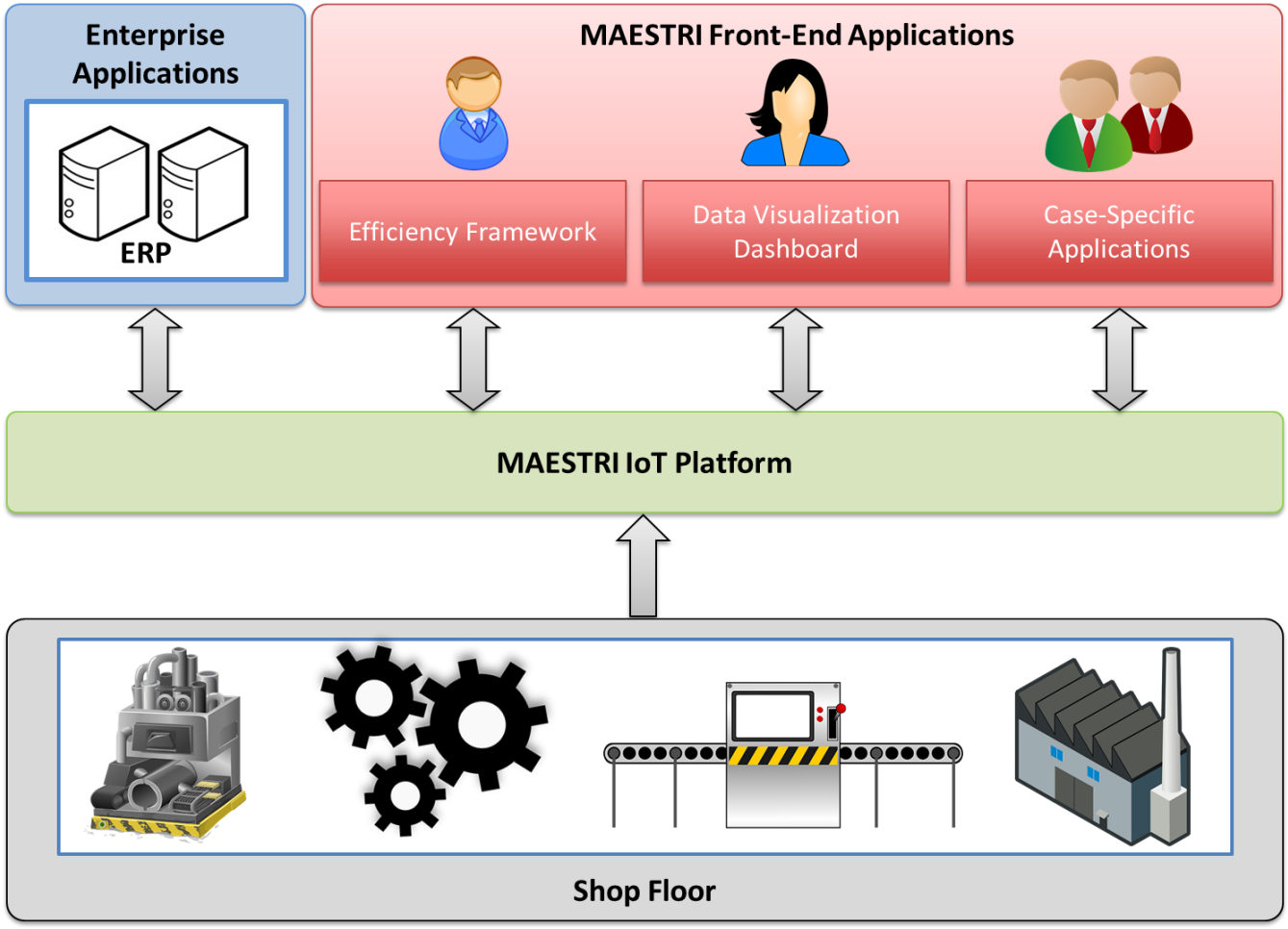
MAESTRI IoT platform



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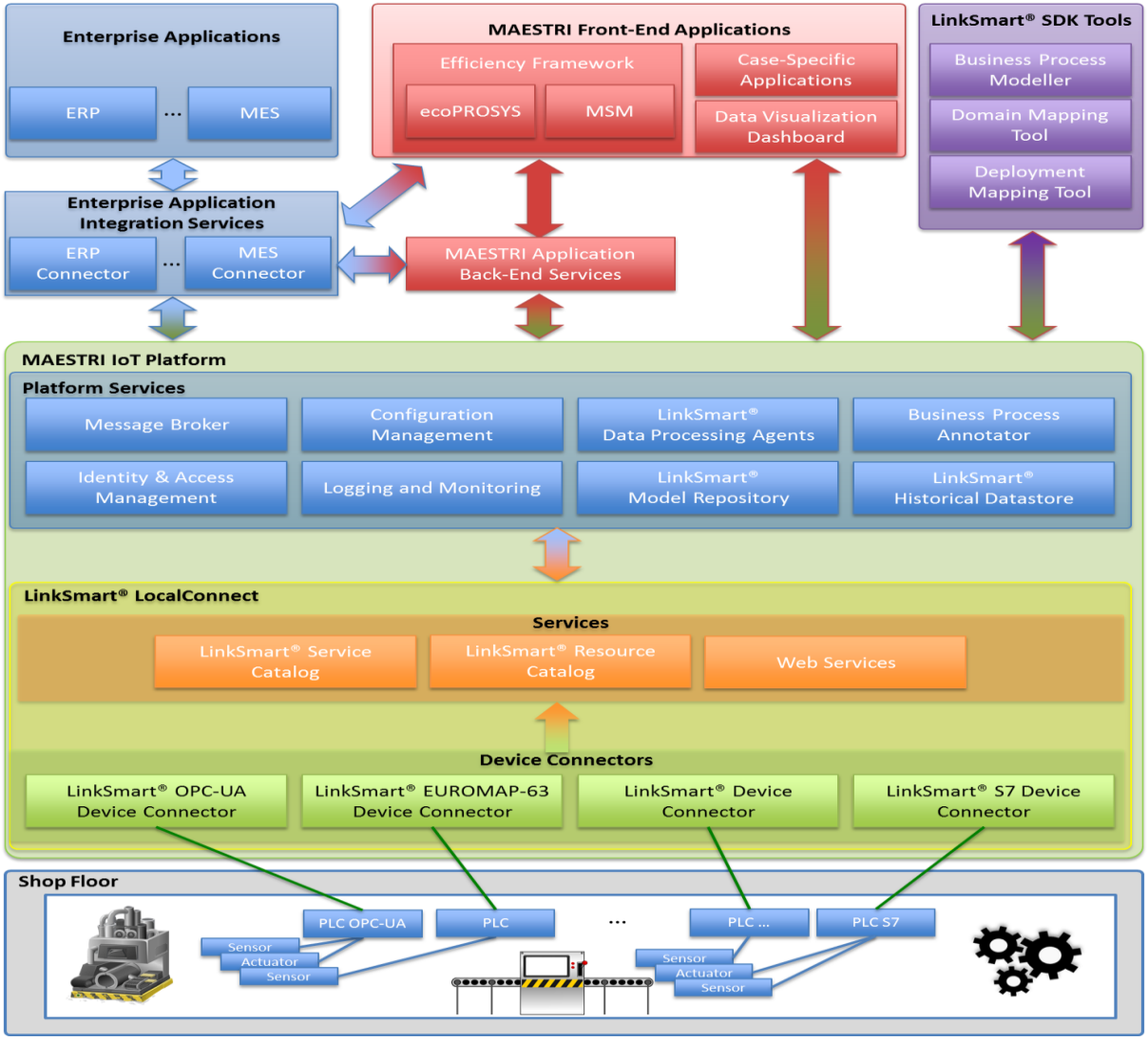

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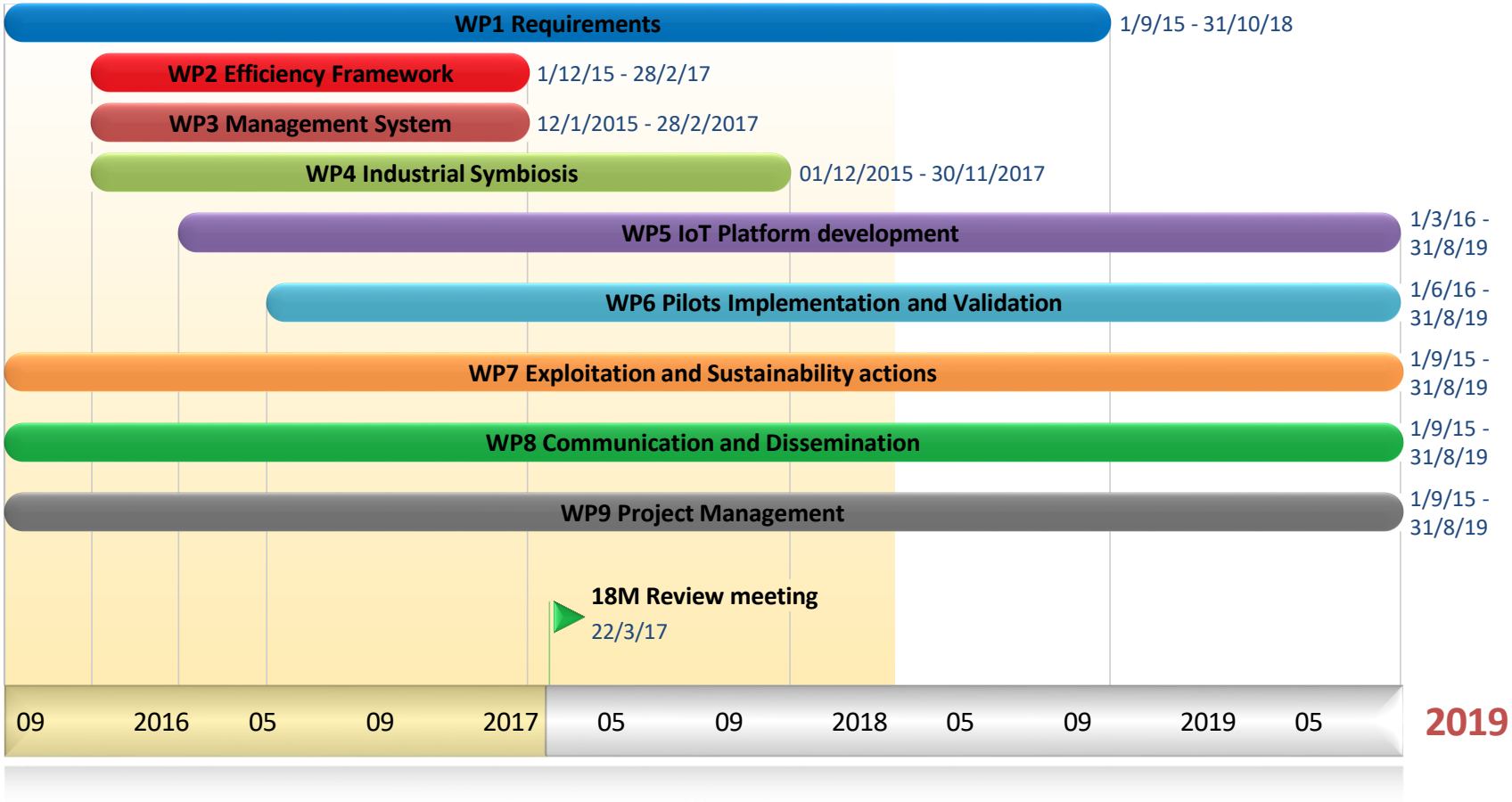
Onde estamos



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Próximos passos

- Concluir a implementação da Plataforma MAESTRI nos 4 Pilotos
- Testar e validar a Plataforma MAESTRI e ferramentas de ecoefiência

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Thank you for your attention

Coordinator

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