

DSS Development: Who we are!

We provide Decision Support Systems & Services based on **Operations Research, Data Science, Advanced Analytics & Artificial Intelligence**



Over 45 talents to make Digital Innovation real



Bologna (IT): Headquarter
Cesena (IT): SW Factory

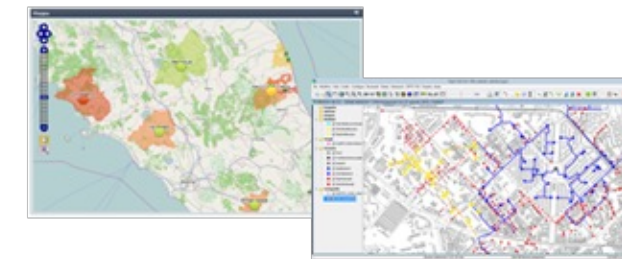
BUSINESS ISSUE

DATA MANAGEMENT

MODELLING, ANALYTICS AND OPTIMIZATION

SOLUTIONS

CONSULTING & SERVICE MANAGEMENT



DSS: Decision Support System

A decision support system (DSS) is an information system that supports business or organizational decision-making activities in complex processes leveraging on data and algorithms

Typical Decision Hierarchy (and sample application)

Strategic

- Retrofitting or Investment Decision / What-if analysis

Long Term

- Quarterly or yearly planning

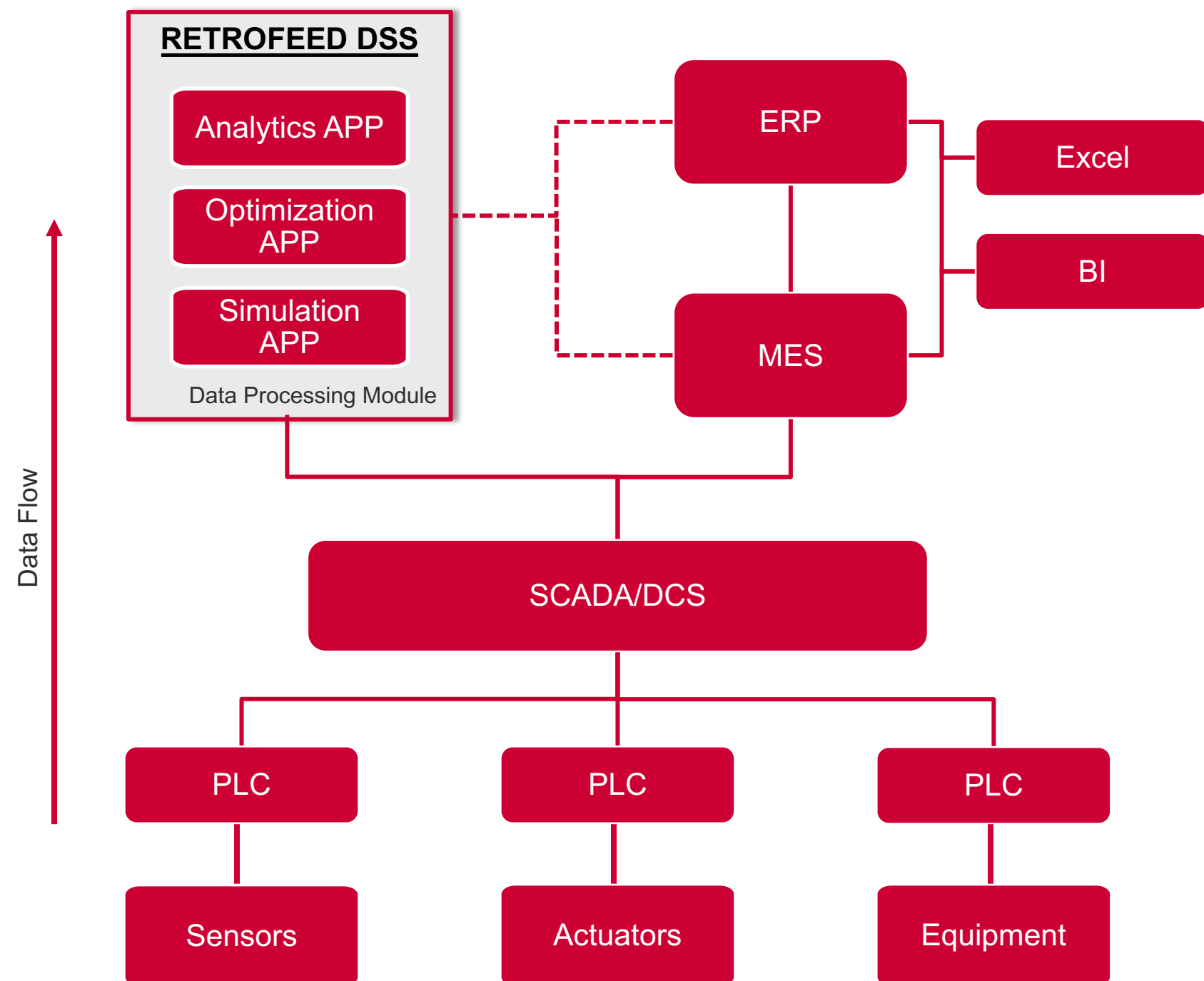
Short Term

- Day or week ahead optimal plan

Operational

- Process Monitoring and Control

The DSS integrated in the IT stack



Level 3/4:

This layer involves actions like scheduling, workload balancing, optimization of production and other processes that help achieve the manufacturing objectives.

Level 2:

In level two, information is used to drive actions that impact the equipment, line and plant performance.

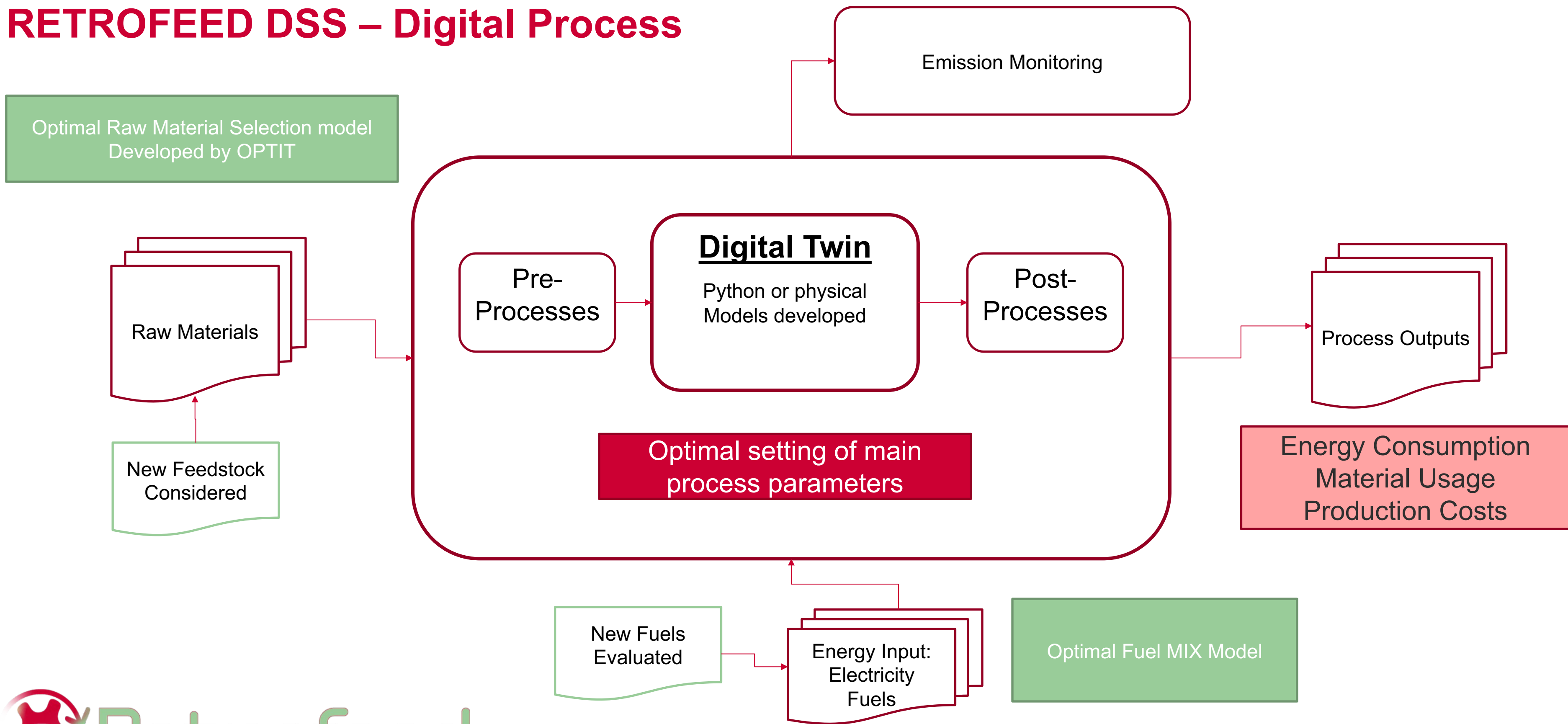
Level 1:

At this level, one can find sensors and intelligent equipment that create or gather data in a manufacturing process

Level 0:

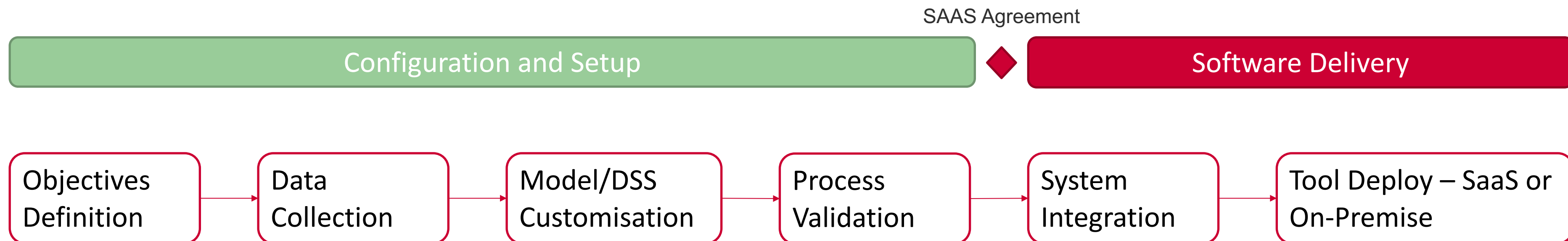
This is where data creation begins and represents the actual production process

RETROFEED DSS – Digital Process



RETROFEED – DSS LIVE DEMO

Replication Business Model and Applications (WIP)



Target Users:

- Planners
- Plant Managers
- Process Engineers
- Energy Managers
- Procurement Department

Possible Applications of a DSS:

- Production Planning in the short, medium and long term
- Production Forecasting and Simulations for sensitivity analysis (e.g. price sensitivity)
- Energy Management
- Logistics Management