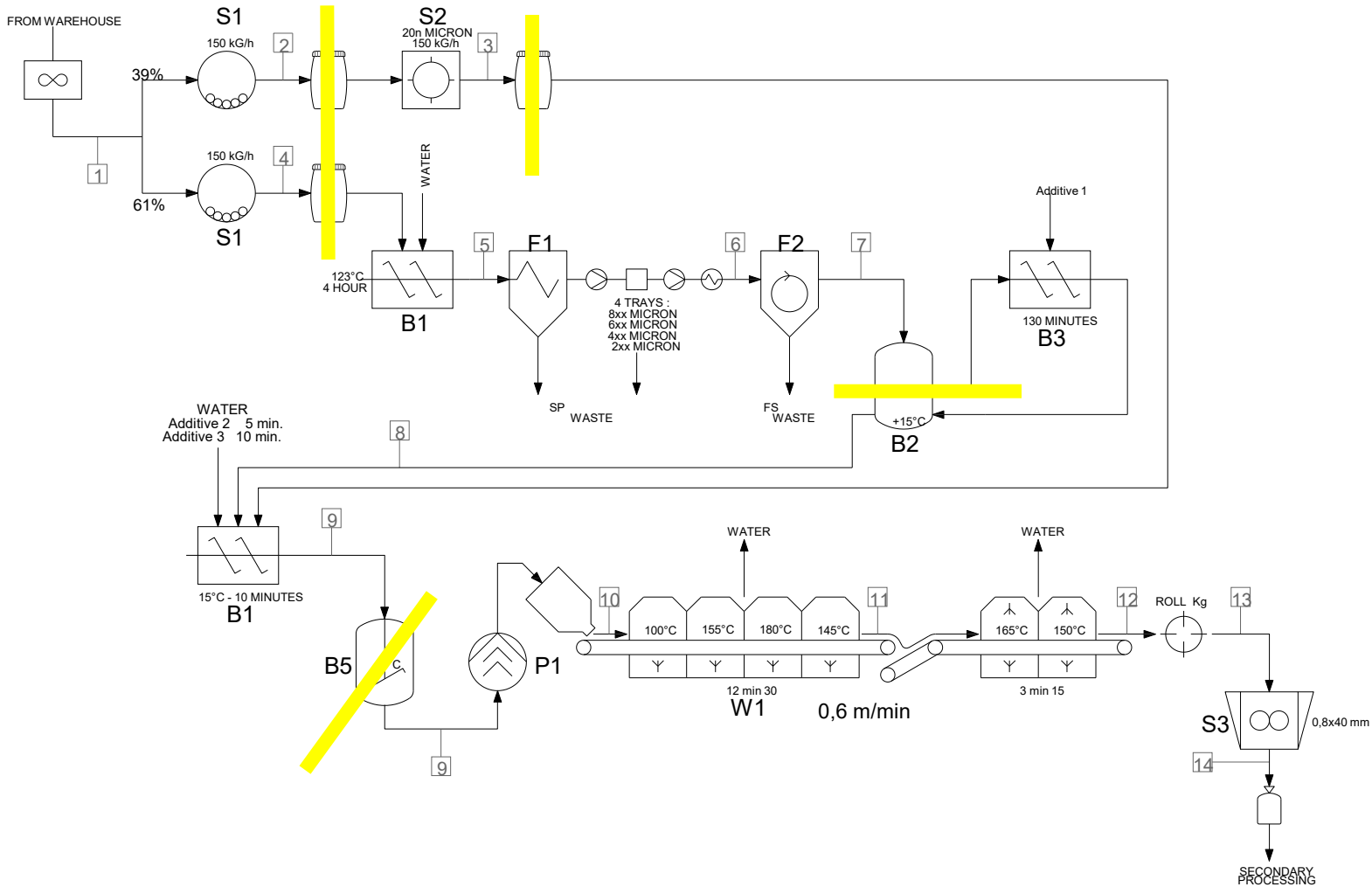




PMI RESEARCH & DEVELOPMENT

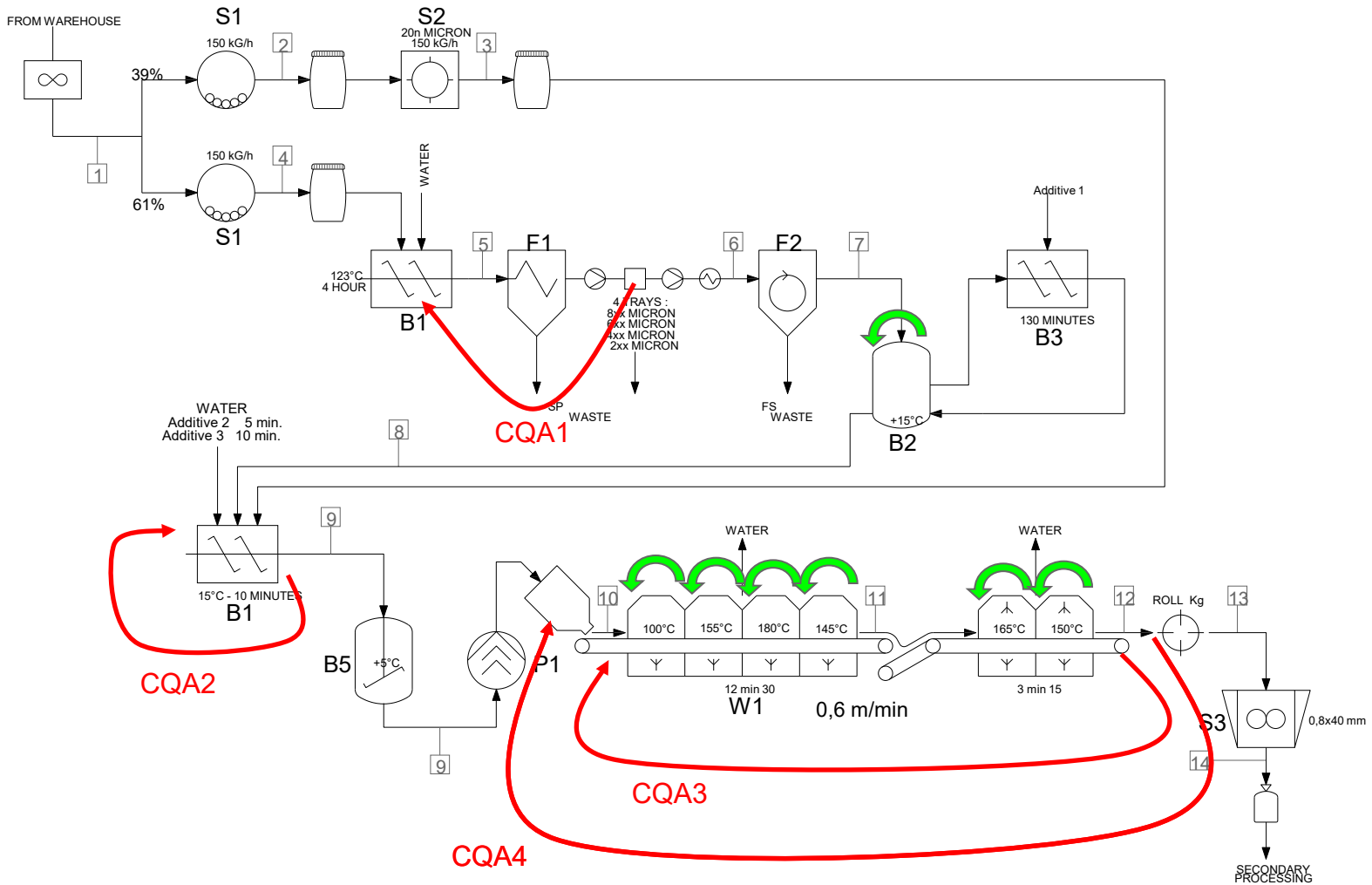
Data Management for PAT, IT infrastructure, MVDA (online/offline, product lifecycle)



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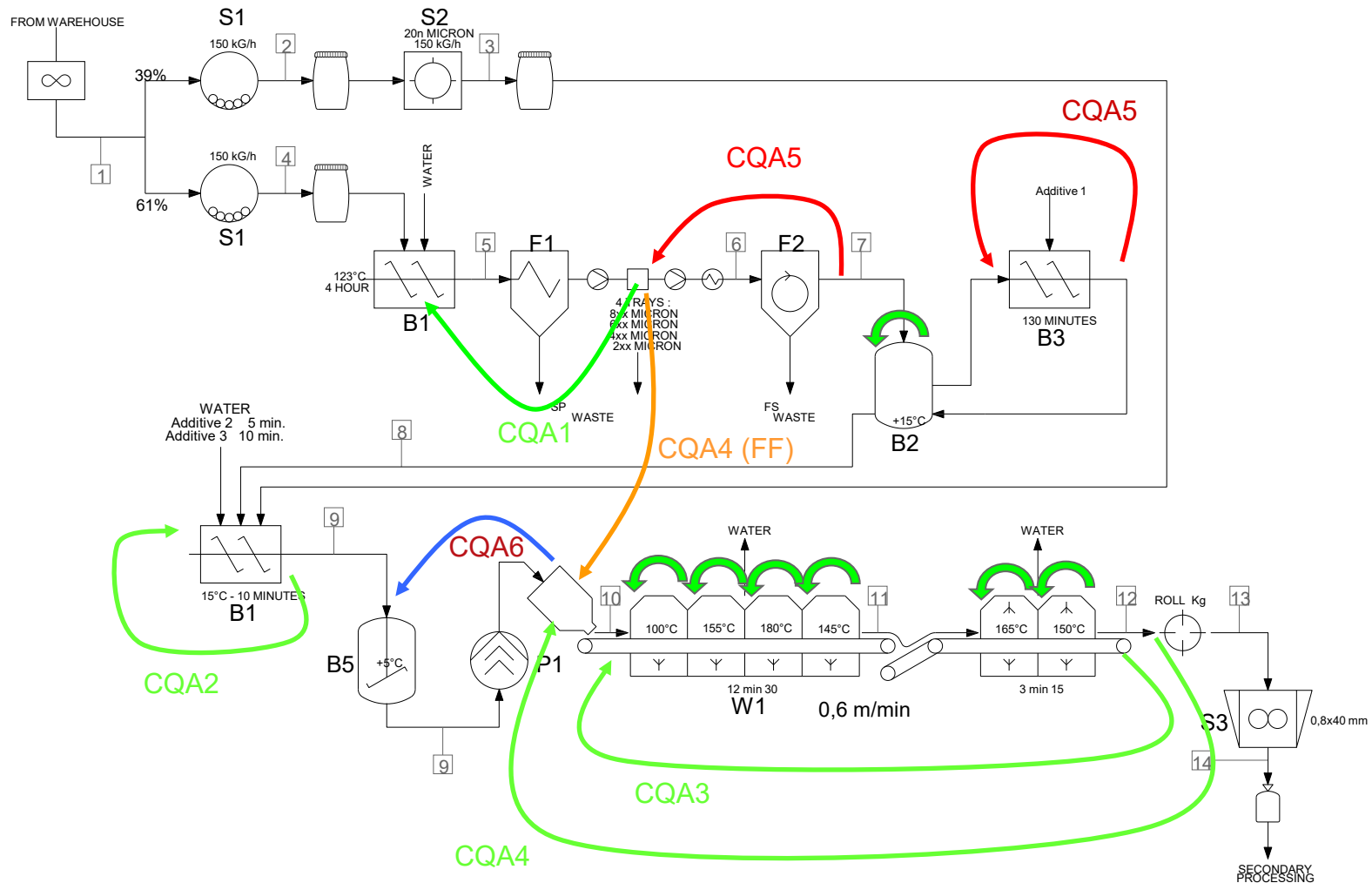


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Data Collection, Processing and Use In-Process



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Data Management – The Key Questions

1. How much data do we collect from the process ?

(Sampling Strategy ?, Process Speed ?, Control Requirements?, Instrument Limitations?)

2. At what speed do we process the data ?

(Real-Time?, In-Process?, Off-Line? What is 'real-time' for the process? How complex is the processing?)

3. What data do we store ?

(Raw?, Reference?, Intermediate?, CQA?, Batch?, Historical?)

4. How long do we keep the data ?

(End of Batch?, Rolling pre-defined period?, 10 years?, After product removed from market?, ...)