



WP7 : Supervision

Supervision of an aerobic SBR

LBE-INRA, France & UNAM, Mexico



Objectives

- To develop a knowledge-based high level decision support system that integrates all available information sources and decides – on-line – whether or not the process is working properly. In other terms, the actual decision to be taken is the answer to the subsequent question : "Is a given element (and by extension the whole process) qualified for the task it has been designed for?". The situation is said "normal" as long as the answer to this question is "yes" and "abnormal" (with a relative degree) otherwise.
- To develop and test the new sludge level monitoring strategy in order to improve the global operation of the SBR.



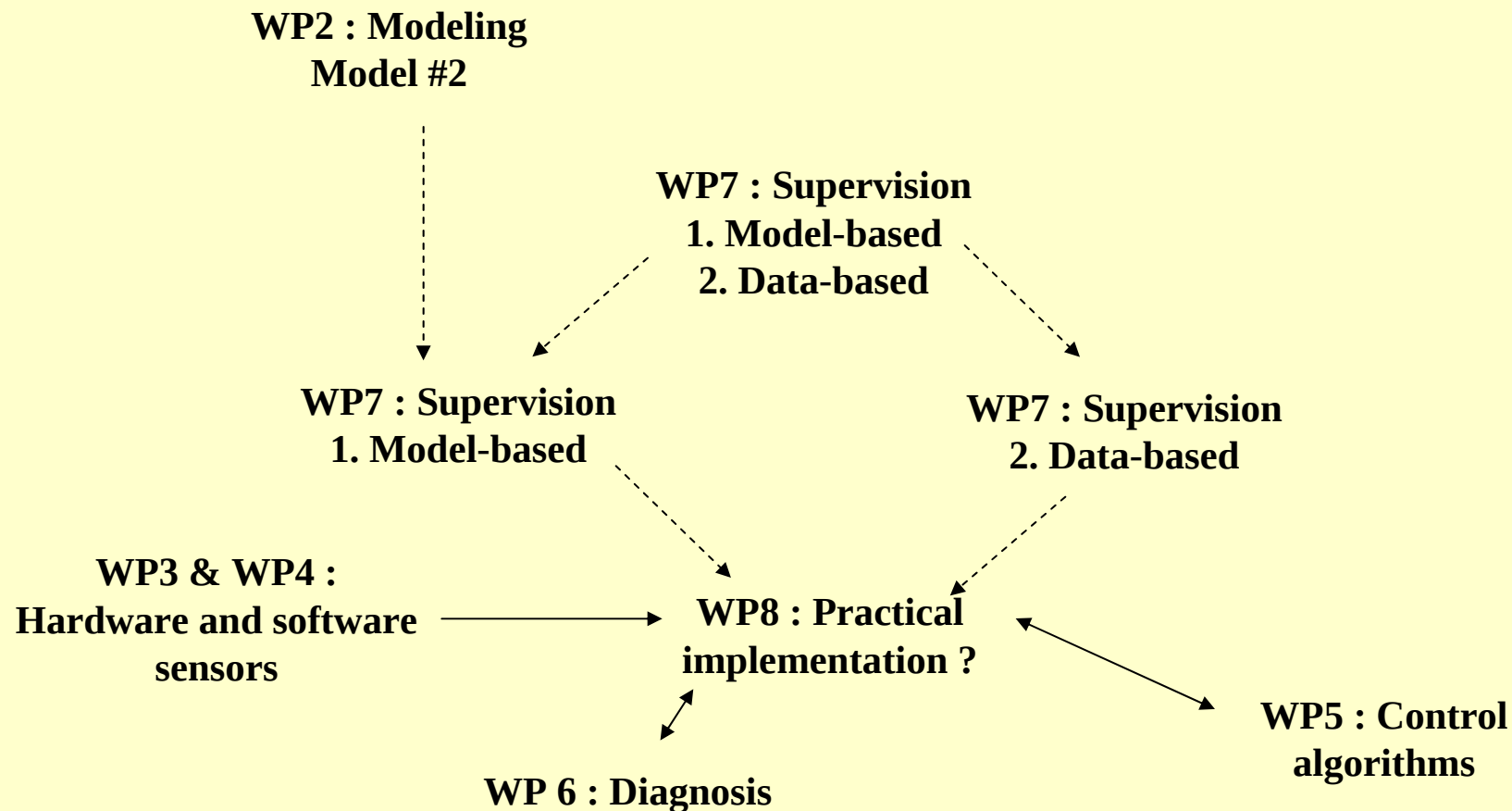
Workplan

- 7.1 : Specifications
- 7.2 : System design
- 7.3 : System integration
- 7.4 : System validation

Deliverables

- D7.1: Definition of the SUS architecture (about to be delivered)
- D7.2: Software platform (partially delivered, to be integrated with SPES (??))
- D7.3: Knowledge based system able to classify faults (partially delivered, to be extended to the POLIMI plant (next year), to be extended to the SLM (next 6 months), to be integrated with SPES (??))
- D7.4: Report on the evaluation and validation of the system (partially reported in the mid-term report (monitoring of the liquid erobic phase), activity of next year)
- D7.5: Technical documentation (to be done)

WP interactions





Future activities within WP7 : close connections with WP8...

Workplan

- Extension of the supervision system to the sludge monitoring,
- Integration of the system (WP8),
- Evaluation of the system,
- Validation of the system.

Questions

- Implementation (hardware and software ?) of the SPES system : when and how ?



*“Grazie mille”
for your attention*

Francesco Ciappelloni