More efficient maintenance

From plant design & engineering over commissioning to maintenance: keep your documentation consistent





Plant Design & Engineering

In the engineering phase, a digital twin is created of every asset, even before the physical asset is produced. Engineering documents, like spec sheets, manuals, etc... are linked to the corresponding digital twin. In this way, a document trail is started which can be used in all further phases of the project.

All digital twins are subsequently stored together in a central cloud-based library, easily accessible and always up-to-date, and will eventually be connected to their corresponding "physical" counterparts. This centralization of all relevant documentation avoids a continuous transfer of incomplete or even incorrect information, as the project develops through it's phases.

key questions

- What is the purpose of the process you are designing? Why do you design it in the way that you do?
- What is the exact role of each of the assets in your process?

 Instrumentation assets should primarily measure, of course... but what other data can they provide?
- Which assets in the process are critical for your production process and for your success? There are multiple considerations: production, quality, safety, environmental....
- How do you balance between production, quality, safety and maintenance?
- How will you monitor the performance of your processes and assets?
- How will you maintain the health, the fitness of your processes and assets?
- And how will you prove the "fitness for purpose" of your assets?
- How wil you be tracing and documenting this?
- What should be done when you have a non-conformity? And how will you handle audits?
- How will you organize your staffand their work-instructions? What about the knowledge level of your technical staff?
- How will you organize and manage spare parts on a continuous basis?
- How do you avoid unforeseen downtime?



Agile commissioning... and smart hand-over of project documentation

By applying a smart, agile commissioning workprocess, supported by a universal mobile maintenance tool, you easily access and use the information generated during engineering. In this way, you achieve significant time savings and risk reductions because the right decisions were made during engineering and are – well-documented and easily – available to you. This results in up to 30% shorter commissioning times compared to a conventional approach.

A faster time-to-production means a faster time-to-market and earlier revenues!

During commissioning, the document trail of each of the assets is enriched with parameter setting reports, verification and loop-test reports, etc... as they are being generated on-site! All this information is immediately and in an online fashion, automatically attached to the digital twin of each and every asset. In this way, you achieve a smart & clean hand-over of project documentation to the Maintenace and Asset Management teams.

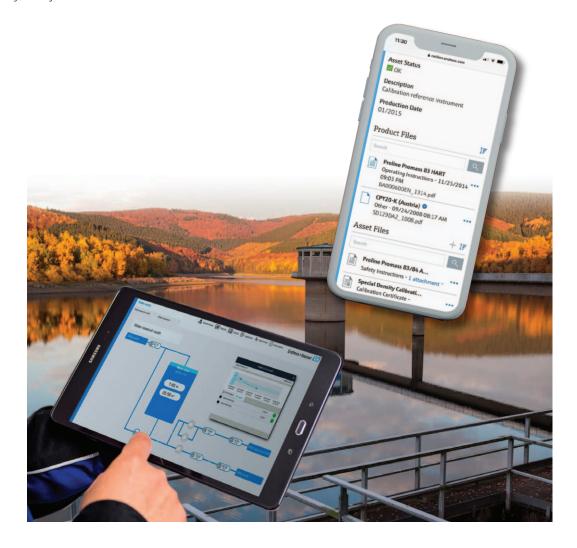


Optimized and Efficient Maintenance

Even performant condition-based maintenance strategies, will evolve by integrating easily and fast-connected remote support techniques, into predictive reliability.



Continuous **improvement of maintenance workprocesses** and **optimization of calibrations and their intervals**, reduce your maintenance costs and workload. It also mitigates your risks, and you are "**audit-ready**", 24 hours a day, 7 days a week!



Solution



Digitize documentation to ease workflows



Reduce unplanned shutdowns with health monitoring



Increase availability with asset transparency



Digitalization Journey

The following digitalization journey shows how we can accompany a customer on his journey into digitalization, support him with innovative solutions to gain efficiency and thus, thanks to **Netilion**, become a significant building block In his digitalization strategy.

