

Whitepaper

Achieving Consistent Digitalisation in Plant Engineering

*Significantly reduce expenditure with
visual site management*

Content

Abstract	3
1. Introduction	4
2. Data continuity instead of digital gaps	5
2.1 Change calls for renewal	
2.2 Media interruptions caused by digital gaps	
2.3 Data silos impede digital value chains	
2.4 Failure to use existing solutions	
2.5 Aligned process management as an engine of digitalisation	
3. Software for integrated process digitalisation	9
3.1 Cross-phase solution	
3.2 Intuitive visualisation of realistic conditions	
3.3 In the picture with smart objects	
3.4 Standardised communication despite “different” languages	
3.5 Complexity reduction through roles, rights and views	
3.6 Retain software autonomy	
3.7 Identify and realise savings potential	
3.8 Return on Investment	
4. Running a project with COMAN	12
4.1 Pilot phase for familiarising new customers	
4.2 Straightforward onboarding	
4.3 Direct system comparison for decision-making	
5. Convinced users	14
6. Conclusion	15





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Welcome,

Our perennial topic of site management is especially important in times of upheaval and disruption, as these lead to things being re-built or adapted—and for us experts in construction, that means machines, plants or whole production lines. Whether you represent an OEM, have a role within the supply chain, or regard the automotive industry from a totally different perspective, we can sharpen your view on the future and deliver you food for thought! For us, construction site management means just that: connecting all project participants on one platform, regardless of their methods or "languages". We bring stability to client-contractor collaboration.

Therefore, we focus on closing the digital gap between planning and SOP. Its during this phase, characterised by monitoring and control, that those responsible must both correct possible planning errors and then ensure their elimination in future production. Not so easy when the sources of error are caused by the accumulation of outdated processes: redundant data, inaccuracies in manual maintenance, lack of cross-system compatibilities and many more.

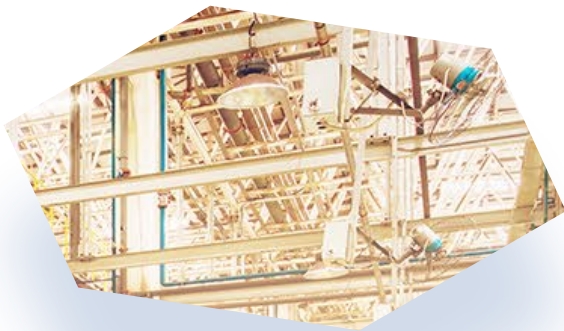
Our unrivalled modelling approach, practically proven in plant engineering worldwide, allows us to resolve the many different challenges within one single system. Thanks to the developmental help of well-known partners, we have a thorough understanding of common construction problems and their causes, allowing us to develop and combine effective solutions. Our experience shows there will never be a magic formula for totally trouble-free operations, but with COMAN we believe you will get closer than with any other provider on the market.

Now, read on and see for yourself in our short whitepaper why leading automobile manufacturers chose our solution to minimise the effect of delays, cost overruns and other on-site headaches.



1. Introduction

Despite the high-tech character of the sector, project implementation in automotive plant engineering is still a mixture of analogue and digital. This mismatch is preventing consistent and fully integrated digitalisation. Data is easily lost or changed; time and resources are wasted. Intelligent process management software solutions that close the digital gaps thus offer major potential for efficiency improvements.



This topic is gaining in importance particularly in times of the COVID-19 crisis, which is forcing car-makers to make additional savings. This is especially so as OEMs face unprecedented challenges to drastically reduce the emissions of their ICE models, while simultaneously expanding driveline electrification across the board.

The existing software solutions for process optimisation have one thing in common – they are standalone solutions, also known in the software sector as data silos. They are unable to integrate redundant information from discretely operating systems into a homogeneous data mass that can be processed as one. Added to this absence of data continuity is the fact that many project participants only have analogue means for using digital data when on site.

This leaves two clear requirements for achieving fully integrated digitalisation: the need for a data hub for networking the information from the data silos as well as the digital partnership of the implementation phases from procurement to build, commissioning, ramp up and start-of-production. This kind of umbrella solution must also be capable of synchronizing widely used planning software and engineering tools as well as automating progress and defect tracking.

A process management tool that fulfils these criteria is already available. A digital solution developed on the initiative of several OEMs and innovation leaders in plant engineering visualises for the first time the entire process chain from procurement to build to start-of-production in real time through the use and graphic representation of Smart Objects. The application has now proved itself in well over 400 large projects. This innovative umbrella solution helps save up to 75 percent of internal outlay in project implementation.

