

COMAN SOFTWARE

# DIGITAL PROJECT CONTROL FOR INDUSTRY 4.0

Get to know the vision of COMAN



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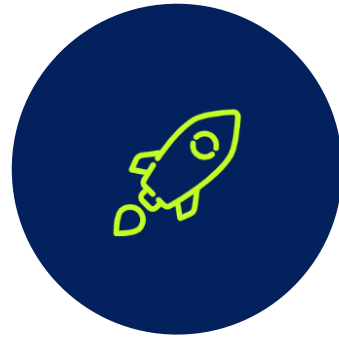
# Coman at a glance



Founded in 2018 as 'spin-off' from inpro GmbH a VW, Siemens and SABIC Joint Venture and "think-tank" for digital innovations



Most used software solution for project management in Automotive plant engineering industry in Europe



Our Software is based on highly innovative features



Blue chip clients like VW, Daimler, Porsche, BMW trust us with long term contracts



Proof of concept in various industries that also like to use COMAN

# Our Origin

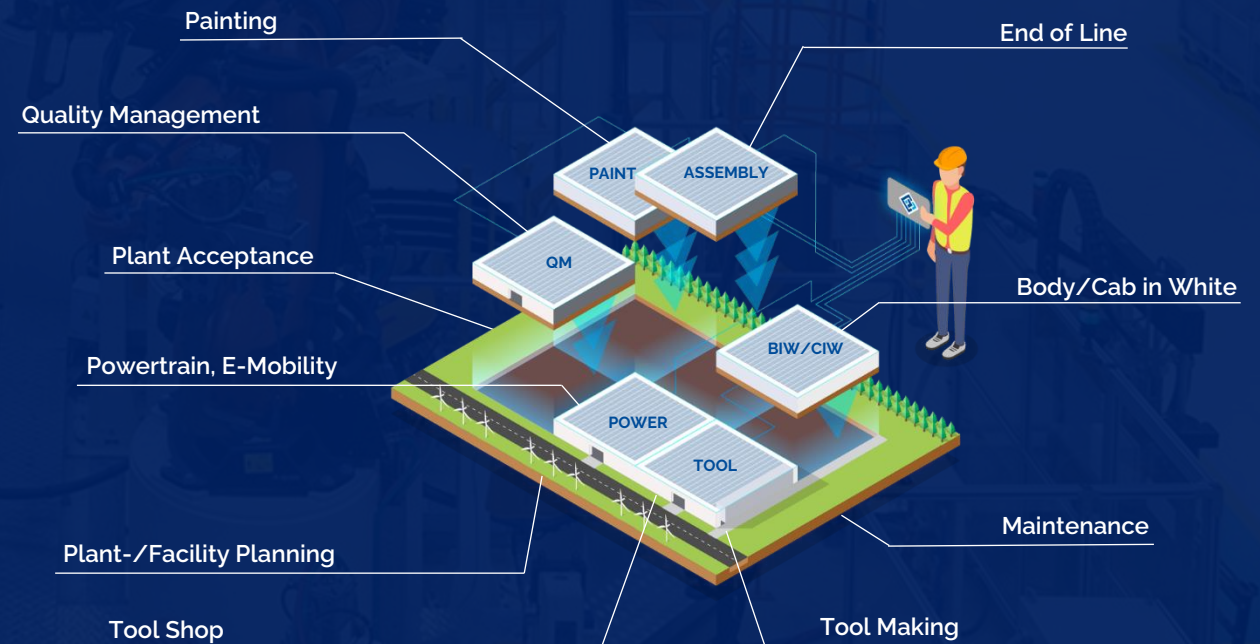
COMAN was originally developed for automotive plant engineering. Particularly **in the context of e-mobility**, production lines and entire plants are being rebuilt on a large scale or completely **new factories** are set up, for example for battery production.

But not only in automotive industry there are mega-projects which can be executed and **managed more successfully**.

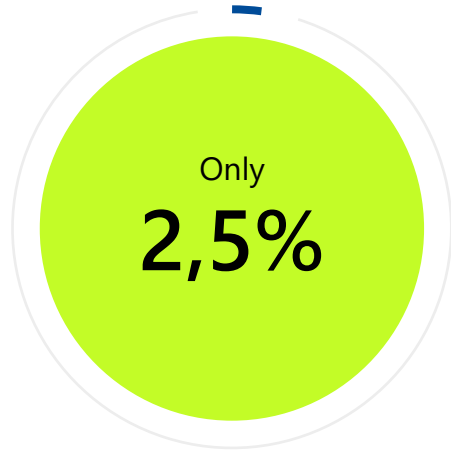
The large-scale plant construction in the process or energy industry, manufacturing industry, machine and special machine construction and many more.

All of these industries face **common** challenges...

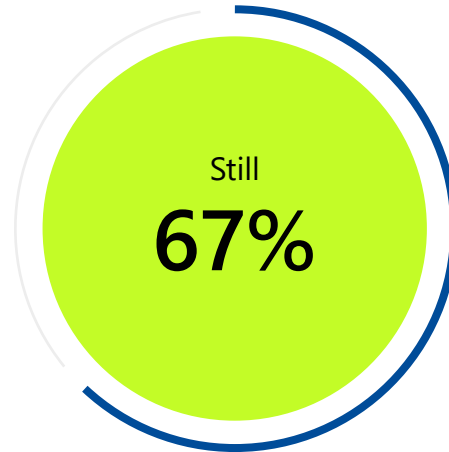
## Areas of application for COMAN in the automotive industry



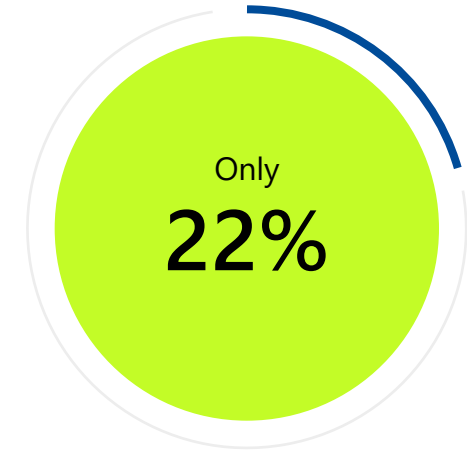
# Status Quo – Project management



of organizations complete their projects 100% successfully.  
Top causes: No proper planning, monitoring & control\*\*



of organizations use spreadsheets to manage projects\*\*



of organizations use a PM software. No appropriate project management software is key to failed projects\*

The project participants of all industries have **three main problems** in common...

\* PwC study of over 10,640 projects // <https://www.pwc.com/jg/en/publications/need-presentation-project-management.pdf> // <https://www.workamajig.com/blog/project-management-statistics>

\*\* Source: team Gantt - "Seven Shocking Project Management Statistics and Lessons we should learn"

In the management of large industrial projects there are **three** main problems.

## Problem No. 1

### Size Matters

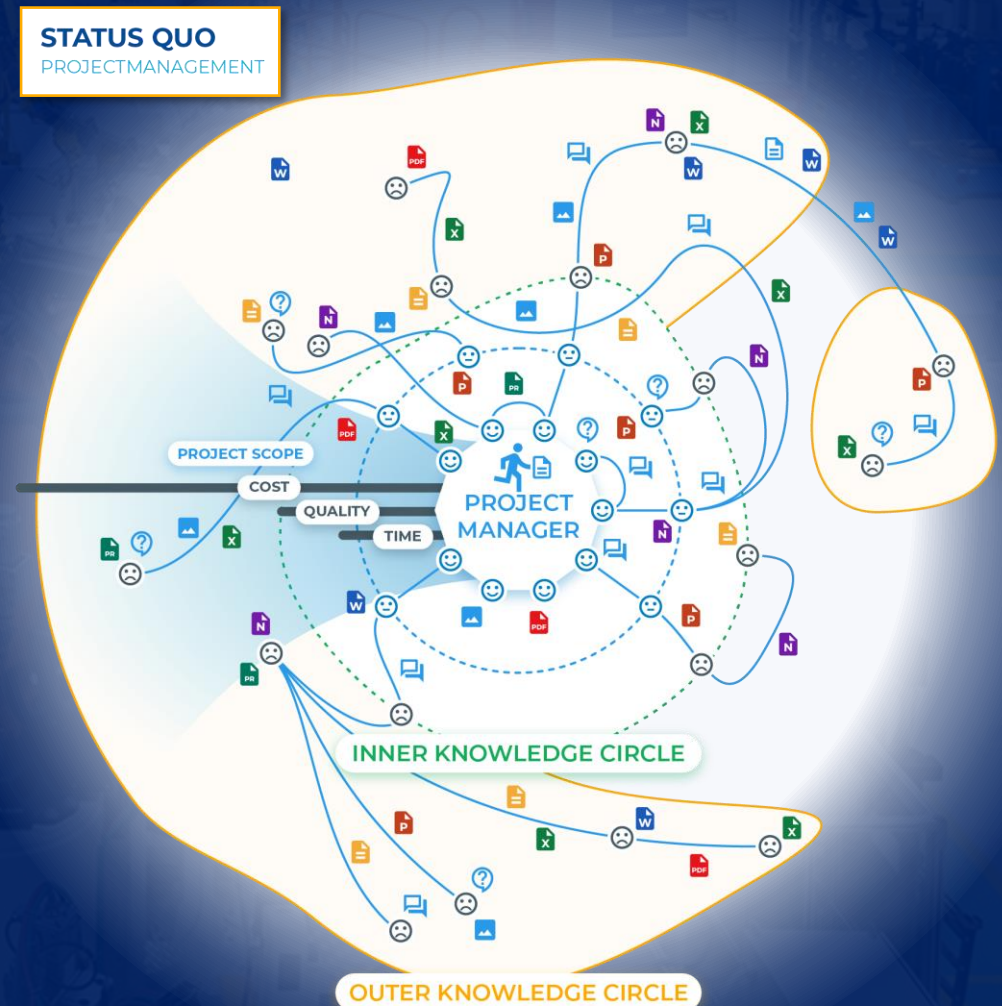
A large number of team members and the use of various PM tools increases the disconnect between the project manager and the team.

#### First:

The more **different** participants and systems we have, the more unmanageable the project becomes.

And we are talking here about the re-building of a production line in which up to **300** suppliers can be involved.

**Each of them** with their own systems, file formats and employees who may even have to be coordinated on site.



In the management of large industrial projects there are **three** main problems.

## Problem No. 2

### Walking the Tightrope

Existing project management solutions are not able to accurately map dependencies of costs, quality, time and target achievement.

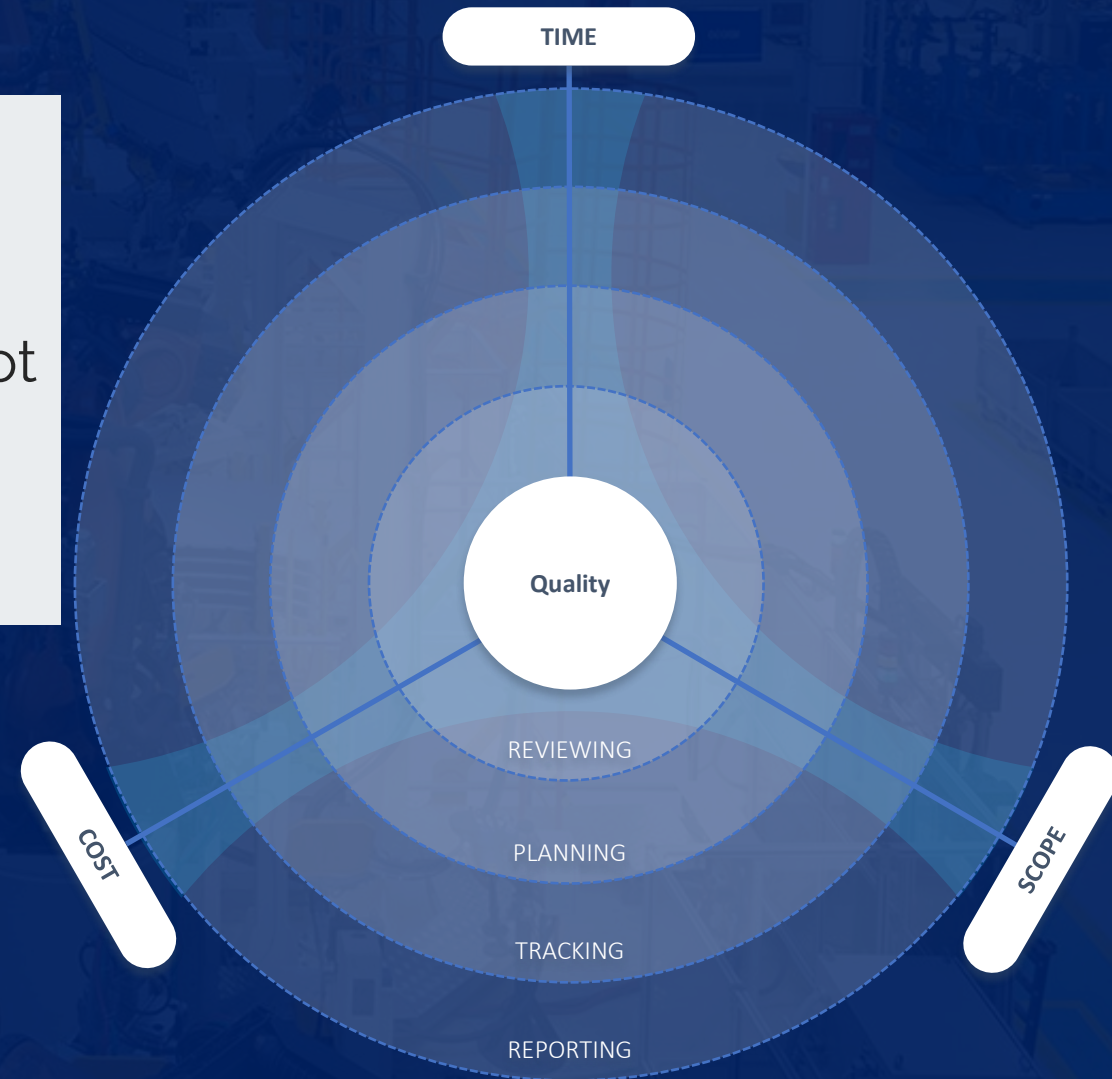
#### Second:

There is currently **no single** project management tool that is able to sufficiently cover **all four dimensions**.

There are defect ticket apps, scheduling tools, digital job site diaries, virtual checklists, and many more.

That's a **massive** number of tools for a project managers to handle to keep track of their project.

**...and it's getting more and more!**



In the management of large industrial projects there are **three** main problems.

## Problem No. 3

### Action Delay

Current existing solutions do not provide real-time visibility and process progress tracking.



#### Third:

A problem identified on the job site **today** usually finds its way into the management report **days later**.

By the time a project or plant manager hears of the problem, the report is already **out of date**.

Decisions are often made based on **outdated data** - even though a supply bottleneck or shortage could have been identified **long before**.

The carmakers **Volkswagen** and **Daimler** as well as the plant manufacturers **Siemens** and **Thyssenkrupp** approached us with these three problems in 2011.

# The COMAN Story

1

## Central Data Hub

All data converge in **one** central system and are automatically synchronized in other tools.

2

## Visual PM

Visual project management enables the rapid capture of extensive data **within seconds**.

3

## Crowd Tracking

Data must be digitally collected where they **originate** and are aggregated together.

4

## Level of Detail

A central data hub enables a holistic project overview **top-down** or **bottom-up**.

So, what we did was:

1. We created a central data hub that pulls together project data from all previously used systems - **but can also export it back again**.

The mass of data was **no longer manageable** with conventional, table-based programs.

2. That's why we created a visual interface - here, the project manager needs only **one second** to grasp the **entire** project status.

3. With our app, the technician, a supplier or quality manager **on site** can document progress, record defects, fill out digital checklists and much more.

4. Finally, we created a **dashboard** that allows top managers to view the **entire project scope** in a summarized manner without much detailed knowledge.

The result is...





# Absolute Transparency and Control

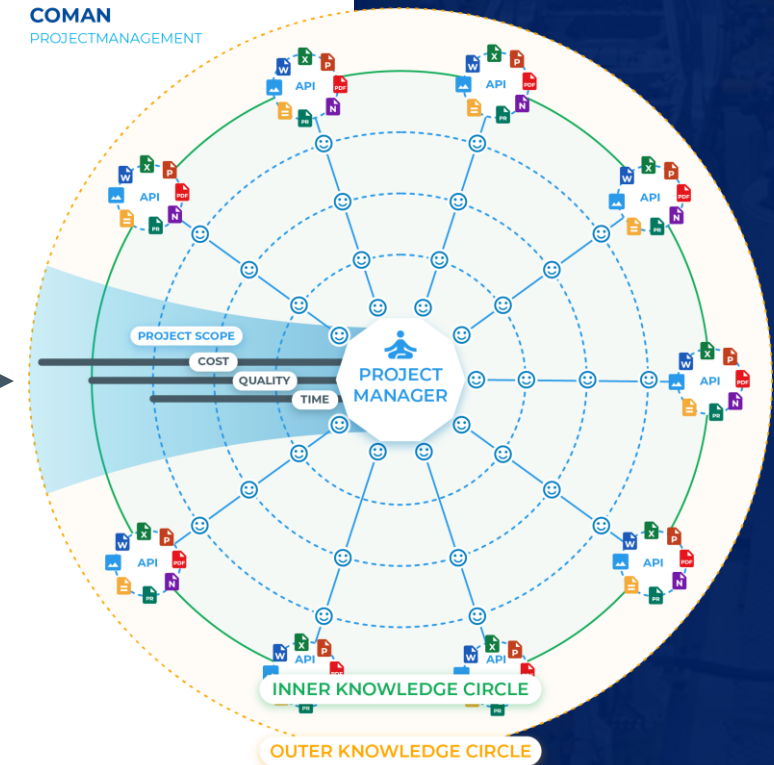
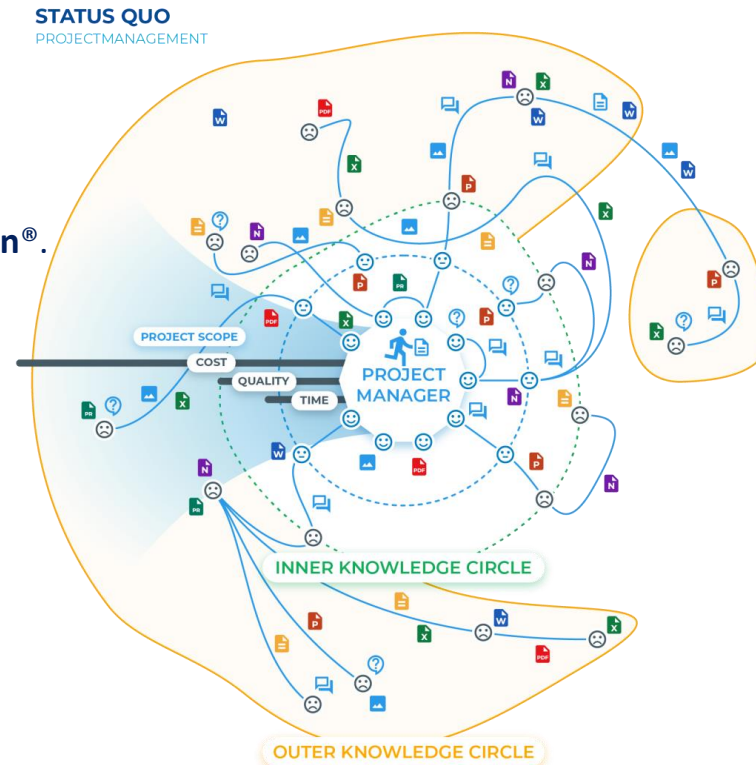
All project participants work with the **same level of information**, but only see those topics that are relevant to **their own activities**.

**Changes** on site or in the planning and scheduling **flow directly into the system**, viewable by everyone.

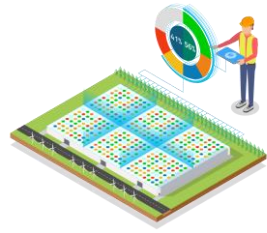
The project manager knows what's going on **every day** and can compare progress with the target **in real time**.

We have created a **Digital Project Twin®**. Digital twins form the **basis** for digitization in production.

**Now the exciting question:**  
What is the outcome of all this?



# 61%



Up to **61% cost savings** in **project management spendings**.

This means that we make **all project control, administrative spendings, reporting** and other areas by over 60 percent **more efficient**.

...and those are just the **direct savings**.

We digitize and centralize **project data collection**,...

...shorten **meeting times**,

...simplify **project monitoring**,

...and bring all internal and external **project participants** on the same level.

The actual amount of savings depends of course **on the project**.

In the German automotive industry, for example, the average amount saved **per project** is **300.000 EUR**.

## Tracking



No more multiple and manual data capturing.  
Isolated tools get connected.

### 69%

Suppliers and teams can report their tasks and milestones directly on-site via mobile app.

## Analyze



A SPoT is the central point about digitizing maintenance and assembly. With it, you can do real-time progress comparisons. With just one click...

### 90%

...you can export reportings to any topic or area. Collecting and preparing data entirely disappears.

## Communication



Faster status meetings and trouble shootings.  
All issues, bottlenecks and Open Points can be filtered within seconds...

### 72%

...and be discussed according to their priority.

## Collaboration



All project participants work in one system or are connected via APIs.

### 40%

Communication becomes easier or entirely unnecessary, misunderstandings and waiting time gets reduced.

# Indirect benefits

1

## Worldwide Standards

The **same** project processes, reports, checklists and tools exist worldwide.

2

## More Quality

The number of **open points** till Start-of-Production decreases significantly. The lines go into operation with a higher **product quality**.

3

## Shorter Downtimes

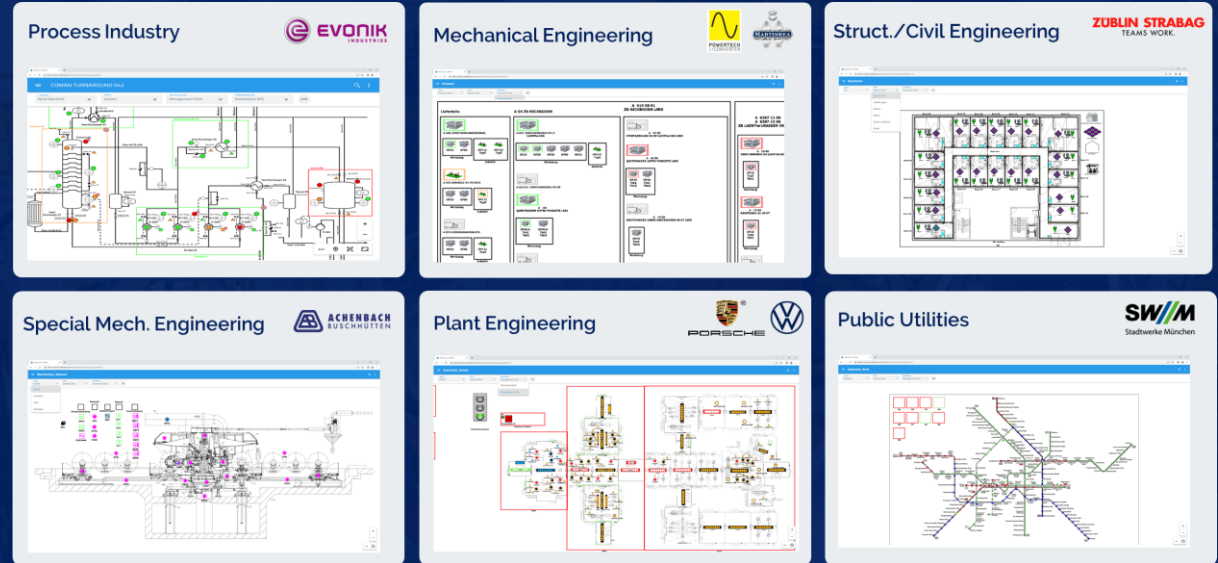
Milestones are reached **more quickly**. Downtimes of lines and plants are significantly shorter, ramp-ups significantly faster.

4

## Data Storage

The Digital Project Twin® **model** is optimized from project to project. **Learnings** and cost savings are made globally usable.

# Areas of application



and many more

Many benefits **cannot be quantified** at all because the impact is **unimaginable**.

In summary, COMAN is **not just a project management software** but the central data hub that makes every project **more successful**.

...and we are not limited to just one industry.

We are convinced that we will soon be one of the **worldwide standard tools** for large projects - on a par with SAP or MS Project.

# ONE SYSTEM INFINITE POSSIBILITIES

Get to know the COMAN product world



Trusted by:



SIEMENS



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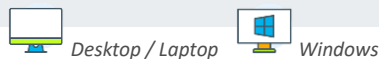
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# Product World Overview



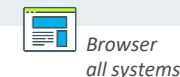
## COMAN Manager

The **heart of the system** - here new projects are created, roles, rights and views are defined or the COMAN model is customized.



## COMAN Dashboard

The steering wheel for every manager in an executive position. Overview of all projects **worldwide in real time** and targeted topic-specific reporting.



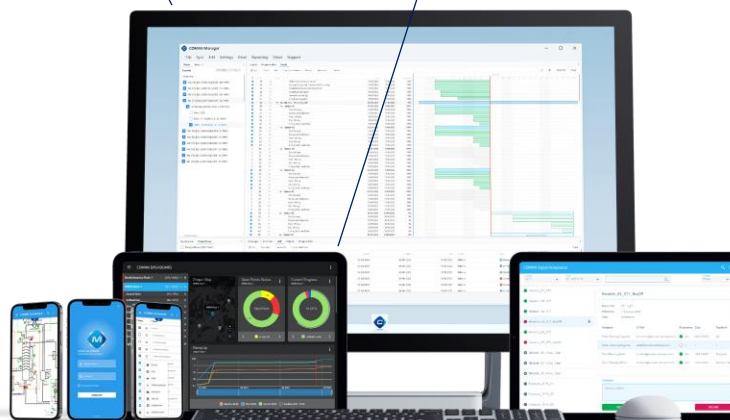
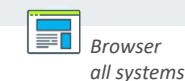
## COMAN Mobile

The app for **simply everything** on site. Document progress, record defects or view the project status. The mobile makes it possible.



## COMAN Digital acceptance

Acceptance rounds that start exactly when the last milestone is fulfilled. **Convenient virtual signing** - mobile from anywhere and still audit-proof.





# The COMAN Manager

The Manager is the **central system** for project control. Here, **all project data** flows together automatically via preconfigured interfaces.

Thanks to the novel **visual approach of COMAN**, the entire project scope can be captured in a **few seconds**. The other applications such as COMAN Mobile, COMAN Dashboard or COMAN Digital Acceptance feed themselves from COMAN Manager or play in data.

Here it is defined who has which access rights, how the project model should look like and which views or filters are necessary to be able to work as transparently as possible.



## Centralize

This is where all project data comes together



## Interface management

Which data comes from which system?  
Orchestrate all classes and namings



## Roles, Rights, Views

Set supplier access and manage users



## Standardization

Uniform designations and define project models



## Progress Visualization

A layout-based view allows the entire project status to be captured in seconds



## Scheduling

Easily clock in changes without digging through Excel lists



## Coordinate teams

Oversee daily tasks or issues and manage teams



## Server-to-Server

For even better collaboration with suppliers



## Data Hub

Integrate also external applications without problems via APIs



## Data security

Audit-proof documentation of all processes and data



# The COMAN Mobile



Our app, COMAN Mobile, can be used from **anywhere in the world** and on any device - **even offline**. It is the application for data acquisition and quick project viewing on site.

Easily **document progress, record** and assign a defect or **open issue, view** current **tasks** or **check project status**. With COMAN Mobile, your teams always have everything with them on site.

Checklists, protocols and measurement reports can be filled out **digitally while on the road** and stored in an audit-proof manner. Problems can be discussed **efficiently and transparently** in construction site or supplier meetings. This is what mobile working in large projects looks like today!



## Track

With just one click checkmark milestones and record progress



## Quality Management

Record mobile open points, classify defects and assign them to the responsible persons



## Progress visualization

On the site always know where you stand and what comes next



## Discuss

More transparent and faster status meetings directly on site



## Checklists

Digital checklists, protocols and measurement reports, always at hand - no more paper!



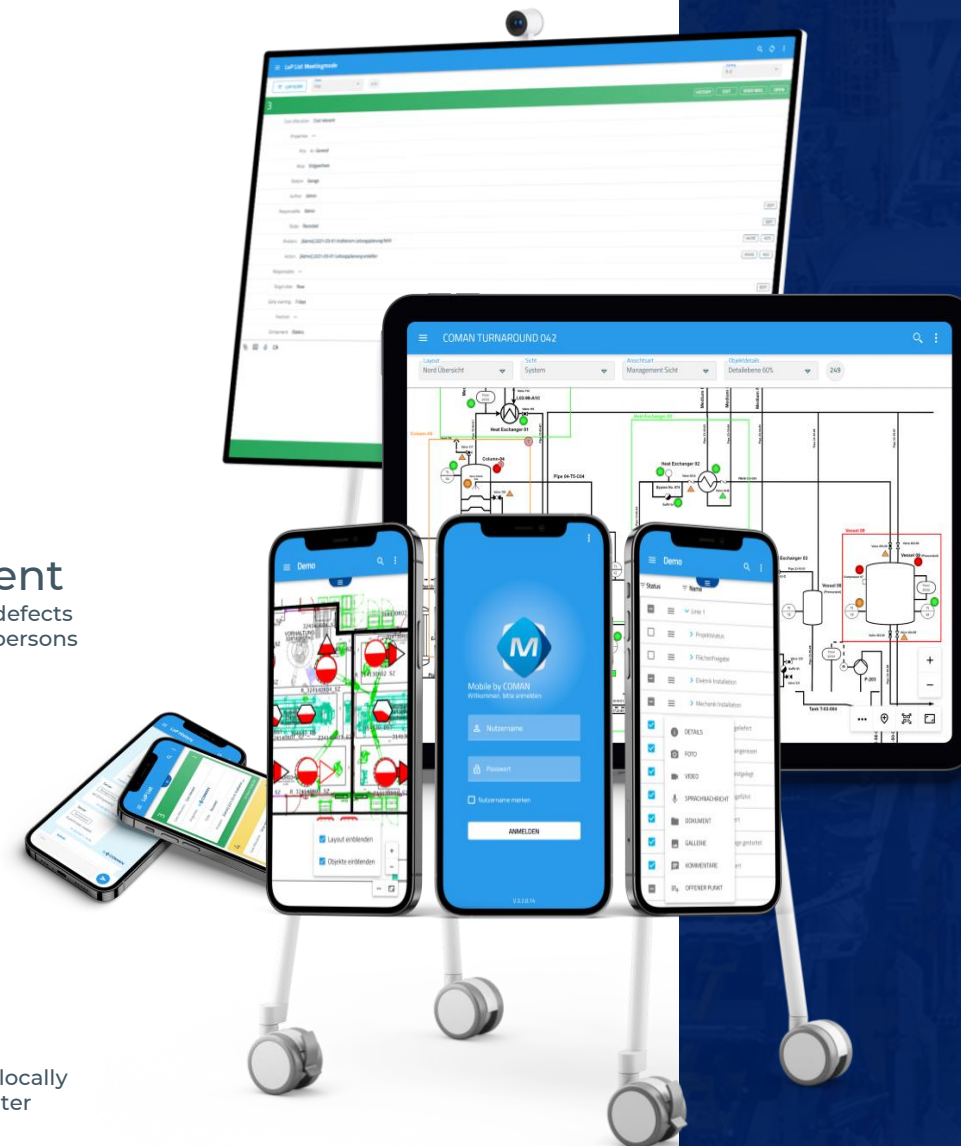
## Real-time synchronization

All local changes immediately visible worldwide - on all devices



## Offline capable

No network? No problem. Save data locally on the device and upload changes later





# The COMAN Dashboard

One of our customers - a project manager in ramp-up management - once affectionately called the COMAN Dashboard "**his steering wheel for the project**". And that's exactly what it is!

With the COMAN Dashboard, team leaders and managers can overview the performance of their projects, teams and departments in **real time**.

How many **Open Points** were recorded yesterday? How is my project going in the US? Are we still **on schedule** or are critical deadlines falling behind?

The simple charts can be **compiled individually** so that each manager can keep an eye on exactly those topics that are important to him. A **one-click function** enables the targeted export of **daily reports**. We love it!



## Centralize

Here the most important information is bundled and prepared



## Evaluate

Quickly comprehensible charts offer a daily updated evaluation of all projects



## Progress visualization

Diagrams, world maps and ramp-up curves, visually prepared and individually customizable



## Coordinate

As a manager, quickly identify problems and initiate countermeasures



## Quality Management

Monitor the number of open points recorded and control the processing



## Extract reports

Electrical assembly, delivery or quality management - all reports with just one click



## Real-time synchronization

The entire data of the project across all levels summarized on a daily basis





# The COMAN Digital Acceptance

Especially in large projects, the acceptance of critical milestones means a **high bureaucratic effort**.

It would be great if the responsible manager could be **informed automatically** when a milestone is pending approval - **without the hassle of paperwork** and e-mails.

COMAN Digital Acceptance enables the **mobile and smooth handling** of extensive or critical approval processes - documented in an audit-proof manner, of course.



## Centralize

All topics relevant to acceptance centrally summarized



## Capture

Verify or decline with just a few clicks, even when mobile



## Coordinate

A completed milestone automatically triggers the acceptance processes



## Discuss

Are there any questions left? Just ask directly within the application



## Progress visualization

Are approvals still pending? How far is the process? Who has already released? Always the status in view



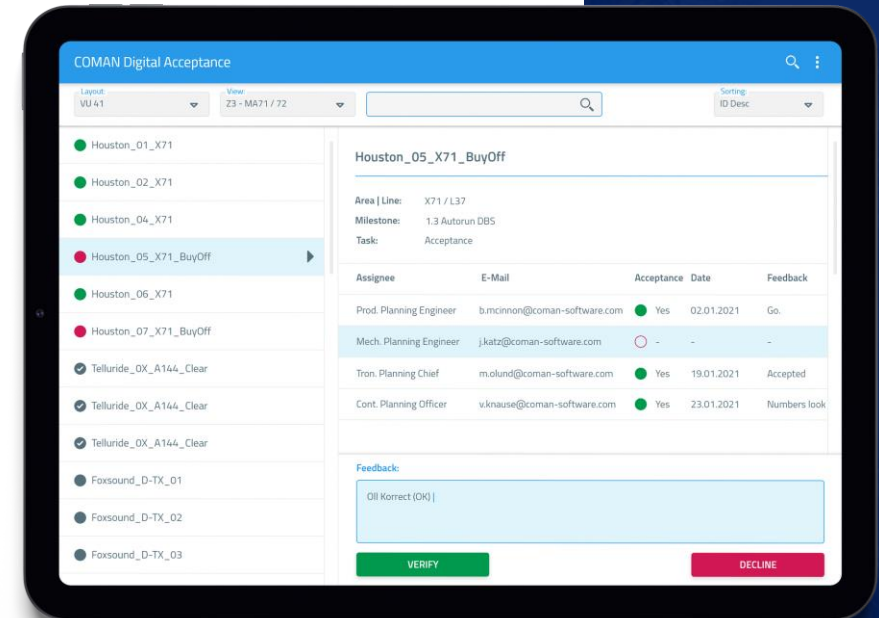
## Real-time synchronization

Be informed immediately when acceptance is pending or has taken place - no more waiting times



## Data security

Unique signature and audit-proof acceptance - without pen and paper



# Easily start your own COMAN project!



**„Significant Cost Reduction.“**

Giuseppe Lo Presti, Planning and Production technology,  
Volkswagen AG



**„70% less Open Issues.“**

Sven Schüle, Global Ramp-up Management  
Mercedes-Benz

**KUKA**

**„Great Project Delivery.“**

Thomas Forstner, CEO Assembly, KUKA Systems GmbH



**Let's  
get  
in  
touch!**

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