

**Efficient Engineering is when a PLAN becomes EPLAN.**

**"First time right" with Eplan Cable proD**

PROCESS CONSULTING

ENGINEERING SOFTWARE

IMPLEMENTATION

GLOBAL SUPPORT

- Video Link Eplan Cable Pro-D:
- <https://youtu.be/psaLif-l1BY?si=eS7oEI3g6qfZL9jF>

# Introduction

## Presenters today

**HAHN**  
AUTOMATION GROUP



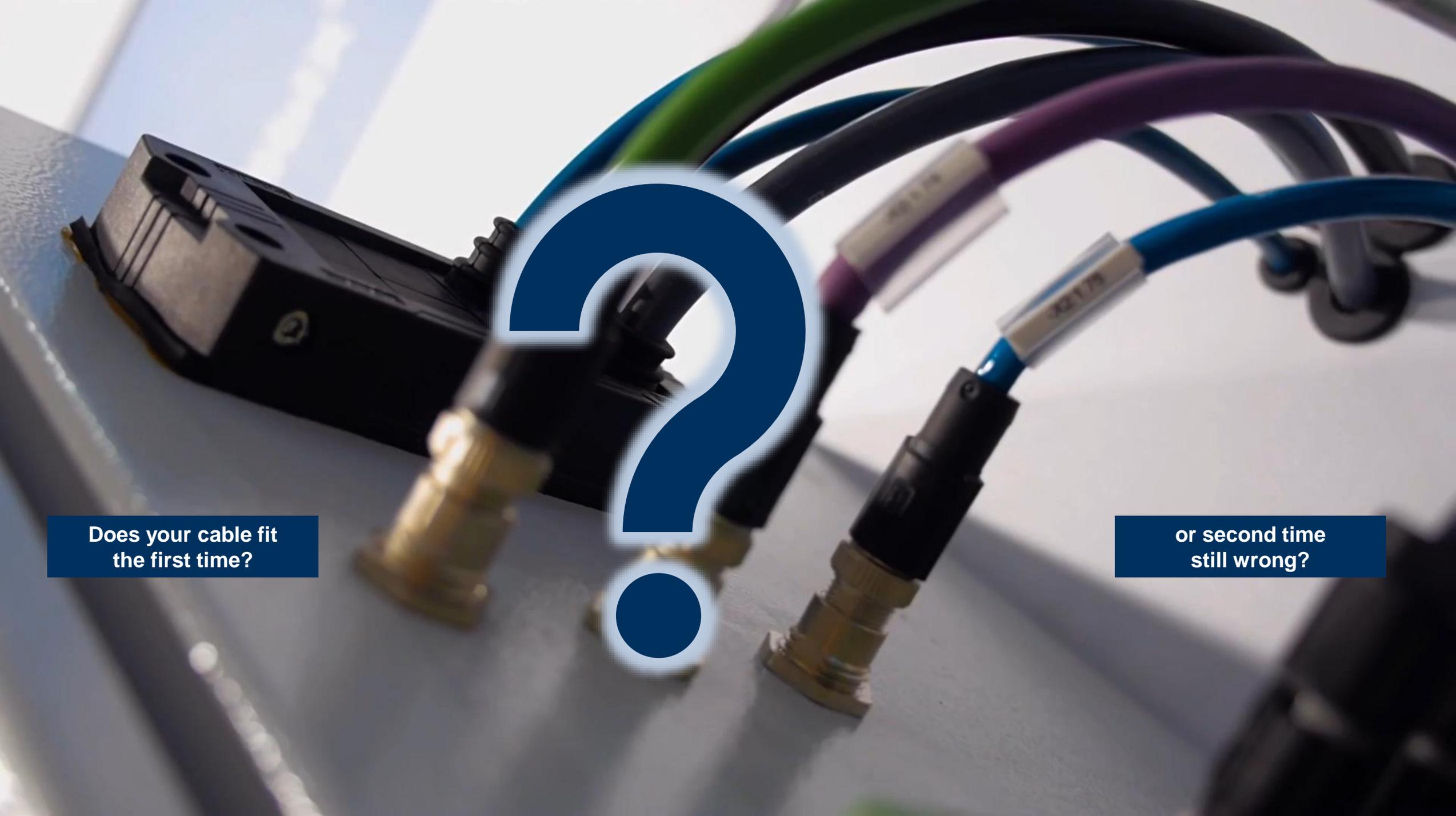
**Dirk Scherer**  
Manager Electrical Design

**ePLAN**



**Michael Widmann**  
Business Development Cabling

- Video Link Image Film:
- <https://youtu.be/rSajXfeygqI?si=GqtksdxyTTXGAv02>

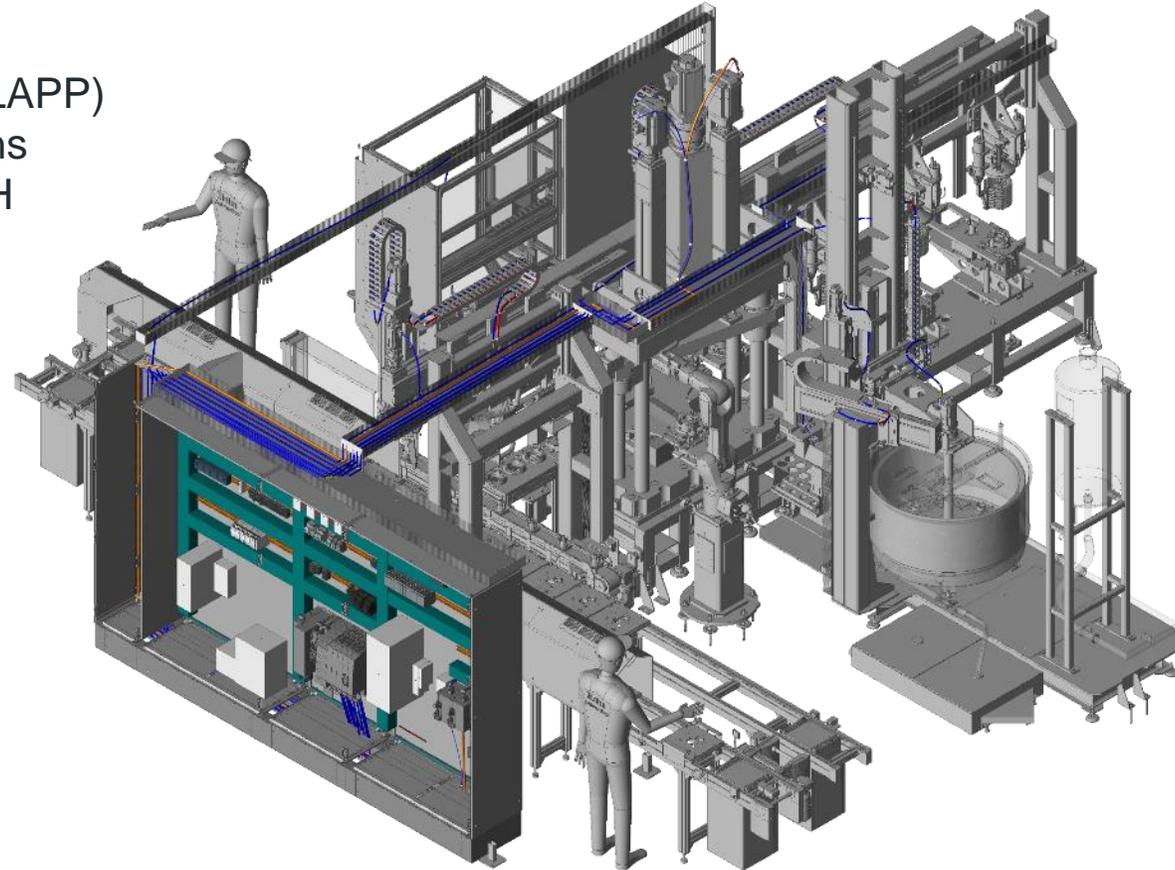


Does your cable fit  
the first time?

or second time  
still wrong?

# Project HAHN Automation Group

300x Sensor Cable  
50x Connection Cable (LAPP)  
7x Servo Cables Siemens  
4x Servo Cables BOSCH  
1x Joining Unit Kistler  
10x External Devices



Cycle Time: 41sec

18 Stations with different functions

Special Process: with Nitrogen cold Shrinking

Big Challenge:

Cable Routing for each  
Station & Device

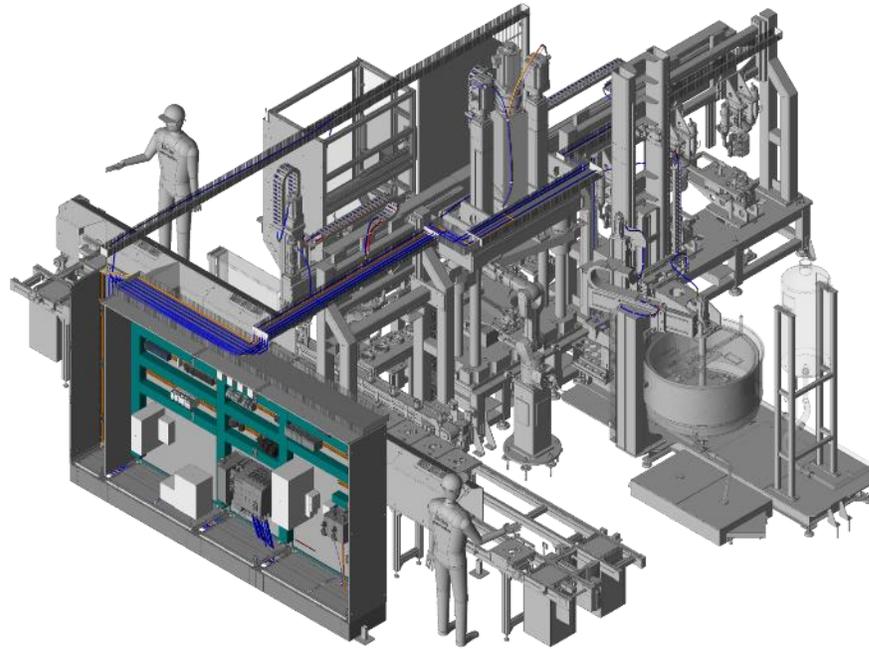
# Machine cabling challenges



**Definition of digital cable routing is not available**



**Manual measuring of cable lengths**

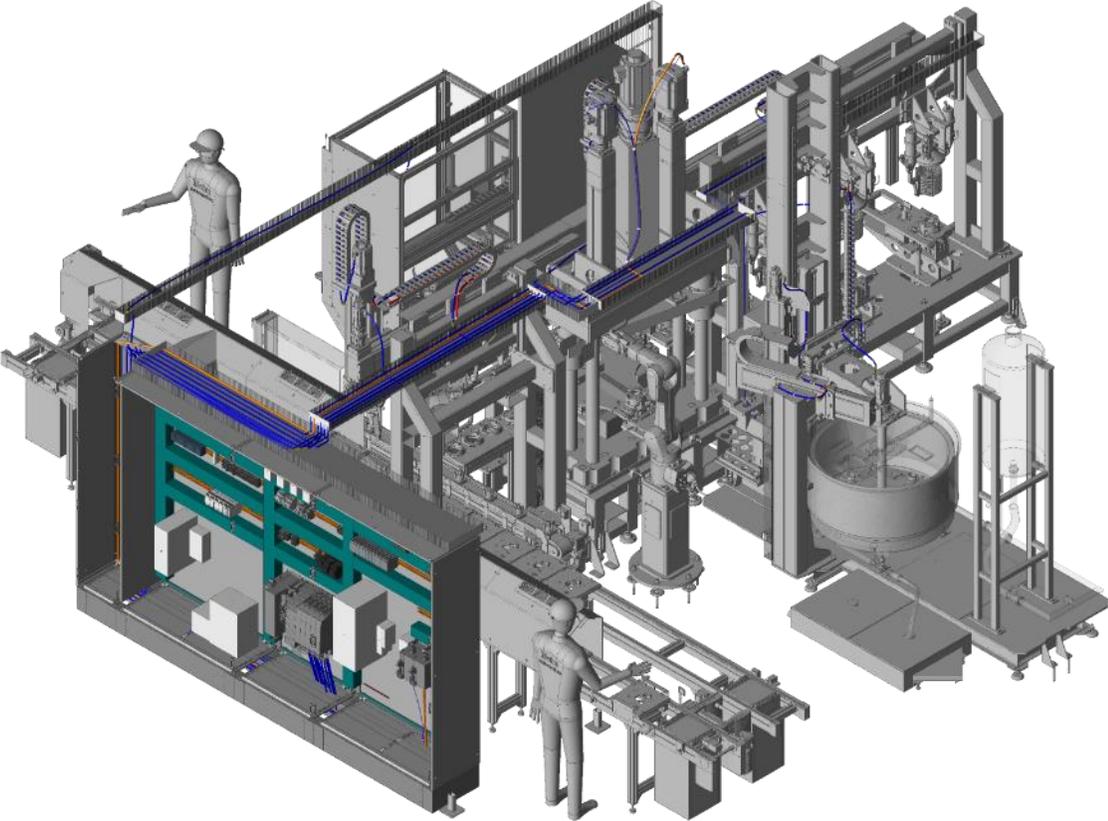


**Visualization of sensors and actors are not available for production**



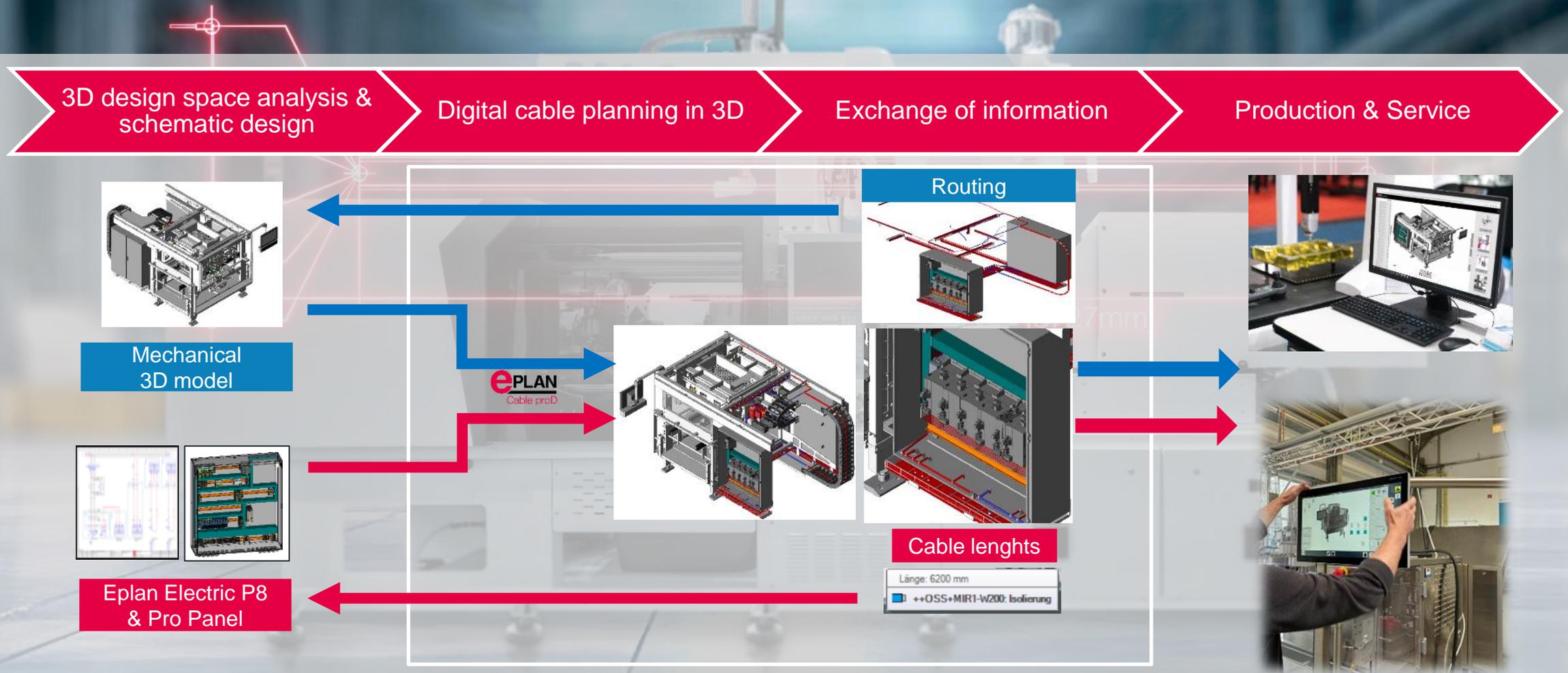
**Handling of energy chains is complex**

# 3D cabling with Eplan @ HAHN Automation Group



# Eplan Cable proD

## Workflow of cabling



# Potentials of digital machine cabling



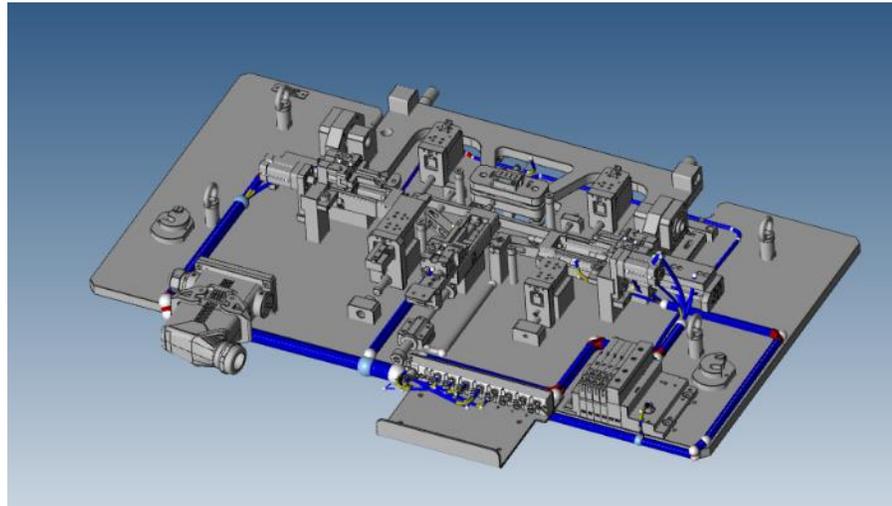
**Error reduction  
of cable lengths**



**Improving  
“First time right”**

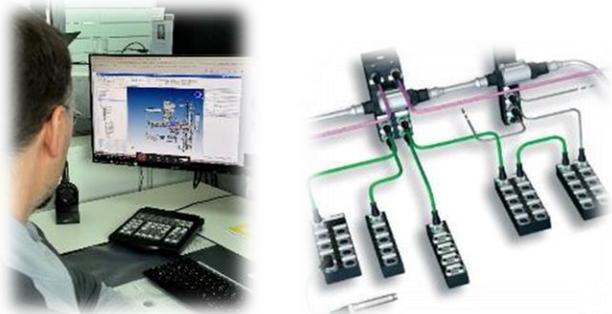


**Better collaboration  
of mechanical &  
electrical engineering**

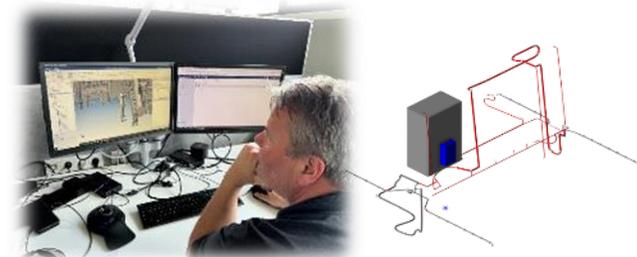


**Possible cost savings  
due to less cable waste**

# Potentials of digital machine cabling



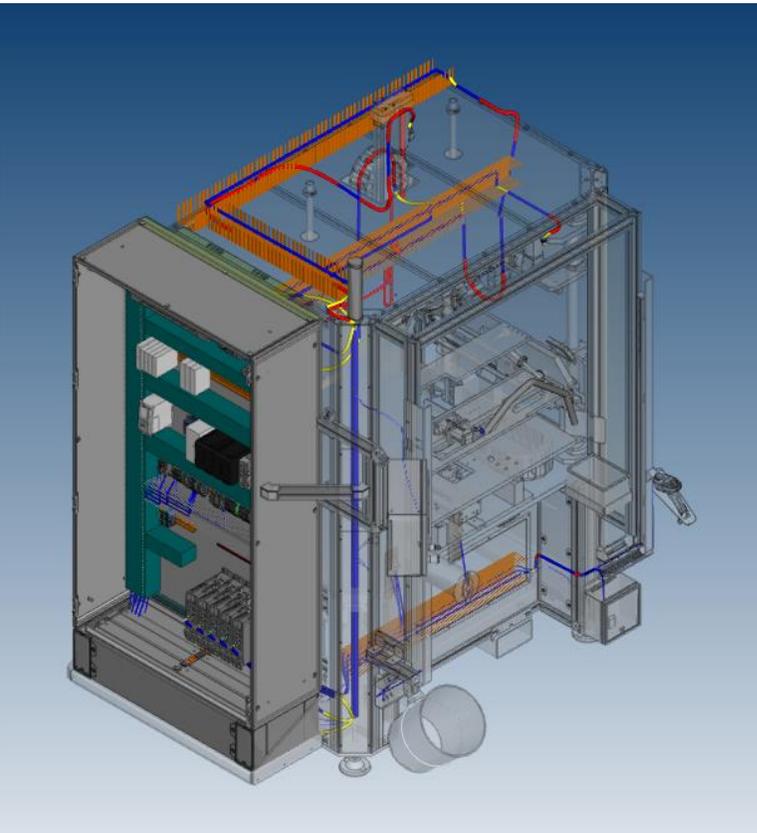
**Cable lengths are defined in 3D and visible for everyone**



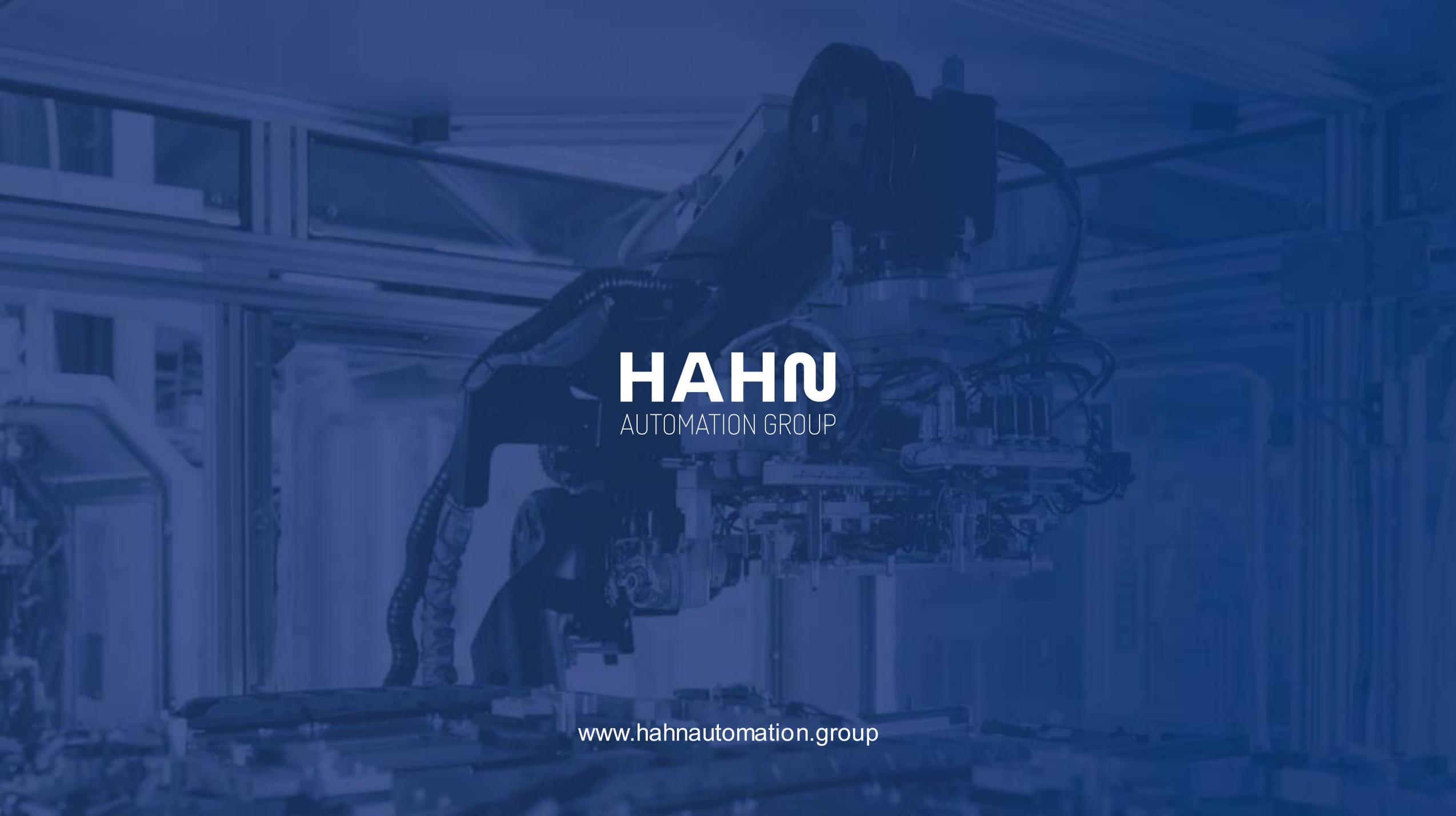
**Clear definition of digital cable routing in 3D**



**Visualization of the energy chains can be defined**



**The assembly can see the cabling details on a screen**



# HAHN

AUTOMATION GROUP

[www.hahnautomation.group](http://www.hahnautomation.group)