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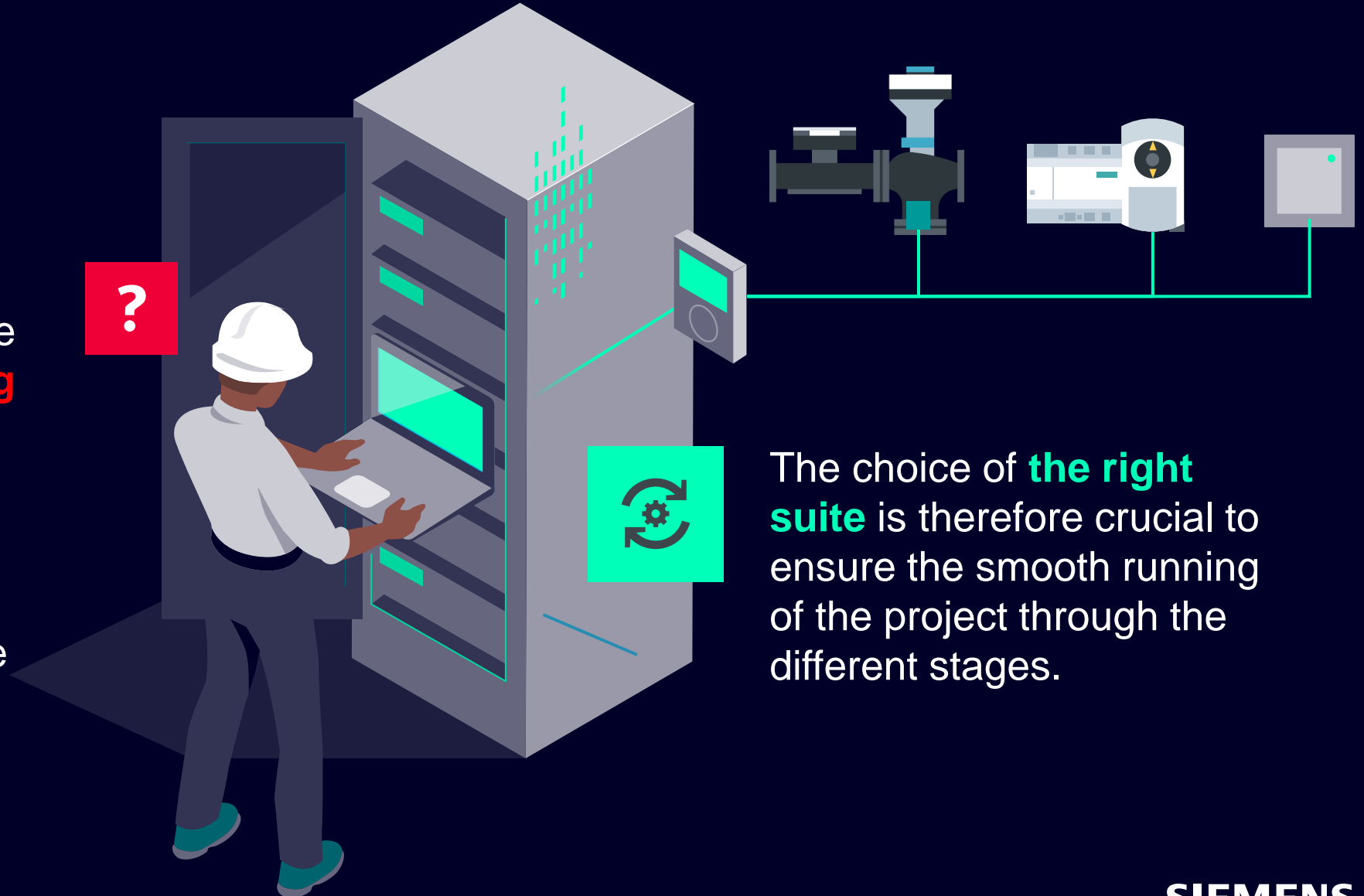
# Desigo Engineering Framework – Make an impact

End-to-end engineering suite for building automation projects

# Engineering building automation systems can be tedious

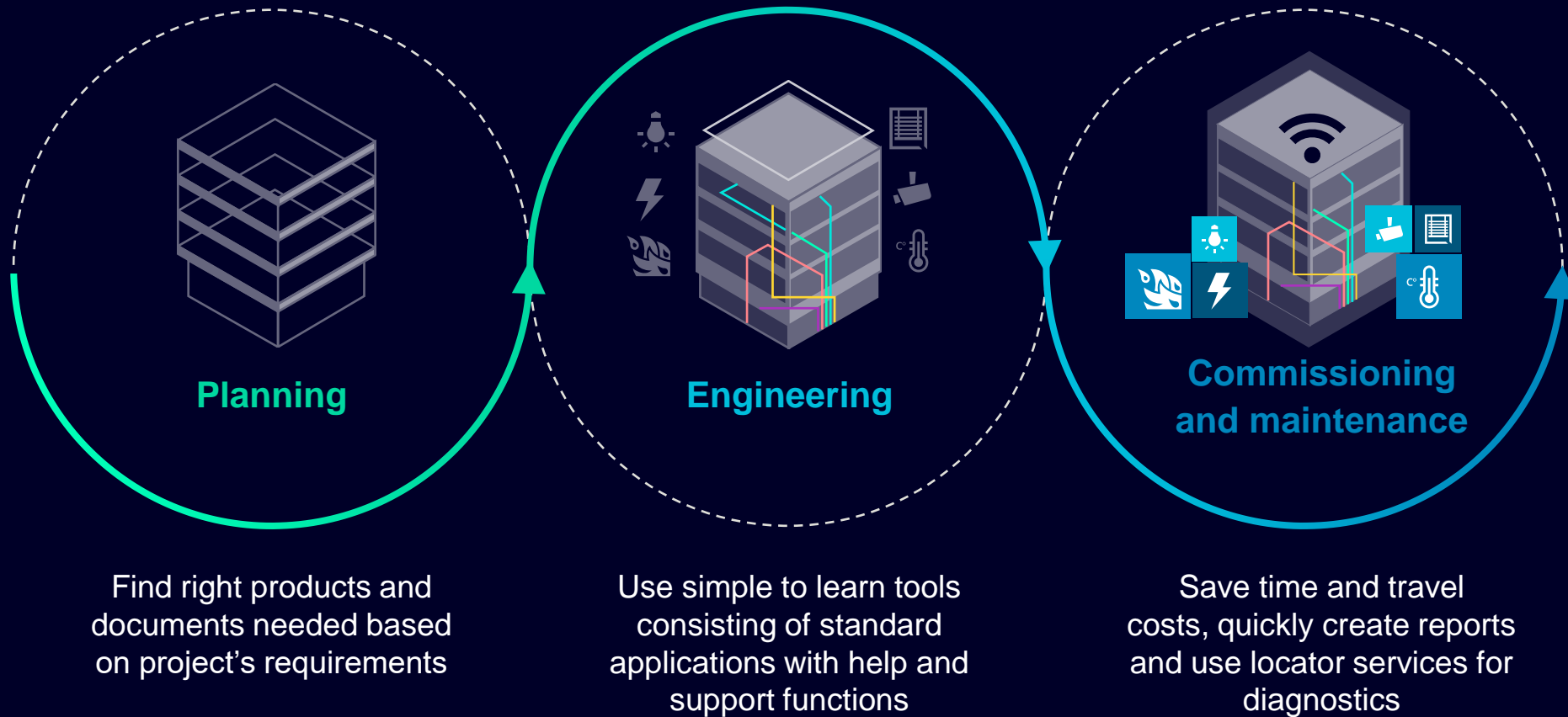
A building automation system with fitting hardware but **inefficient engineering** tools can end up in:

- More time consumption
- Higher project costs
- Greater complexity in the execution of tasks

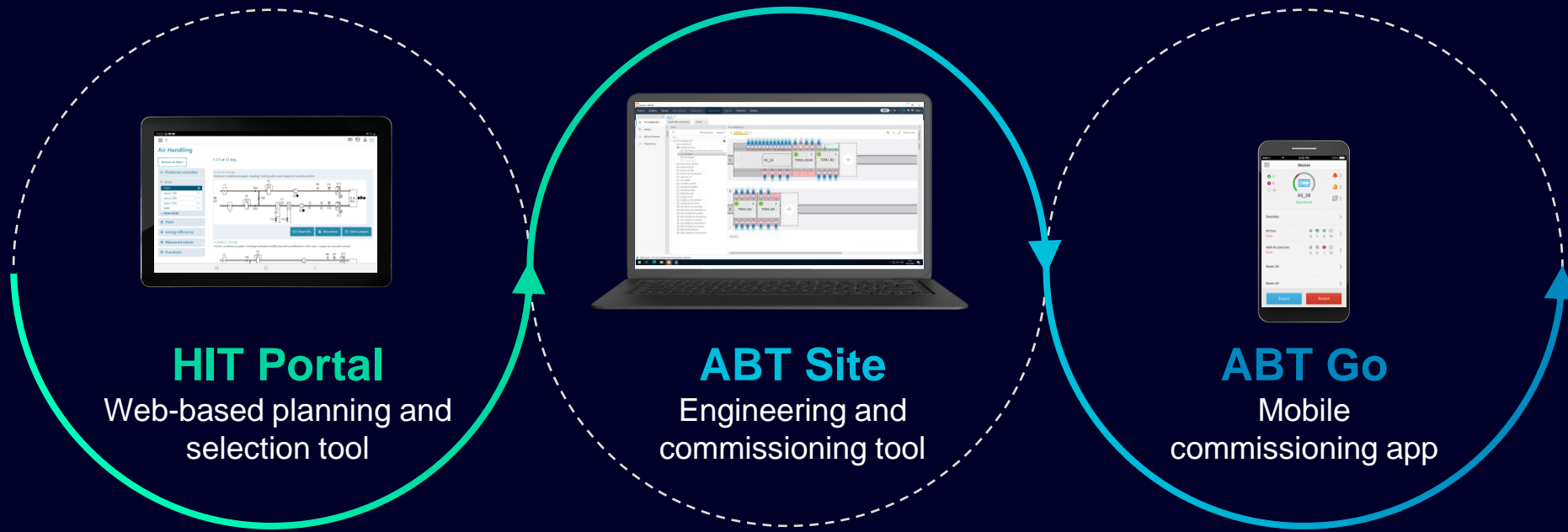


The choice of **the right suite** is therefore crucial to ensure the smooth running of the project through the different stages.

# Success factors in the lifecycle of a building project



# Seamless workflows along the entire lifecycle



**License  
free!**

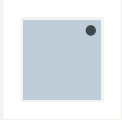
# Comprehensive solution

A license-free framework that ensures seamless workflows during the entire life cycle

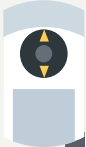


One framework  
for all products

**Sensors**



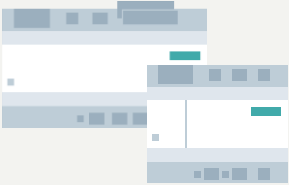
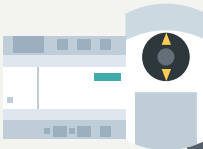
**Damper actuators**



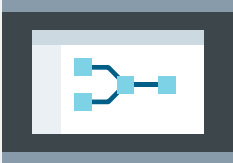
**Intelligent valves**




**Actuating controllers**



**Automation controllers**



**Embedded building operations**



**Room automation stations**

...

More to come

# Stakeholders

## involved in a Building Automation project

### John

#### Planner

##### Motivation

Keep sales estimates within acceptable margins

##### Tasks

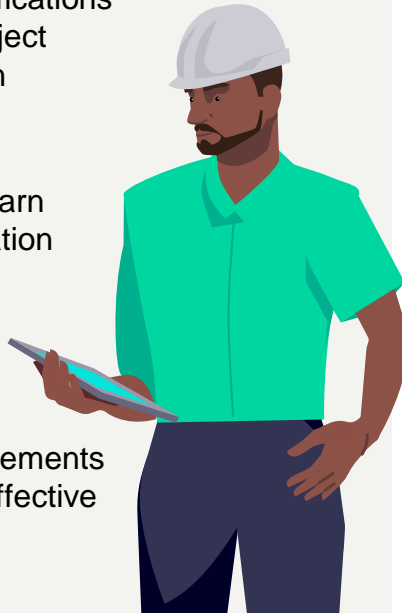
- Analyze project specifications
- Provide pre-sales project design documentation

##### Needs

Common and easy-to-learn tools with in-built calculation support and detailed documentation

##### Pain-points

Determine project requirements with the optimum cost-effective solution within tendering deadlines



### Jane

#### Engineer

##### Motivation

Enable the customer to get the right plant configuration and relevant benefits

##### Tasks

Get a project done with field devices engineered, program logic running, and easy modifications

##### Needs

Re-use elements as much as possible and fast testing to minimize the engineering time

##### Pain-points

Programming from scratch and inconsistent engineering workflows are time consuming and cumbersome



### Joanna

#### Commissioning expert

##### Motivation

Efficient commissioning with minimum errors to exceed customer KPIs

##### Tasks

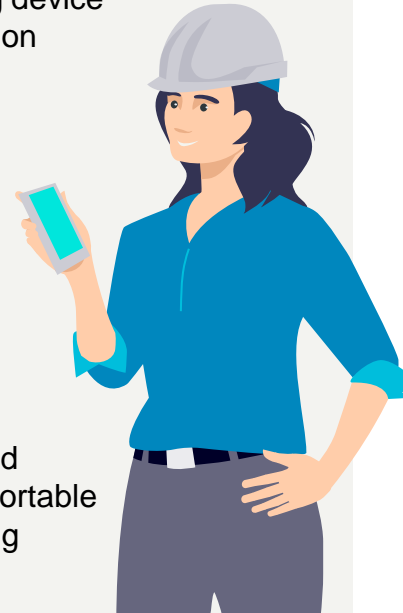
Data point testing including device assignment and configuration

##### Needs

Work with a portable device with efficient tool

##### Pain-points

Challenging diagnostics and project data collection on portable devices with visual reporting



# Plan your project with HIT Portal

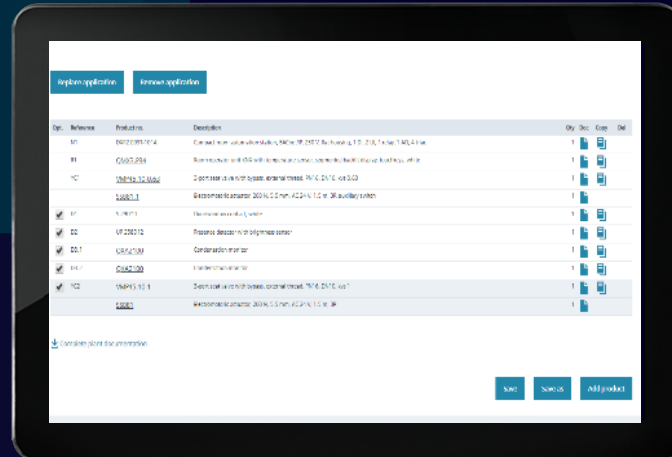


I received a specification for a tailored solution from a customer and they would like to see a proposal documentation and bill of material. How can I do that?

By using **Desigo select** in **HIT portal**  
I can easily plan my project and  
provide the final documentation to  
the customer.

Moreover, this project can be used by Jane as a reference to start the engineering in ABT Site.

# Documentation





# Use case 2

## Engineer your project with ABT Site



### Situation

My customer would like to use a generic AHU but with a specific fan configuration. I would like to do these changes and test them but I don't have a real controller. How can I do that?

### Drag and drop

### Simulation

### Solution

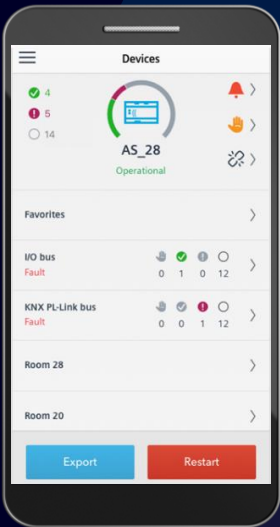
ABT Site consists of the library with multiple AHU plant samples. The application concept in programming editor allows me to modify plants with simple drag and drop\* feature.

And the program simulation helps me to check the changes without having a real device. This way I can also work from my home office.

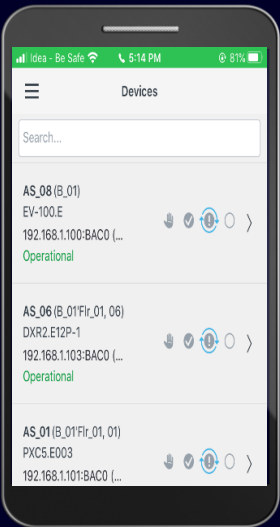
1 This feature is available with ABT V5.0

# Use case 3

## Commission your project with ABT Go



Dashboard



List of devices



### Situation

The project I need to commission is a huge building and was extended by over 500 DALI lights and I would like to save my commissioning effort and time. How can I do that?

### Solution

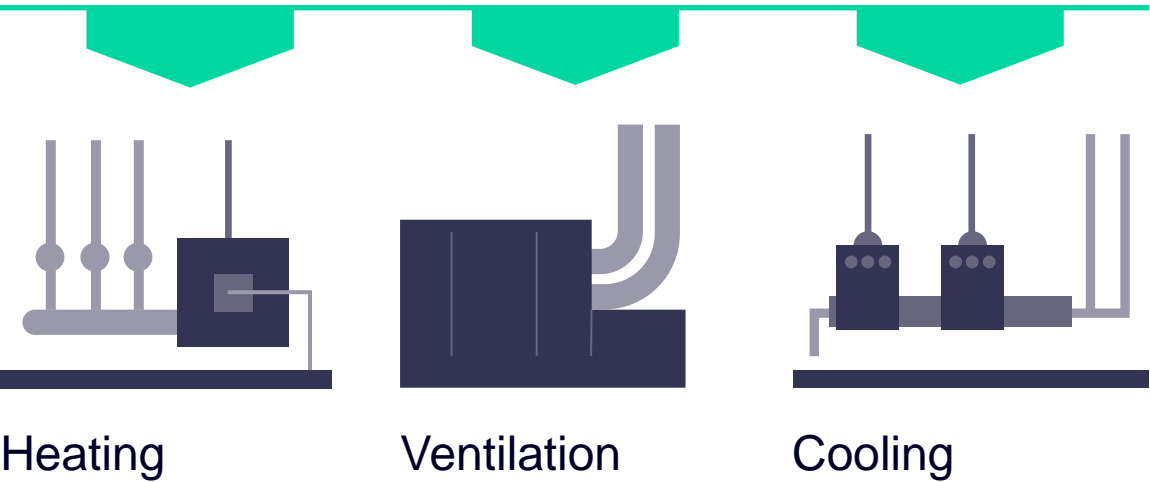
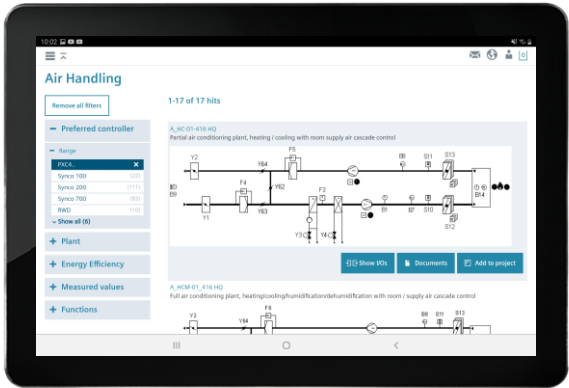
ABT Go has an intuitive dashboard for the overview of the project including history data. It also has the binary search function for identifying and assigning DALI lights. This makes the identification of the lights quite easy and efficient, it even allows me to address all lights at once without having to be an expert. Moreover, I can send the commissioning reports with on-site pictures to Jane directly from the ABT Go app.

# Productivity booster

Increased efficiency with  
an extensive library and  
consistent engineering



# Pre-engineered applications and selection tool

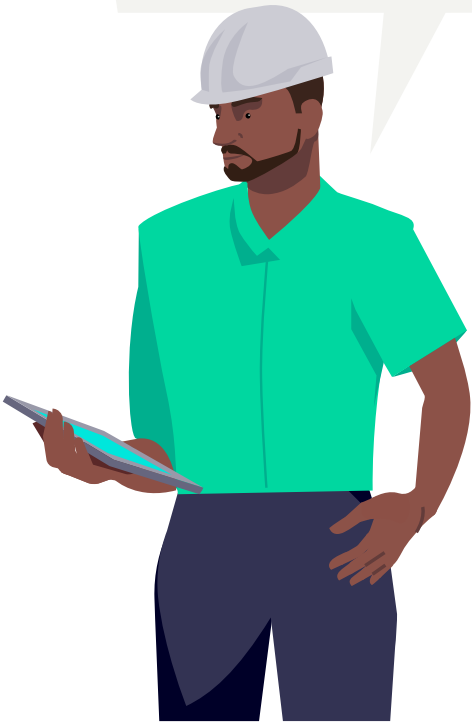


Heating

Ventilation

Cooling

According to the specific requirements of my project, I am guided to create the complete technical documentation and am ready to share the project configuration in no time.



HVAC applications



Plant diagrams



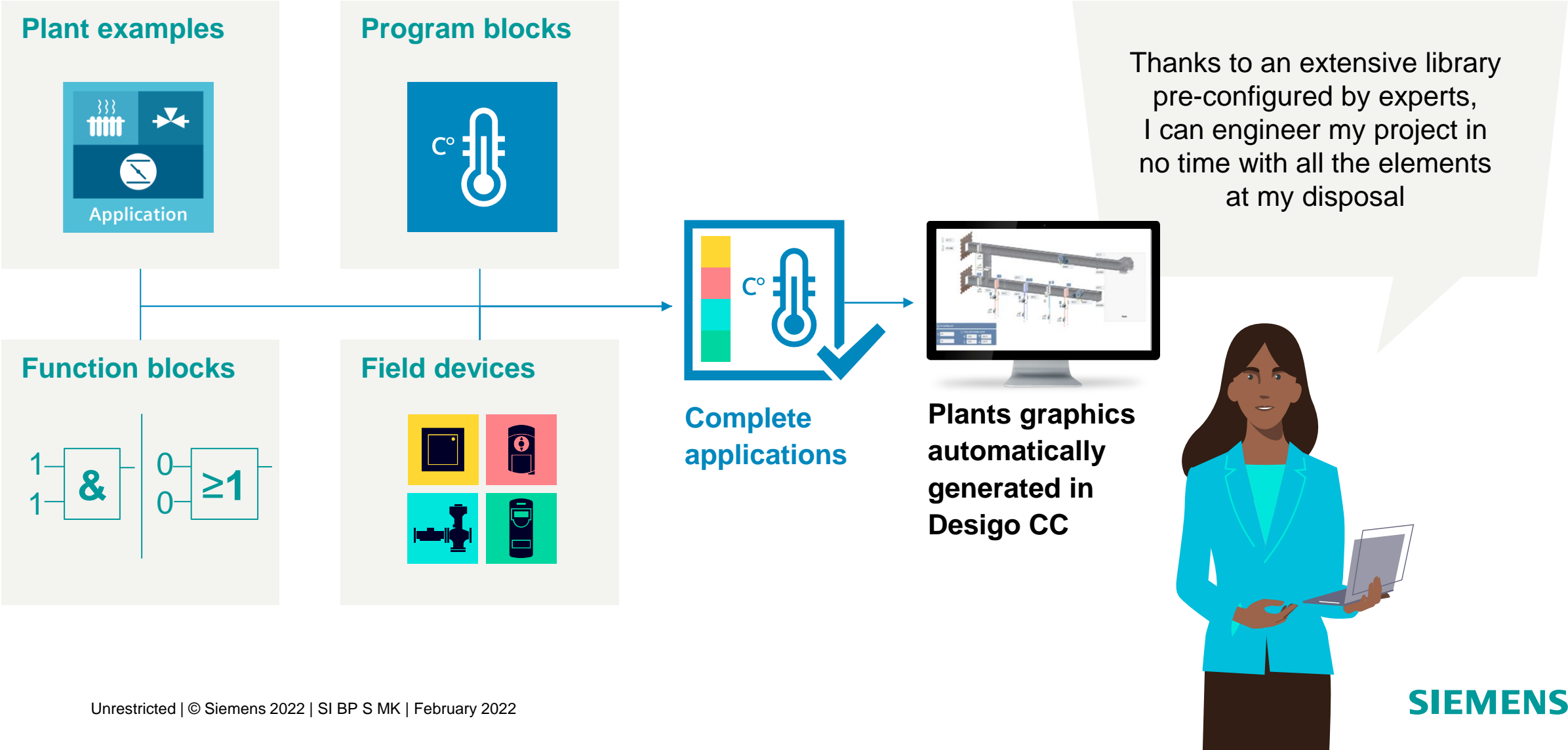
Material list



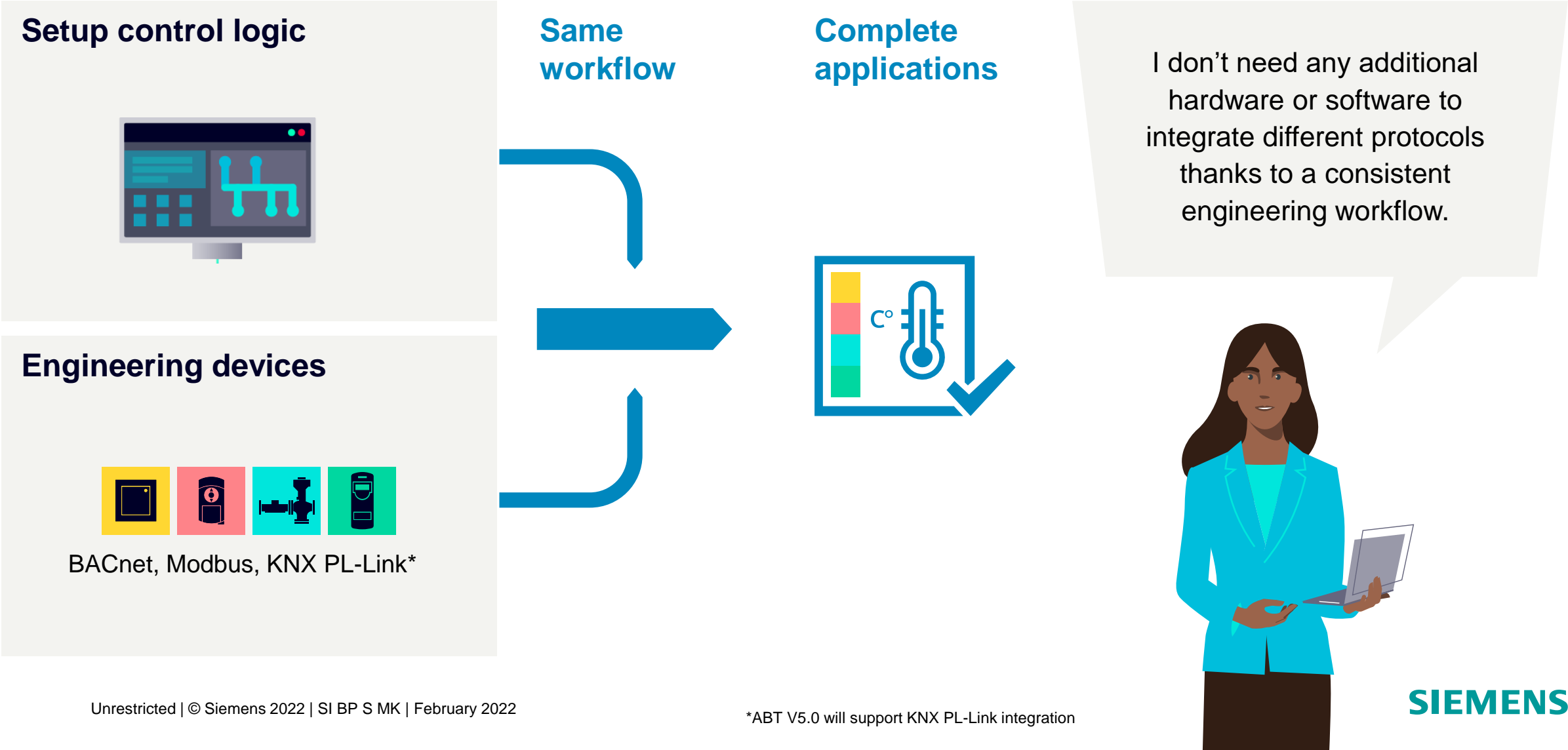
I/O points list



# An extensive library to save your time



# A seamless engineering across protocols integration

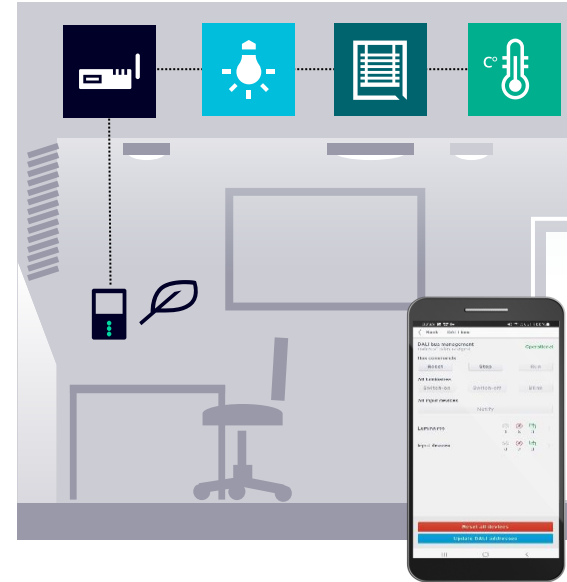


# A mobile app to enhance your productivity on-site

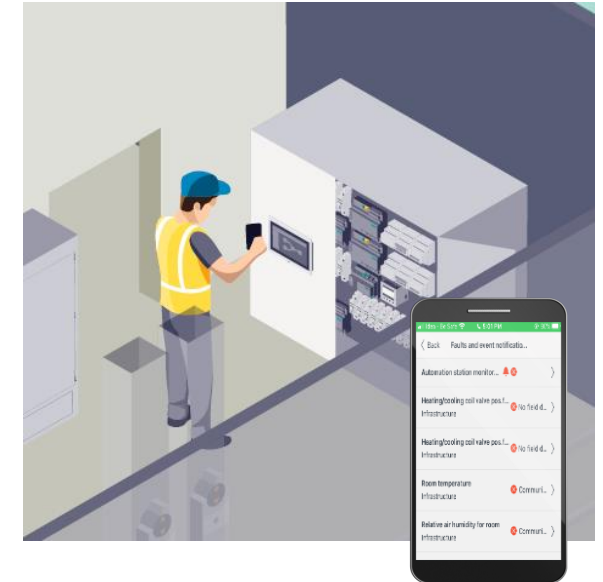
Thanks to intuitiveness of the mobile app, I save time and costs in the commissioning



**Overview** of the devices' commissioning status and point testing



**Field device identification** and parameters modification



**Commissioning reports** creation and sharing

# Highly intuitive

Optimized features and satisfying user-experience to make work more enjoyable





# Desigo System functionalities to make your work enjoyable

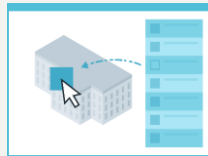
**BACnet SC** engineering and certificate management support



**Share parts** of a project, specific functions and entire projects with colleagues



**Drag and drop** of block elements and view of function details



**Visual guidance** to address correct signal types



# Sub-system functionalities to make your work enjoyable

## Primary automation features – with Desigo



**Cloud connectivity** to access your controllers remotely



**Full test** of applications with program simulation without real devices



**Play and pause** for quick changes and delta download



Engineering of **Modbus** gateways



## Room automation features – with Desigo



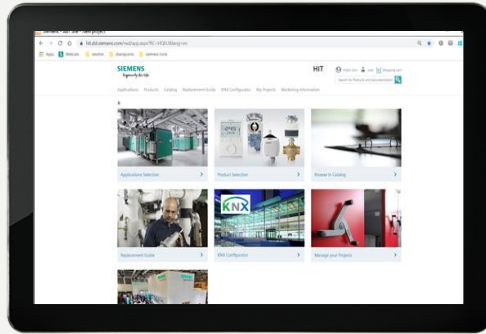
**DALI** commissioning



**Simple** room programming



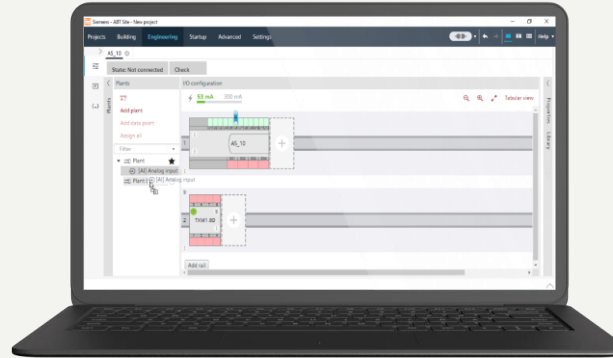
# Get started in minutes



## HIT Portal

No training  
requirements

[Browse online](#)



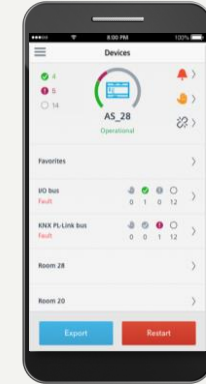
## ABT Site

Download the tool

[Download](#)

Training modules

[E-Learning YouTube](#)



## ABT Go

No training  
requirements

[Google play](#)

[Apple store](#)

# Make an impact

## Desigo Engineering Framework

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Smart Infrastructure

Global Headquarters

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Switzerland

[siemens.com/desigo-engineering-framework](https://siemens.com/desigo-engineering-framework)

