



**pitCAD** ULTIMATE

CAD/BIM Planning Tool



# pitCAD ULTIMATE

Combines pit-cup's extensive experience within building technology planning and facility management to create an integrated 2D/3D CAD/BIM planning tool over the entire life cycle of a building. And all of this with an integrated CAD/BIM core.

#1 MEP Planning Tool  
for 2D/3D

#2 openBIM  
Authoring Tool

#3 BIM4FM  
Integration



ONE FOR ALL



- ✓ A planning tool ↔ A contact person
- ✓ One-time license costs (single-user or network license)
- ✓ Full CAD/BIM functionality

## pitCAD ULTIMATE Basis

All in One  
2D/3D Planning Tool

### Top Features

- ✓ Fully-fledged 2D/3D planning tool for building planning
- ✓ Modern user interface for intuitive operation
- ✓ Versatile tools for 2D planning and 3D modeling (drawing or modeling, editing, labeling, referencing, visualization, import/export, plan output, etc.)
- ✓ Based on a consistent DWG platform
- ✓ Fully integrated into the pitEcoSystem\*
- ✓ No additional basic CAD application required
- ✓ Modular structure
- ✓ One-time license costs
- ✓ Available as a single user or network license



pit 365 Maintenance & Support

## pitCAD ULTIMATE Modules kit

Expansion modules for the flexible expansion of pitCAD Ultimate to meet your individual requirements

### Module

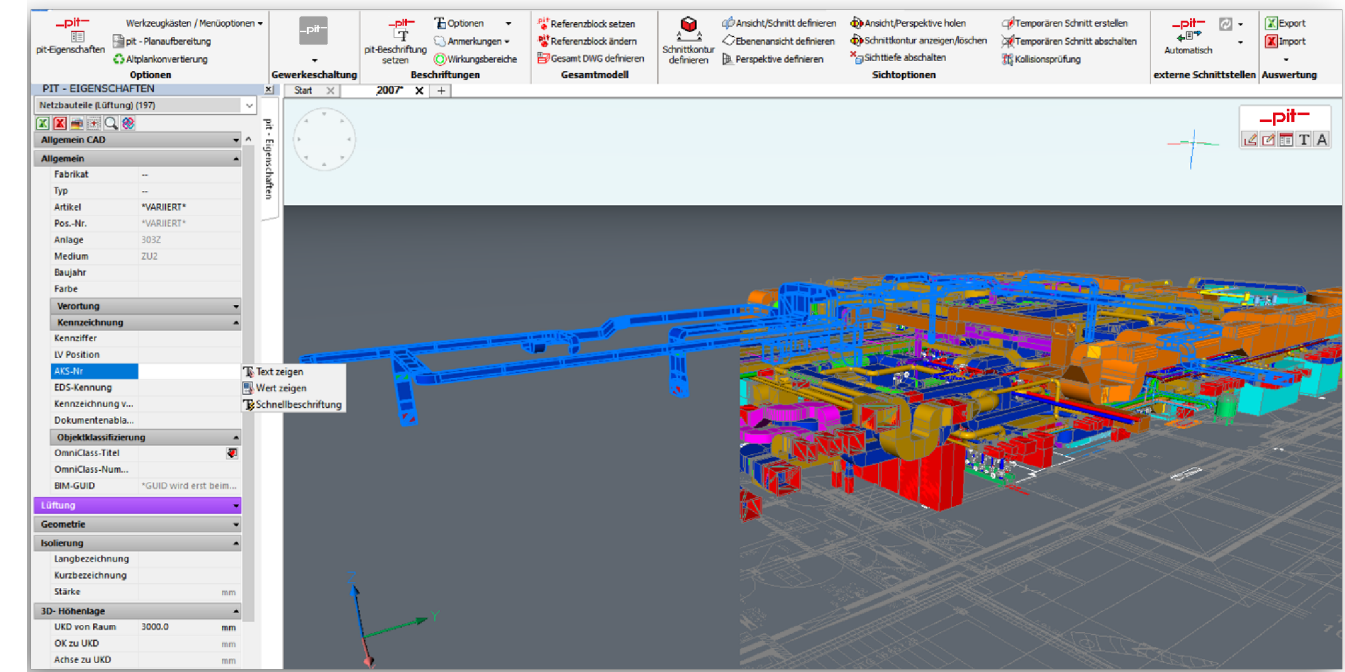
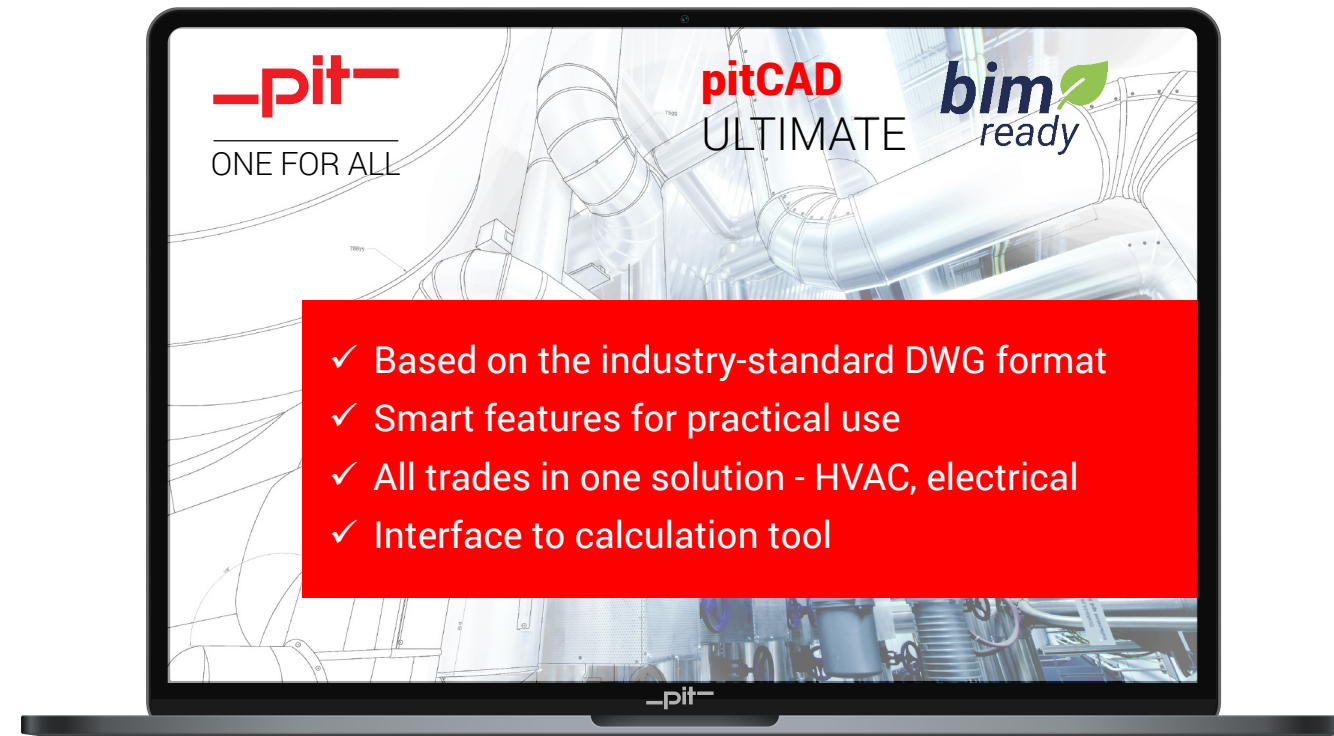
- BIM
- Communicator
- Heating and sanitary
- Ventilation
- Electric
- Solar
- BIM4FM



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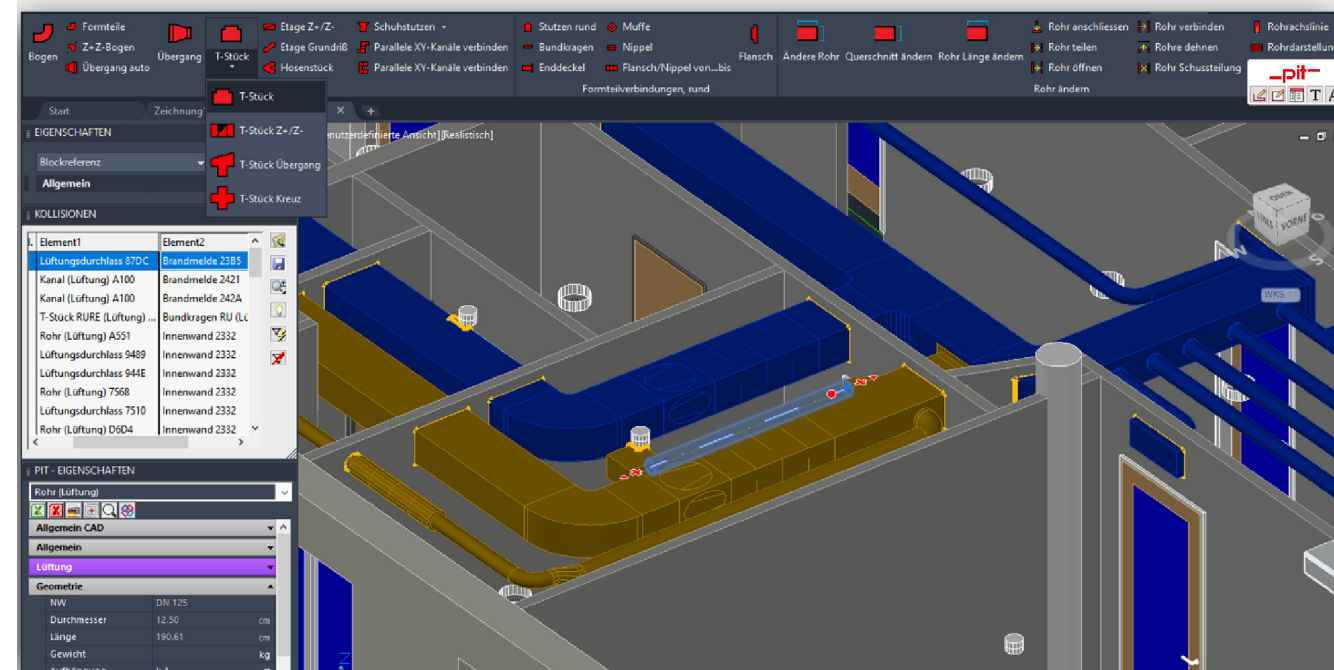
# pitCAD ULTIMATE

## 2D/3D MEP (Technical Building Services) Planning #1



### pitCAD Ultimate in a nutshell

- ✓ Classic 2D/3D planning in a familiar DWG environment
- ✓ 3D BIM modeling in DWG
- ✓ Smart, AI-based BIM modeling features
- ✓ Consistent user interface for all disciplines (HVAC, Electrical)
- ✓ Intuitive input concept with pitClick
- ✓ Intelligent connection of the SOLAR-COMPUTER calculation software
- ✓ Area conversion tool for heating/cooling load calculation and for EnEV
- ✓ verification
- ✓ Complete IFC interoperability (IFC 2x3, IFC 4)
- ✓ Collaboration based on BCF
- ✓ Performant model editing through a lean data model
- ✓ Model preparation and drawing derivation
- ✓ Quantity export to Excel
- ✓ Fully integrated into the pitEcoSystem (plan, build, operate)

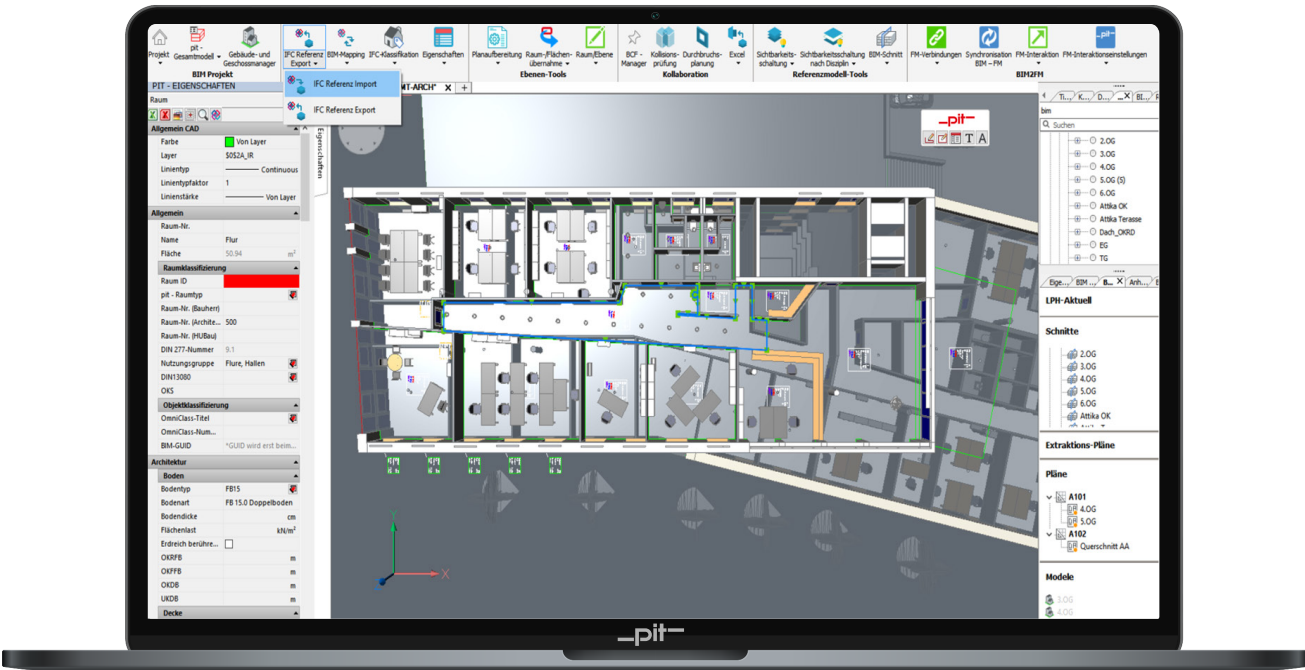




# pitCAD ULTIMATE

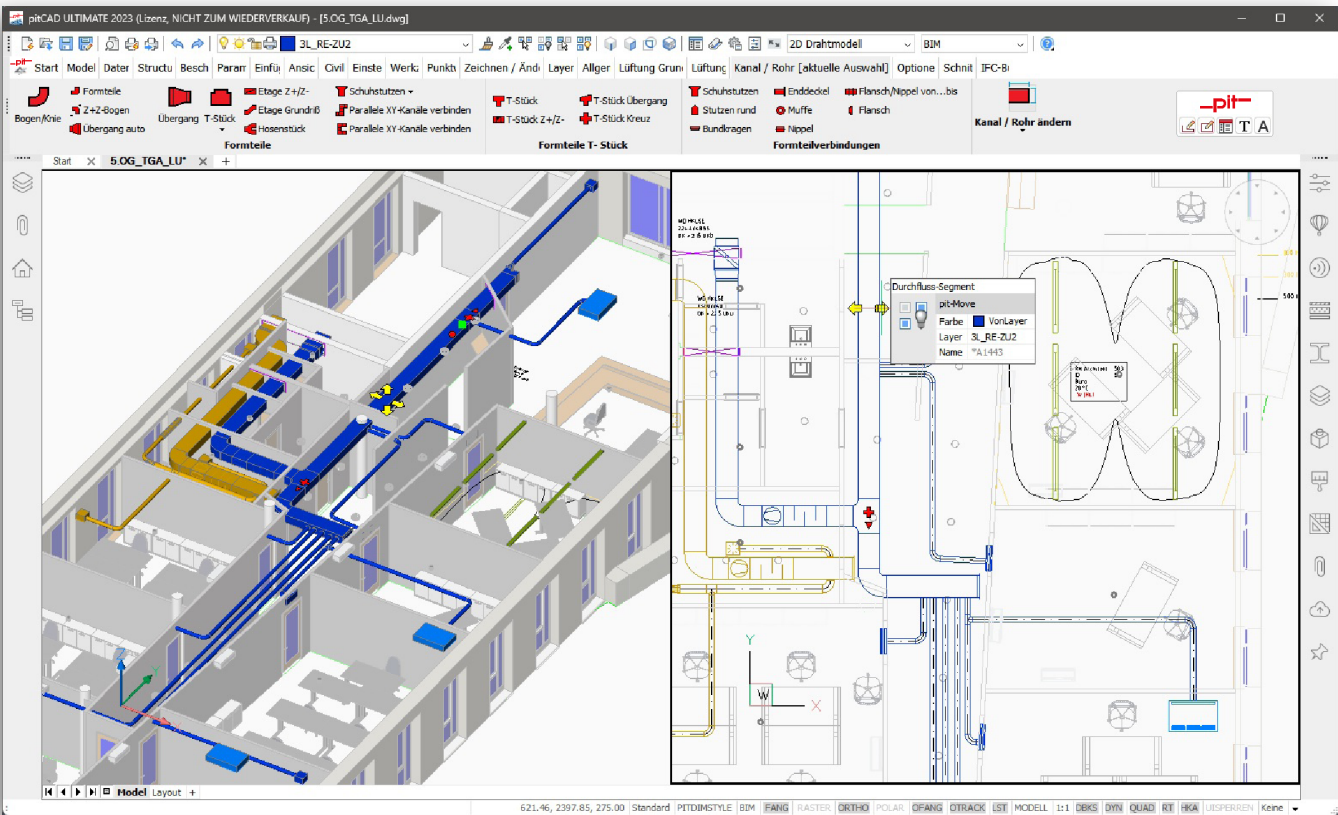
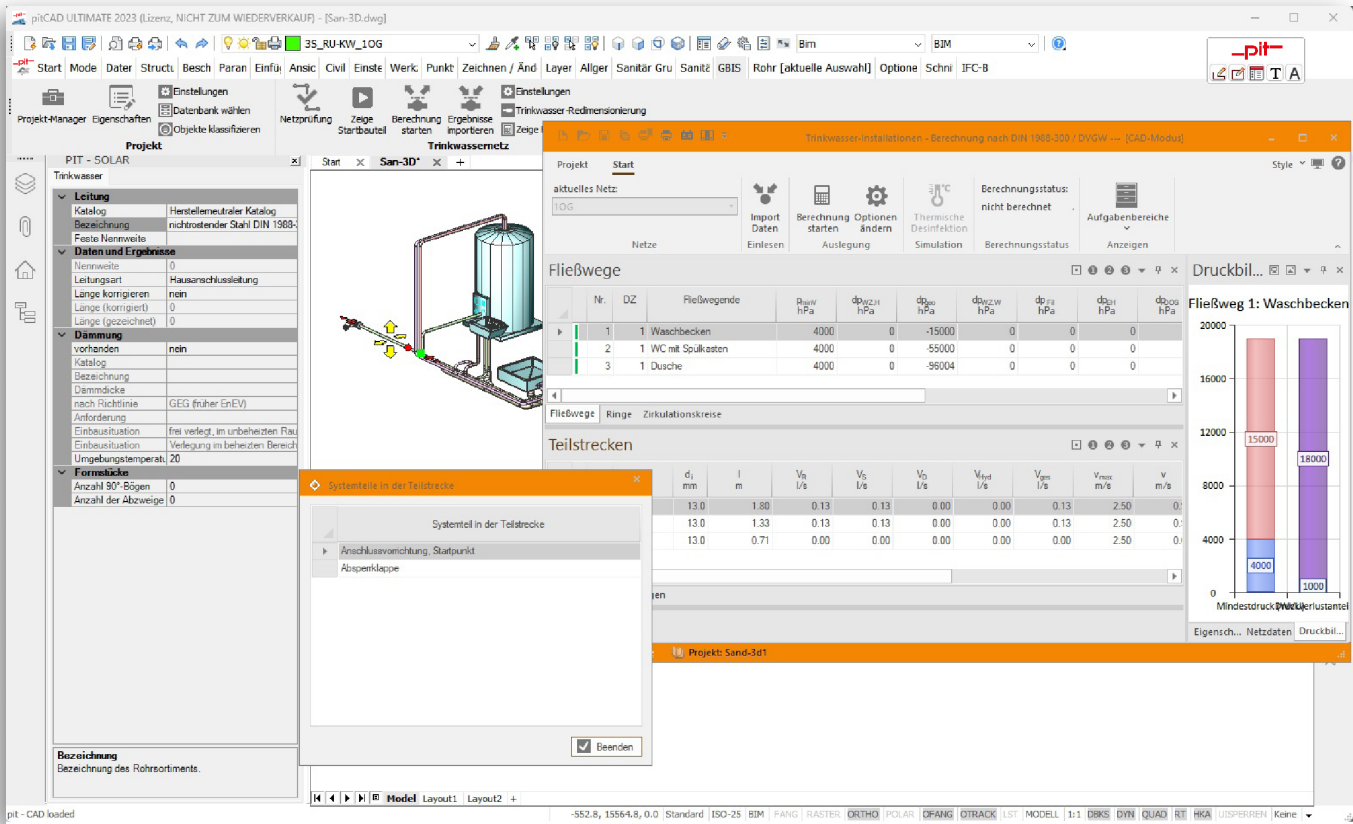
The fully-fledged openBIM authoring tool for architecture, MEP and facility management. Consistent planning tool across the entire real estate life cycle and basis for the digital TWIN.

# OpenBIM Authoring tool #2



## pitCAD Ultimate in a nutshell

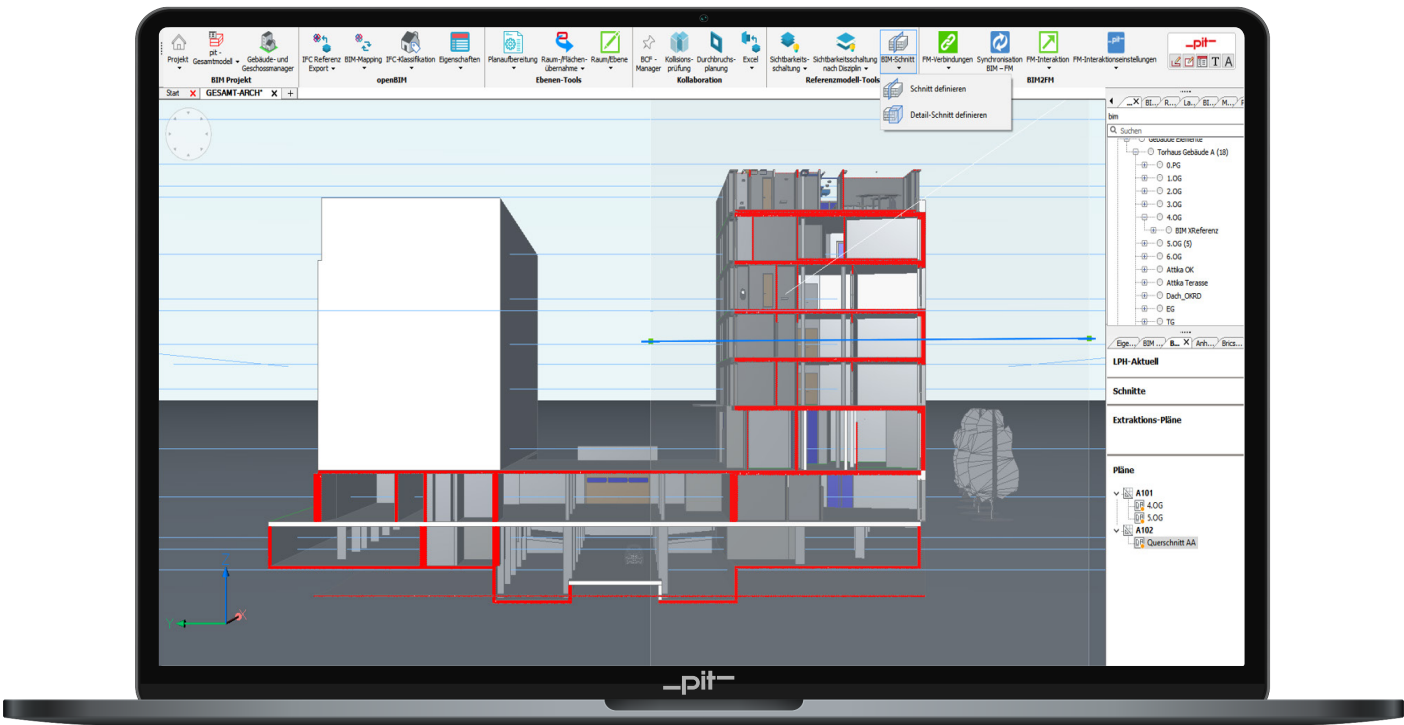
- ✓ BIM modeling in DWG
- ✓ Smart, AI-based BIM modeling features
- ✓ Full IFC interoperability (IFC 2x3, IFC 4)
- ✓ Simple mapping to different classification systems such as CAFM-Connect
- ✓ Import of Revit models
- ✓ Collaboration on the basis of BCF
- ✓ Performant model editing through a lean data model
- ✓ Model preparation and drawing derivation
- ✓ Fully integrated into the pitEcoSystem (design, build, operate)





# BIM4FM with pitCAD

Complete data integration without loss of information from the initial planning phase in pitCAD Ultimate through to real estate operations with pitFM.



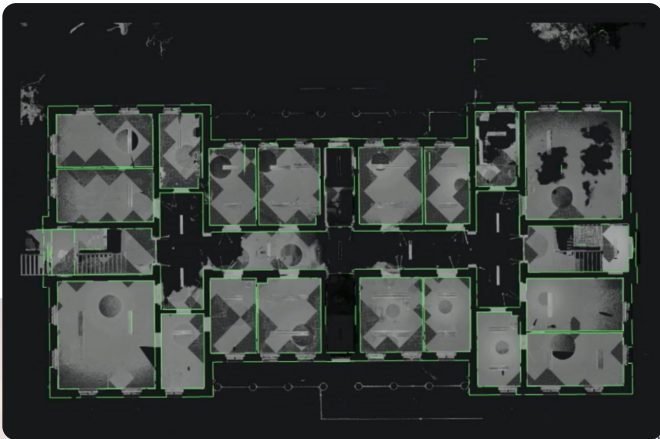
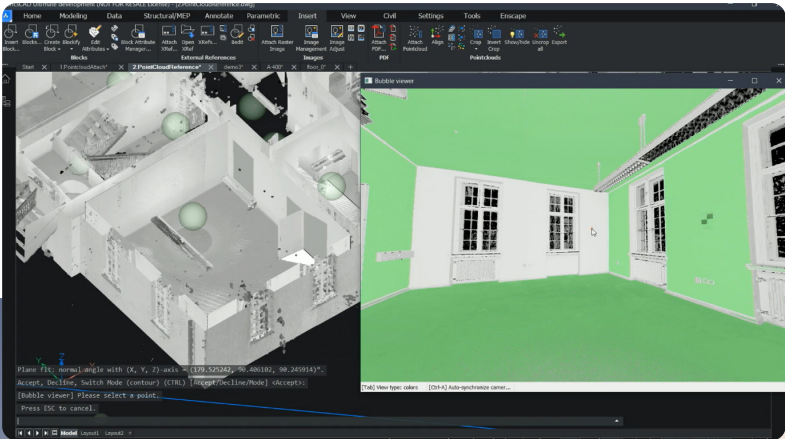
## BIM4FM in a nutshell with pitCAD Ultimate

- ✓ Smarte Mapping Funktionalitäten zur Verknüpfung von as built und FM Modell
- ✓ Support for various classification systems (IFC, CAFM-Connect etc.)
- ✓ Model preparation and integration for pitFM (geometry and semantics)
- ✓ Derivation of performant 2D floor plans and schematics
- ✓ Linking geometry and semantics in pitFM
- ✓ Modeling tool for conversions during operation (construction in existing buildings)
- ✓ Support of IFC 2x3 and IFC 4, as well as import of Revit models
- ✓ Preparation of 3D scan data (point clouds)
- ✓ Automatic floor detection
- ✓ Derivation of 2D floor plans (area recognition, polygonization)

# BIM4FM #3

## SCAN2BIM

With just a few mouse clicks from the point cloud to the intelligent 3D model.  
Smart tools for digitizing your inventory.



Room: Meetingroom  
Room\_Id: R\_235  
Usage: NUF2.3  
Area: 115 m²  
Status: Available for booking

Equipment: Full air conditioning unit Meeting zone  
Obj\_Id: RLT\_301  
Installation location: Technical center  
Status: Operational





## Der pitCAD Ultimate Modules kit

### pitCAD ULTIMATE

The stable CAD basis for your planning tasks, whether 2D or 3D. And all in a familiar DWG environment.

### BIM

3D BIM modeling with AI-based features for efficient work in openBIM projects. Supports IFC2x3, IFC4 and BCF. A variety of modeling features for the planning phase as well as Scan2BIM functionalities for BIM in existing buildings.

### Communicator

Import and export of 3D CAD data from common CAD applications (imports seamlessly geometry and PMI data).

### Heating and plumbing

Smart features for heating and sanitary planning. Supports schematic, floor plan, 2D/3D pipe construction.

### BIM4FM

Seamless integration of the BIM information model (geometry and alphanumerics) into the CAFM system pitFM. Smart mapping features and support for various classification standards such as IFC or CAFM-Connect.

### Solar

Intelligent connection of the calculation software from SOLAR-COMPUTER. Supports, among other things Heating/cooling load calculation.

### Ventilation

Smart features for MEP ventilation planning. Supports schematic, floor plan, 2D/3D system design, sections and perspectives.

### Electric

Smart features for MEP electrical planning. Supports 2D/3D installation diagrams and circuit diagrams.

Your sustainable 2D/3D planning tool for the entire life cycle, from the initial planning phase in the BIM project to construction in existing buildings with Scan2BIM.





**Digital solutions for sustainable  
real estate management.  
From planning to building operation.**

**One for All**

