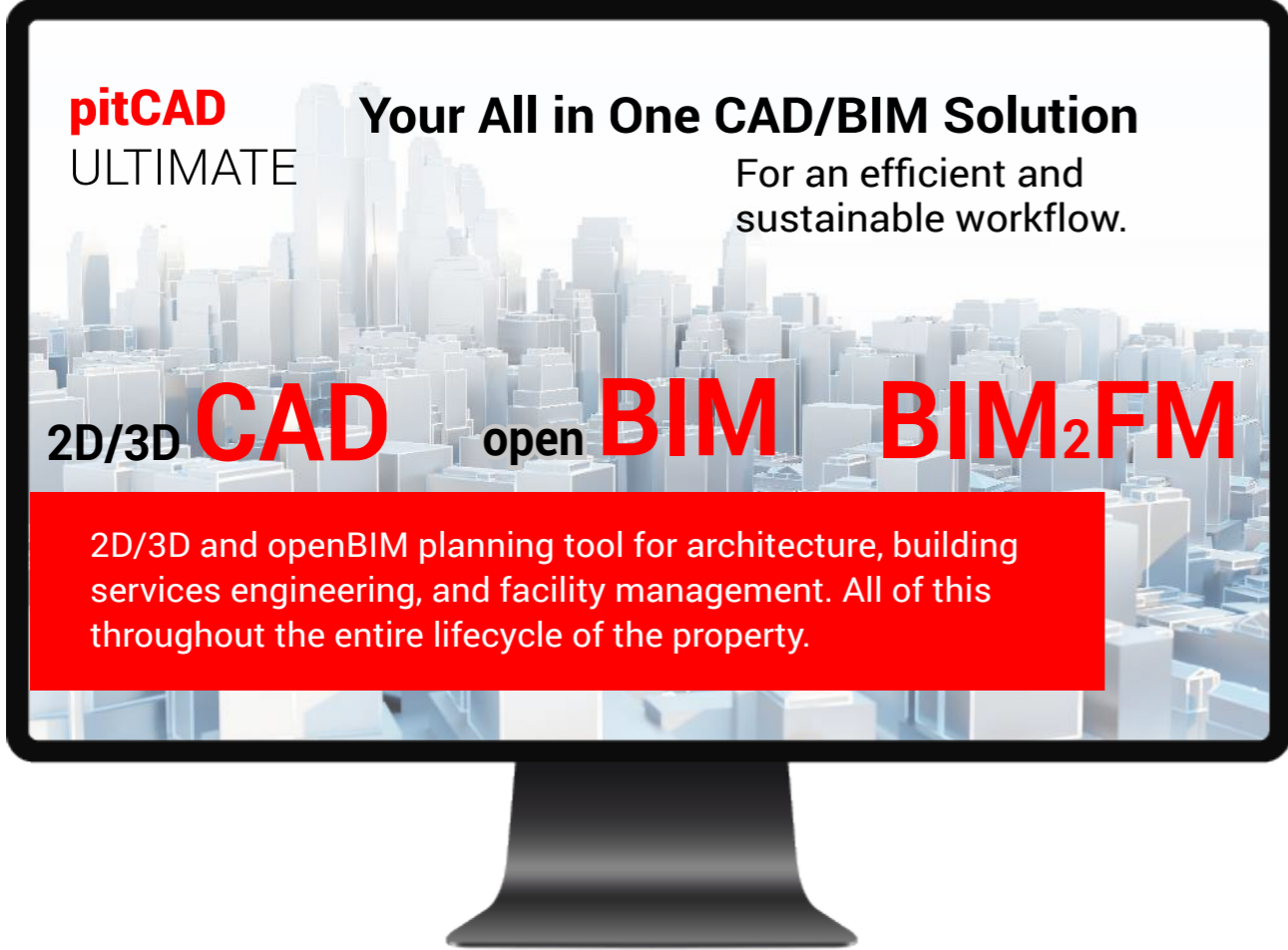# pitCAD ULTIMATE

CAD/BIM Planning Tool

pit

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 BIM2FM Integration

pit
ONE FOR ALL

pitCAD ULTIMATE
Your All in One CAD/BIM Solution

For an efficient and sustainable workflow.

2D/3D CAD   open BIM   BIM₂FM

2D/3D and openBIM planning tool for architecture, building services engineering, and facility management. All of this throughout the entire lifecycle of the property.

✓ 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

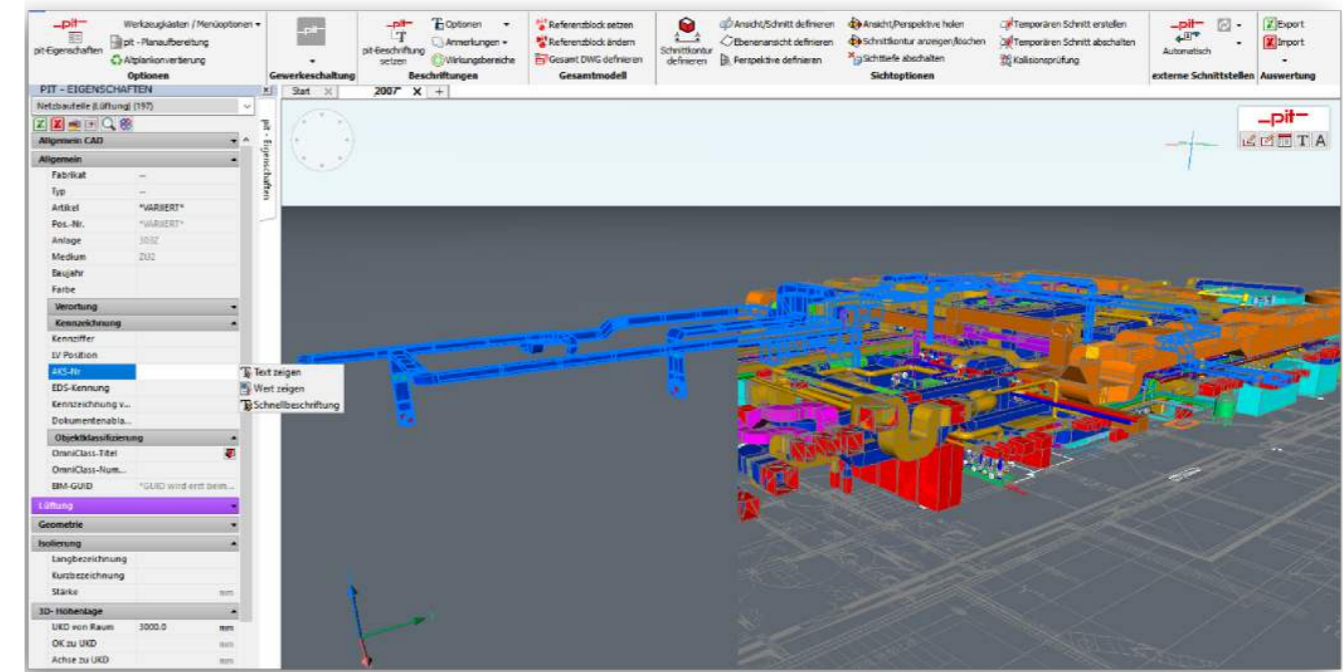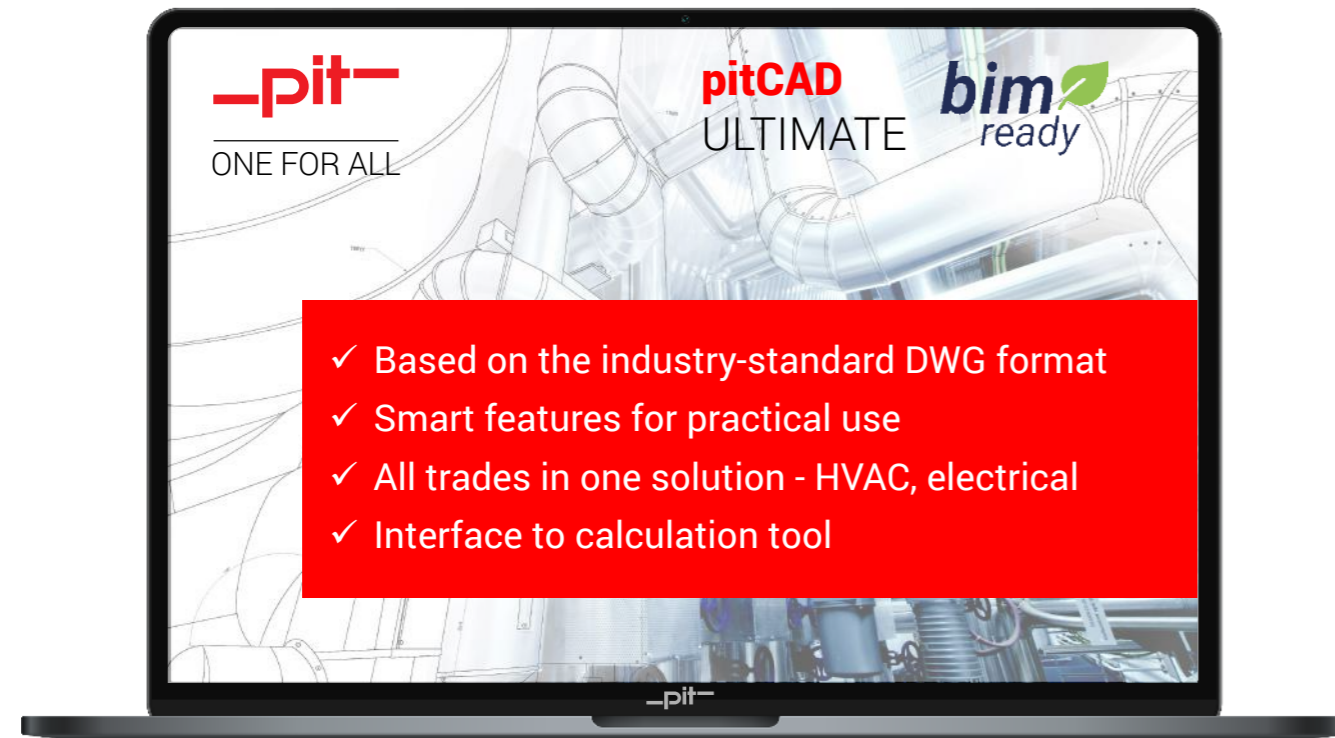Expansion modules for the flexible expansion of pitCAD Ultimate to meet your individual requirements

Module

➢ BIM
➢ Communicator
➢ Heating and sanitary
➢ Ventilation
➢ Electric
➢ Solar
➢ BIM2FM

➕ **pit 365 Maintenance & Support**

pitCAD ULTIMATE

ONE FOR ALL

pitCAD ULTIMATE — bim ready

- ✓ Based on the industry-standard DWG format
- ✓ Smart features for practical use
- ✓ All trades in one solution - HVAC, electrical
- ✓ Interface to calculation tool

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 pitKlick
- ✓ 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
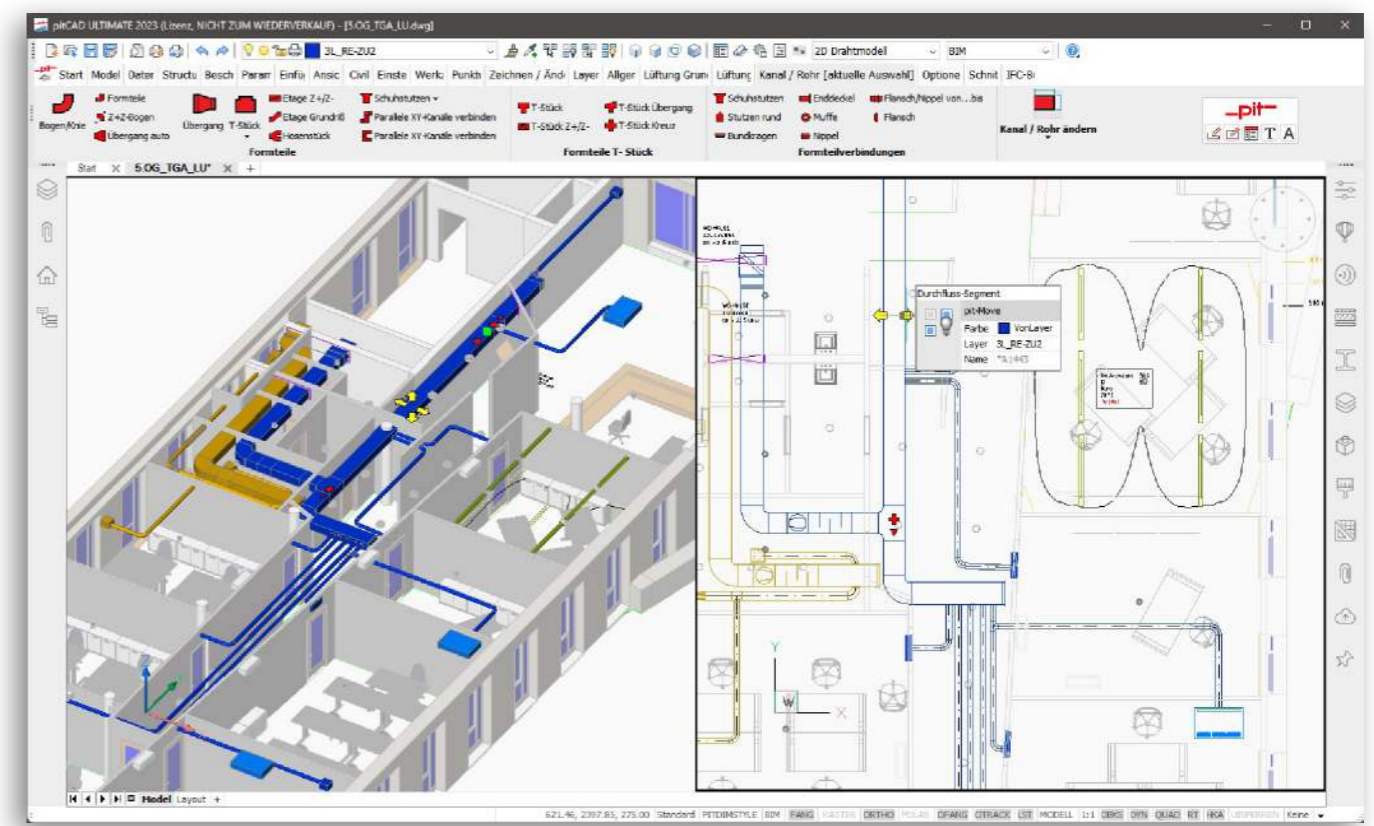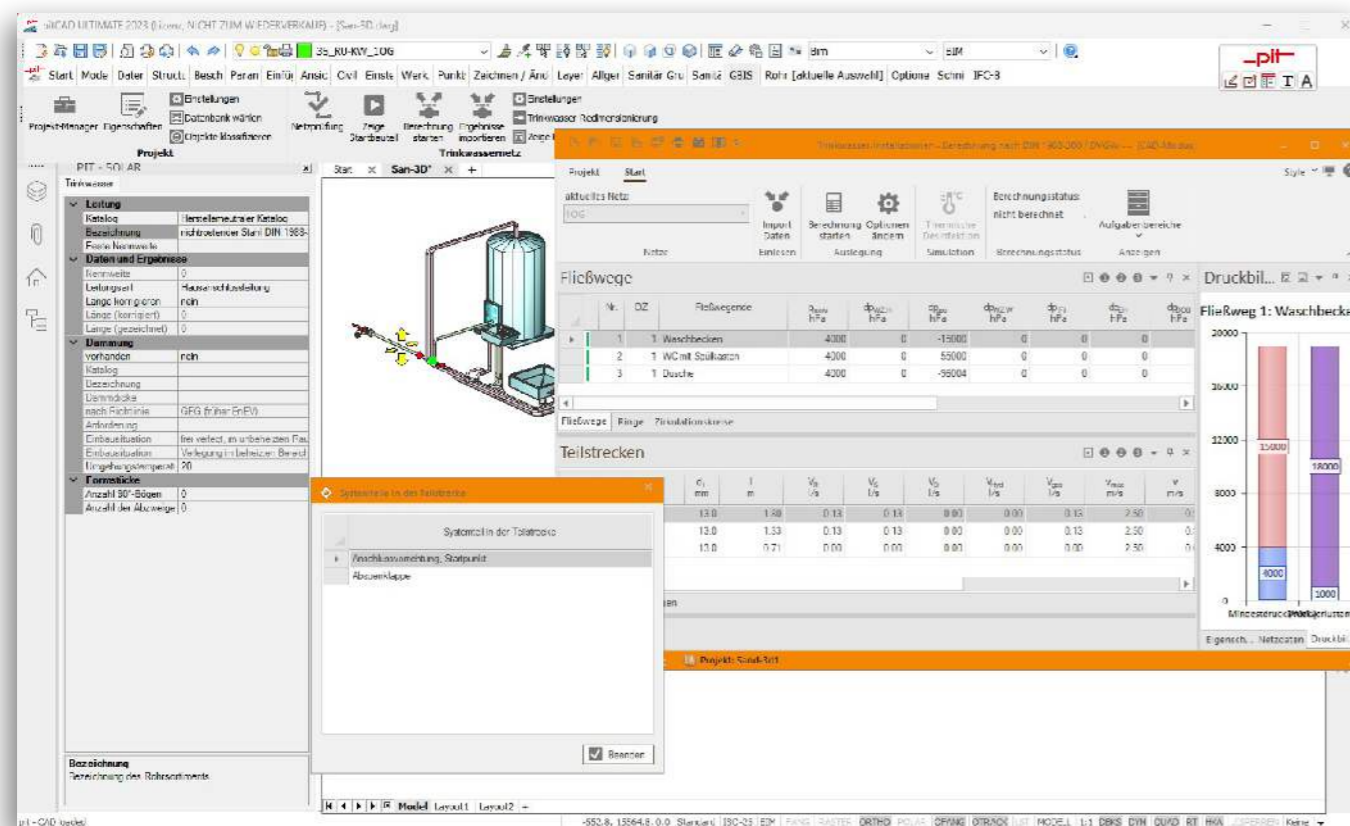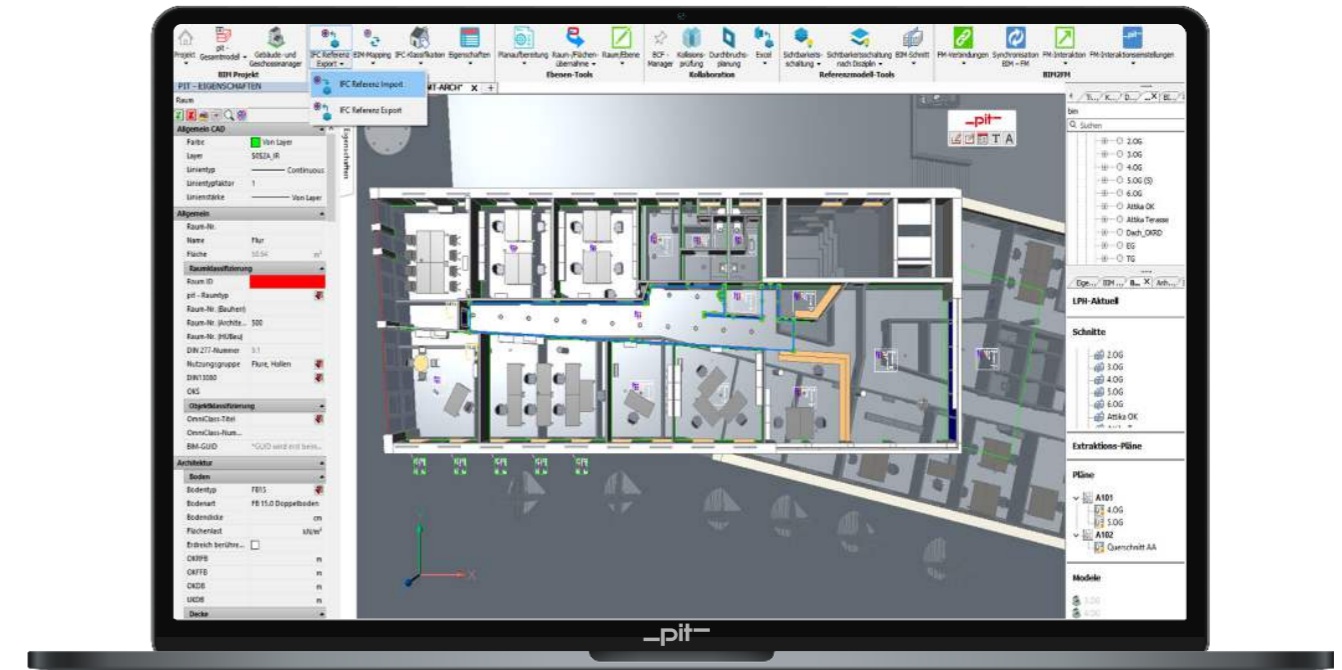- ✓ Fully integrated into the pitEcoSystem (plan, build, operate)

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.
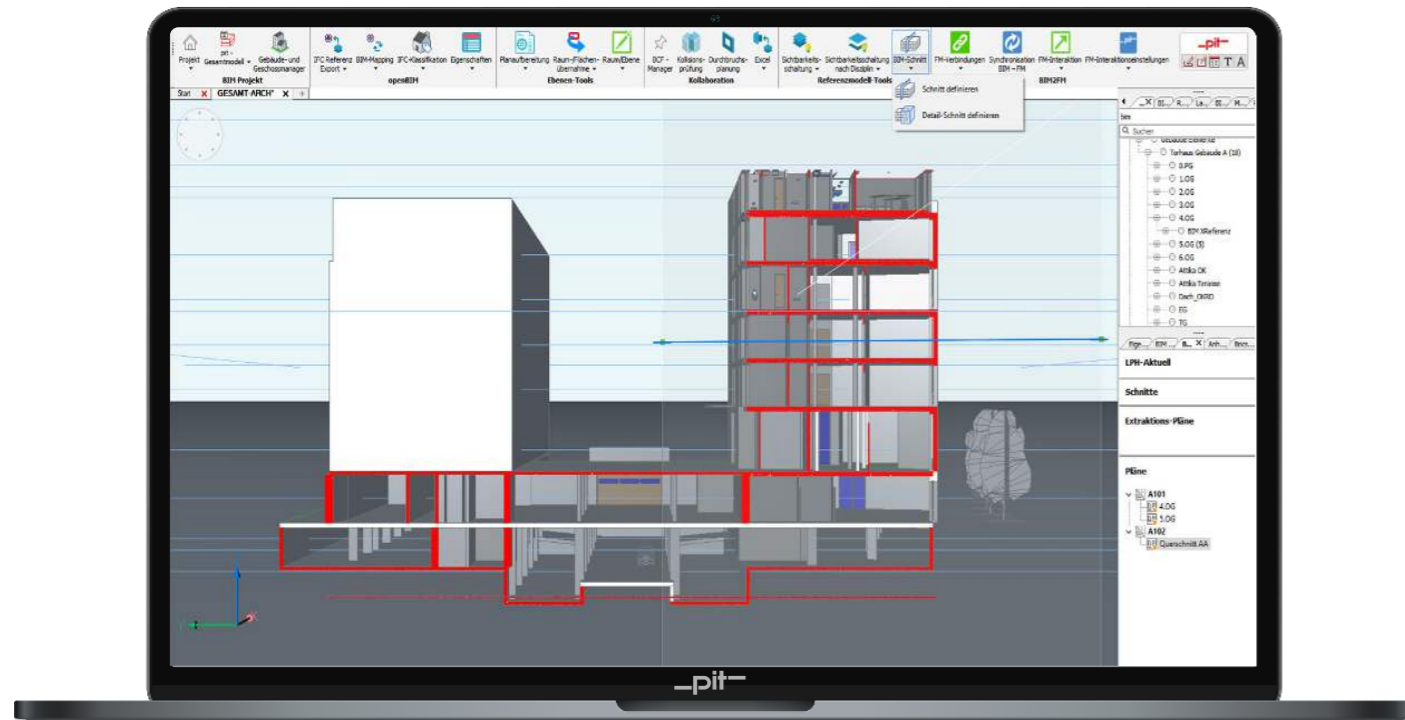
pitCAD Ultimate in a nutshell

- ✓ 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
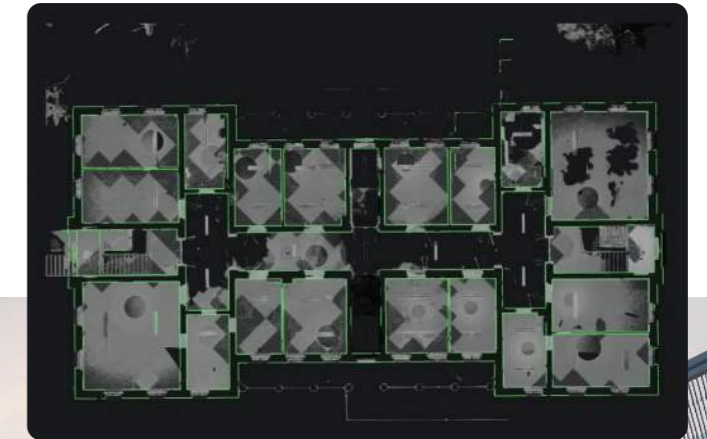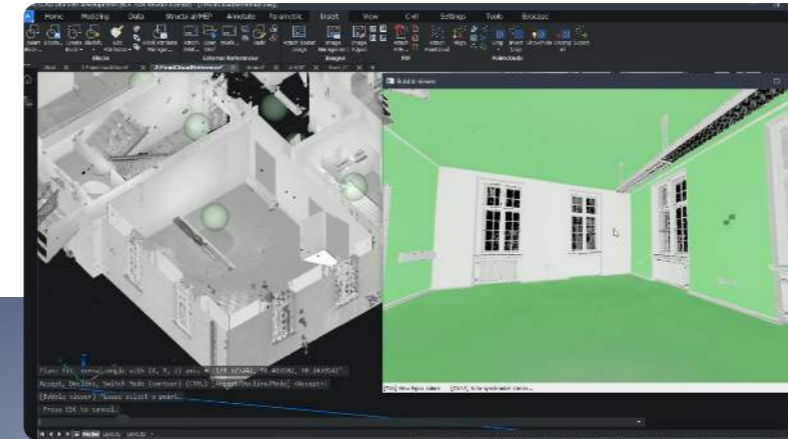- ✓ Fully integrated into the pitEcoSystem (design, build, operate)

BIM2FM with pitCAD

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

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

BIM2FM 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)

pitCAD ULTIMATE

Our CAD solution grows with your requirements and tasks. Therefore, we have chosen a modular approach in development. You only purchase the modules that you actually need to accomplish your tasks.

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.

BIM2FM

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.

_pit—

**Digital solutions for sustainable
real estate management.**

From planning to building operation.

One for All

..stay connected