





11:00 – 11:20 BIM tool overview. Cype Open BIM Workflow







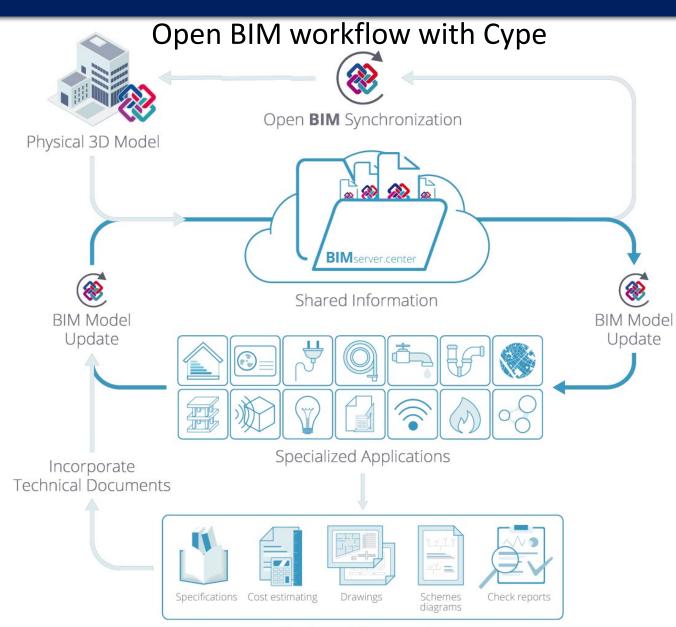


Summary:

- Open BIM workflow with Cype
- CYPECAD
- Cype Architecture
- Open BIM Construction systems
- Open BIM quantities
- CypeTherm EPlus









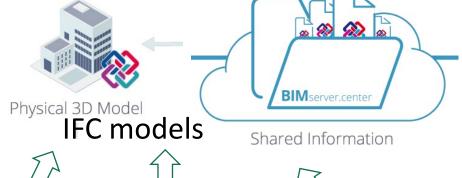


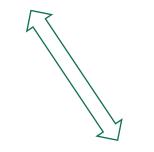


Open BIM workflow with Cype











CYPECAD

Structure designer



Architectural

BIM modeller



BIM library of envelopes and partitions



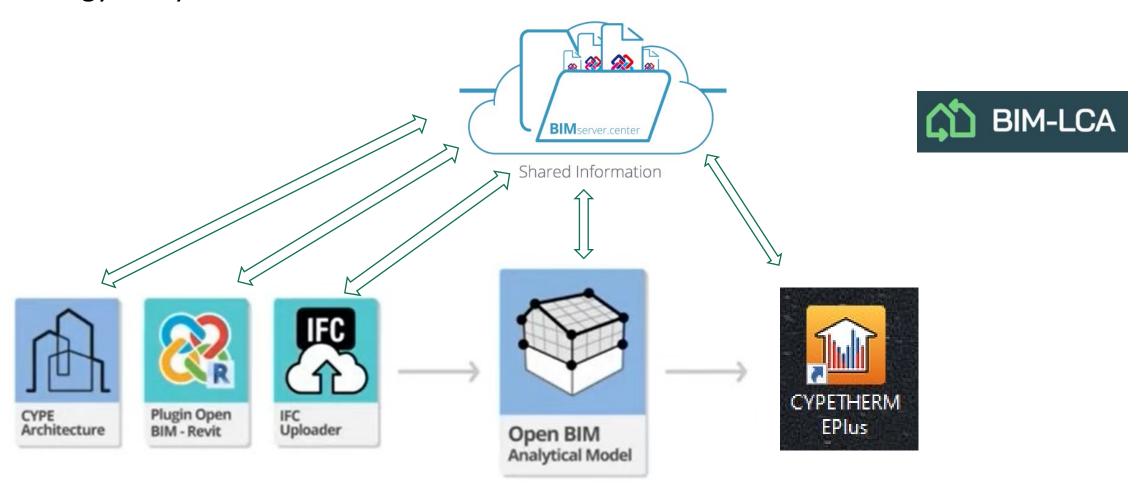
Quantities and budget _A





Open BIM workflow with Cype

Energy analysis workflow





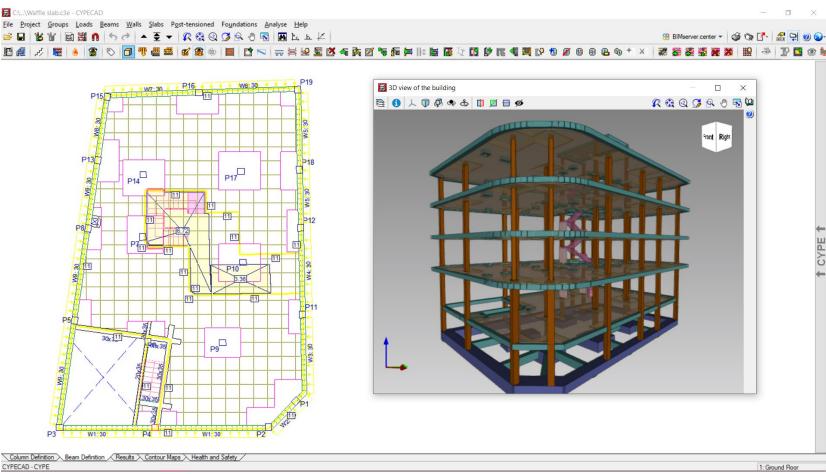






Analysis and Design of Building Structure

CYPECAD







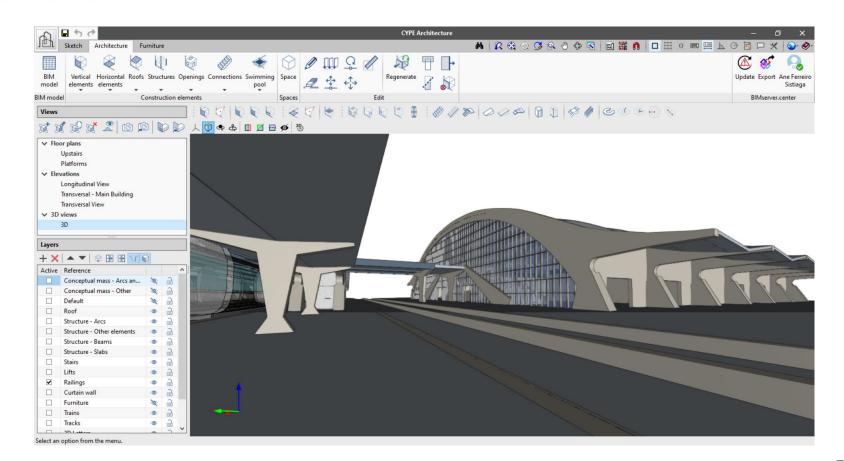




CYPE Architecture

Architectural BIM modeller

CYPE Architecture







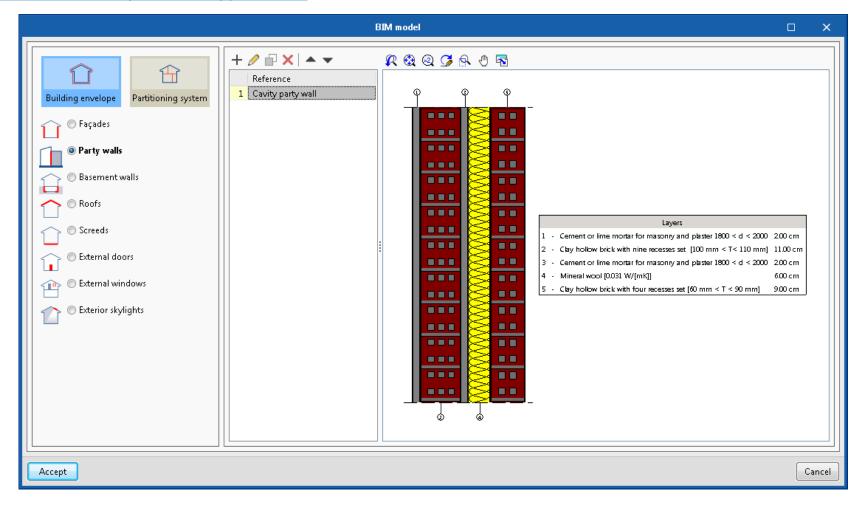


BIM-LCA



Open BIM Construction Systems

Open BIM Construction Systems (cype.com)





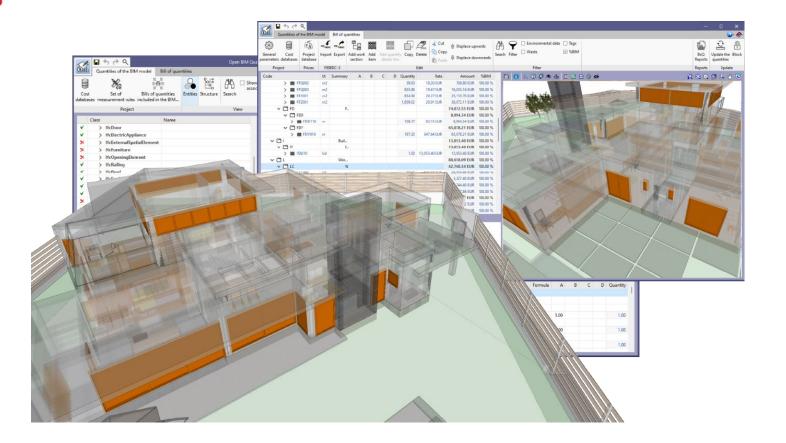


Open BIM Quantities

Open BIM Quantities (cype.com)

Bill of Quantities - IFC model









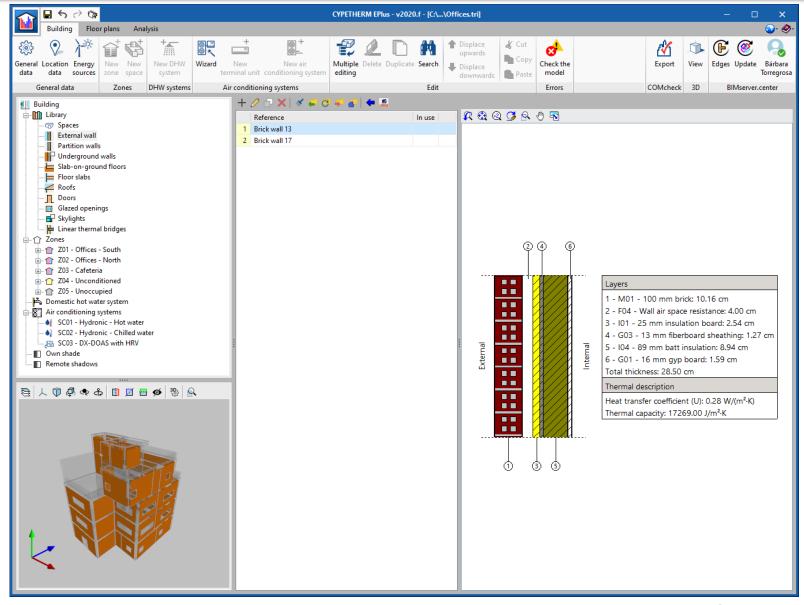




CYPETHERM EPlus

Building Energy Analysis

CYPETHERM EPlus



Learning Activity Cartagena - January 1st - BIM day



Building Energy Analysis

CYPETHERM EPlus

Features and results output

Among the main features of CYPETHERM EPlus the most important ones are highlighted in the following sections:

Climate data

The program allows users to work with any EnergyPlus Weather Format (EPW) climate data file, available on the official EnergyPlus™ website.

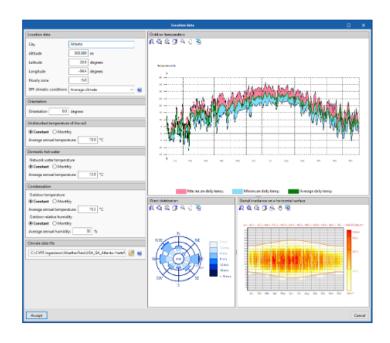
Predefined data and libraries

Materials

Materials from different international libraries such as ASHRAE or those of France, Portugal, Italy or Spain.

· Thermal bridges

Import of lineal thermal transmittance values from different international libraries, including the Atlas of thermal bridges of the ISO 14683 standard, the Spanish code CTE DA DB-HE / 3, or those defined in the French standard RT2012, as well as the calculation of lineal thermal transmittance by numerical analysis in accordance with ISO 10211, integrating the calculation performed by the CYPETHERM BRIDGES program.



HVAC systems

Selection of HVAC equipment with data defined by the manufacturers Daikin, Fujitsu, Saunier Duval, Toshiba and Vaillant.

Internal loads and schedules

Import of internal loads (occupation, ventilation, lighting and equipment) from ASHRAE manuals.







CYPETHERM EPlus

Building Energy Analysis

CYPETHERM EPlus

Calculation results

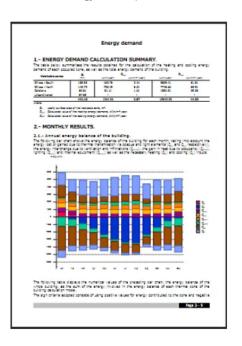
Some of the calculation results offered by the program include:

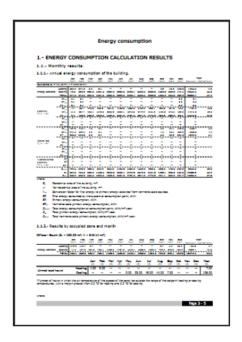
· Energy demand report

Results of the energy demand calculation, detailed by thermal zone.

• Energy consumption report

Results of the energy consumption calculation, detailed by thermal zone and energy vector.





Complementary reports and calculations

CYPETHERM EPlus also offers a series of additional features that broaden the results obtained by the program:

Condensation

Allows users to check for the presence of surface and interstitial condensation in accordance with ISO 13788, integrating the calculation carried out by the CYPETHERM HYGRO program into each construction system of the building's thermal envelope.

• Description of materials and construction elements

Report of the different construction elements present in the job along with their materials, quantities, transmission coefficients,









That's all

Thanks for your attention