



BUILDING INTEGRATED PHOTOVOLTAIC (BIPV): TRAINING WORKSHOP AND GUIDED TOUR

BIMSOLAR Software user story DEMO 3 (EMPA-EKZ by FLISOM)

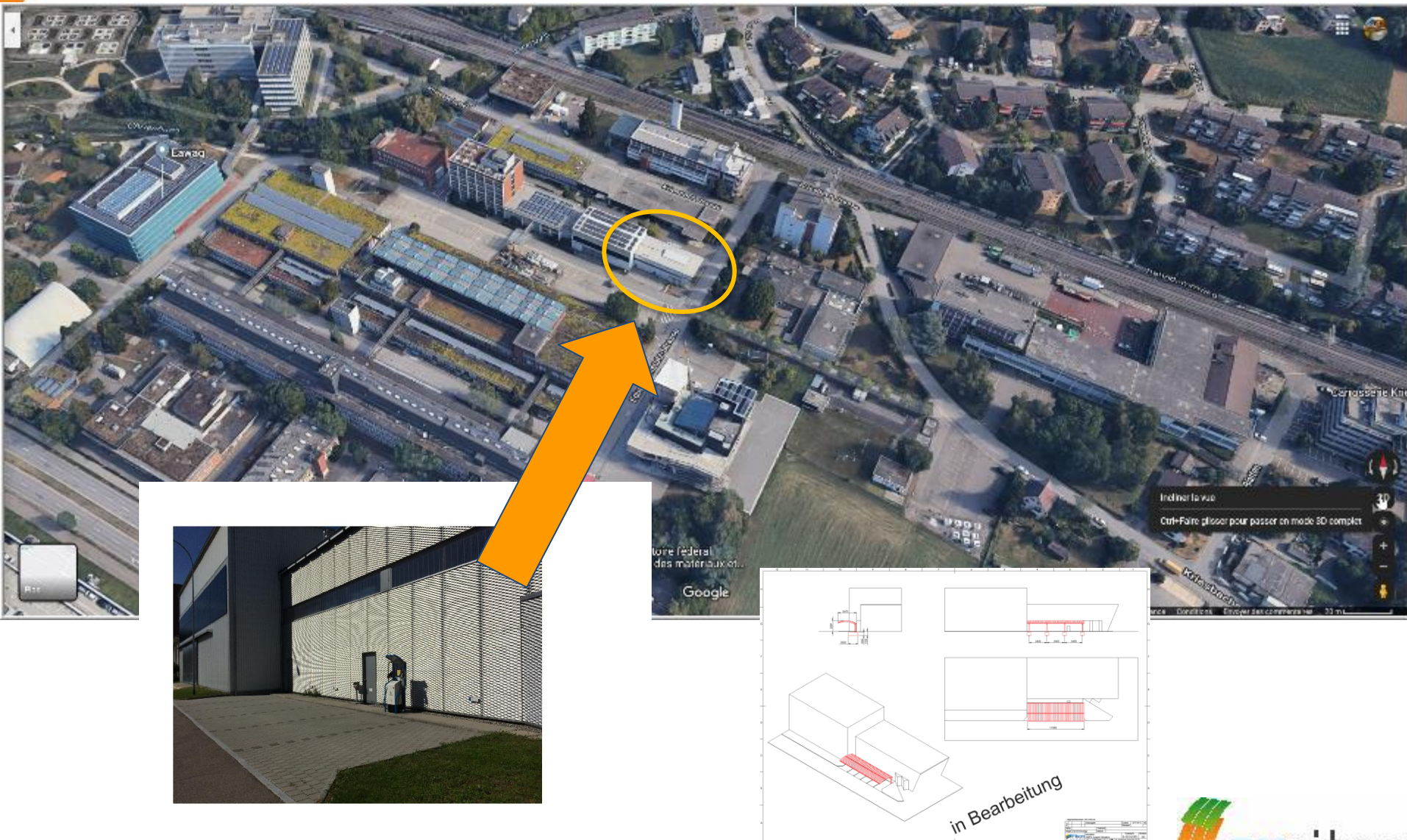
Philippe ALAMY, CADCAMation

EMPA Dübendorf, FLISOM, 13 Nov 2019

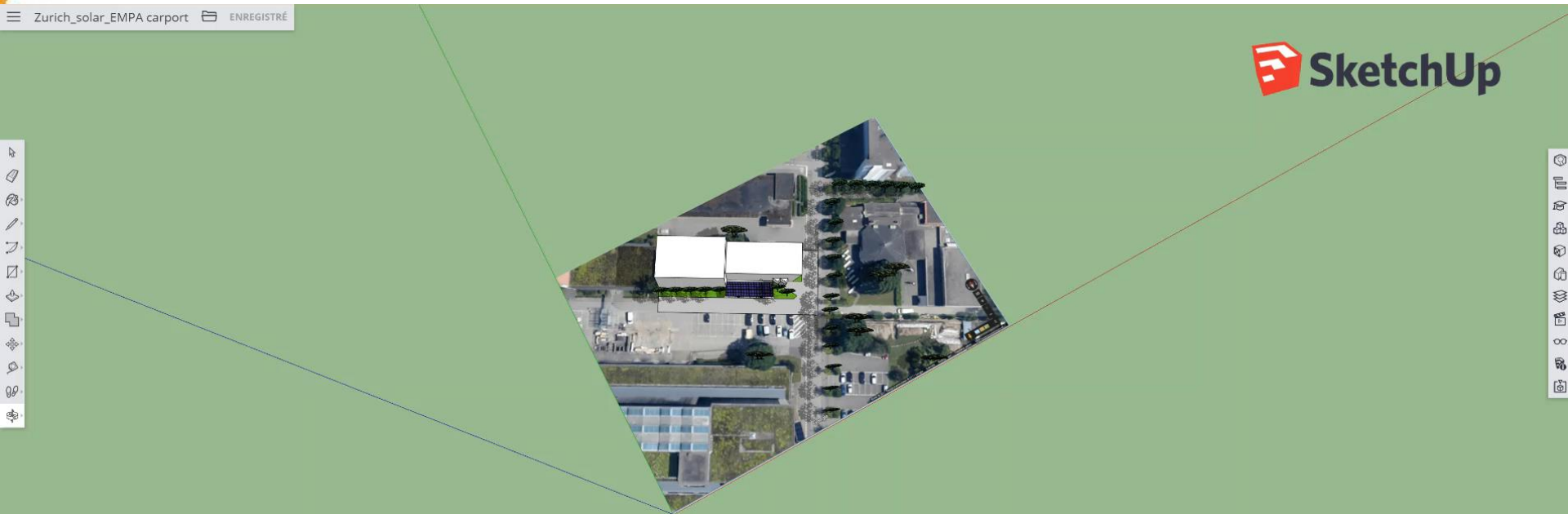


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and innovation programme under grant
agreement N° 691768*

Identify your project / Location with common tools

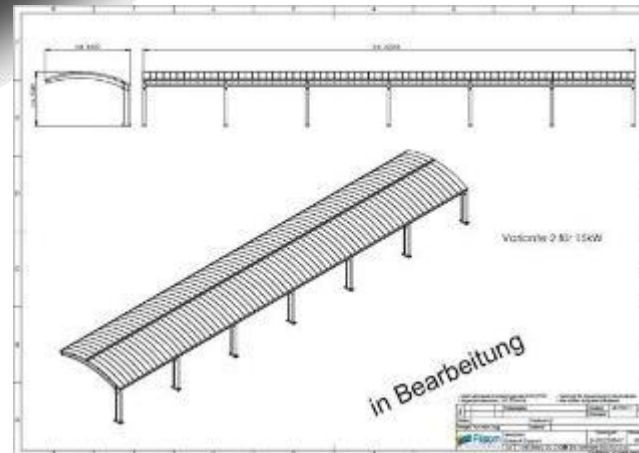
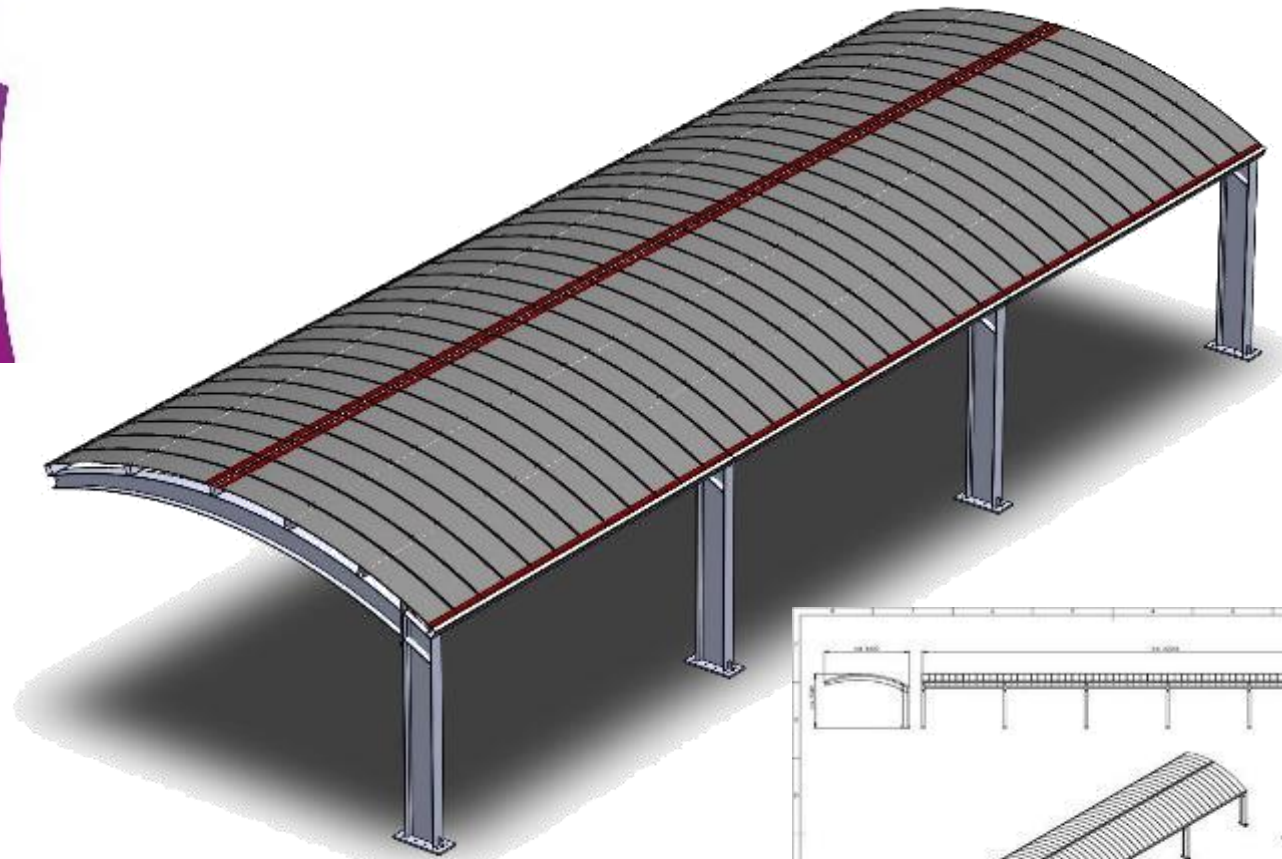


Sketch / Design your 3D model



This mock-up (from BEAR-ID Architects) is as accurate as possible speaking of geometry (global, walls, windows). You can already set-up your BIPV installation (grid)

Stick to architectural configuration for BIPV



PVsites module – for Carport
 Filson 3M-HF

Description
 This module is designed for the installation of solar panels on a carport structure.

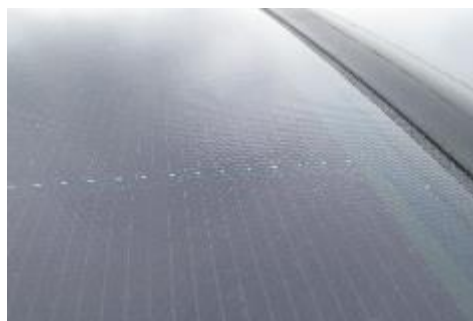
Dimensions
 Length: 2018mm
 Width: 1200mm

Parameter	Value	Unit	Value	Unit
Module length	2018	mm	2018	mm
Module width	1200	mm	1200	mm
Module area	2421.6	m²	2421.6	m²
Module weight	15.5	kg	15.5	kg
Module power	155	W	155	W
Module efficiency	18.5	%	18.5	%
Module temperature coefficient	-0.45	1/°C	-0.45	1/°C
Module degradation	0.5	%/year	0.5	%/year
Module warranty	10	years	10	years

Technical data
 Module type: 3M-HF
 Module power: 155W
 Module efficiency: 18.5%
 Module temperature coefficient: -0.45 1/°C
 Module degradation: 0.5 %/year
 Module warranty: 10 years

Notes
 1. The module is designed for the installation of solar panels on a carport structure.
 2. The module is designed for the installation of solar panels on a carport structure.

Aesthetic issues have to be anticipated



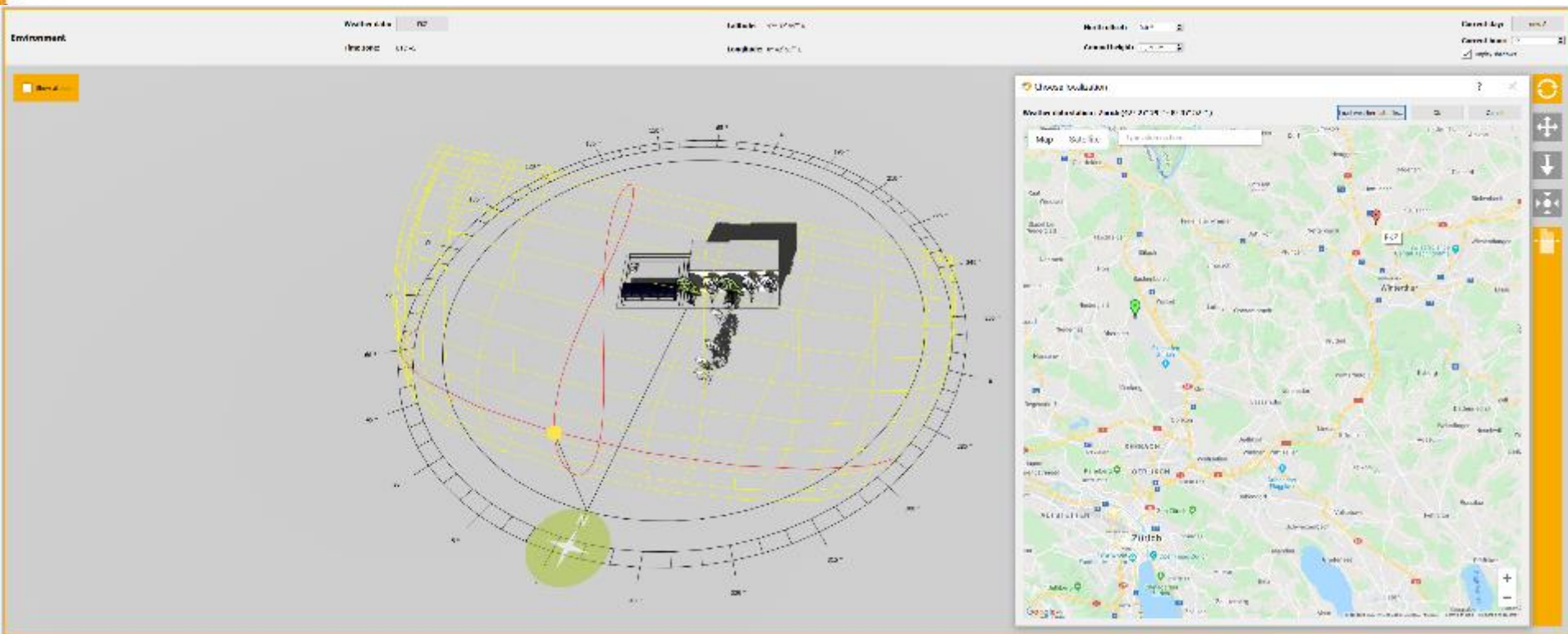
Video: BIPV modelling



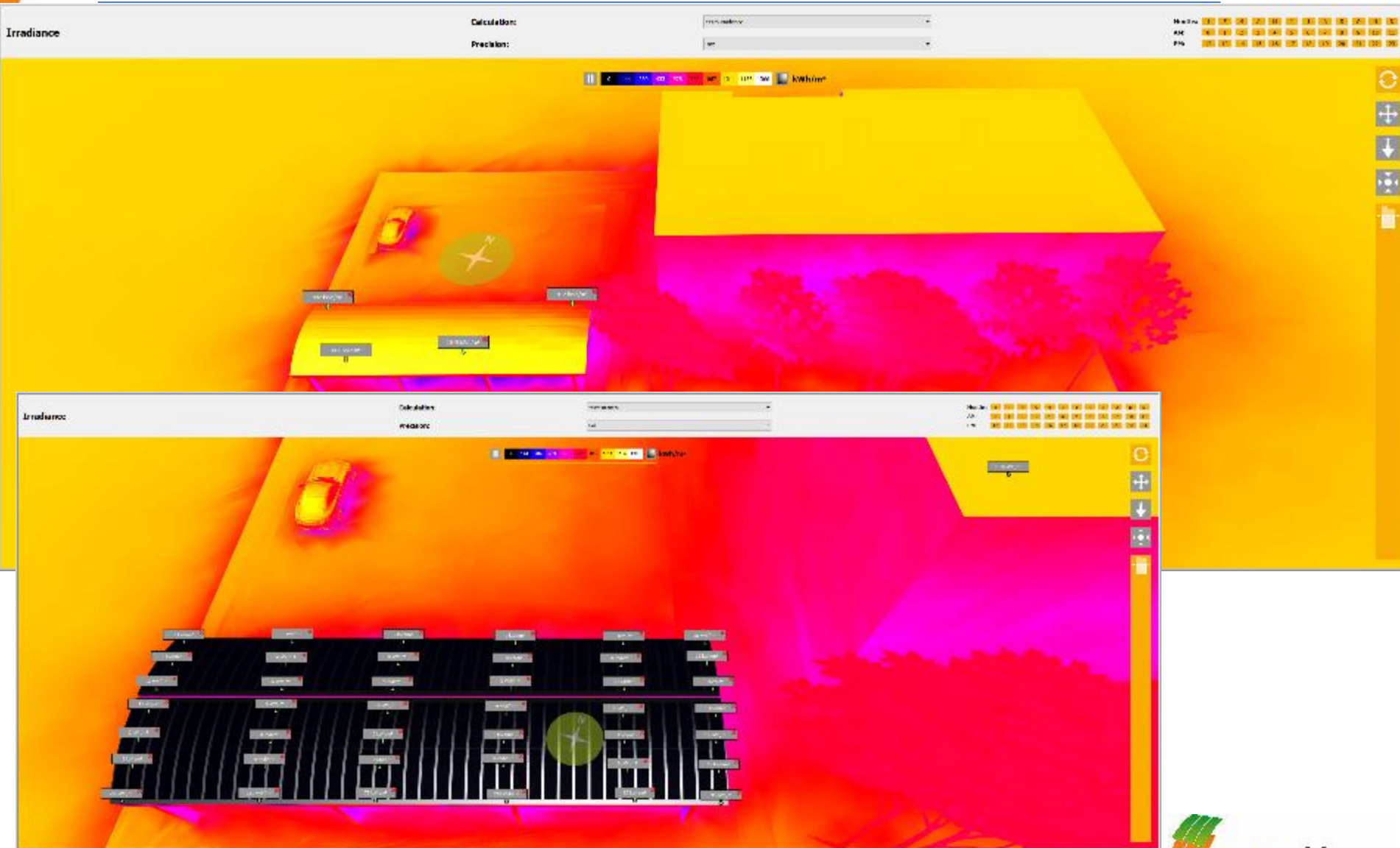
BIPV modelling

To SUMMARIZE...

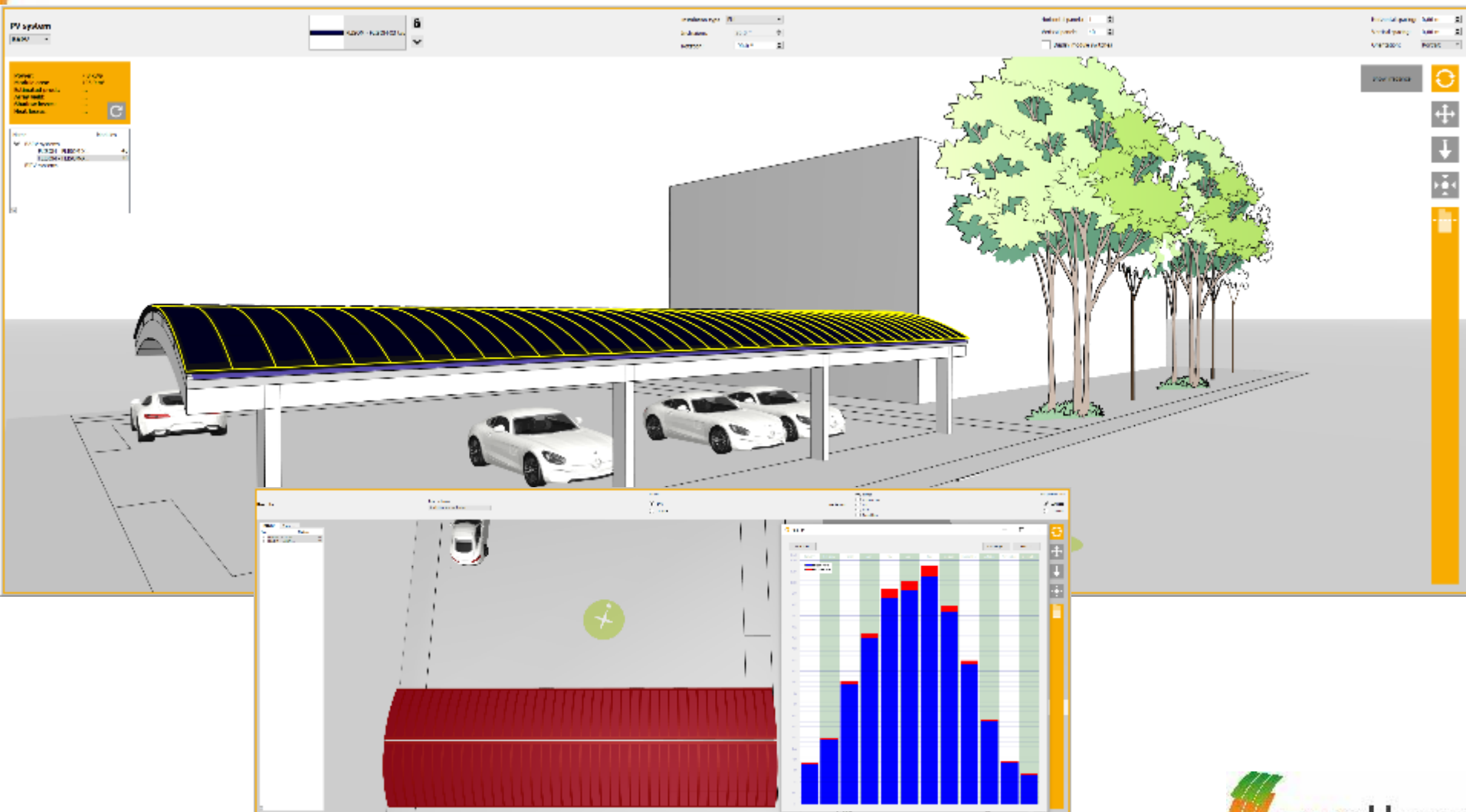
Inputs: 3D model importation / Geolocation / / Weather data



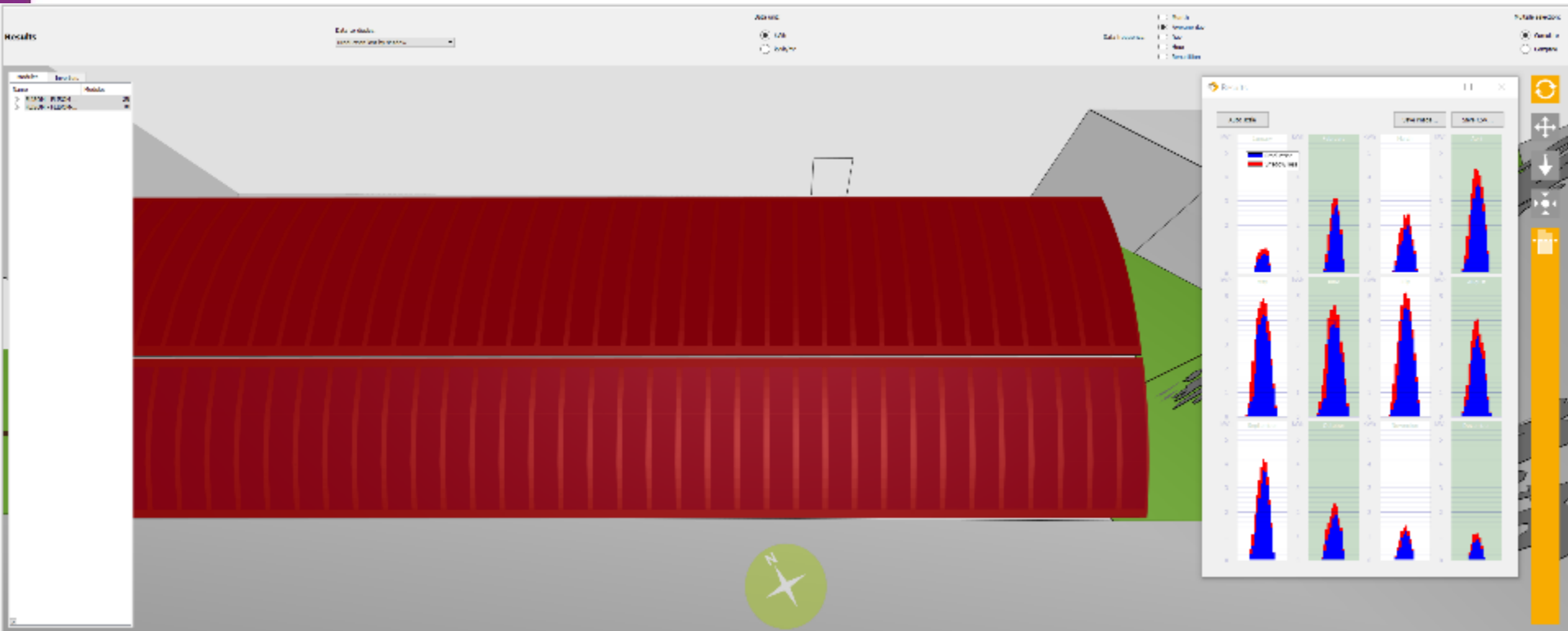
Irradiance – solar potential mapping



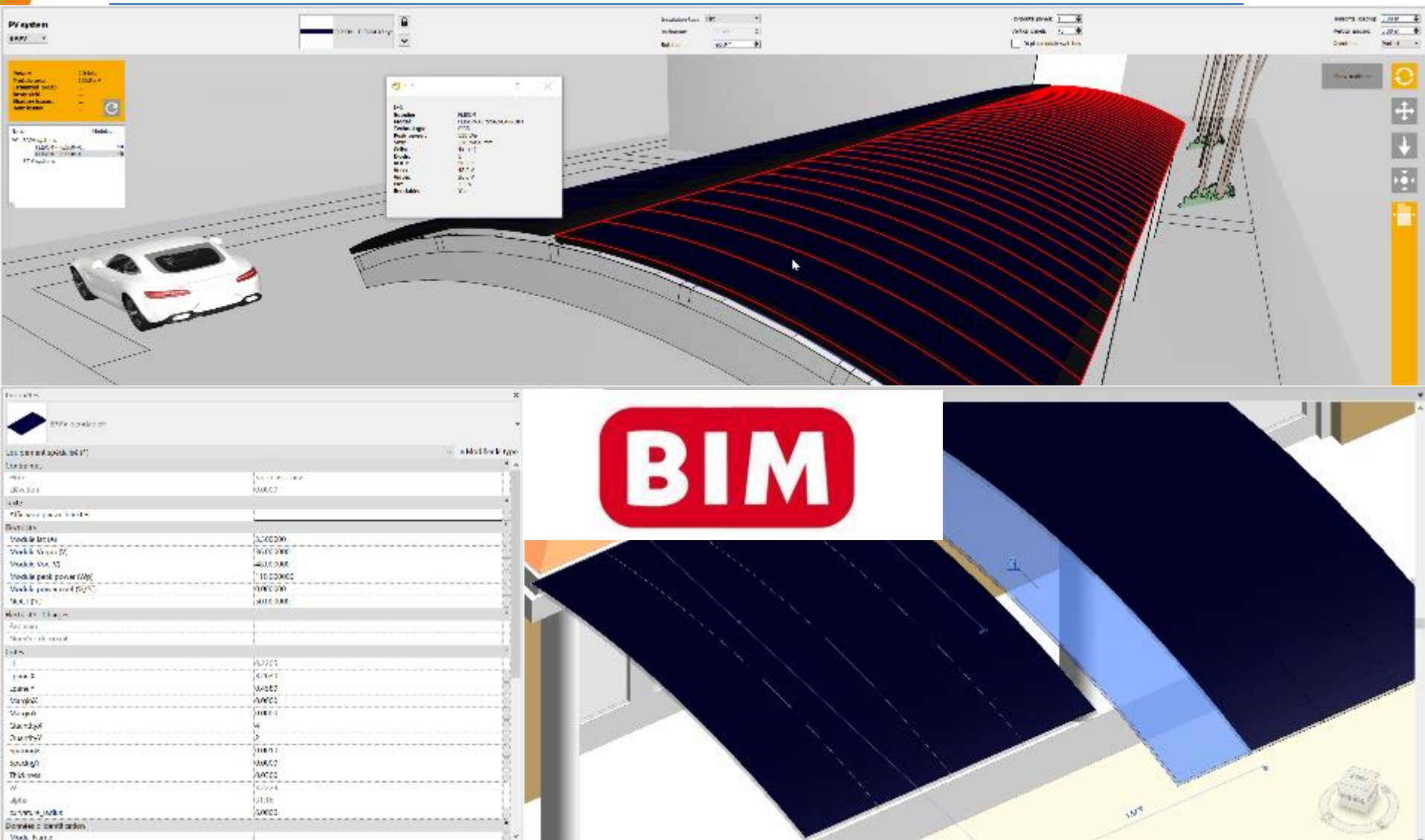
BIPV layout: build your virtual installation in 3D and get instant results (production, yield, losses)



Results: 3D display, csv exportation. Get DC production, losses, at element level, 1H to 1Y timestep - What if Analysis



X3-FLISOM BIM PVSITES objects





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