



OpenBuildings™
CONNECT Edition

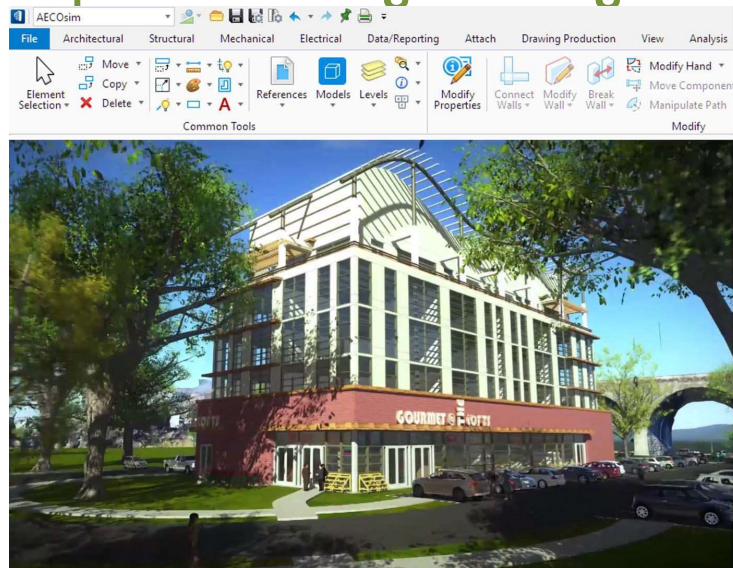
iNGs Info Deň 2019
Liptovský Mikuláš / Pezinok
Miloš Božík



OpenBuildings™
CONNECT Edition

BIM nástroj Bentley Systems
Počiatok vývoja okolo roku 1990

OpenBuildings Designer



Architektúra a PS



Skeletové konštrukcie



Vzduchotechnika



Elektro



Správa

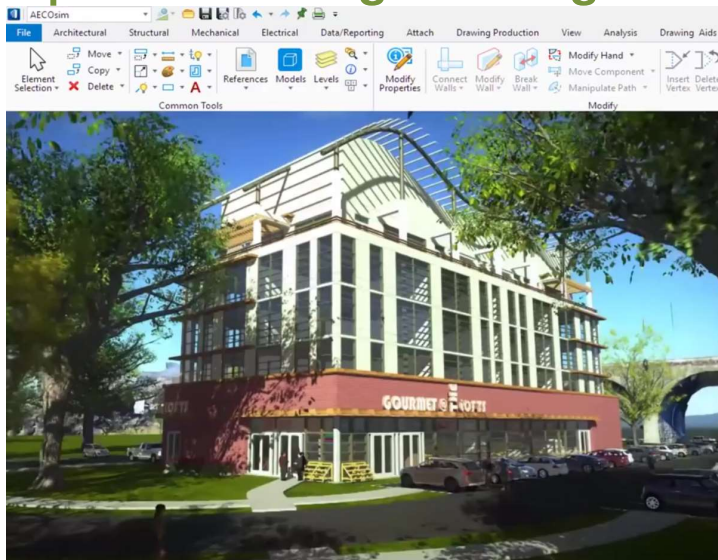
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OpenBuildings Designer



MicroStation



Clash



Luxology



Generative
Components



Conceptual
Modeling

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Naj dôvody na použitie

- Jednoduché ovládanie
- Architektúra a PS
- Parametrické 3D modelovanie
- Profesie
- Data Management & Reporting
- Hypermodeling
- Interoperabilita
- Integrácia Reality Modeling
- Vizualizácia

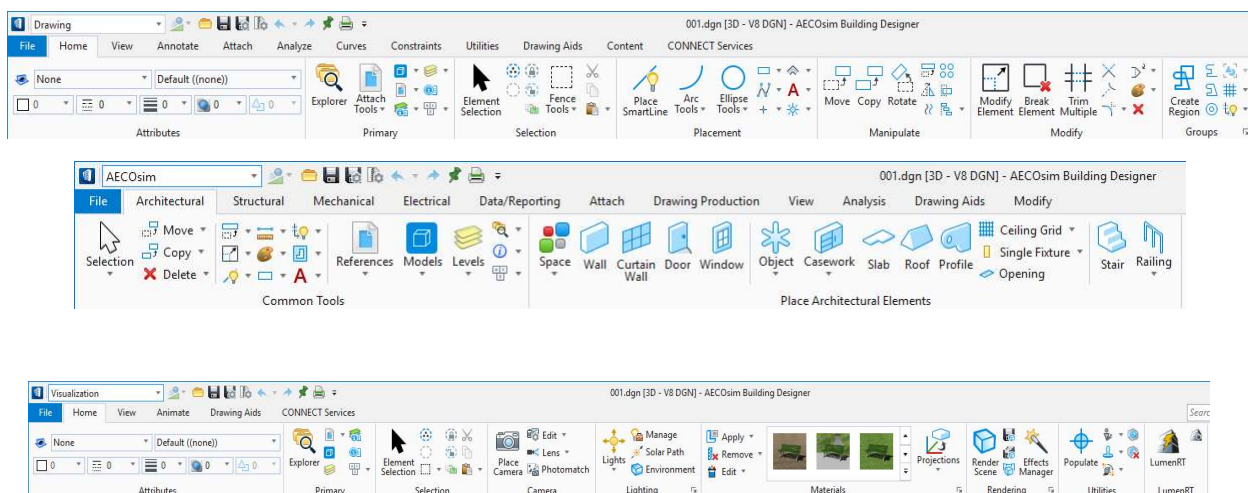
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Jednoduché ovládanie



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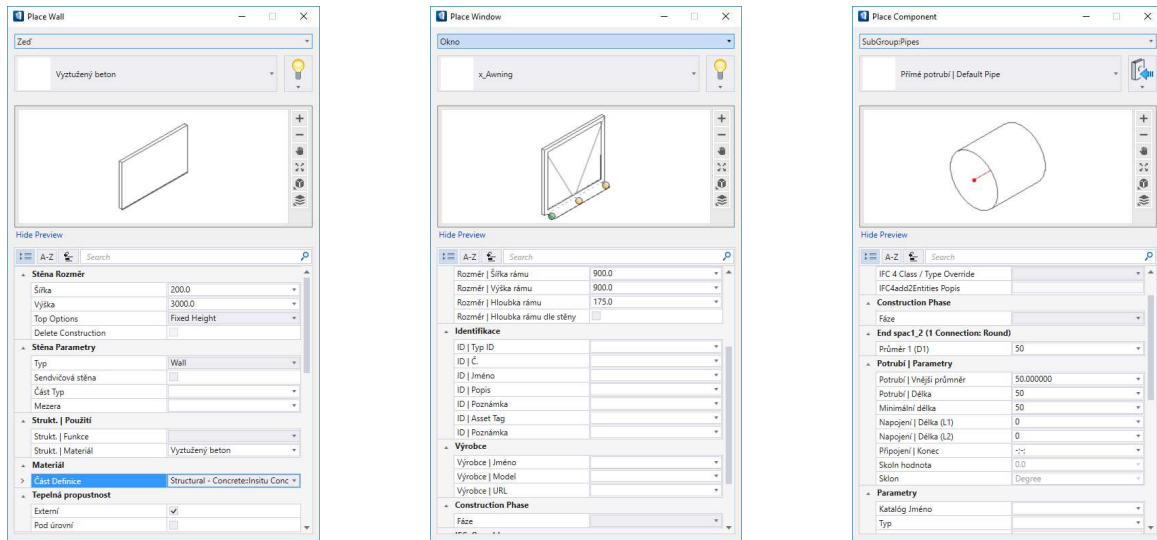
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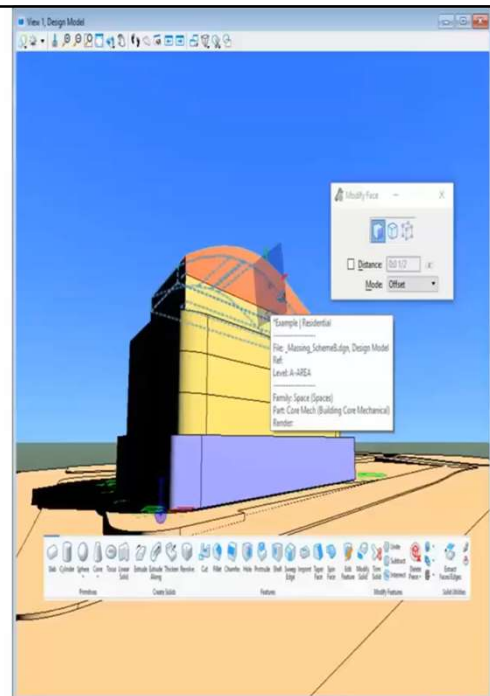
Jednoduché ovládanie



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Jednoduché ovládanie

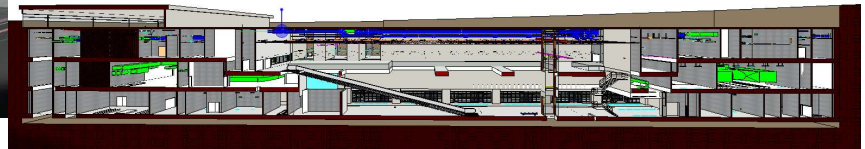
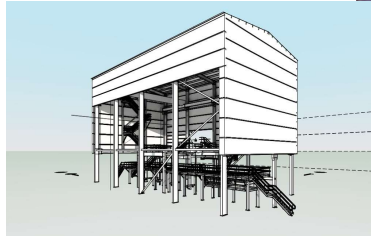
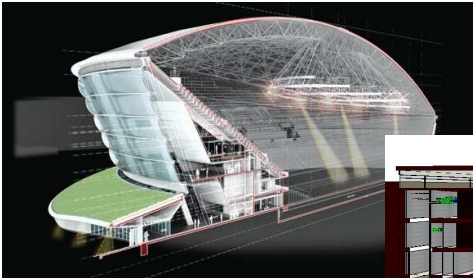
- Jednoduchá editácia geometrie
- Parametrické stavebné konštrukcie
 - Stena, doska, strecha
 - Okno, dvere ...
 - Schodisko, rampa, eskalátor
- Zariadenie predmety
- Parametrické predmety



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Oblasti využitia

- Bývanie a občianska vybavenosť
- Priemyselné objekty
- Infraštruktúra



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Výpočet objemov a plôch

The screenshot displays two windows of the DataGroup Explorer software. The top window shows a table of calculated values for a 'Concrete Slab'. The bottom window shows a table of calculated values for various wall components.

Instance Name	Volume (Gross)	Volume (Net)	Side Area (Gross)	Side Area (Net)	Top Area (Gross)	Top Area (Net)	Bottom Area (Gross)	Bottom Area (Net)
Concrete Slab	396.2328 cu. ft.	364.8998 cu. ft.	86.14 (Sq Ft)	86.14 (Sq Ft)	396.23 (Sq Ft)	364.90 (Sq Ft)	396.23 (Sq Ft)	364.90 (Sq Ft)

Part Definition	Area Left (Gross)	Volume (Gross)	Volume (Net)	Area Right (Gross)	Area Left (Net)	Area Right (Net)	Length
WallComponent:Brick	113.14 (Sq Ft)	34.1773 cu. ft.	34.1773 cu. ft.	113.14 (Sq Ft)	113.14 (Sq Ft)	113.14 (Sq Ft)	9' 5 1/8"
WallComponent:CMU	113.14 (Sq Ft)	53.0338 cu. ft.	53.0338 cu. ft.	113.14 (Sq Ft)	113.14 (Sq Ft)	113.14 (Sq Ft)	9' 5 1/8"
WallComponent:Insulation_Rigid	113.14 (Sq Ft)	18.8565 cu. ft.	18.8565 cu. ft.	113.14 (Sq Ft)	113.14 (Sq Ft)	113.14 (Sq Ft)	9' 5 1/8"
WallComponent:MetaFurring	75.43 (Sq Ft)	5.4998 cu. ft.	5.4998 cu. ft.	75.43 (Sq Ft)	75.43 (Sq Ft)	75.43 (Sq Ft)	9' 5 1/8"
WallComponent:GypsumBoard	75.43 (Sq Ft)	3.9284 cu. ft.	3.9284 cu. ft.	75.43 (Sq Ft)	75.43 (Sq Ft)	75.43 (Sq Ft)	9' 5 1/8"

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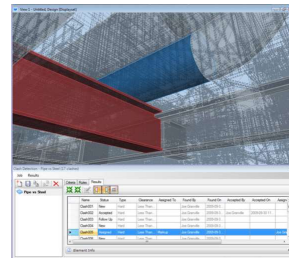
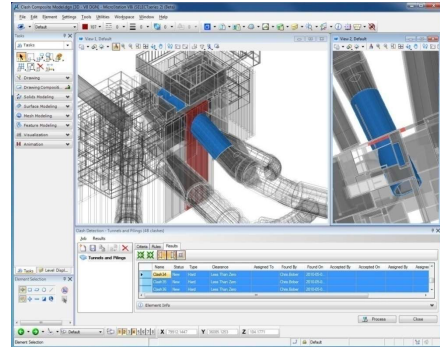
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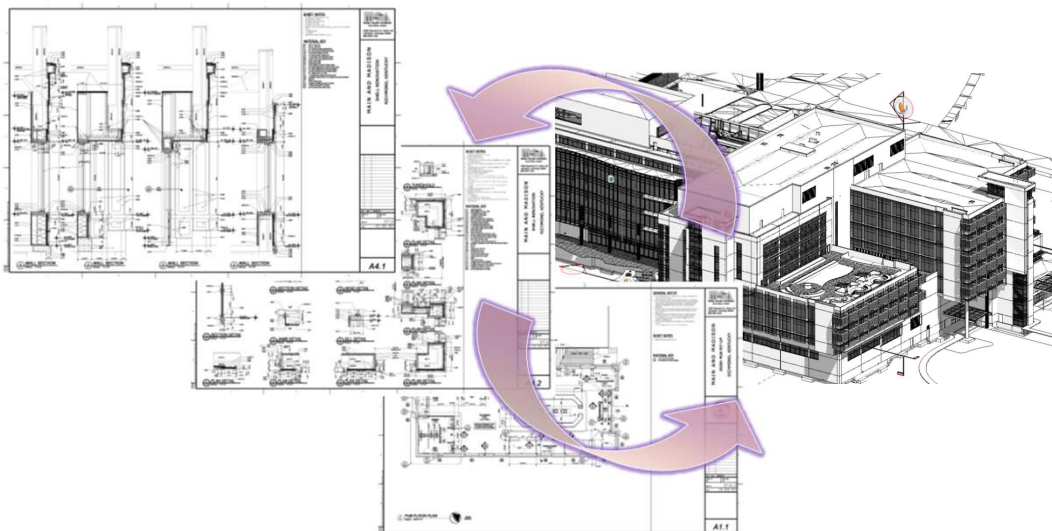
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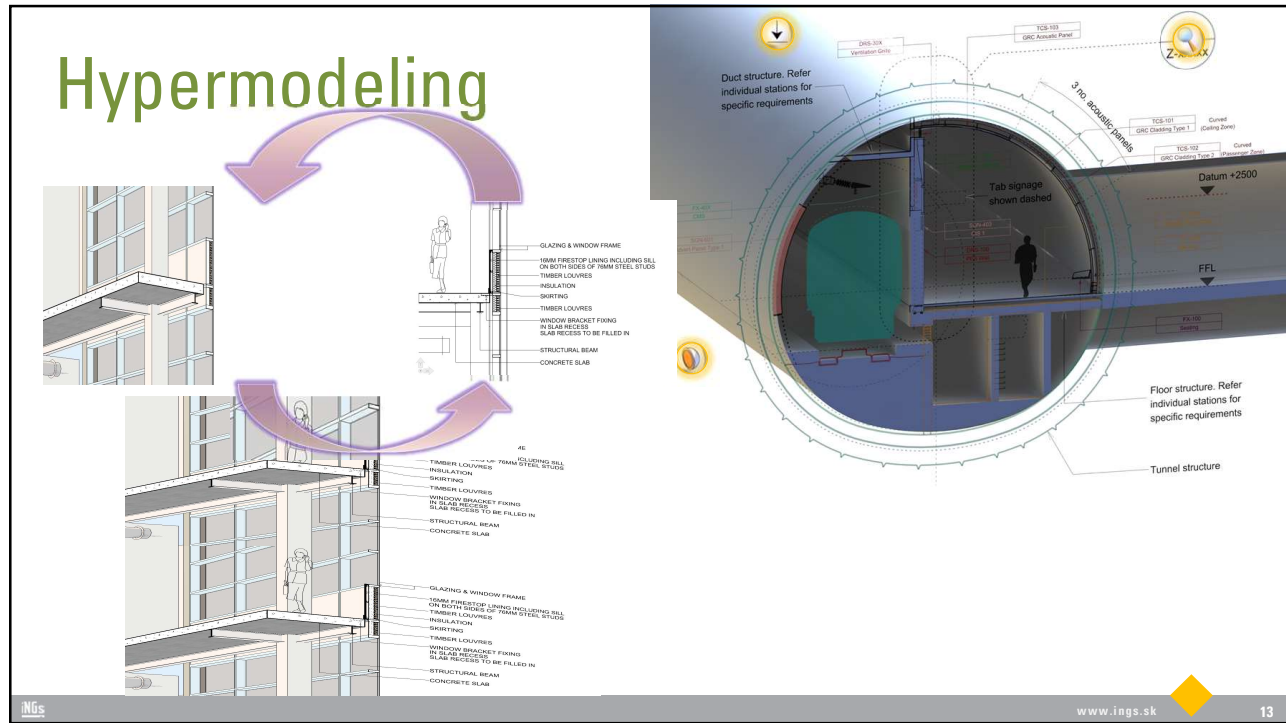
Detekcia kolízií

- Overenie konštrukcie v dobe vzniku
- Vykonanie zmien v reálnom čase, priamo v dobe návrhu. Minimalizuje náklady na dodatočné zmeny.
- Podpora viacerých formátov. DWG, IFC, i-model, SKP, 3DM, ... a ďalšie

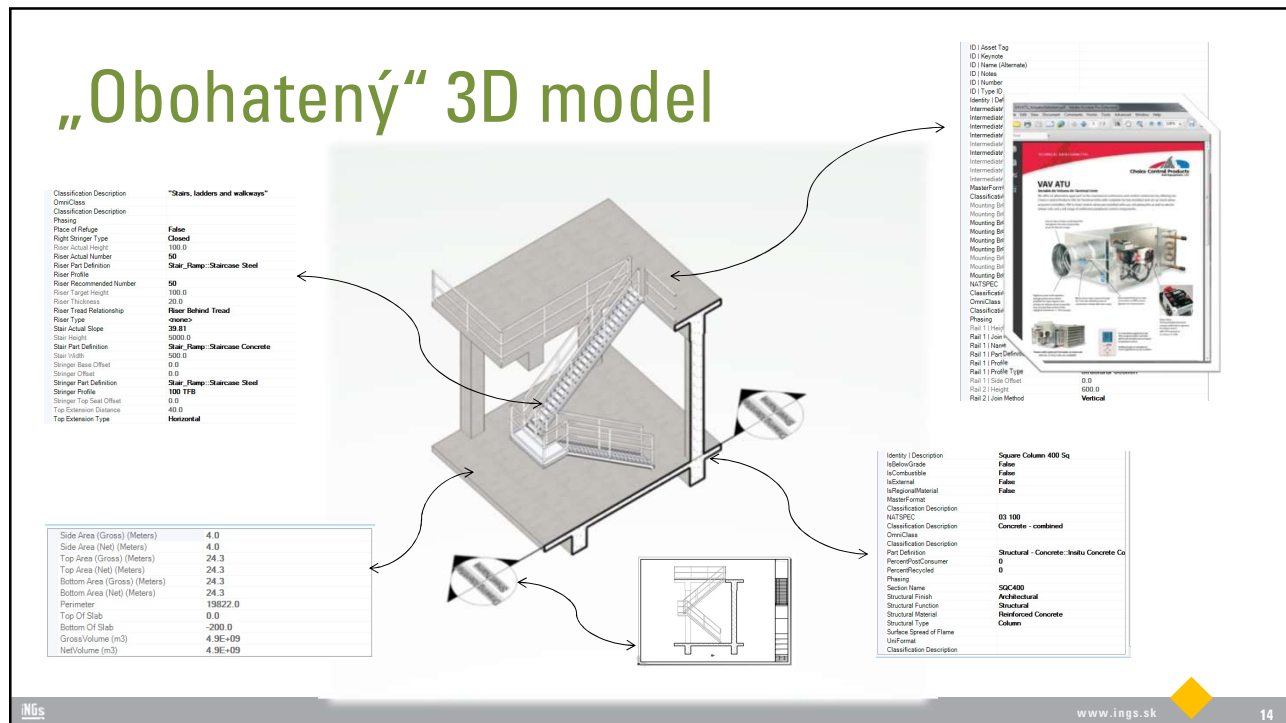


Hypermodeling





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Hypermodel pre prevádzku



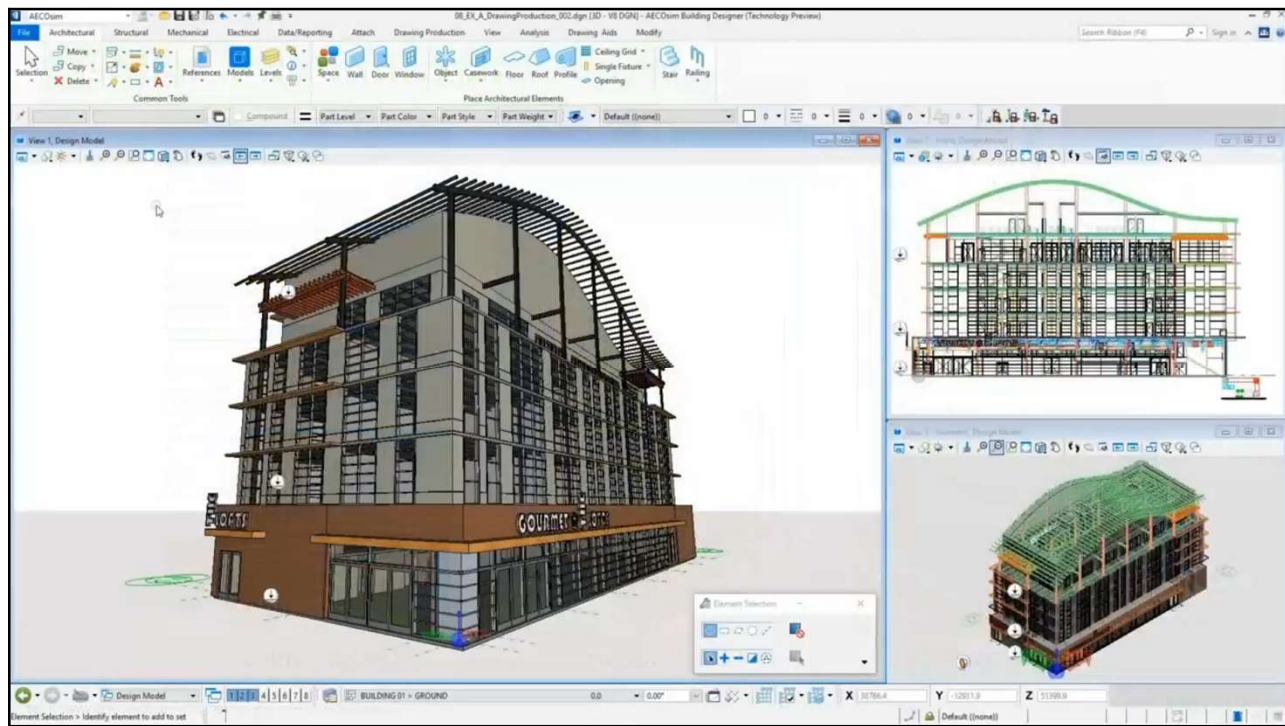
**Pripojená
dokumentácia o
záruke a návode**



Spoločný model



Spoločný model pre všetky profesie a oblasti



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Interoperabilita

GIS



Energetika

Konštrukcie a
architektúra

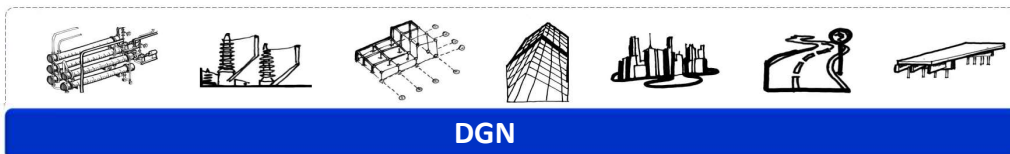
Železnice



Cesty



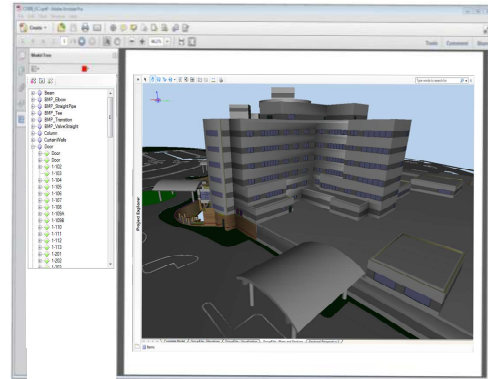
Mosty



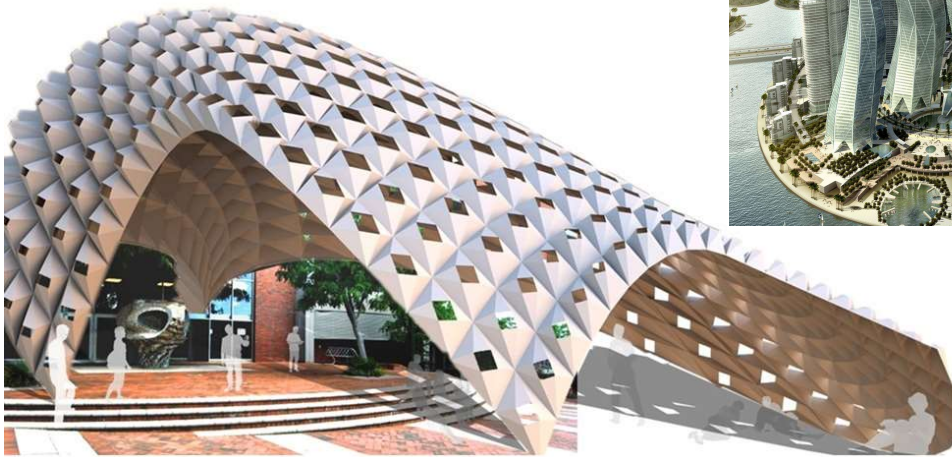
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Interoperabilita

- Zdieľanie dát projektu
- Publikovanie priamo do 3D PDF
- Exportovaný je kompletný projekt aj s pripojenou dokumentáciou
- Ochrana dát
- IFC



Generative components



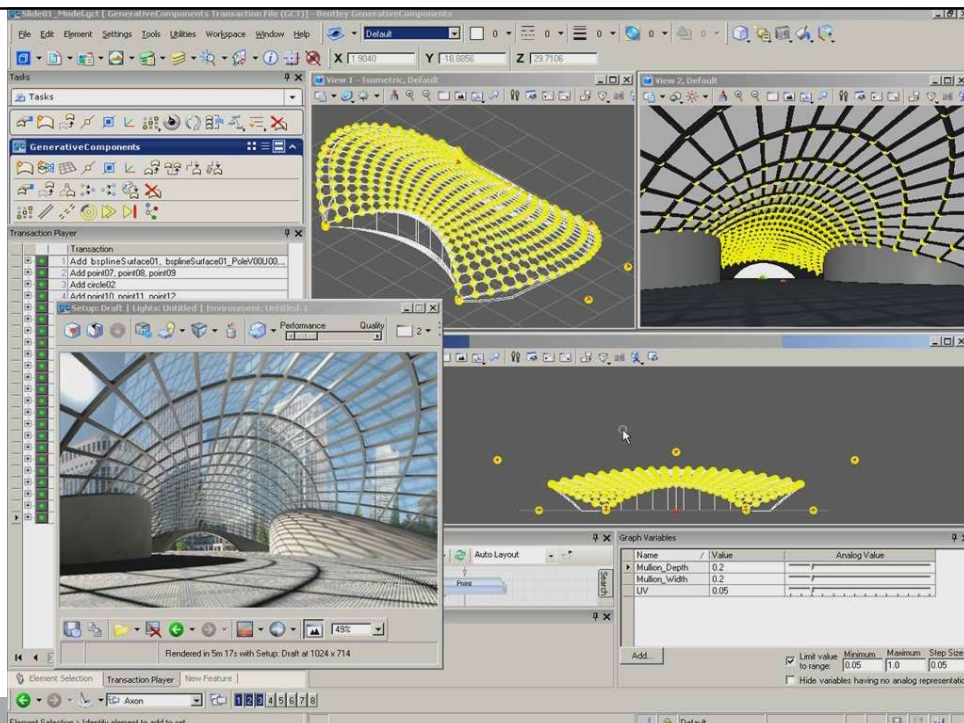
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Luxology Rendering & Lument RT



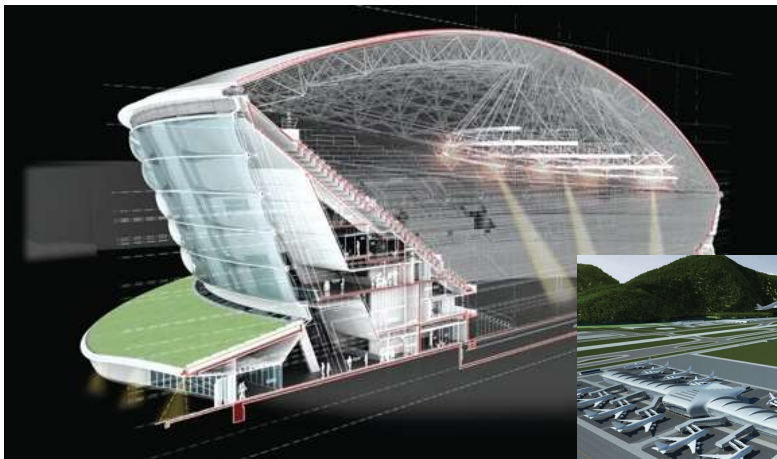
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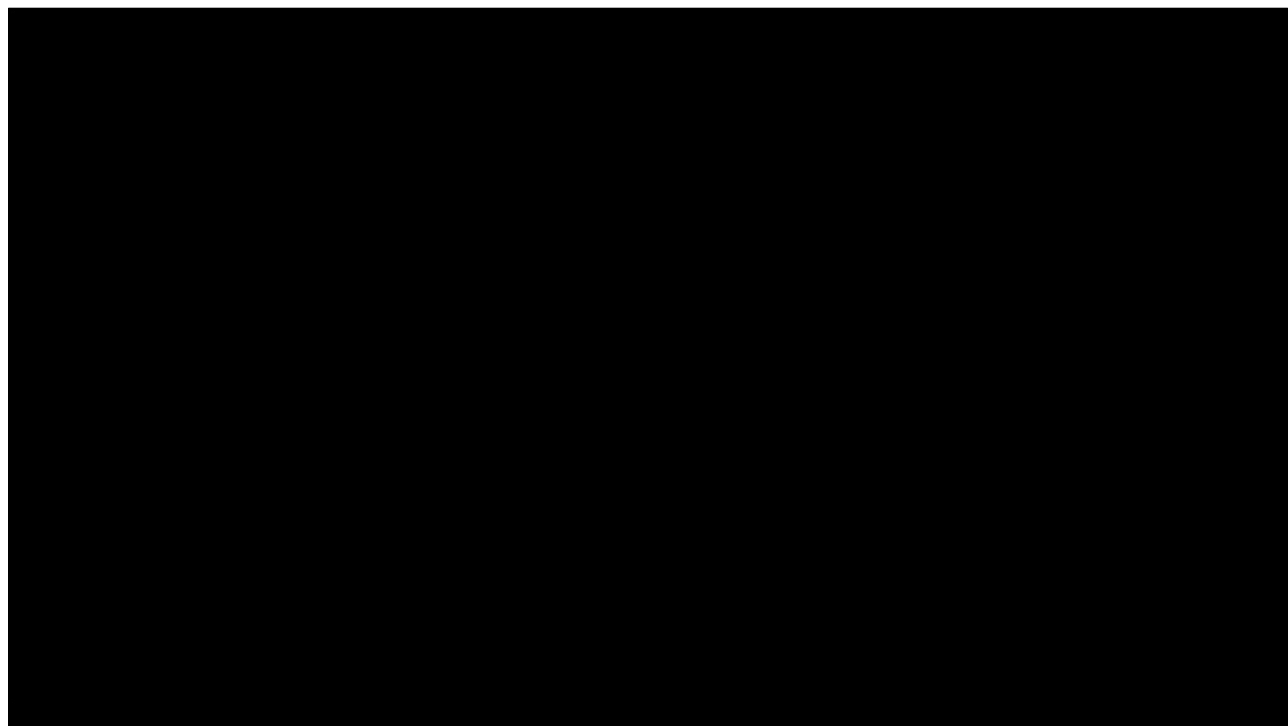


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Ďakujeme za pozornosť.

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