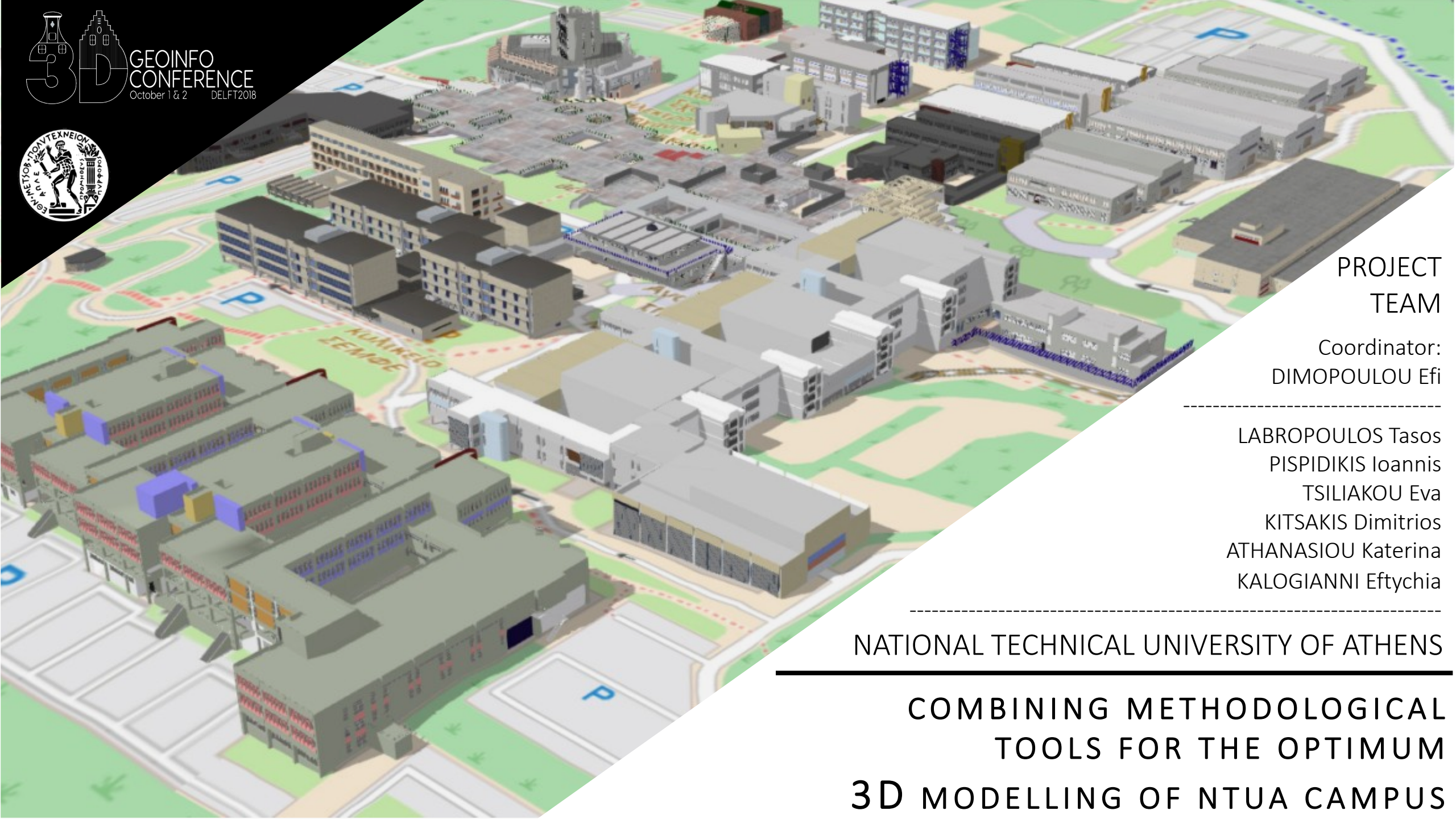


3D GEOINFO CONFERENCE
October 1 & 2 DELFT2018

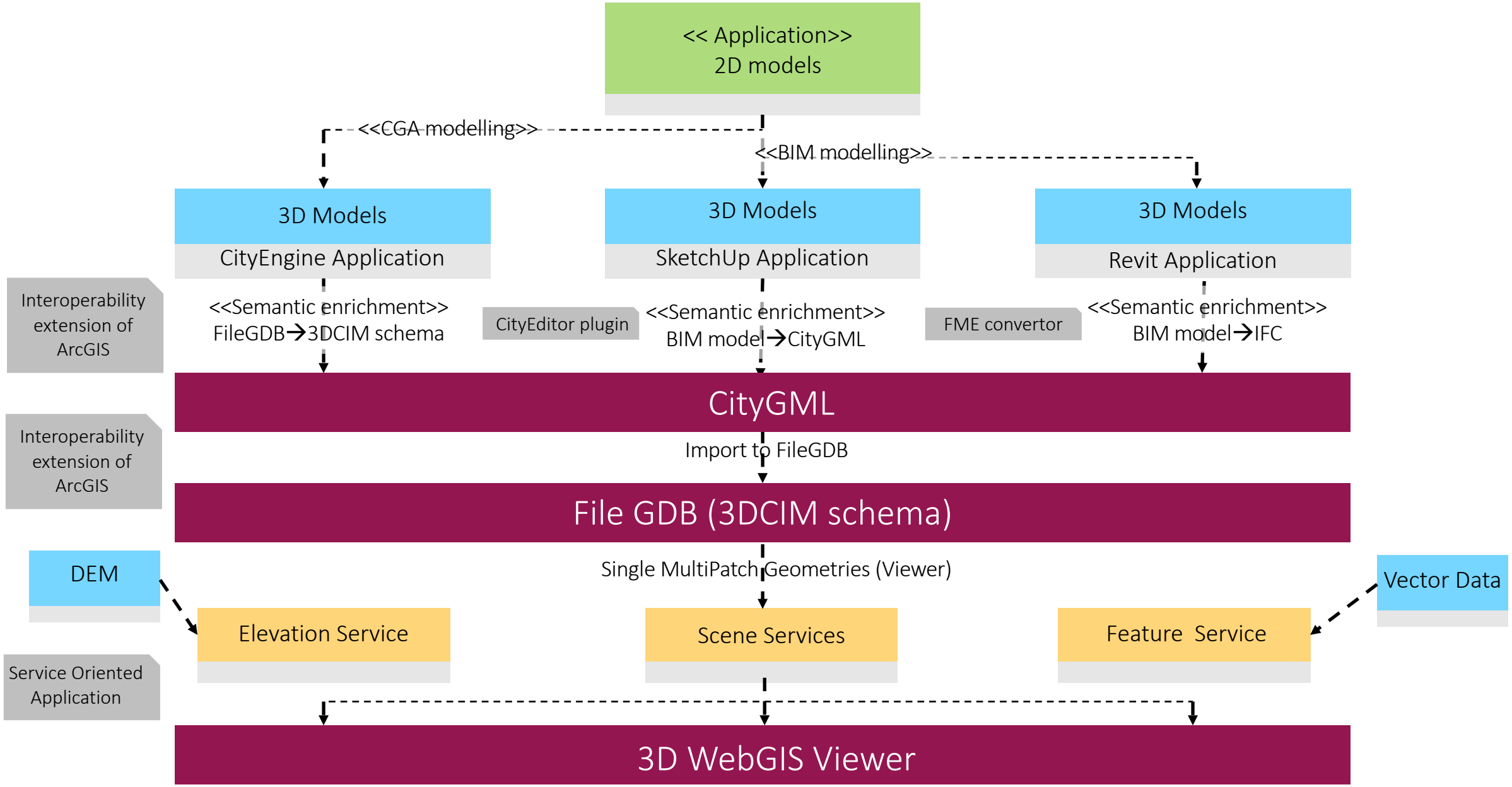
PROJECT TEAM

Coordinator:
DIMOPOULOU Efi

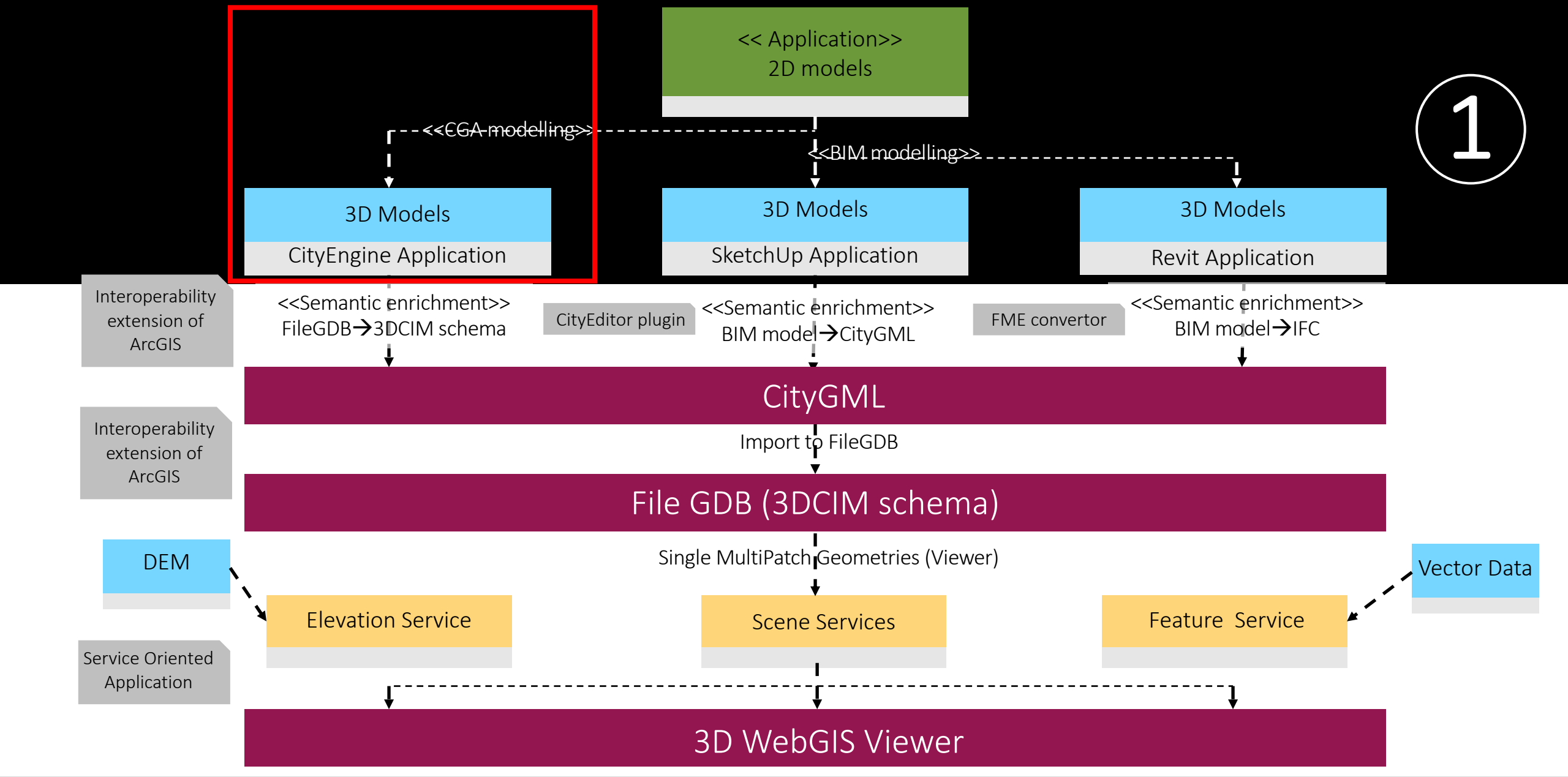
LABROPOULOS Tasos
PISPIDIKIS Ioannis
TSILIAKOU Eva
KITSAKIS Dimitrios
ATHANASIOU Katerina
KALOGIANNI Eftychia

NATIONAL TECHNICAL UNIVERSITY OF ATHENS

COMBINING METHODOLOGICAL TOOLS FOR THE OPTIMUM 3D MODELLING OF NTUA CAMPUS



METHODOLOGY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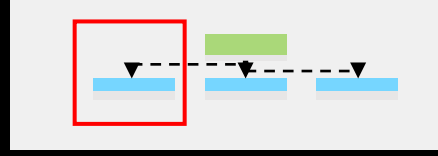
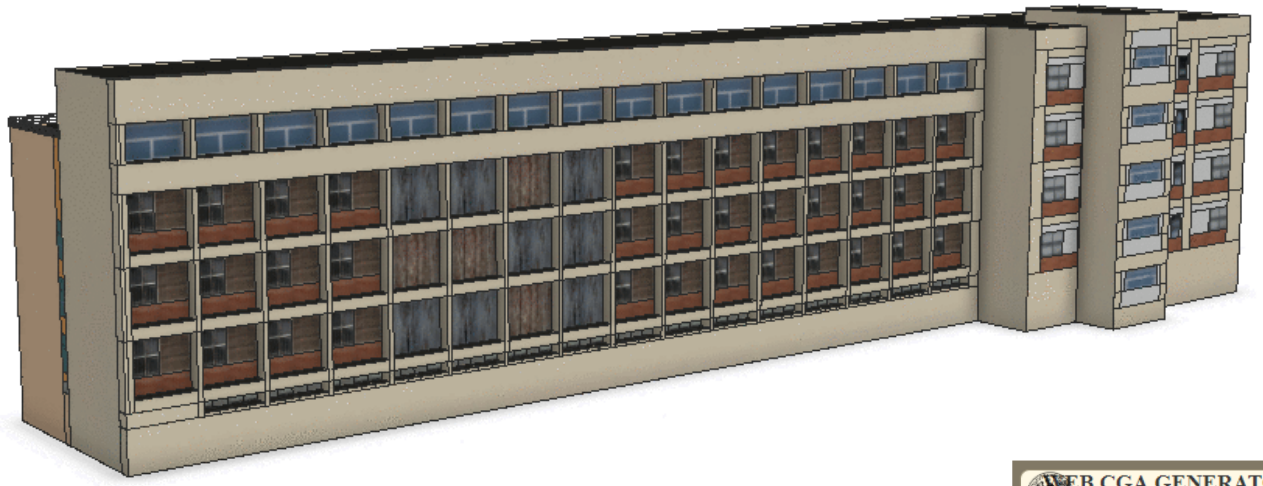
CGA GENERATOR





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---------------------------------------- //ΚΑΘΟΡΙΣΜΟΣ ΥΦΗΣ ΤΟΙΧΟΥ
FRONTFACADE FFWall ==> FFFloor1 ==> @Group("1.FF","F-
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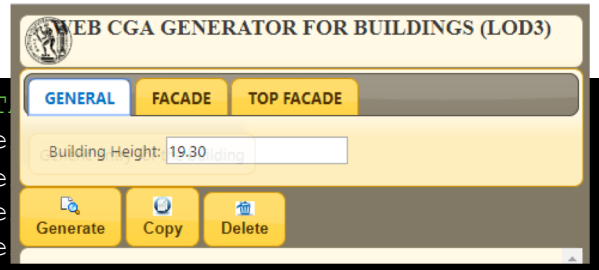
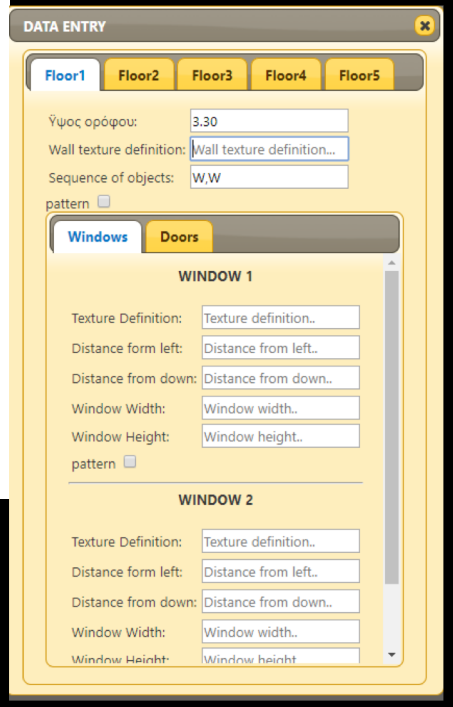
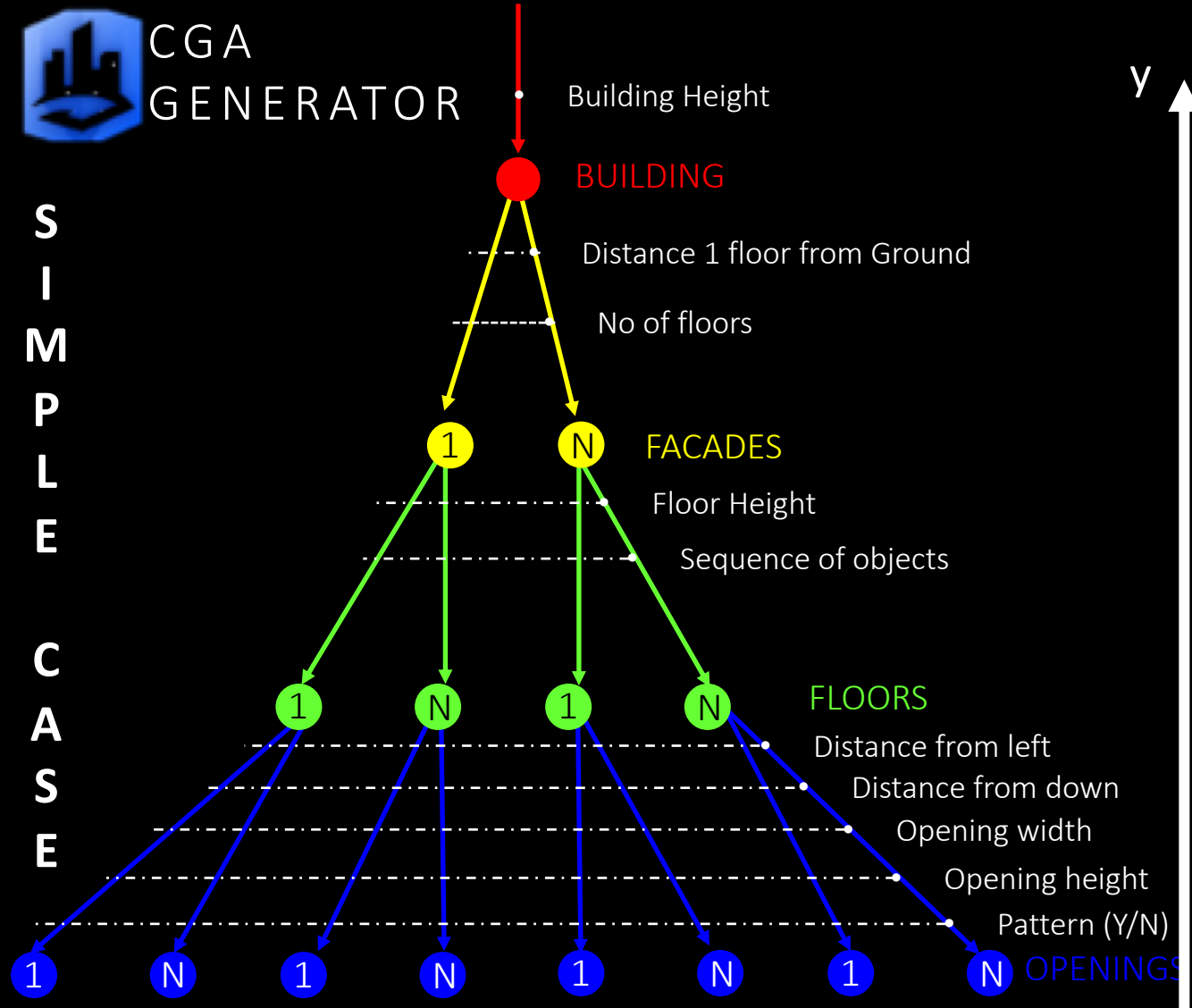
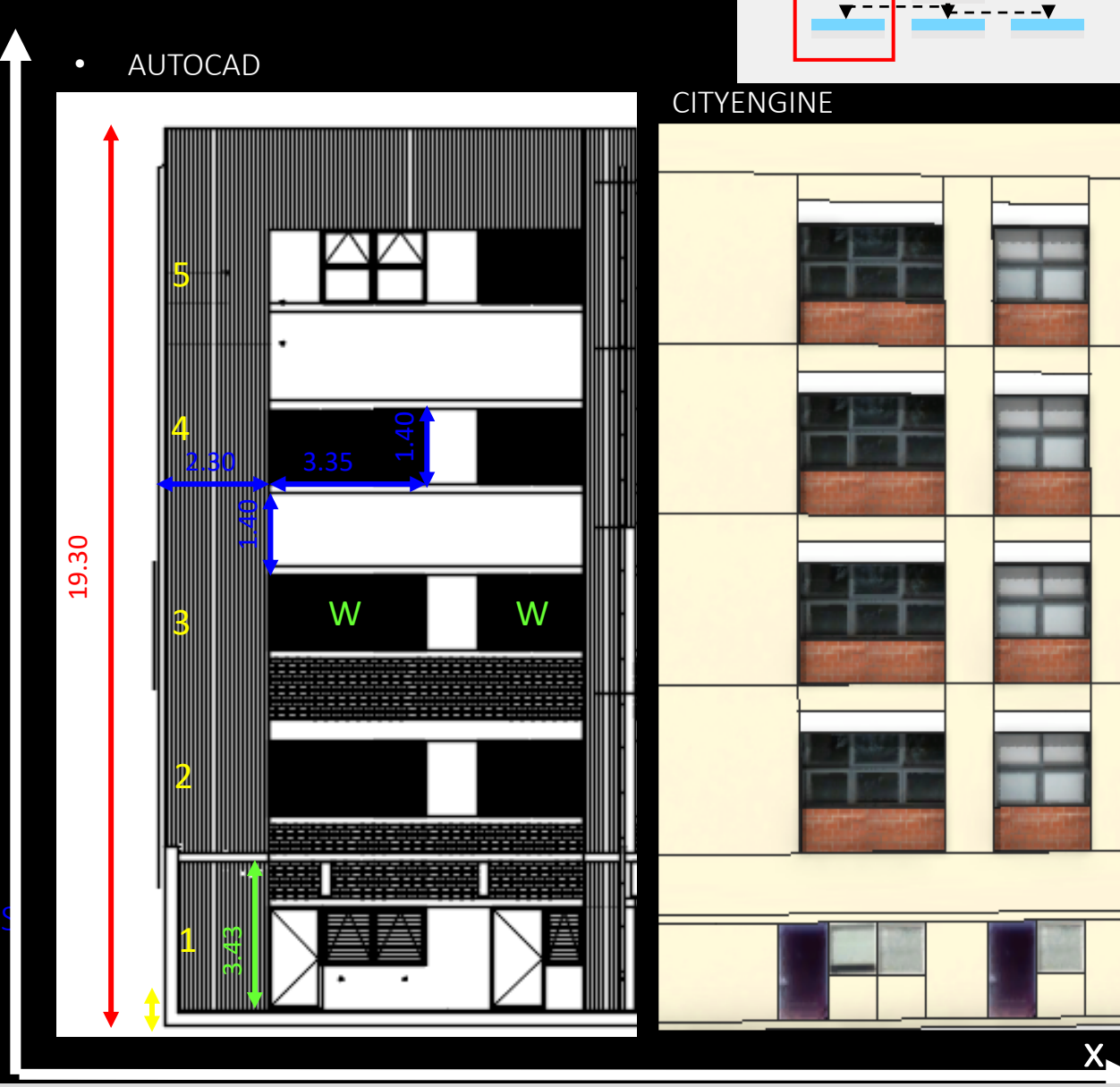




CGA GENERATOR

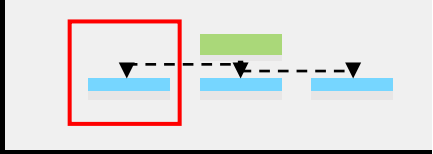
SIMPLE CASE





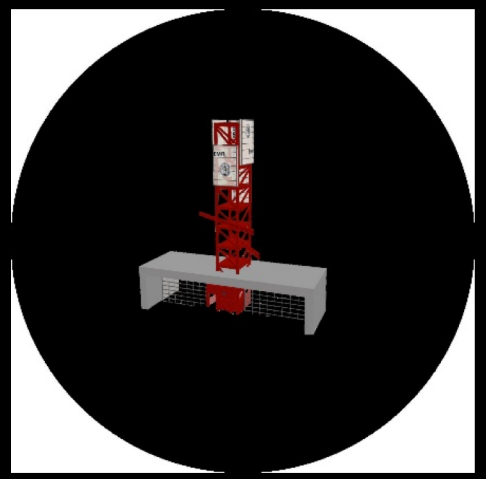
METHODOLOGY – PART A

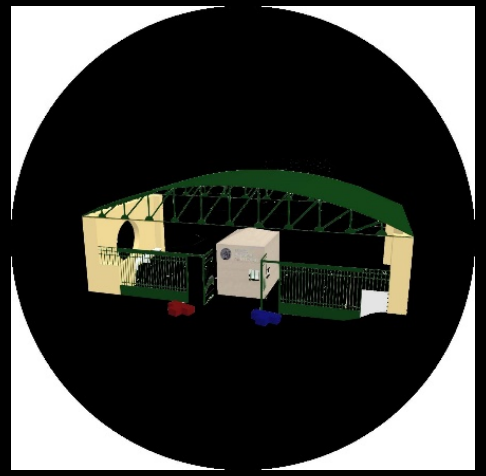
COMPLEX CASES



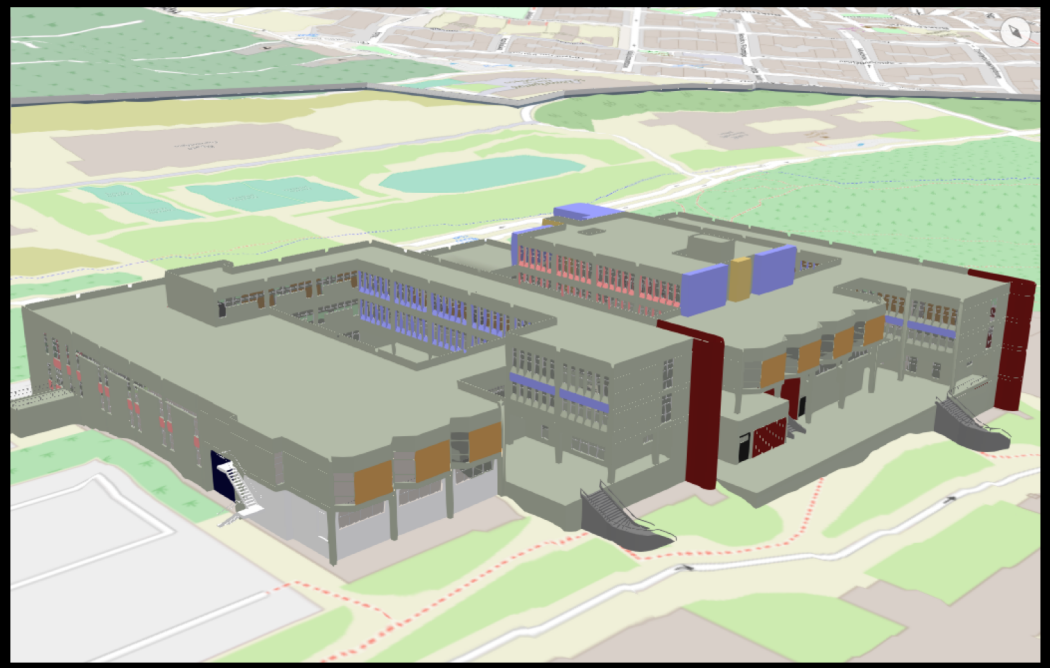
A

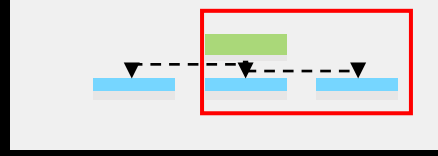
B

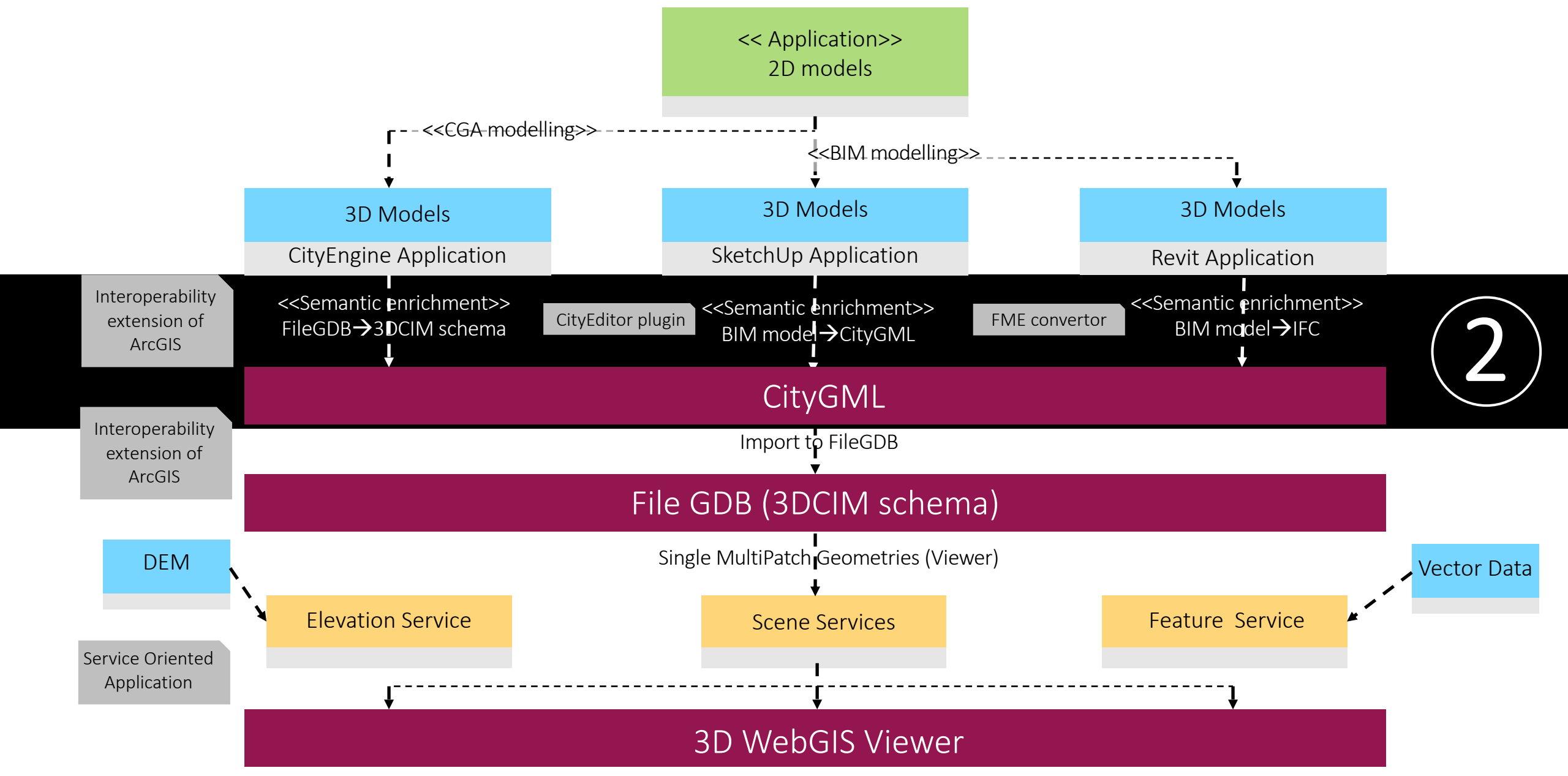




BIM MODELLING



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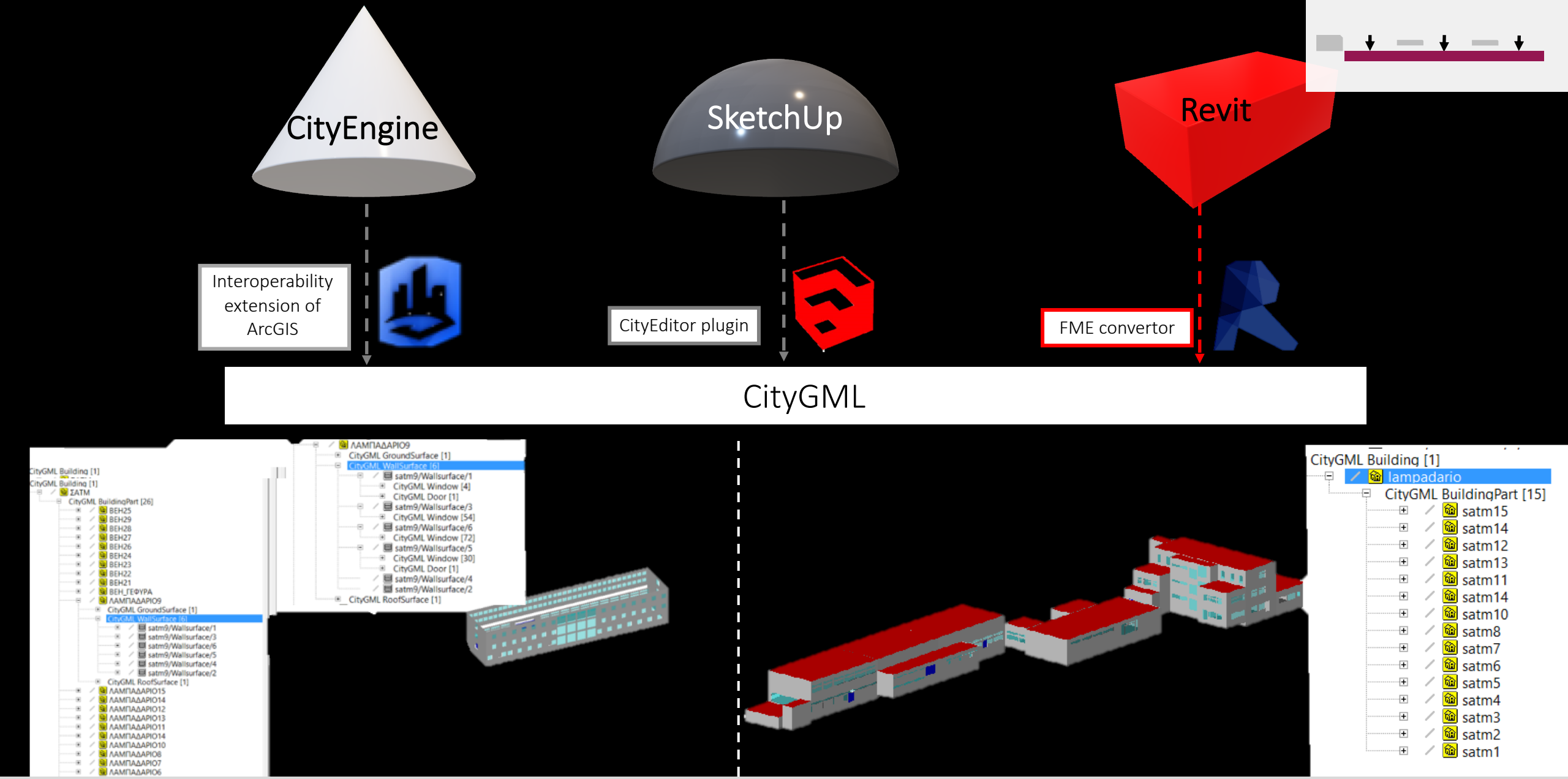
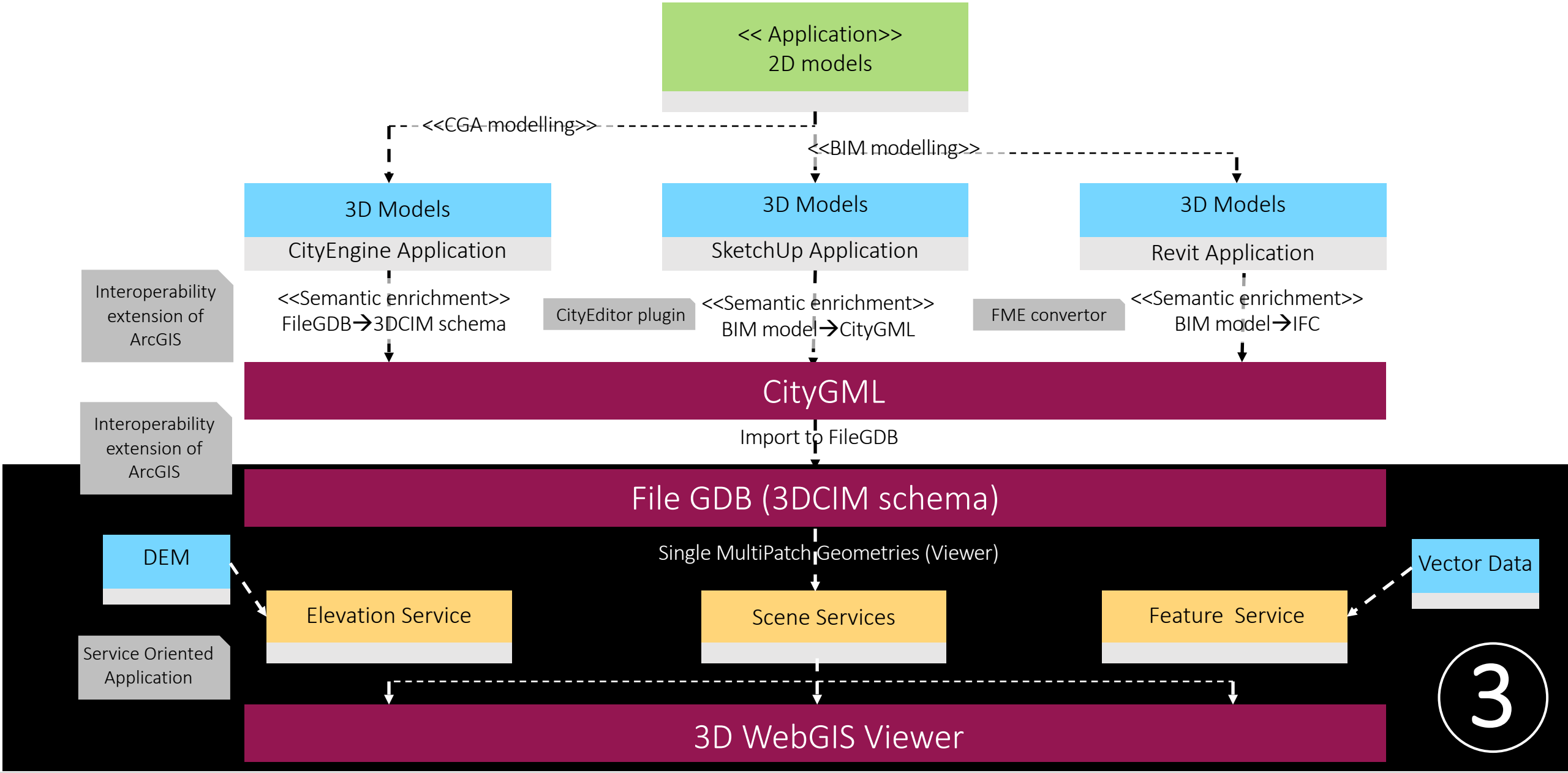


METHODOLOGY – PART B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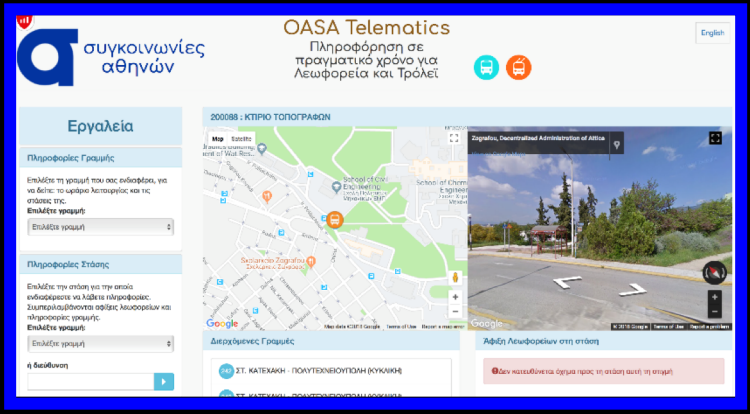
SCHEMA:

3DCityDB
3D city Database

3DCIM
ESRI 3D City Information Model



WEB SERVICES:

Web Services & 3D WebGIS Viewer

3D Building Models → Scene services

Digital Terrain Model → Elevation image service

Trees & Vegetation + Public transport stops → Feature service

Base maps → Map service

MAIN CHALLENGE

--Interoperability between procedural modelling and BIM Models--

+

- Simple texturing
- Large scale 3D building models

- Facilitates modelling of complex architecture

- High quality 3D models
- Rich semantic information

−

- Stairs, ramps, balconies
- Complex architecture

- Georeferencing issues
- Data/texture loss

- Inconsistencies when converting to CityGML
- Redundant building information

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THANK YOU

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