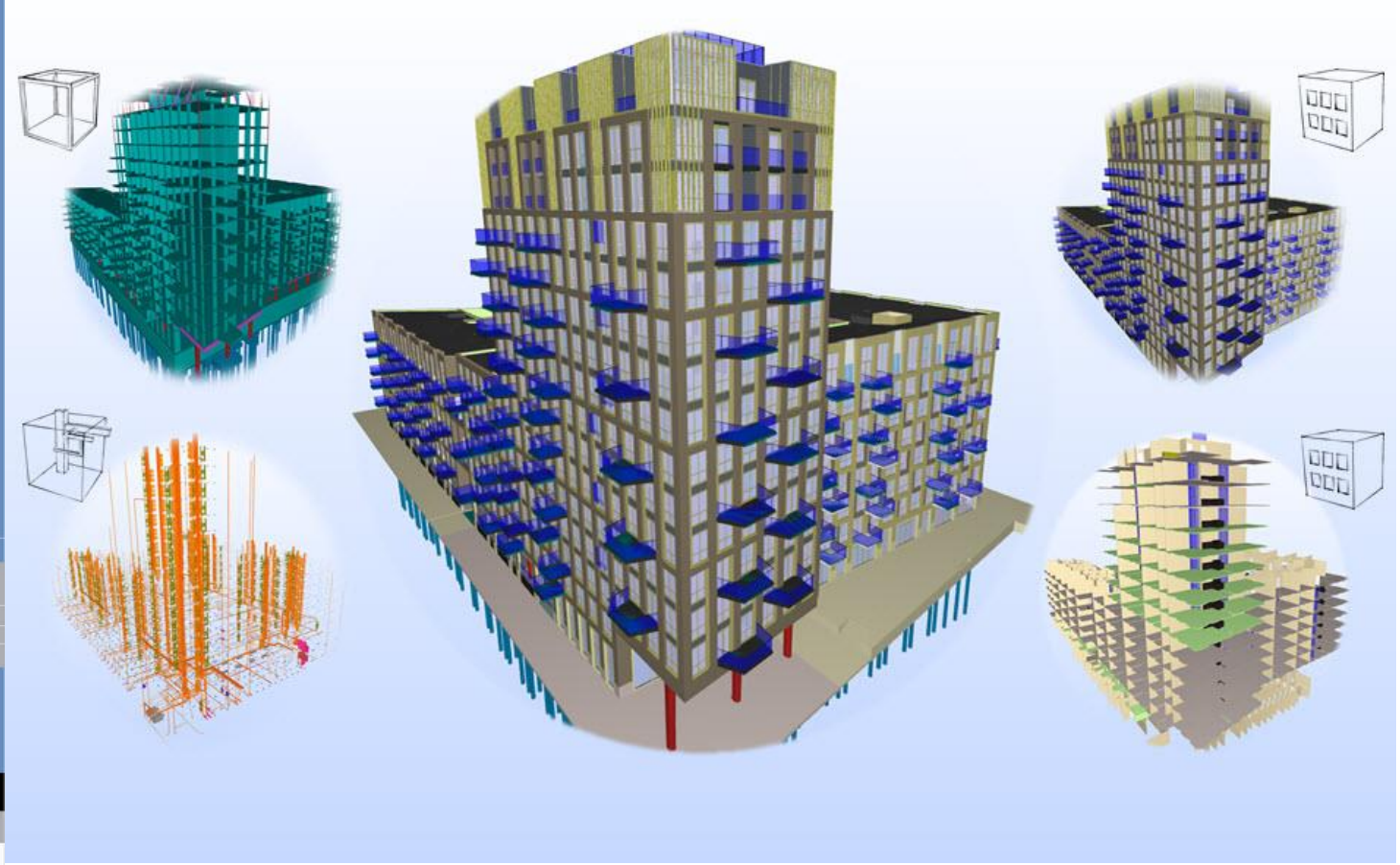


VolkerWessels

STAM DE KONING
VASTGOED EN BOUW

Enrichment of BIM models

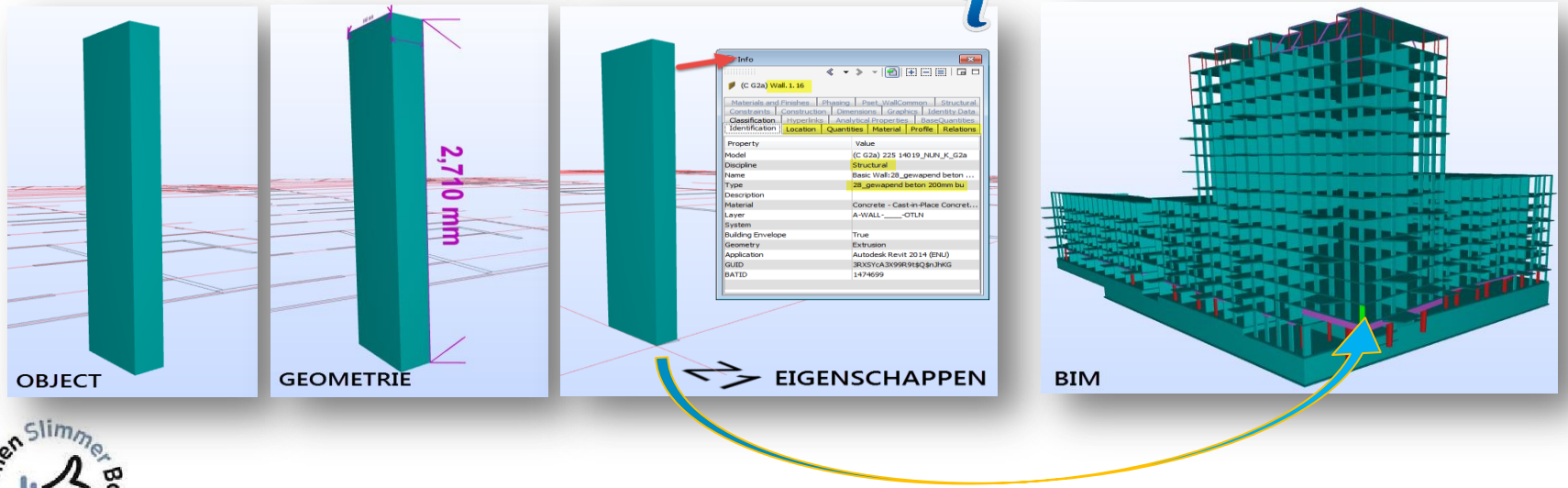
Eindhoven, 2015

BIM-model = Collection of objects

VolkerWessels

STAM DE KONING
VASTGOED EN BOUW

OBJECTS have a **GEOMETRIE** and **PROPERTIES**



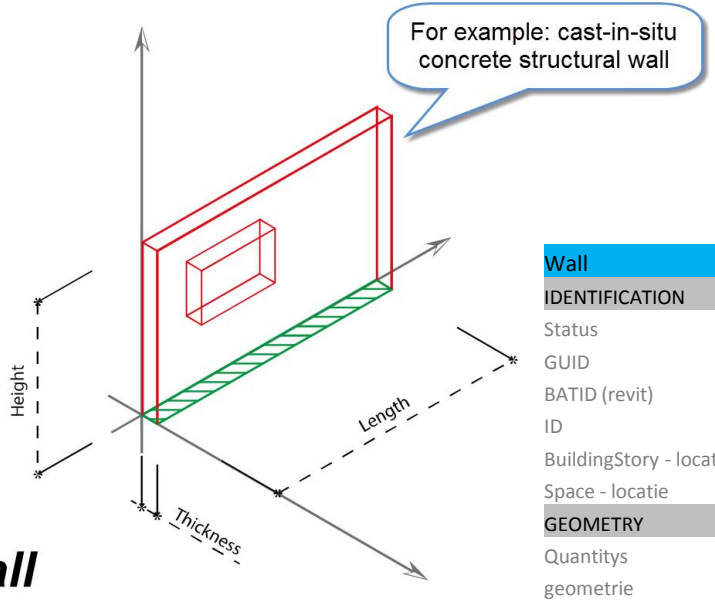
Samen Slimmer Bouwen

"Enrichment" BIM models

PROPERTIES

VolkerWessels

STAM DE KONING
VASTGOED EN BOUW



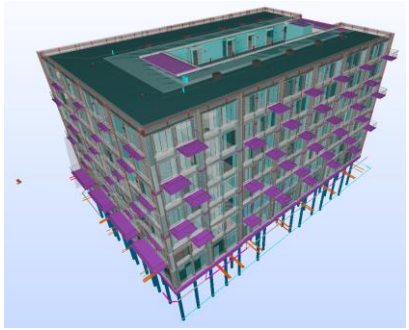
IfcWall

Wall				
IDENTIFICATION	DEM	CLASSIFICATION	DEMARCATION	
Status		Asseblycode - 4 cijferig vb: 22.12	Structural modeller	
GUID		Assembly description	Structural modeller	
BATID (revit)		PROPERTY OBJECT		
ID		IfcMaterial	Structural modeller	
BuildingStory - locatie		LoadBearing	Structural engineer	non-modeling
Space - locatie		ExtendToStructure	Structural modeller	
GEOMETRY		Compartmentation	counselor fire	non-modeling
Quantitys		FireRating	counselor fire	non-modeling
geometrie		Combustible	counselor fire	non-modeling
Length		SurfaceSpreadOfFlame	counselor fire	non-modeling
Width		AcousticRating	counselor acoustic	non-modeling
Height		ThermalTransmittance	counselor thermal	non-modeling
Thickness		reinforcement	Structural engineer	non-modeling
Area		concrete quality	Structural engineer	non-modeling
Volume		Environment Class	Structural engineer	non-modeling
Perimeter		top_reinforcement	Structural engineer	non-modeling
ProjectedArea		bottom_reinforcement	Structural engineer	non-modeling
TotalArea		side_reinforcement	Structural engineer	non-modeling

PROPERTIES

VolkerWessels

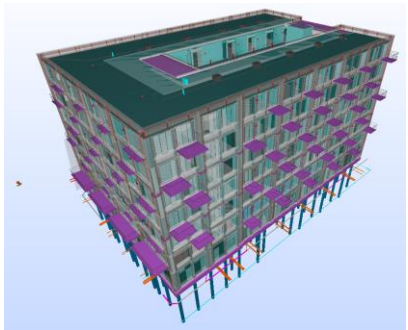
STAM DE KONING
VASTGOED EN BOUW



IFC

CLASSIFICATION	DEMARCATION
LoadBearing	Structural engineer
Compartmentation	counselor fire
FireRating	counselor fire
Combustible	counselor fire
SurfaceSpreadOfFlame	counselor fire
AcousticRating	counselor acoustic
ThermalTransmittance	counselor thermal
reinforcement	Structural engineer
concrete quality	Structural engineer
Environment Class	Structural engineer
top_reinforcement	Structural engineer
bottom_reinforcement	Structural engineer
side_reinforcement	Structural engineer

PROPERTIES



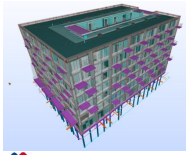
IFC

Enrichment native model

GRAPHISOFT ARCHICAD

AUTODESK REVIT

IFC-export



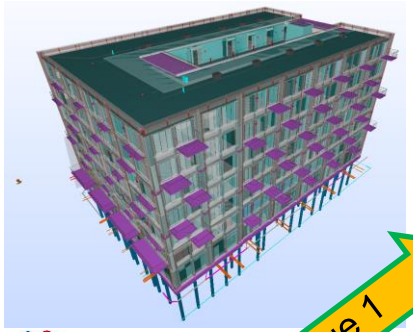
IFC

"Enrichment" BIM models

PROPERTIES

VolkerWessels

STAM DE KONING
VASTGOED EN BOUW

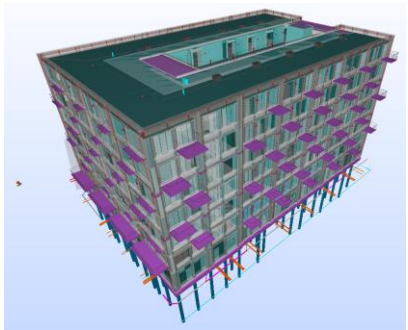


IFC

Challenge 1

CLASSIFICATION	DEMARCATION
LoadBearing	Structural engineer
Compartmentation	counselor fire
FireRating	counselor fire
Combustible	counselor fire
SurfaceSpreadOfFlame	counselor fire
AcousticRating	counselor acoustic
ThermalTransmittance	counselor thermal
reinforcement	Structural engineer
concrete quality	Structural engineer
Environment Class	Structural engineer
top_reinforcement	Structural engineer
bottom_reinforcement	Structural engineer
side_reinforcement	Structural engineer

PROPERTIES



IFC

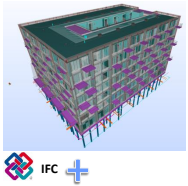
Challenge 2

Enrichment native model

GRAPHISOFT ARCHICAD

AUTODESK REVIT

IFC-export



IFC

"Enrichment" BIM models