BIM GAME OLDENBURG

Bellow are presented the students that make up the project and the role they are having.

Emanuela Borsci – ARCHITECT

Luca Favia - ARCHITECT

Antoine Delfosse - ARCHITECT

Sofía Madrigal Rubio - CIVIL ENGINEERING (UCLM, Cuenca)

Jaime López Campos - CIVIL ENGINEERING (UCLM, Cuenca)

Encarnación Moya Molina - CIVIL ENGINEERING (UCLM, Cuenca)
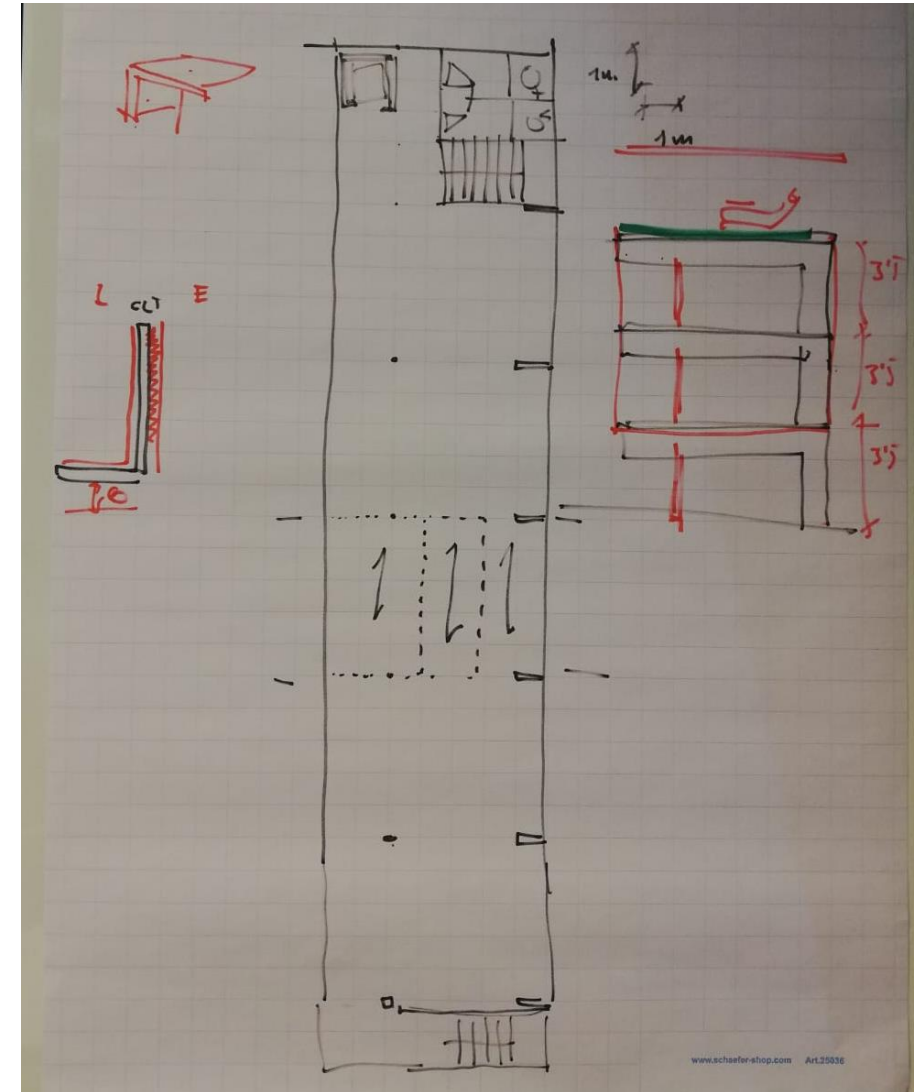
PROJECT LOCATION
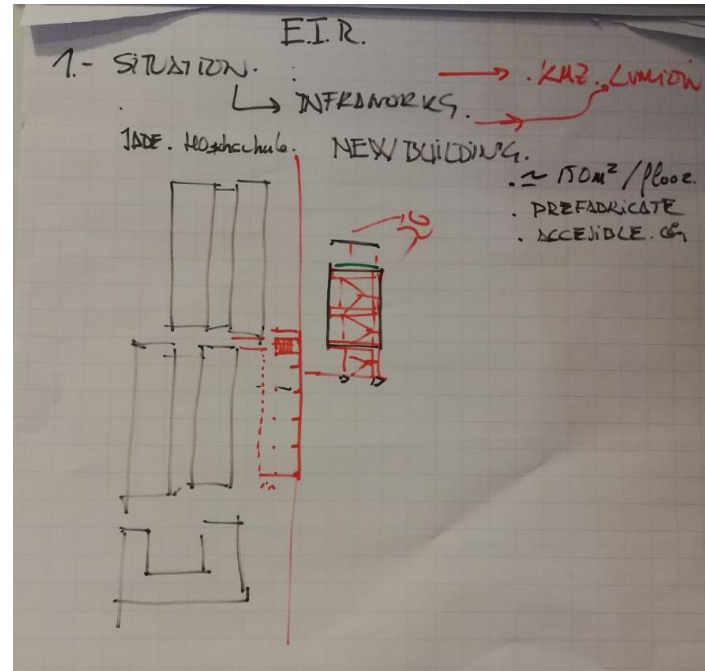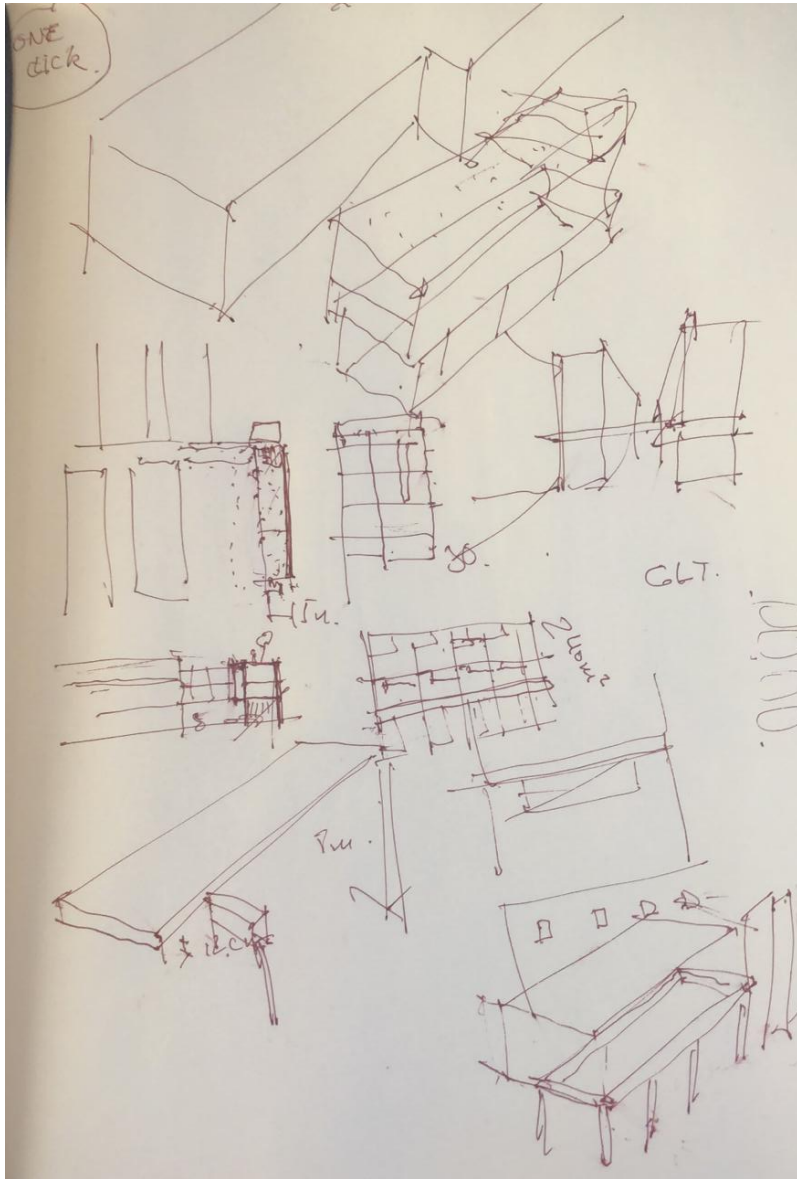
Ofener Str. 16/19, 26121 Oldenburg

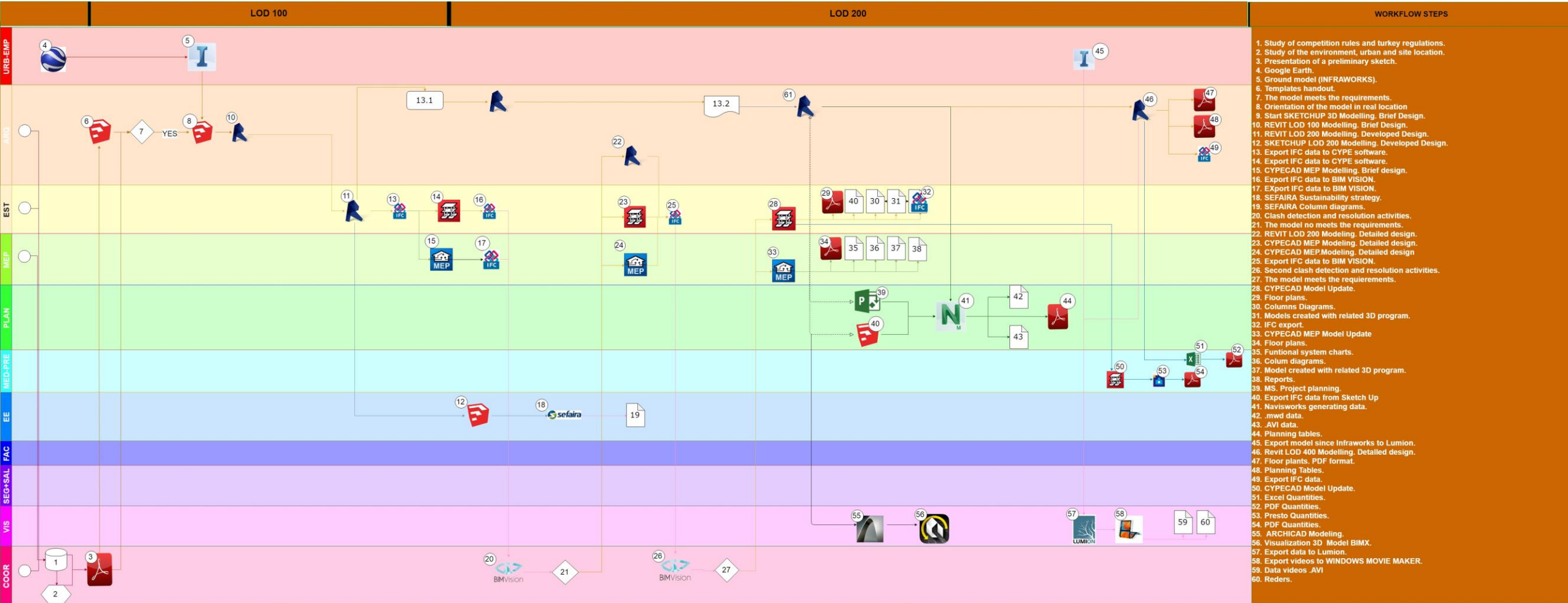The project is located on the east side of the building.

CURRENT SITUATION

INITIAL APPROACH

BEP

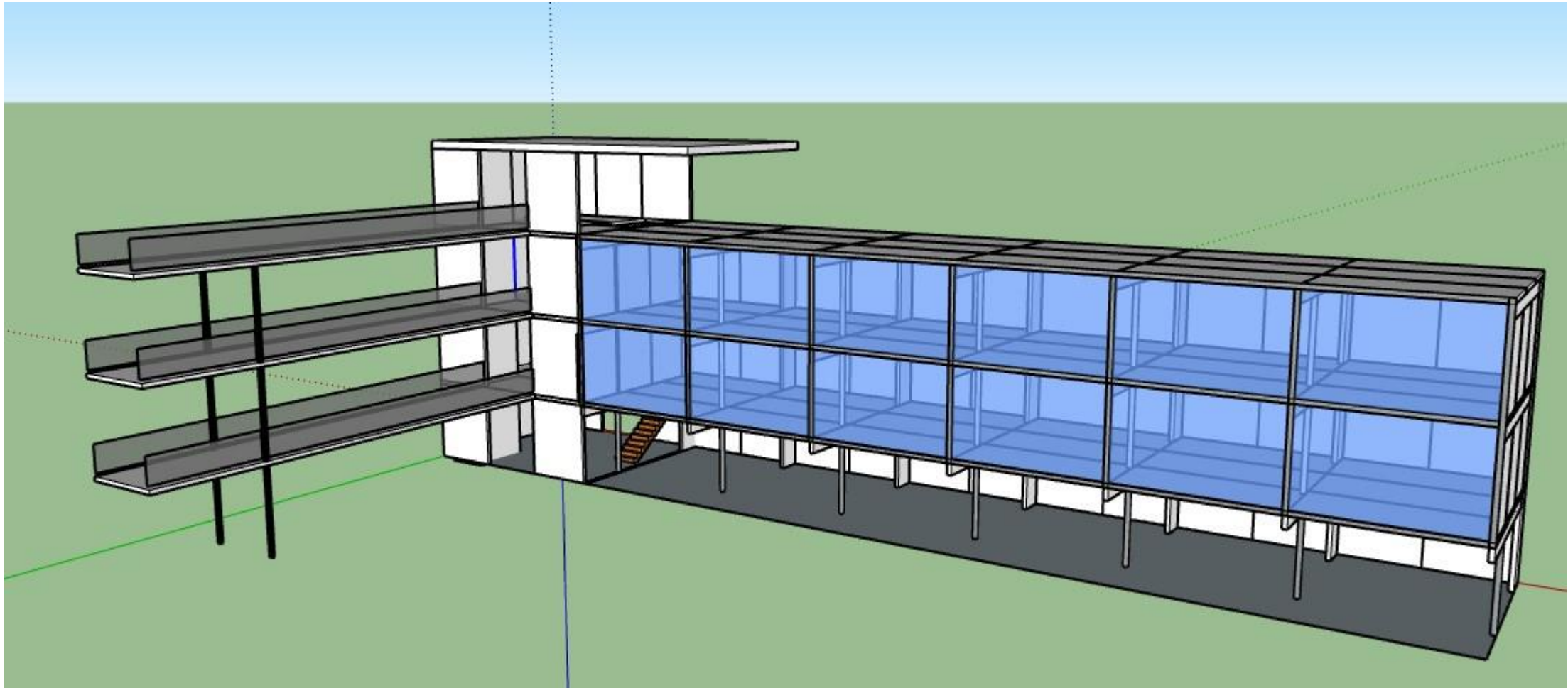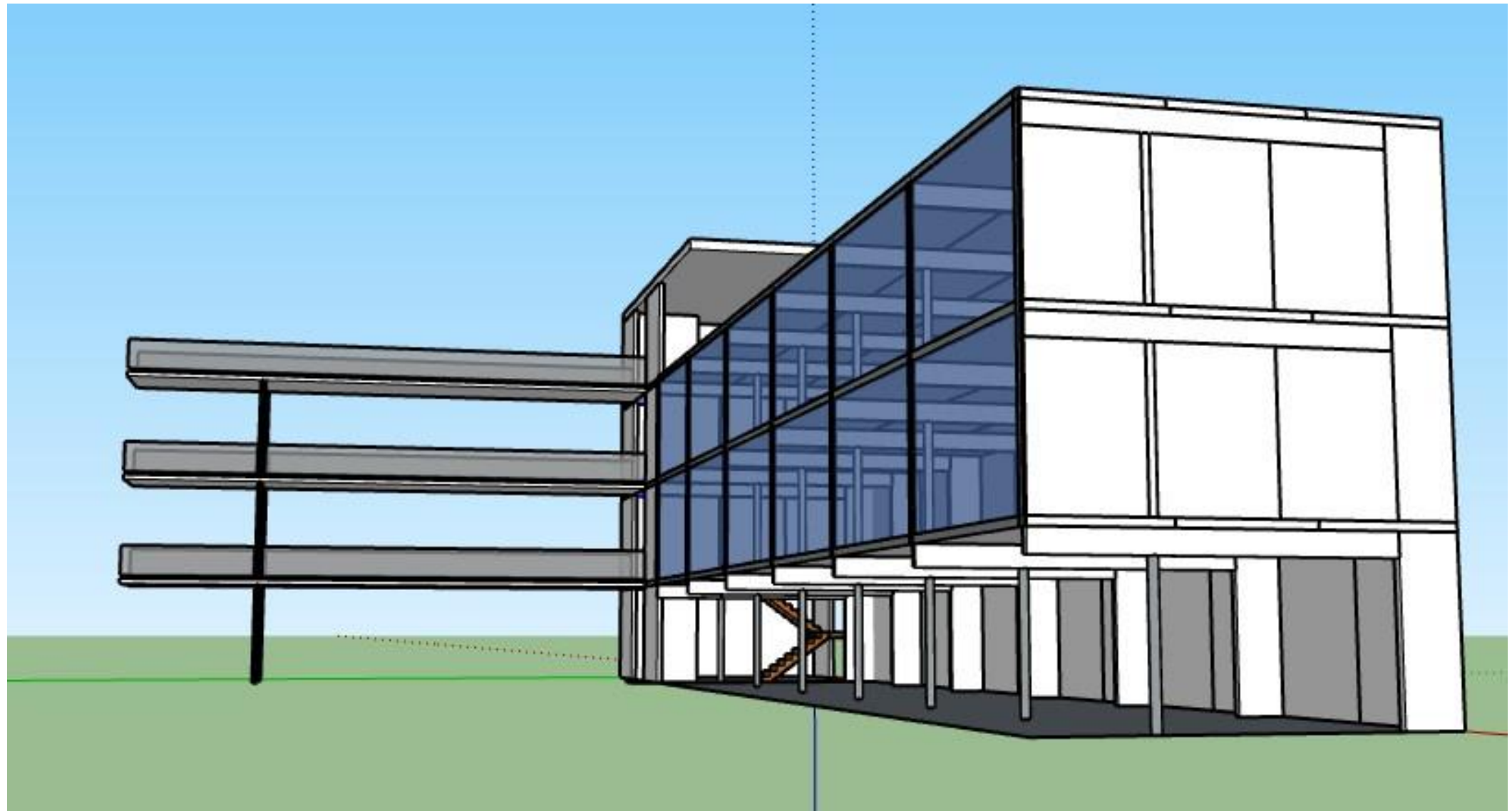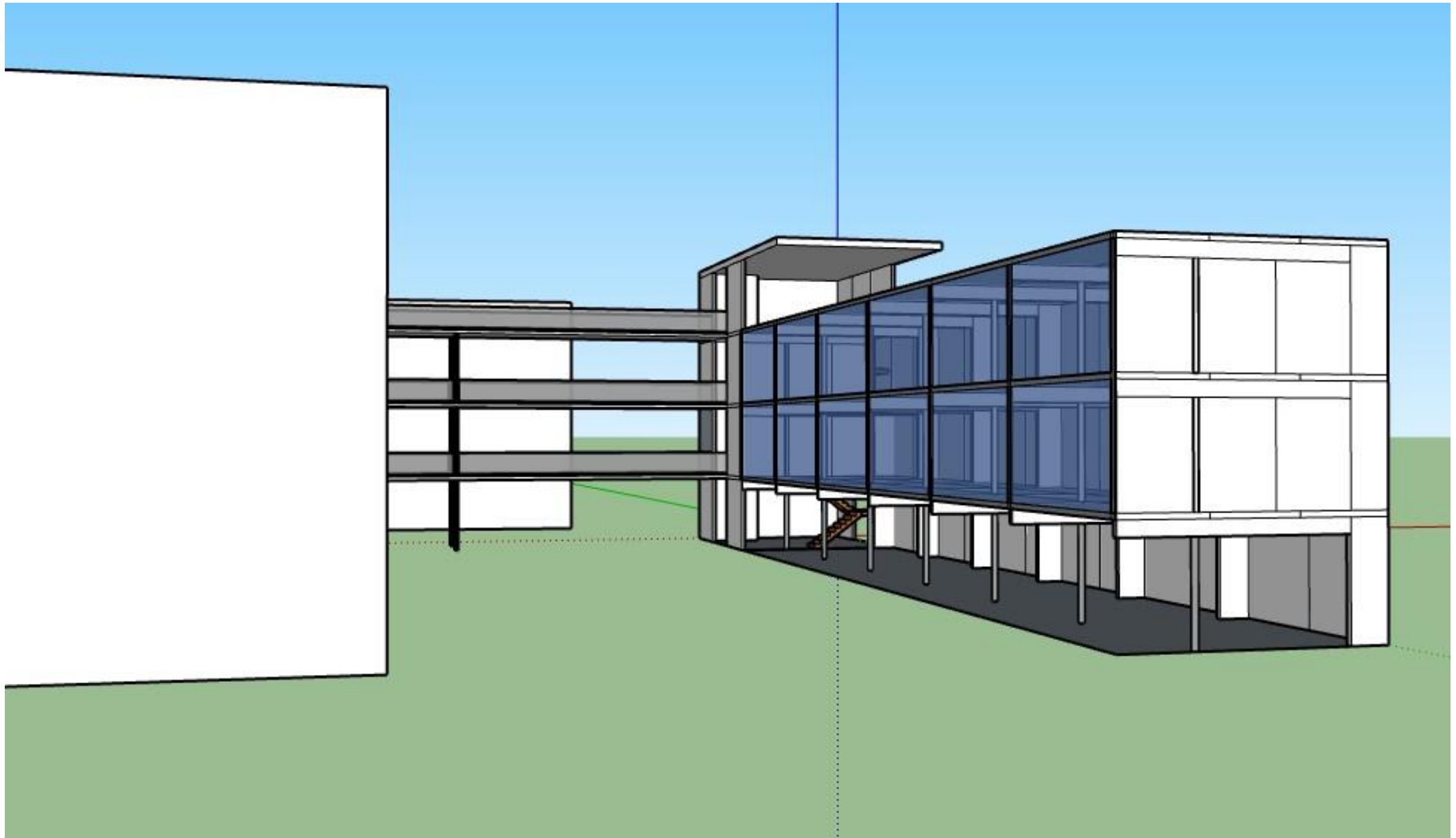| LOD 100	LOD 200	WORKFLOW STEPS

WORKFLOW STEPS

1. Study of competition rules and turkey regulations.
2. Study of the environment, urban and site location.
3. Presentation of a preliminary sketch.
4. Google Earth.
5. Ground model (INFRAWORKS).
6. Templates handout.
7. The model meets the requirements.
8. Orientation of the model in real location.
9. Start SKETCHUP 3D Modelling. Brief Design.
10. REVIT LOD 100 Modelling. Brief Design.
11. REVIT LOD 200 Modelling. Developed Design.
12. SKETCHUP LOD 200 Modelling. Developed Design.
13. Export IFC data to CYPE software.
14. Export IFC data to CYPE software.
15. CYPECAD MEP Modelling. Brief design.
16. Export IFC data to BIM VISION.
17. Export IFC data to BIM VISION.
18. SEFAIRA Sustainability strategy.
19. SEFAIRA Column diagrams.
20. Clash detection and resolution activities.
21. The model no meets the requirements.
22. REVIT LOD 200 Modeling. Detailed design.
23. CYPECAD MEP Modeling. Detailed design.
24. CYPECAD MEP.Modeling. Detailed design
25. Export IFC data to BIM VISION.
26. Second clash detection and resolution activities.
27. The model meets the requierements.
28. CYPECAD Model Update.
29. Floor plans.
30. Columns Diagrams.
31. Models created with related 3D program.
32. IFC export.
33. CYPECAD MEP Model Update
34. Floor plans.
35. Funtional system charts.
36. Colum diagrams.
37. Model created with related 3D program.
38. Reports.
39. MS. Project planning.
40. Export IFC data from Sketch Up
41. Navisworks generating data.
42. .mwd data.
43. .AVI data.
44. Planning tables.
45. Export model since Infraworks to Lumion.
46. Revit LOD 400 Modelling. Detailed design.
47. Floor plants. PDF format.
48. Planning Tables.
49. Export IFC data.
50. CYPECAD Model Update.
51. Excel Quantities.
52. PDF Quantities.
53. Presto Quantities.
54. PDF Quantities.
55. ARCHICAD Modeling.
56. Visualization 3D Model BIMX.
57. Export data to Lumion.
58. Export videos to WINDOWS MOVIE MAKER.
59. Data videos .AVI
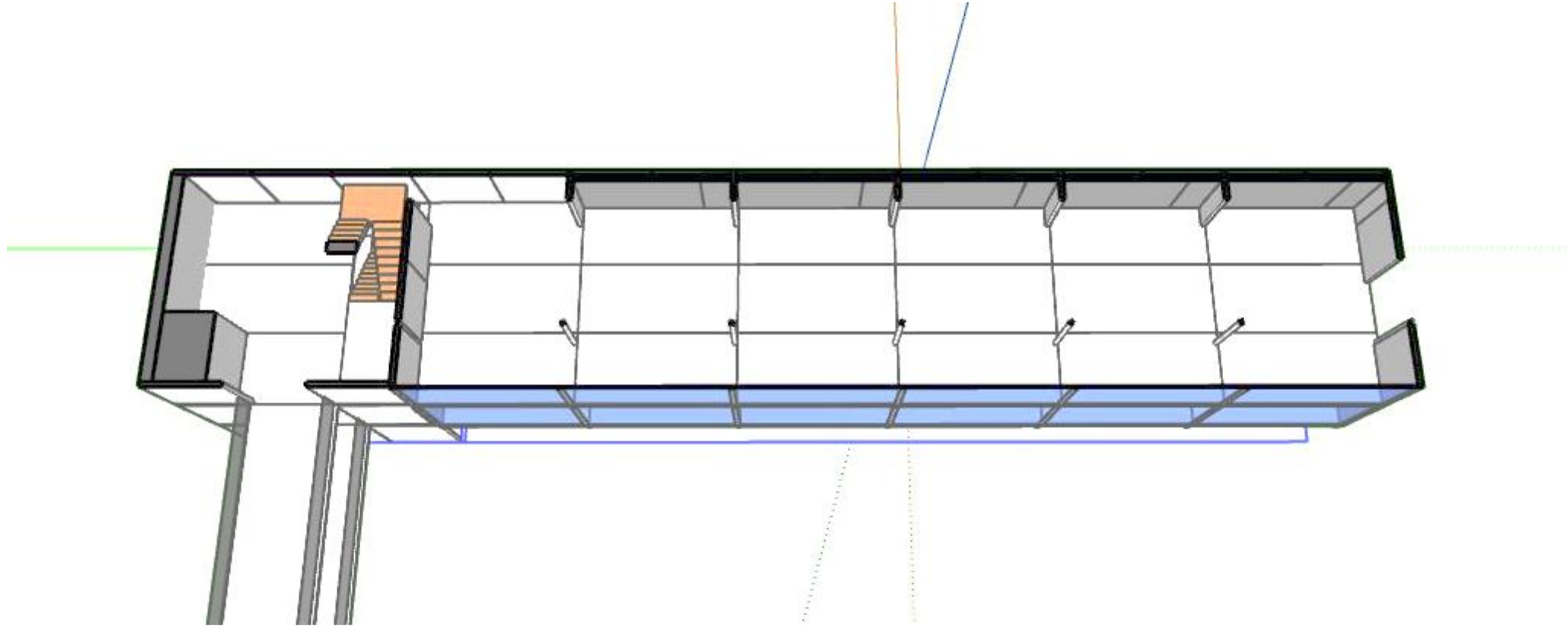60. Reders.

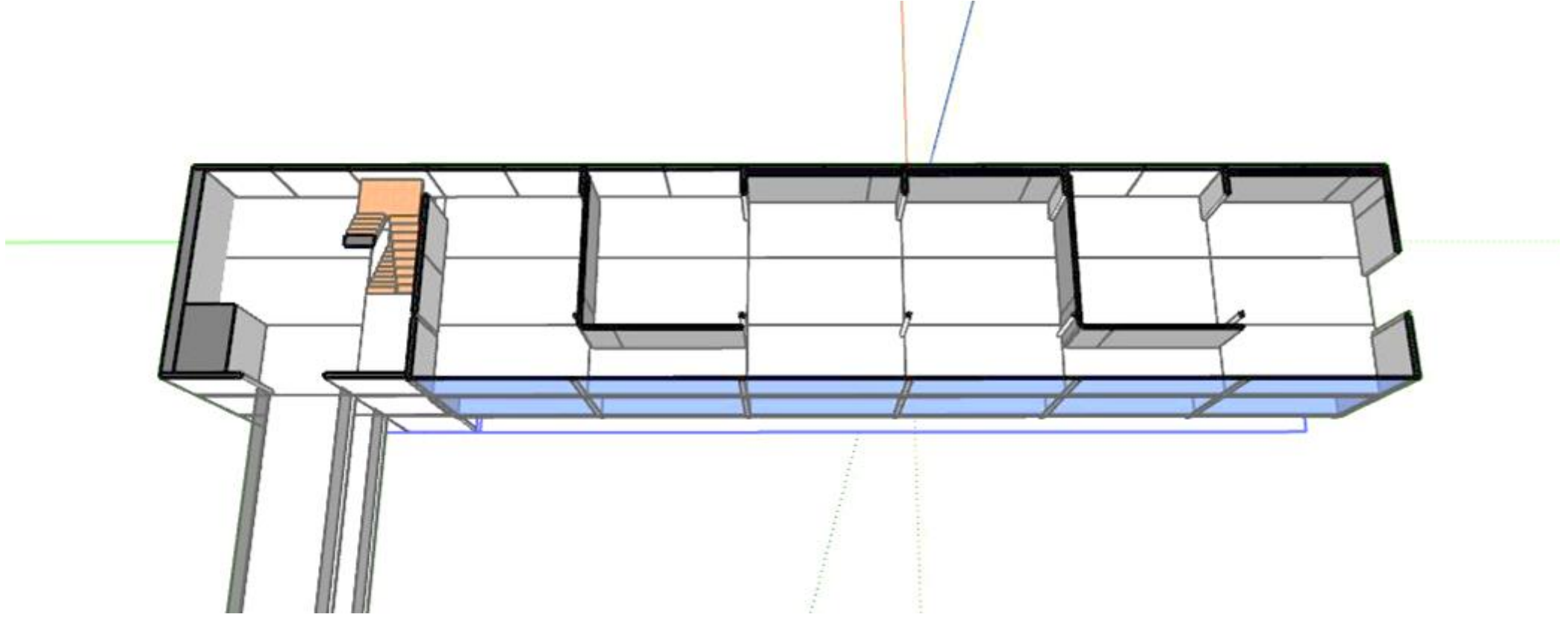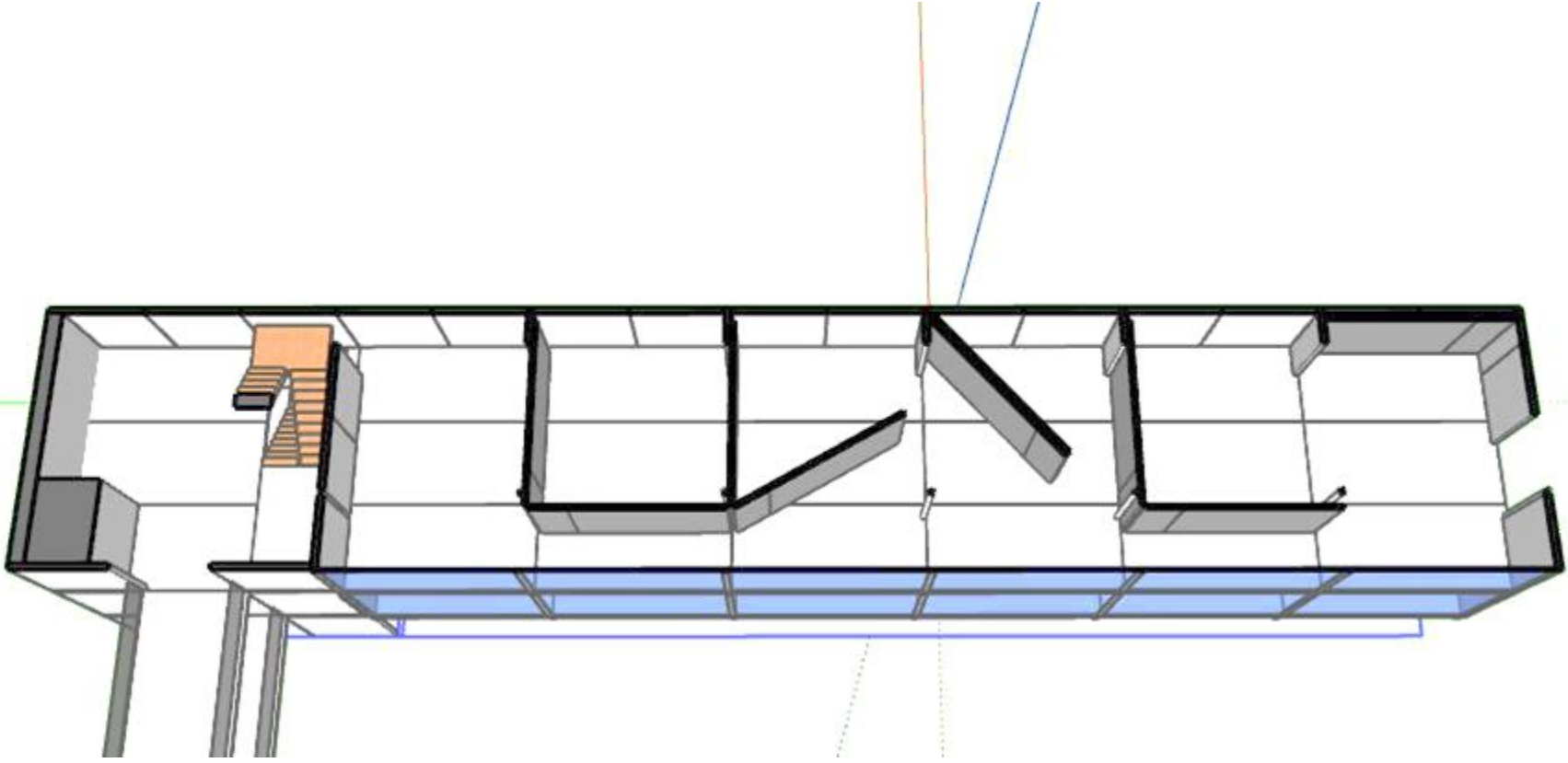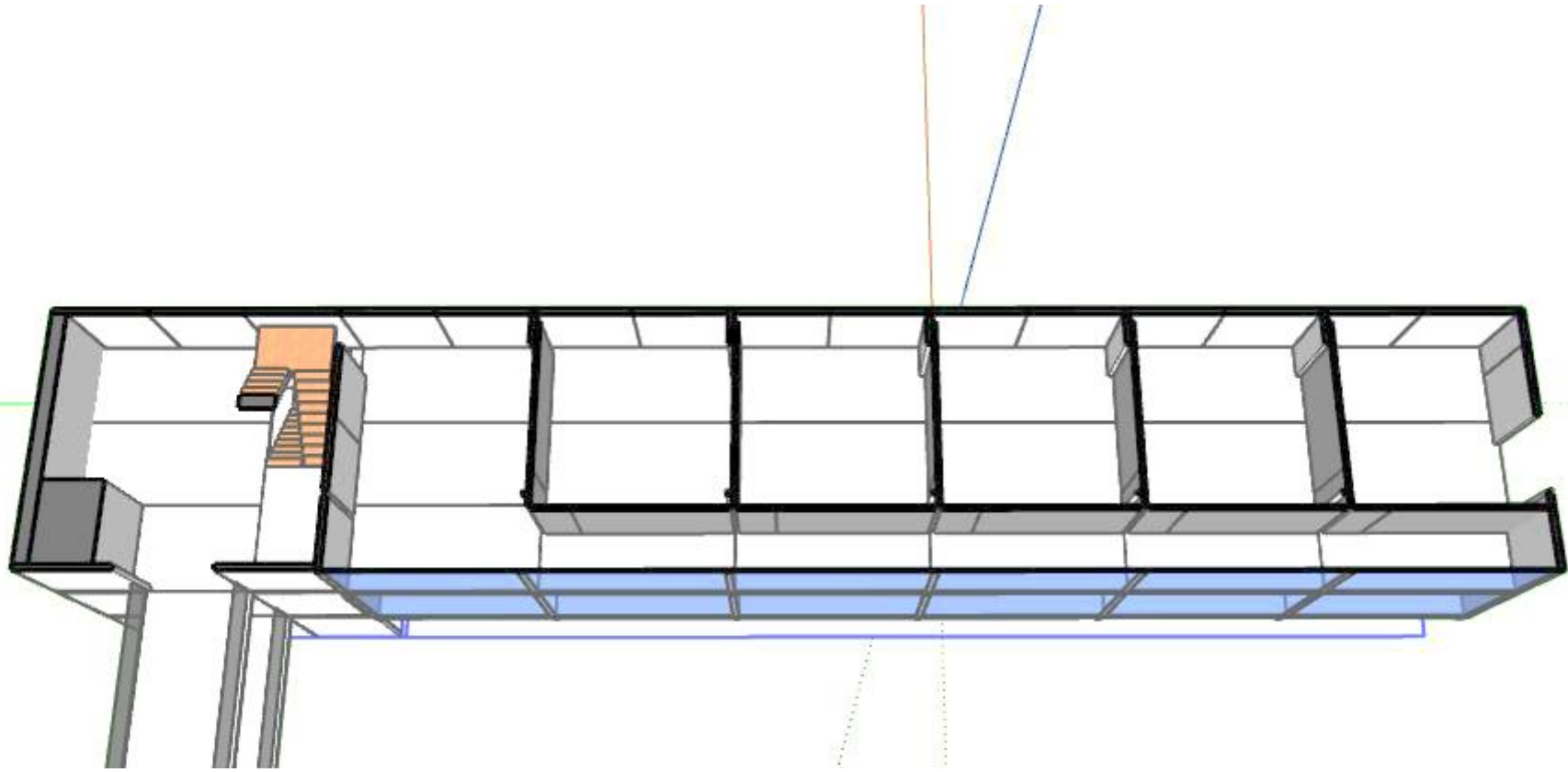# MODELING AND DESIGN.
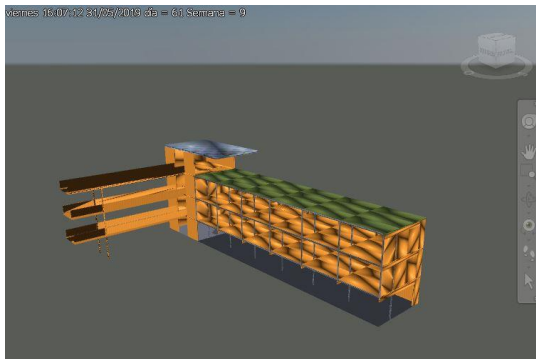## - Modeling decisions and architectural design.

FLEXIBLE SPACES

PLANNING 4D.

lunes 9:00:00 01/04/2019 día = 1 Semana = 1

viernes 16:07:12 31/05/2019 día = 61 Semana = 9

THE WORK IS PLANNED TO BE EXECUTED IN TWO MONTHS, STARTING ON APRIL 1 UNTIL M

Archivo | Tarea | Recurso | Informe | Proyecto | Vista | Ayuda | Formato | ¿Qué desea hacer?

Calibri 11 | 0% 25% 50% 75% 100% | Actualizar según programación | Programar manualmente | Autoprogramar | Tarea | Información | Planner | Desplazarse a tarea

N K S | Respetar vínculos | Desactivar

Diagrama de Gantt | Pegar | Portapapeles | Fuente | Programación | Tareas | Insertar | Propiedades | Vincular a | Edición

Ver

ESCALA DE

dom 14/04/19 | sáb 20/04/19

08 abr '19 | 15 abr '19 | 22 abr '19 | 29 abr '19 | 06 may '19 | 13 may '19 | 20 may '19 | 27 may '19 | 03 jun '19 | 10 jun '19

Inicio | Fin
lun 01/04/19 | Agregar tareas con fechas a la línea de tiempo | lun 10/06/19

	Modo de	Nombre de tarea	Duración	Comienzo	Fin	Predecesor
43	📌	1FP15.	0,11 días	lun 15/04/19	lun 15/04/19	42
44	📌	1FP16.	0,11 días	lun 15/04/19	lun 15/04/19	43
45	📌	1FP17.	0,11 días	lun 15/04/19	lun 15/04/19	44
46	📌	1FP18.	0,11 días	lun 15/04/19	lun 15/04/19	45
47	📌	Finish	0,11 días	lun 15/04/19	mar 16/04/1!	46
48	📌?	◢ Metal pillar. Level 1				
49	📌	1MP1.	0,18 días	lun 15/04/19	mar 16/04/1!	47
50	📌	1MP2.	0,18 días	mar 16/04/1!	mar 16/04/1!	49
51	📌	1MP3.	0,18 días	mar 16/04/1!	mar 16/04/1!	50
52	📌	1MP4.	0,18 días	mar 16/04/1!	mar 16/04/1!	51
53	📌	1MP5.	0,18 días	mar 16/04/1!	mar 16/04/1!	52
54	📌	1MP6.	0,18 días	mar 16/04/1!	mar 16/04/1!	53
55	📌	1MP7.	0,18 días	mar 16/04/1!	mié 17/04/1!	54
56	📌	Finish	0 días	mié 17/04/1!	mié 17/04/1!	55
57	📌?	◢ Portico. Level 1				
58	📌	1P1	0,18 días	mié 17/04/1!	mié 17/04/1!	56
59	📌	1P2	0,18 días	mié 17/04/1!	mié 17/04/1!	58
60	📌	1P3	0,18 días	mié 17/04/1!	mié 17/04/1!	59
61	📌	1P4	0,18 días	mié 17/04/1!	mié 17/04/1!	60

14 abr | lun 15 abr | mar 16 abr | mié 17 abr | jue 18 abr | vie 19 abr | sáb 20 a

17/04

DIAGRAMA DE GANTT

Listo | 📌 Nuevas tareas : Programada manualmente

SUSTAINABILITY STRATEGY

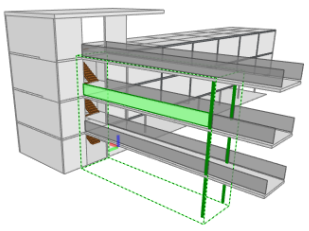# SEFAIRA analysis,Annual Energy Use:

BIM Vision 2.19 - C:\Users\Jaime\Downloads\BIMGame_Old_19 (1).ifc

ARCHIVO VISTA OBJETO MEDIDAS CAMBIOS SUSCRIPCIÓN PLUGINS

Clash Detection | Replace preview | Advanced Reports | STL Exporter | Vistas guardadas | Captura de pantalla | Elegir color | Cargar archivo guardado | Nombre de usuario | Importar Exportar | Temas (0) | Elegir color | Vista por defecto | Buscar | Agrupar | Filtro | Elegir

Gallery · Comentarios · Objetos

Estructura IFC

	Tipo	Nombre	Descrip
√	Columna		Description
√	Columna		Description
√	Columna		Description
√	Columna		Description
√	Columna		Description
√	Columna		Description
	Columna		Description
	Losas		

Propiedades · Localización · Clasificación

Nombre	Valor	Un
Element Specific		
Description	Description of Object	
Guid	2fd_FP8iX2ehiFGjzhs6M1	
IfcEntity	IfcColumn	

BIM Vision

A... | Default Site | Default Building | Default Building Storey | Columnas | Columna

15 m   0.01 s

BIMGame_Old_19 (1) - Excel — Jaime López Campos

Archivo Inicio Insertar Disposición de página Fórmulas Datos Revisar Vista Ayuda ¿Qué desea hacer?

Compartir · Comentarios

A1 — Plantilla

	A	B	C	D	E	F	G	H	I	J	K
1	Plantilla										
2	Fecha	27/02/2019 16:14									
3	Autor	Jaime López Campos									
4	Nombre de f	BIMGame_Old_19 (1).ifc									
5	Marca de tie	2019-02-27T15:51:36									

Número	Materiales	IfcEntity (Element Specific)	Name (Element Specific)	Name (Element Specific)	Bounding Box Height (Geometry) [mm]	Global Top Elevation (Location) [mm]	FileName (Element Specific)	IfcEntity (Element Specific)	IfcSlabTypeEnum (PredefinedType)	IfcStairTypeEnum (ShapeType)	Contar
1		**IfcBuildingElementProxy**									7
1.1		IfcBuildingEler	Object	Object	900	7300		IfcBuildingElementProxy			1
2		**IfcColumn**									6
2.1		IfcColumn			3000	3000		IfcColumn			
2.2		IfcColumn			3000	3000		IfcColumn			
2.3		IfcColumn			3000	6150		IfcColumn			
2.4		IfcColumn			3000	6150		IfcColumn			
2.5		IfcColumn			3000	9300		IfcColumn			
2.6		IfcColumn			3000	9300		IfcColumn			

Sheet1

3D MODEL

BIM Game

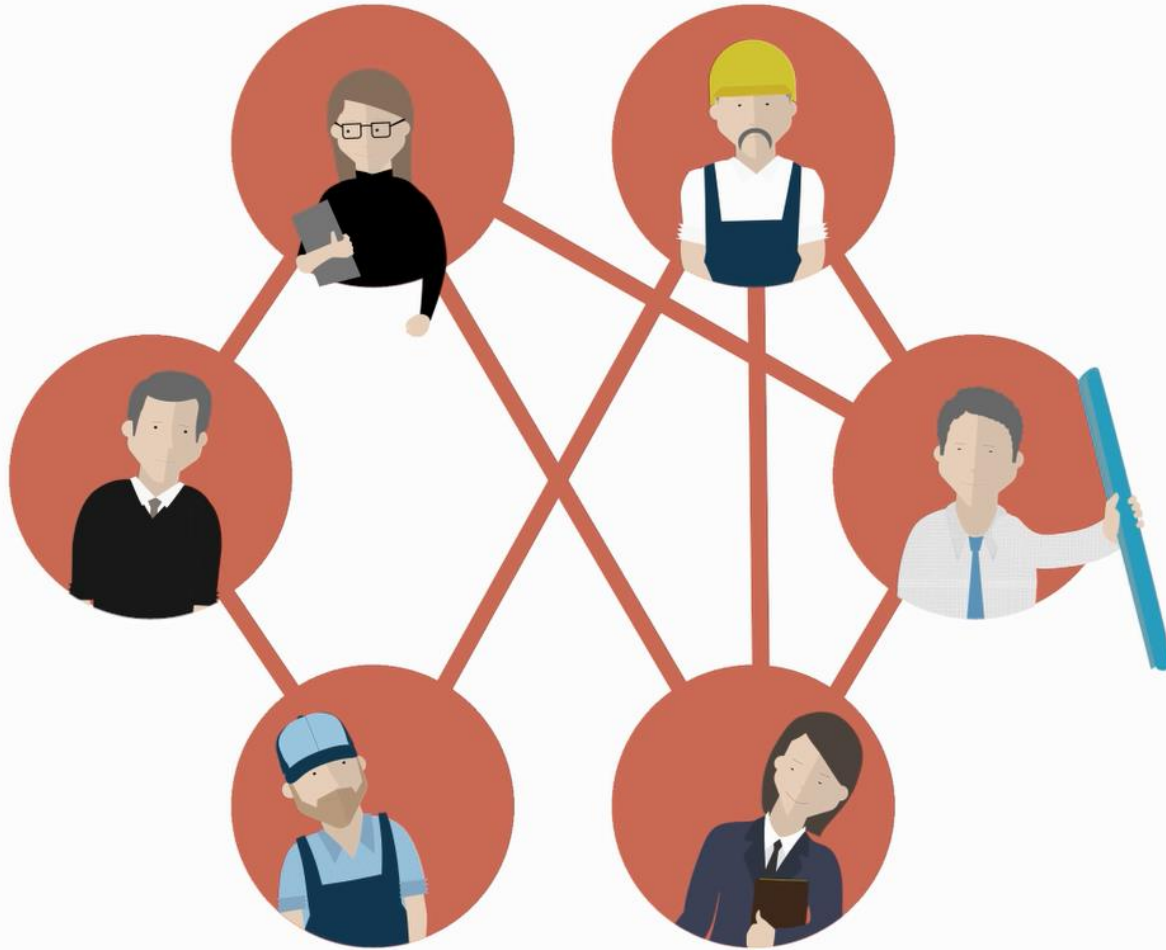Oldenburger BIMTag, 28.02.2019
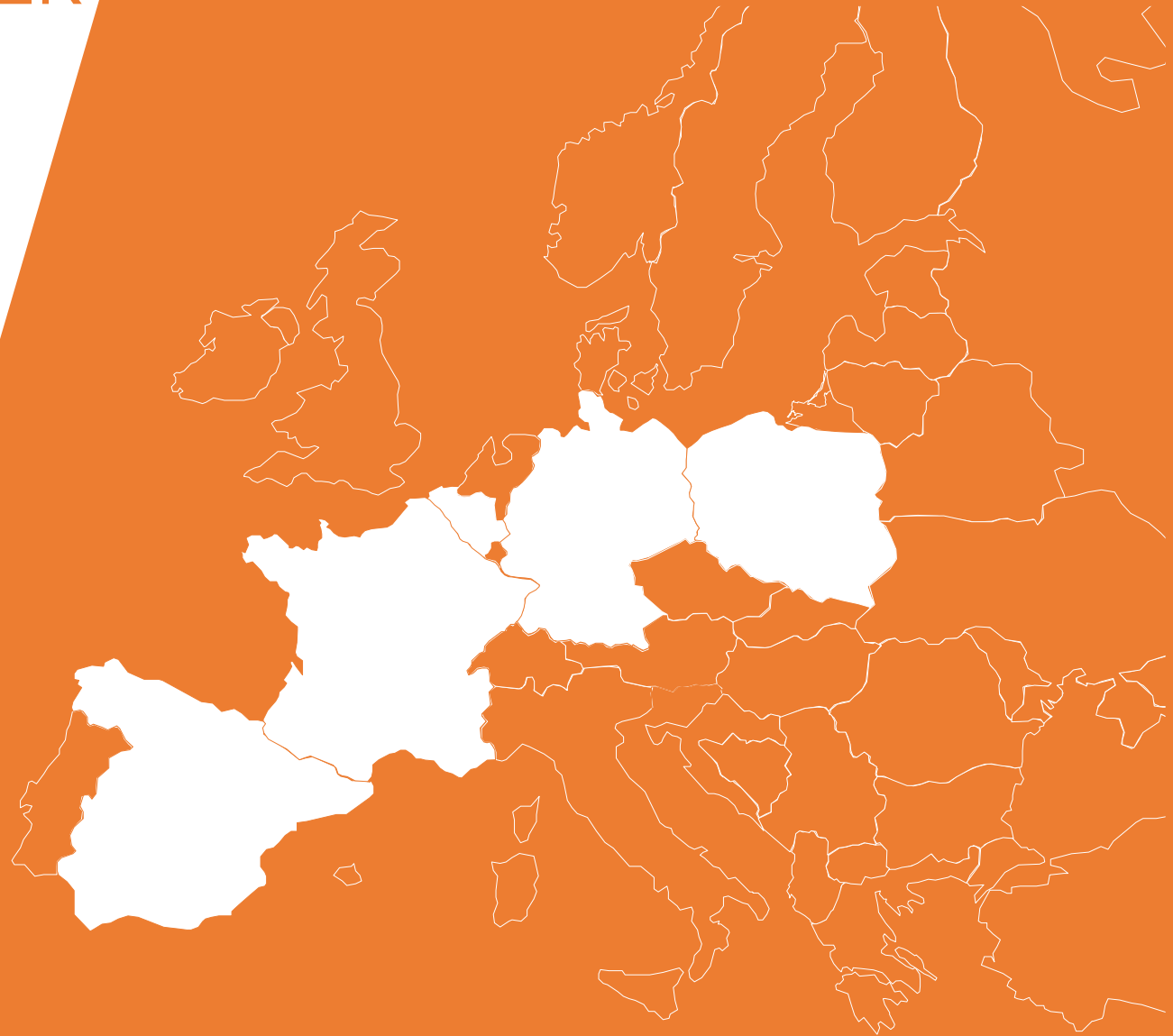
Another way to learn BIM

ARBEIT MIT BIM

- Erfordert Kollaboration
- Hohen Grad an Informationsaustausch
→ Wie wird das Personal darauf vorbereitet?

DAS FORSCHUNGSPROJEKT

- Laufzeit: September 2016 – September 2019

- Förderung über Erasmus+

- Partner aus Frankreich, Belgien, Polen, Spanien und Deutschland

PROF. DR.-ING. JÖRG HÄRTEL
Professor
joerg.haertel@jade-hs.de
0441 7708 3129
www.jade-hs.de/bim

CARLA PÜTZ
Wissenschaftliche Mitarbeiterin
puetz@uni-wuppertal.de
0202 439 4190
www.biminstitut.de

[Video_BIM Game\BIM-Game_Final.mp4](Video_BIM Game\BIM-Game_Final.mp4)

DIGITALISIERUNG DER BAUWIRTSCHAFT
// Worauf kommt es an?

Mensch

Prozesse

Technologie

VERÄNDERUNG

// PROZESSE
// TECHNOLOGIE
// MENSCH

Abschluss der digitalen Transformation

Vier von fünf Unternehmen sehen die digitale Transformation als kontinuierlichen Prozess, der über die nächsten zehn Jahre hinaus laufen wird.

Bereits abgeschlossen	in 5 Jahren	in 10 Jahren	in mehr als 10 Jahren	Kontinuierlicher Prozess
0 %	4 %	9 %	16 %	80 %

Trendstudie von Tata Consultancy Services (TCS) und Bitkom Research

DIE EIGENE DIGITALISIERUNGS-STRATEGIE FINDEN

DER MENSCH SCHEUT DEN WANDEL

TECHNOLOGIE

Funktioniert nicht ohne die Menschen

NACHTEIL

1

**NEUE MITARBEITER
mit IT- Kenntnissen
rekrutieren**

- Ggf. fehlende Berufserfahrung
- Einarbeitung in die Prozesse und Unternehmensstruktur
- Nachwuchskräftemangel
- Rekrutierungskosten

2

**Mit IT-KOMPETENZPARTNERN
kooperieren**

- Abhängigkeit
- Kosten
- Vertraulichkeit

3

**EIGENE MITARBEITER
um IT-Kenntnisse
weiterbilden**

- Weiterbildungsaufwand
- Akzeptanzhürden

KLASSISCHES SCHULUNGS-FORMAT

WENIG AUFMERKSAMKEIT WENIG BLEIBT HÄNGEN

NATÜRLICHER
SPIELTRIEB
→ MEHR MOTIVATION

KLARE ZIELE
DIREKTES FEEDBACK

GAMIFICATION

- ÜBERTRAGUNG VON **SPIELTYPISCHEN ELEMENTEN** IN **SPIELFREMDE ZUSAMMENHÄNGE**

- ZIEL: VERHALTENSÄNDERUNG UND **MOTIVATIONSSTEIGERUNG**

- BEWÄLTIGUNG VON AUFGABEN DURCH INDIVIDUELLE UND **KOLLABORATIVE** LEISTUNGEN.

&

&

Einsatz kostenloser Software

Creativity   Technologies   Collaboration   Flexibility

Chat

Mail

File deposit

BIM GAME
// nextcloud (e-learning Plattform)

BIM GAME
// nextcloud (e-learning Plattform)

BIM GAME
// nextcloud (e-learning Plattform)

BIM GAME
// nextcloud (e-learning Plattform)

// nextcloud (e-learning Plattform)

BIM GAME
// Rolle des Lehrers

	Utilisateur Infos				Chats					Total		
Rôle	Login	Civilité	Nom	Prénom	Messages chat	Destinataires chat	Bonus chats	Malus chats	Résultat chats	Bonus total	Malus total	Résultat
gestion du patrimoine	mburns	M	Burns	Montgomery	0		0	0	0	0	0	50
tuteur	ffroidurot	M	FROIDUROT	FLORIAN	2	simpson bart	2	0	2	8	0	58
Élu local	jjones	M	Jones	Jimbo	0		0	0	0	0	0	50
usager	bsimpson	M	Simpson	Bart	2	froidurot florian	2	0	2	8	0	58
maintenance - exploitation	hsimpson	M	Simpson	Homer	0		0	0	0	3	0	53

Voir 1 à 5 of 5 enregistrements
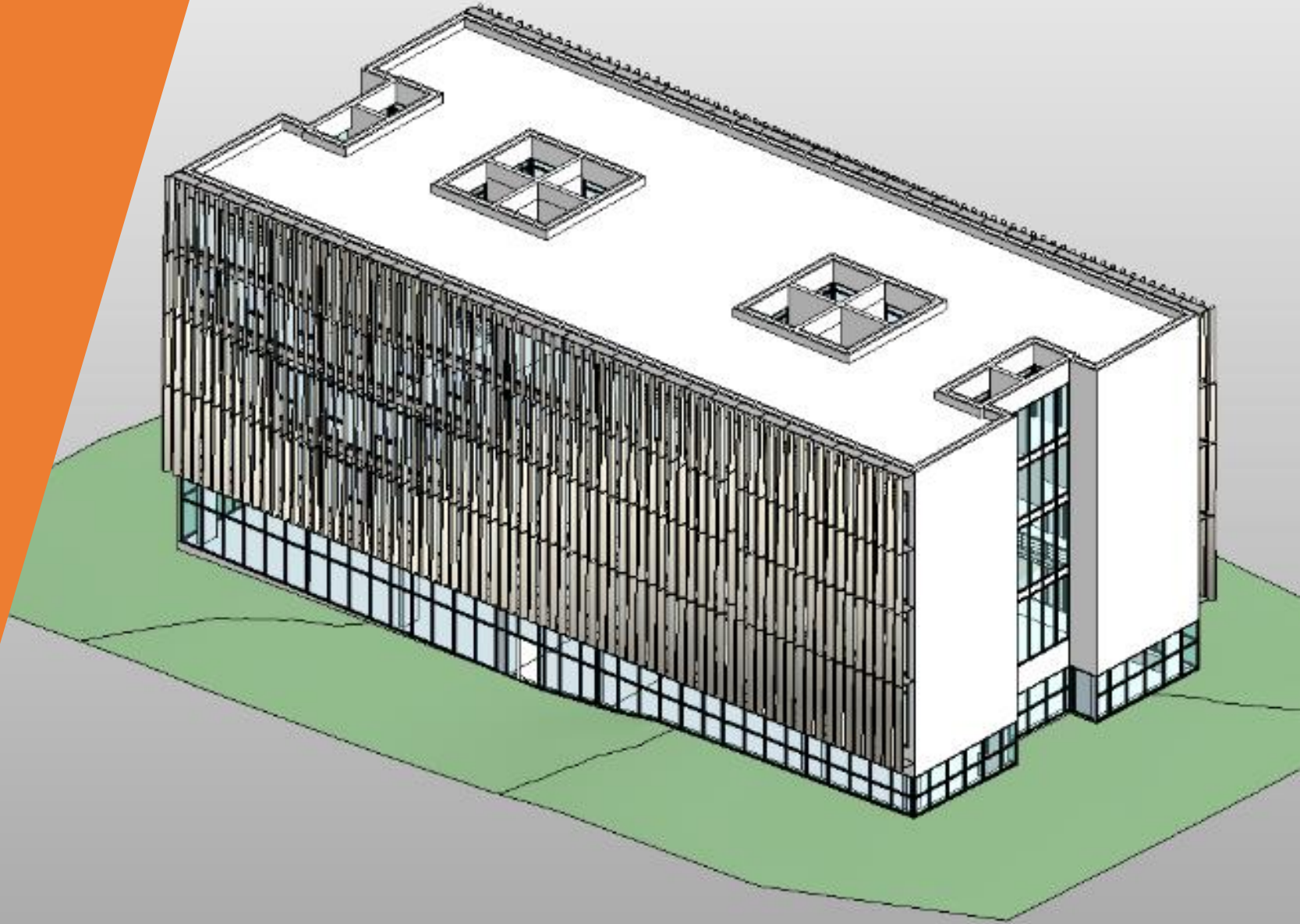
BIM GAME
// Rolle des Lehrers

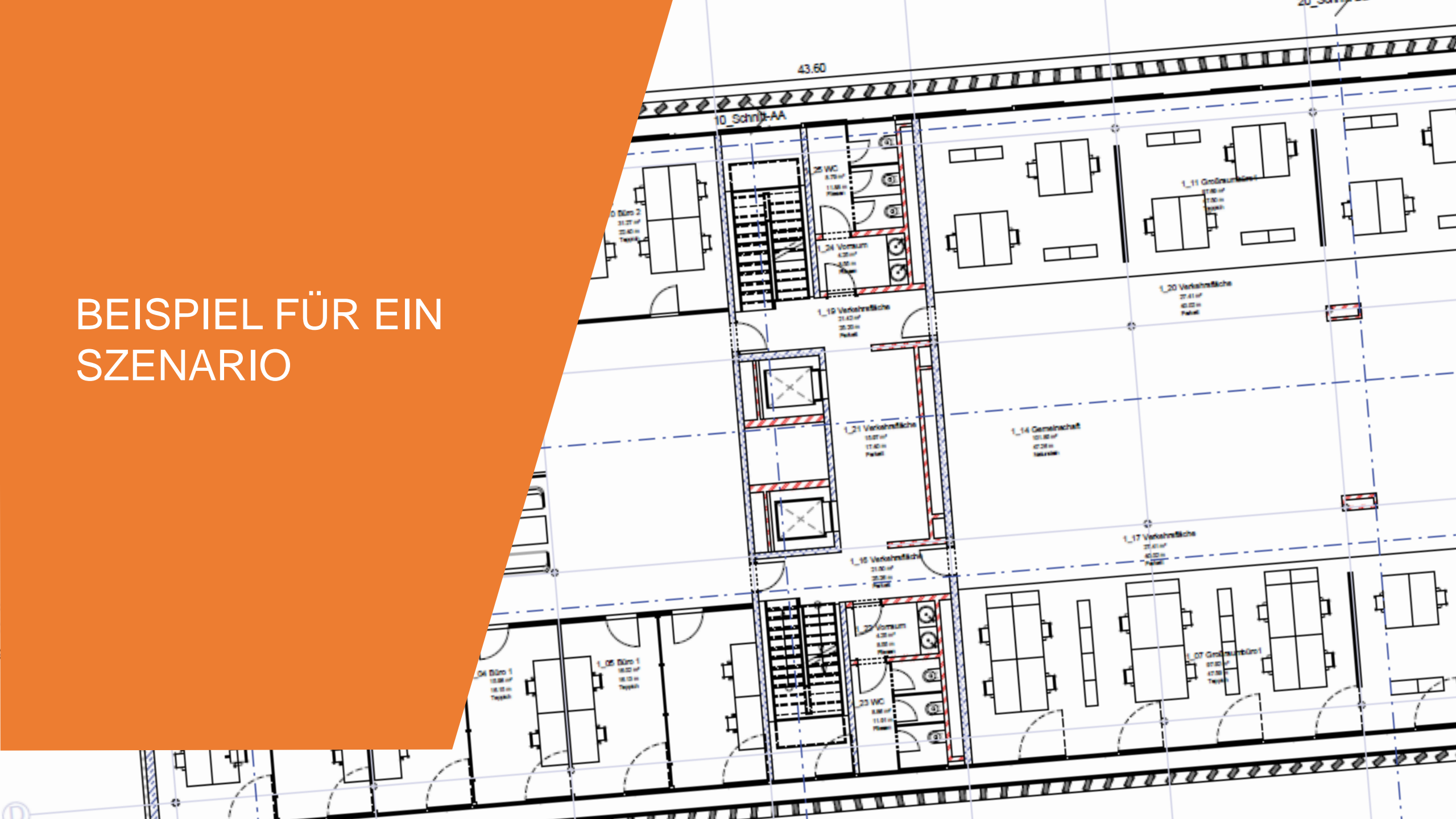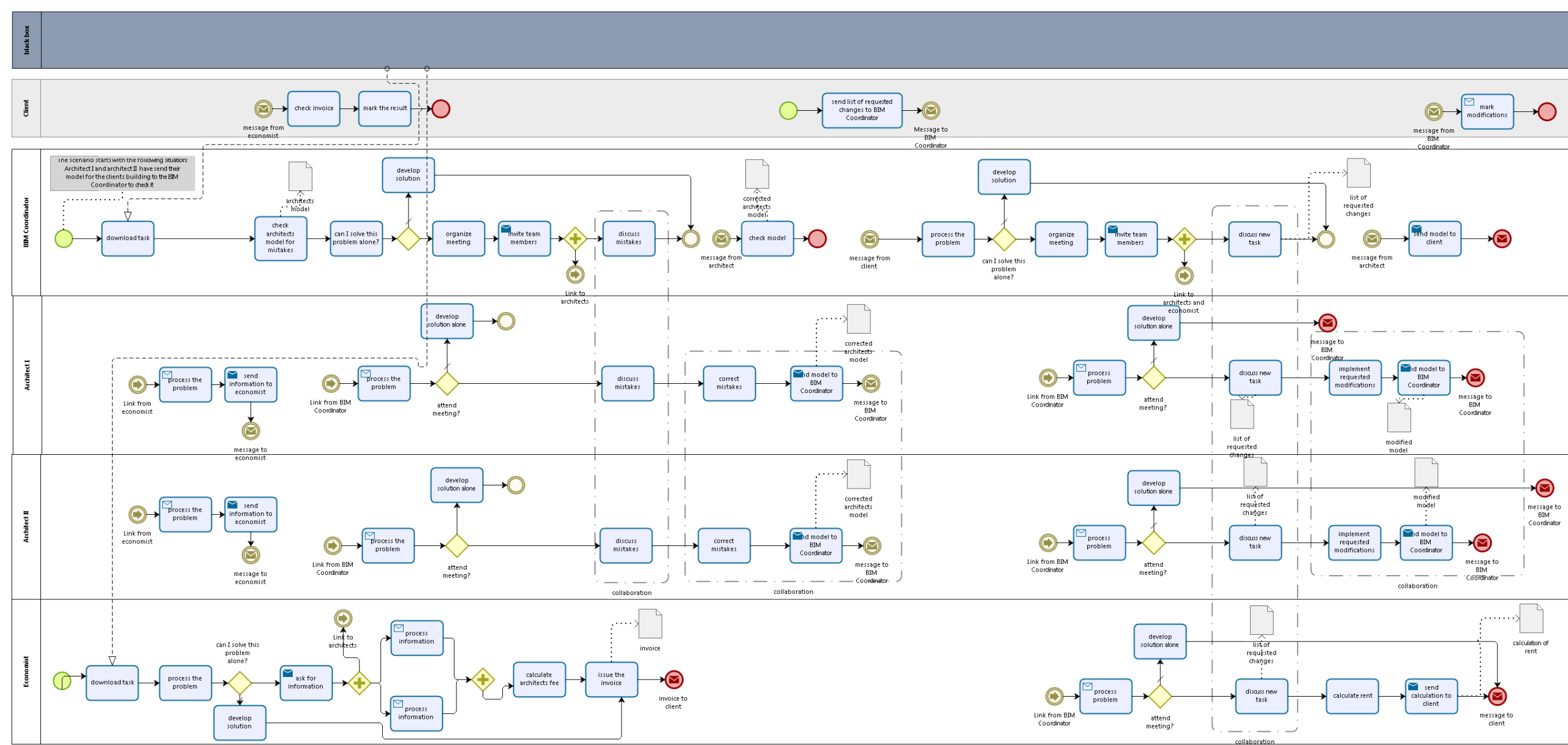|	Utilisateur Infos				Dépôts fichiers				Total		
Rôle	Login	Civilité	Nom ▲	Prénom	Dépôts	Bonus dépôts	Malus dépôts	Résultat dépôts	Bonus total	Malus total	Résultat
gestion du patrimoine	mburns	M	Burns	Montgomery	0	0	0	0	0	0	50
tuteur	ffroidurot	M	FROIDUROT	FLORIAN	1	1	0	1	8	0	58
Élu local	jjones	M	Jones	Jimbo	0	0	0	0	0	0	50
usager	bsimpson	M	Simpson	Bart	2	2	0	2	8	0	58
maintenance - exploitation	hsimpson	M	Simpson	Homer	0	0	0	0	3	0	53

BIM GAME
// Rolle des Lehrers

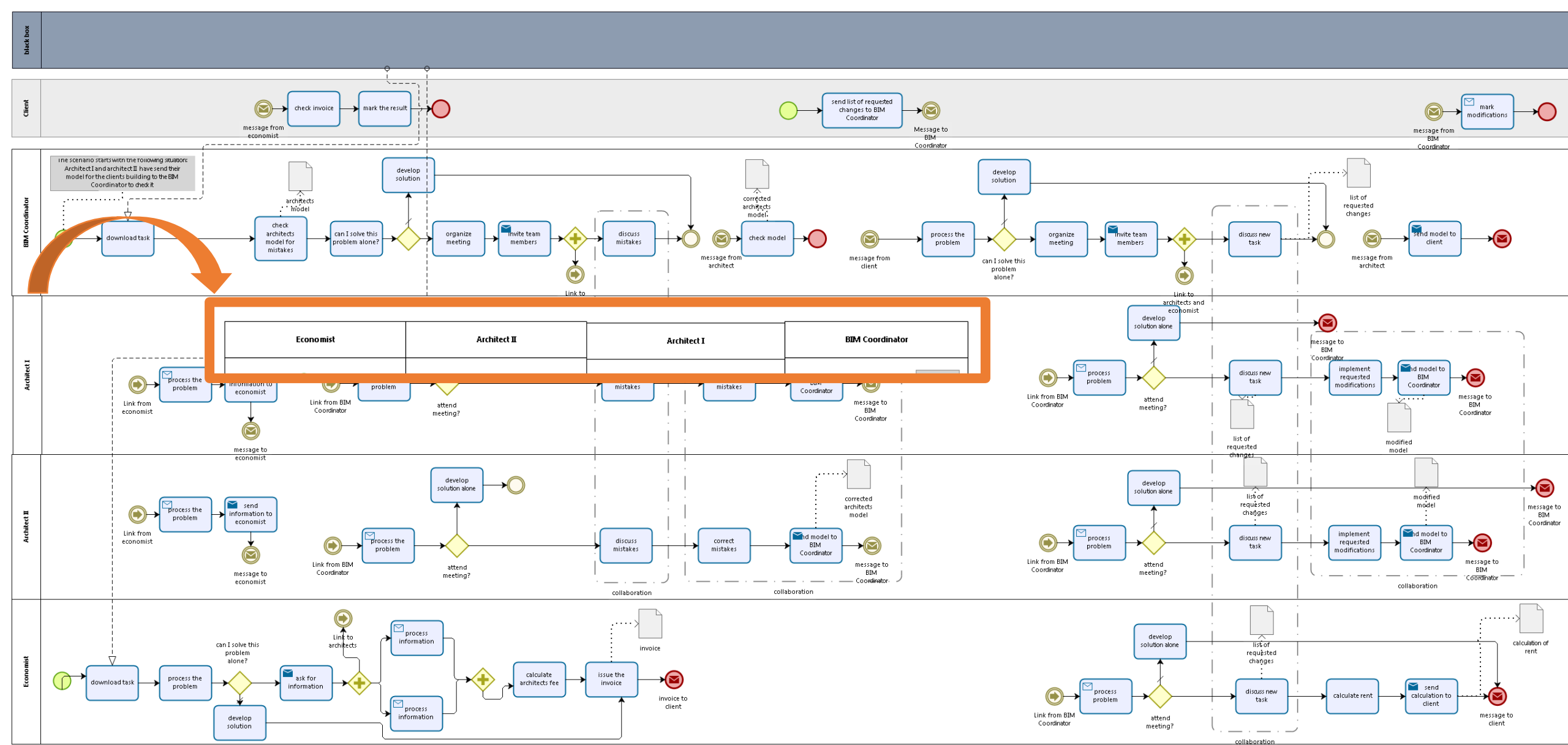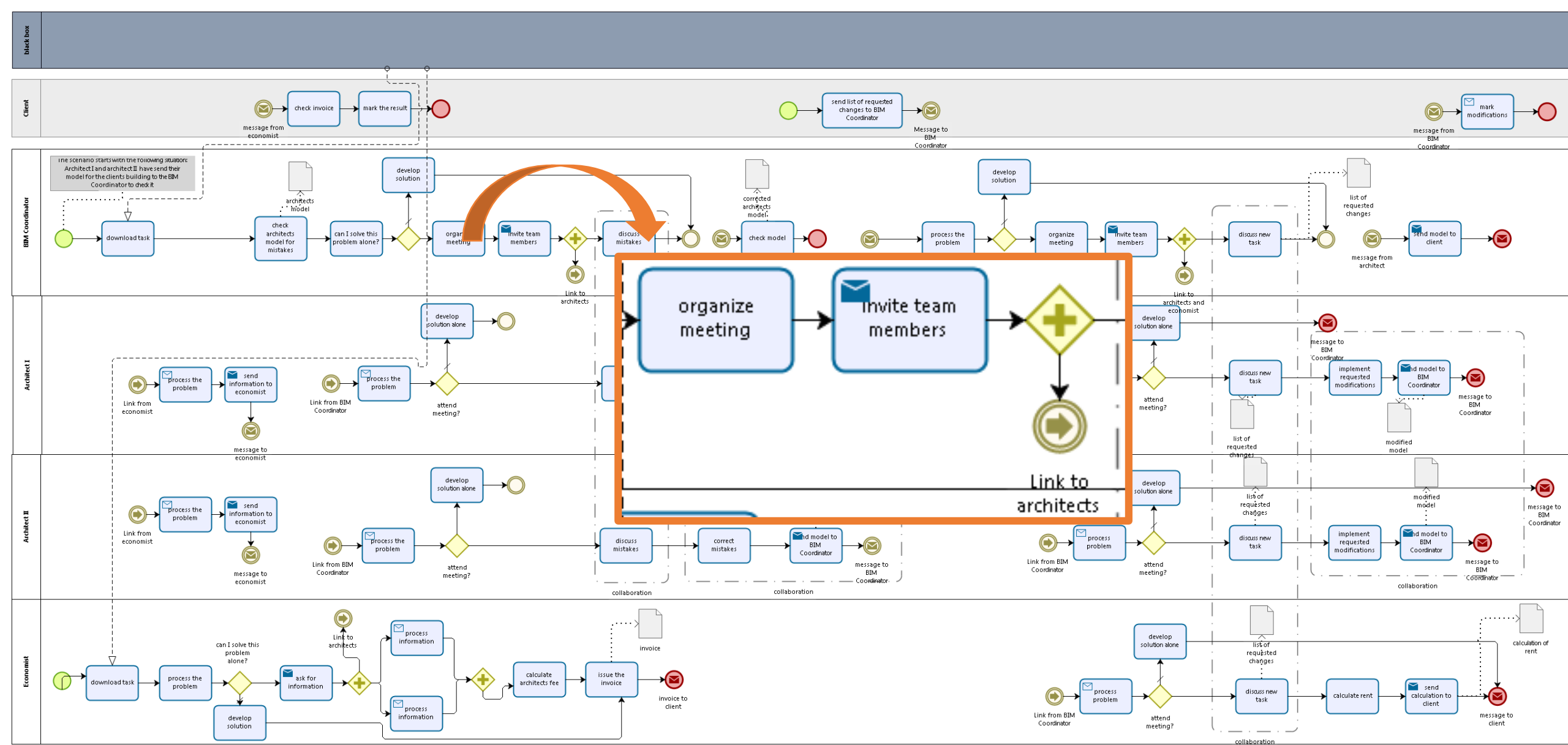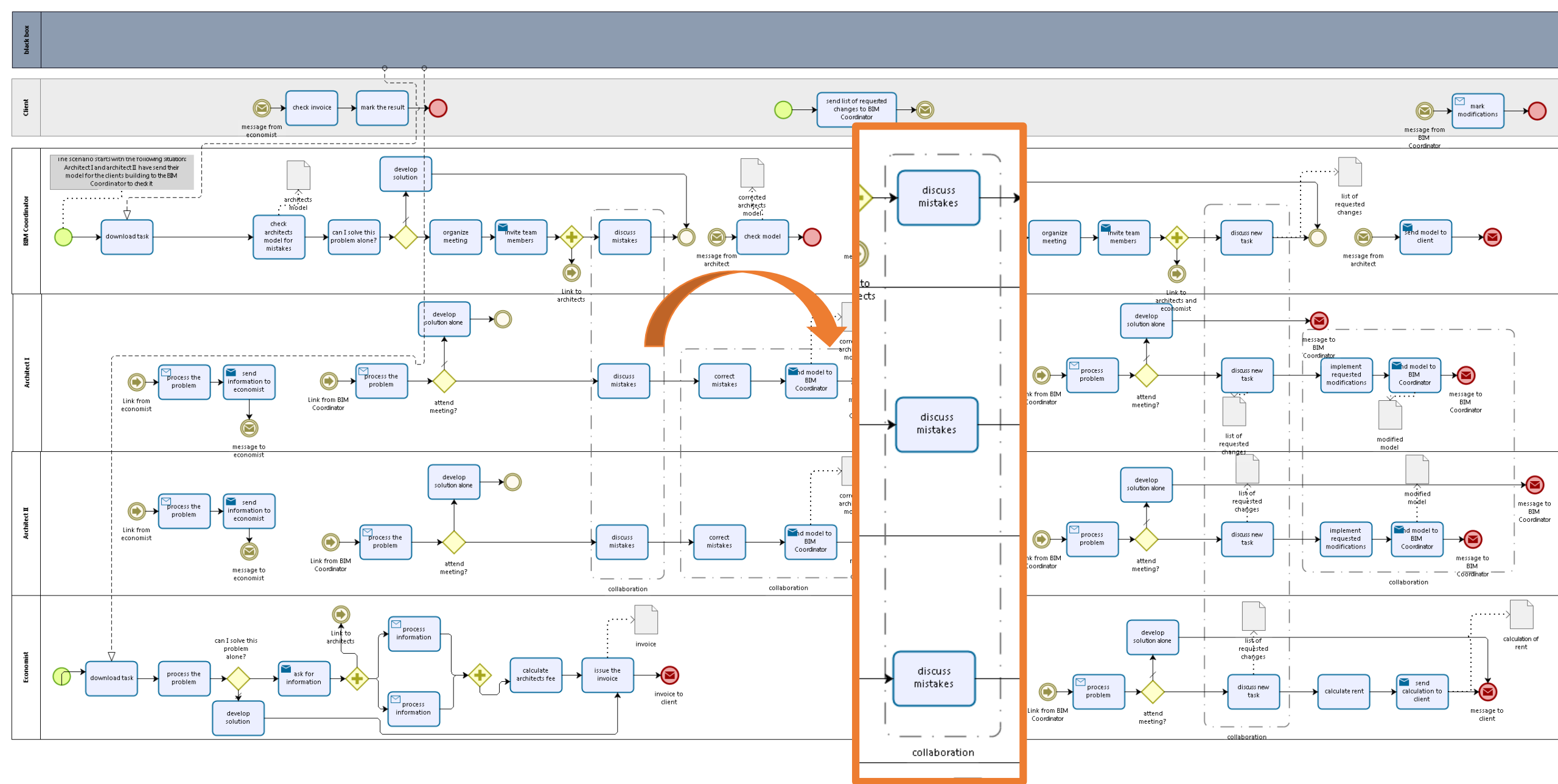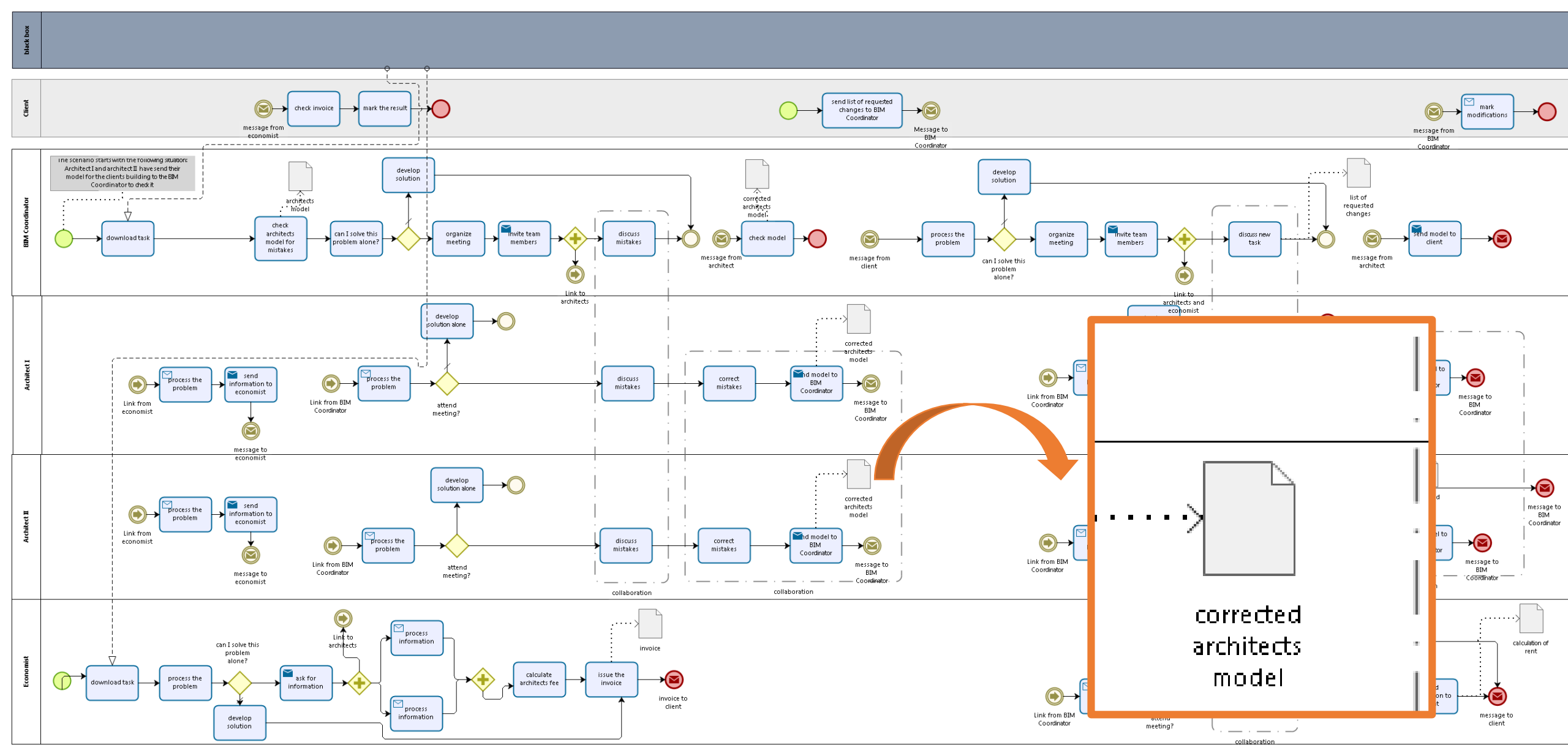| Utilisateur Infos					Mails					Total		
Rôle	Login	Civilité	Nom	Prénom	Mails envoyés	Destinataires mails	Mails reçus	Bonus mails	Malus mails	Résultat mails	Bonus total	Malus total	Résultat
gestion du patrimoine	mburns	M	Burns	Montgomery	0		3	0	0	0	0	0	50
tuteur	ffroidurot	M	FROIDUROT	FLORIAN	5	florian froidurot, jimbo jones, bart simpson, homer simpson, montgomery burns	1	5	0	5	8	0	58
Élu local	jjones	M	Jones	Jimbo	0		2	0	0	0	0	0	50
usager	bsimpson	M	Simpson	Bart	4	jimbo jones, bart simpson, homer simpson, montgomery burns	4	4	0	4	8	0	58
maintenance - exploitation	hsimpson	M	Simpson	Homer	3	bart simpson, montgomery burns	2	3	0	3	3	0	53

BEISPIEL FÜR EIN SZENARIO

BEISPIEL FÜR EIN SZENARIO

42

43

45

EINGEBAUTE FEHLER IM MODELL

UMSETZUNGS-
BEISPIEL

UMSETZUNGS-
BEISPIEL

UMSETZUNGS-BEISPIEL

SPASS AM LERNEN

VERBESSERUNG
ONLINEPLATTFORM

TESTUMSETZUNGEN

ABSCHLUSS-
KONGRESS

VIELEN DANK FÜR DIE AUFMERKSAMKEIT!