



PROGETTO RIQUALIFICAZIONE

Lorenzo Penna | One Works

**LA RIQUALIFICAZIONE
DELL'ESISTENTE E LA
PROGETTAZIONE IN BIM**

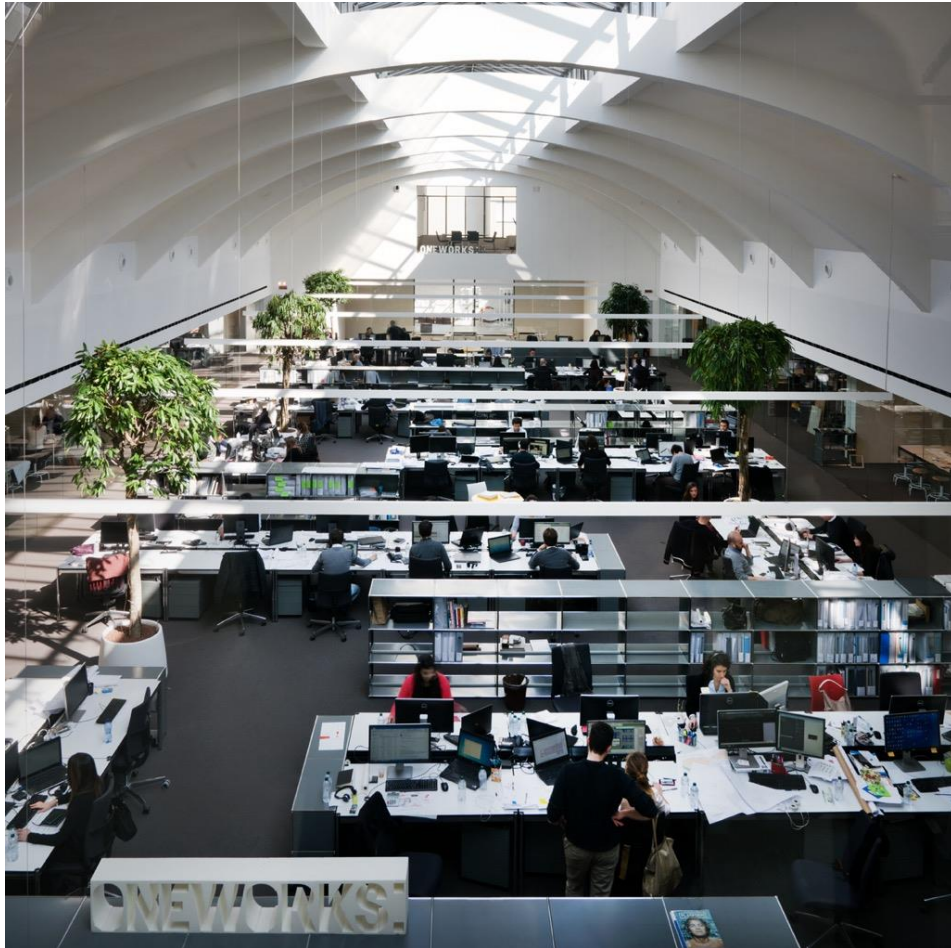
TORINO | 30 settembre 2020



LA SOCIETÀ'



PROGETTO
RIQUALIFICAZIONE



One Works is a global design and consultancy firm, offering an integrated approach to architecture, infrastructure and urban engineering.

We believe in creating dynamic, intuitive places where people and communities can connect with their environment, and with each other.

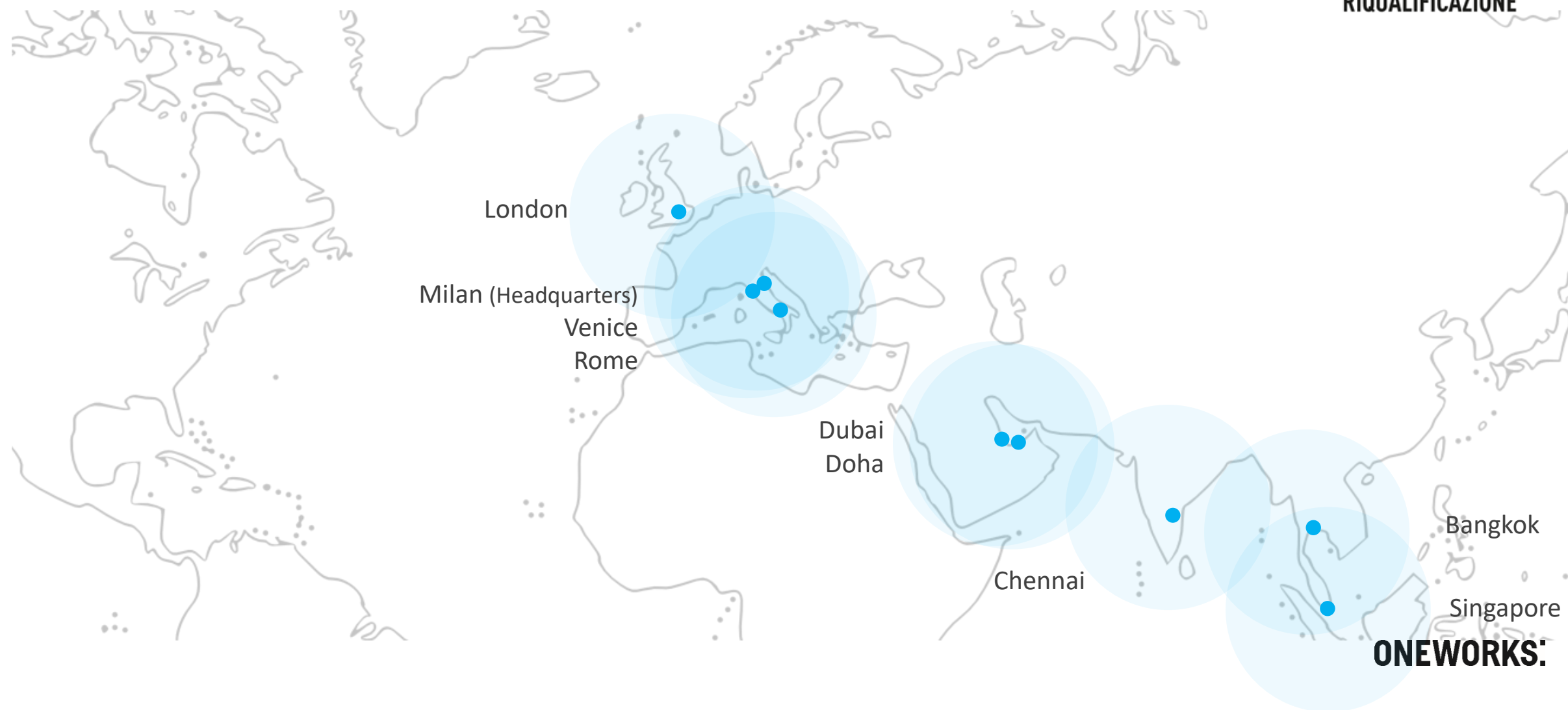
We continually **invest in technology and training**, including BIM, to enhance the services we offer.

ONEWORKS:

LE SEDI



PROGETTO
RIQUALIFICAZIONE



L'EXPERTISE



PROGETTO
RIQUALIFICAZIONE



AVIATION
CONSULTANCY

ADVISORY &
CONSULTANCY

PROJECT SUPPORT
SERVICES

CONTRACTOR
SUPPORT SERVICES

ONWORKS:



AVIATION

Consultancy
Masterplanning
Airside Design
Landside Design



TRANSPORTATION

Metro and Rail
Ports & Maritime
Parking and Roads



URBAN DESIGN

Masterplanning
Urban Realm
Transport Orientated
Development



RETAIL

Shopping Centres
Urban Destinations
New Destinations



BUILDINGS

Offices
Hospitality
Education
Cultural

LA RIQUALIFICAZIONE DELL'ESISTENTE E LA PROGETTAZIONE IN BIM

CHE COS'E' IL BIM?

CHE COS'E' IL BIM?



PROGETTO
RIQUALIFICAZIONE

BIM or **Building Information Modelling** is a process for creating and managing **information** on a construction project across the project **lifecycle**. One of the key outputs of this process is the Building Information Model, the digital description of every aspect of the built asset. This model draws on information assembled **collaboratively** and updated at key stages of a project. Creating a digital Building Information Model enables those who interact with the building to optimize their actions, resulting in a greater whole life value for the asset.

UK National Building Specification (NBS), RIBA

Building Information Modeling (BIM) is a digital representation of physical and functional characteristics of a facility. A BIM is a **shared knowledge resource** for **information** about a facility forming a reliable basis for decisions during its **life-cycle**; defined as existing from earliest conception to demolition..

USA National BIM Standard Commission



ONWORKS:

CHE COS'E' IL BIM?



PROGETTO
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ONWORKS:

LA RIQUALIFICAZIONE DELL'ESISTENTE E LA PROGETTAZIONE IN BIM



PROGETTO
RIQUALIFICAZIONE

RIQUALIFICAZIONE E AMPLIAMENTO DEL TERMINAL PASSEGGERI DELL'AEROPORTO MARCO POLO DI VENEZIA

ONWORKS:

IL PROGETTO

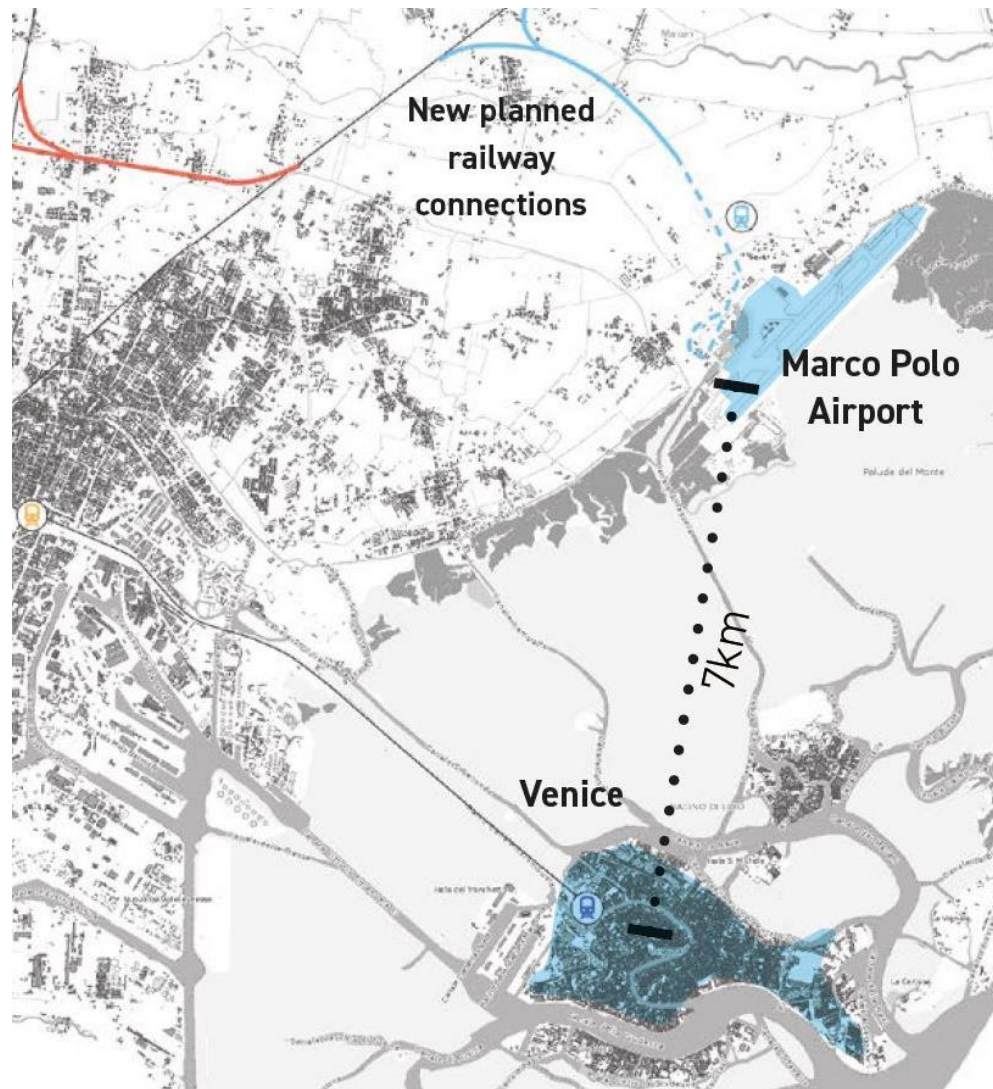


PROGETTO
RIQUALIFICAZIONE



ONWORKS:

IL PROGETTO



PROGETTO
RIQUALIFICAZIONE

ONWORKS:

OVERVIEW OF THE AIRPORT EXPANSION

Three phase extension programme to meet the complex functional, architectural and constructive demands for over 15 million passengers expected every year. Marco Polo International Airport is a prestigious city gateway featuring innovative materials and a premium retail offer.

PHASE - LOT 1

Recently completed, the initial Lot 1 expansion of the airport's passenger terminal is designed to accommodate the departing and arriving passengers on various floors thus restoring pedestrian traffic circulation to an acceptable level of service.

LANDSIDE MASTERPLAN

One Works is currently working with SAVE to develop a design for the next phase of development to create Venice Marco Polo as a new destination airport with improved public spaces, hotel and conference facilities, as well as an impressive new retail and entertainment hub.

OVERVIEW OF THE AIRPORT EXPANSION

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PHASE - LOT 1

Recently completed, the initial Lot 1 expansion of the airport's passenger terminal is designed to accommodate the departing and arriving passengers on various floors thus restoring pedestrian traffic circulation to an acceptable level of service.

PHASE - LOT 2B

One Works is working on the design development of Lot 2B, placed south of the existing terminal, that will serve Extra-Schengen passengers. The expansion is planned in 4 phases. The first 3 expansion phases, guarantee an increase in the gross surface area of the terminal of around 49,900 sqm. Additional 15,600 sqm are supplied instead from phase 4, thus bringing the total gross area of the terminal to approximately 204,300 square meters.

LANDSIDE MASTERPLAN

One Works is currently working with SAVE to develop a design for the next phase of development to create Venice Marco Polo as a new destination airport with improved public spaces, hotel and conference facilities, as well as an impressive new retail and entertainment hub.

PHASE - LOT 2A

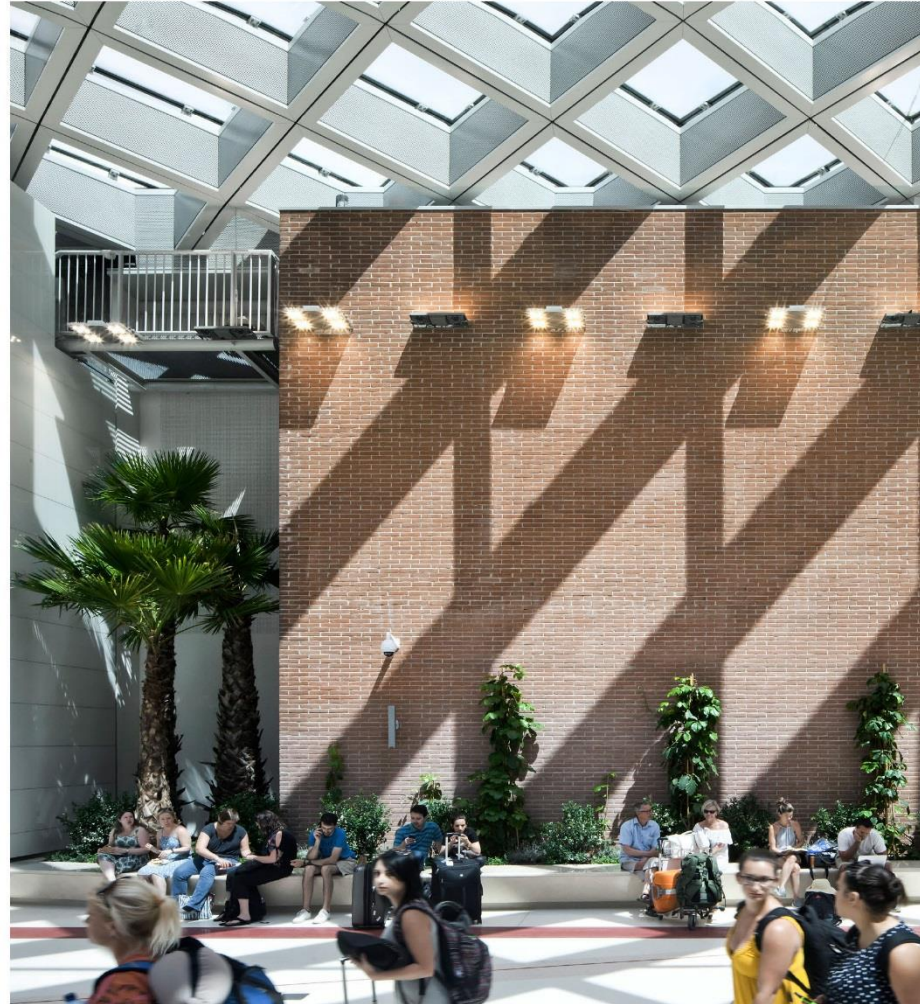
Part two of the second phase of expansion (due to complete in 2025) and comprises the construction of a new north wing to increase of the terminal's operational capacity on both airside and landside. Through the creation of new volumes and rationalization of existing functions, dramatic improvements will be made to services offered and passenger experience.

IL PROGETTO

A NEW LIGHT-FILLED TERMINAL HALL

One Works provided full architectural design services for the new departure lounge, as well as acting as artistic supervisors during construction to provide a welcoming and relaxing environment for all.

The new space offers a spacious welcome for passengers, channelling them into an elegant, light-filled area where they can shop, eat or just relax while waiting for their flight.



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ONWORKS:



IL PROGETTO

THE EXPANDED TERMINAL HALL

This phase represents the second important extension of the passenger terminal that was necessary, mainly to adapt the capacity of the airport to the growing traffic demand.

One Works paid careful attention to all of the construction materials and finishes throughout this terminal refurbishment and expansion project to ensure they embodied the architectural vision for the airport's future and maintained consistency with the buildings' original fabric.



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ONWORKS:



ONWORKS:

IL PROGETTO

THE EXPANDED BOARDING AREAS

Local materials such as bricks and stone linked the airport to the lagoon landscape while maximizing durability and sustainability. Iron and glass created the transparency required to allow the natural light to illuminate the space.

Textures, colors, and lighting also evoked the Venetian environment, identifying the airport's sense of place while providing the best possible customer experience and highlighting its spaciousness.



PROGETTO
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ONWORKS:



RSACE

VALENTINO

DIESEL

VALENTINO

5 4 3

5 4 3

6 6
London Gatwick 18:50
Frankfurt 19:20
London Gatwick 20:50

7 8

7 8
easyJet
London Gatwick 18:50
Frankfurt 19:20
London Gatwick 20:50

ONWORKS:

LA RIQUALIFICAZIONE DELL'ESISTENTE E LA PROGETTAZIONE IN BIM

PROGETTAZIONE INTEGRATA E COORDINAMENTO BIM

BIM SET UP



OBIETTIVI

- Standard condivisi (EIR)
- Aumentare la qualità
- Ridurre errori
- Ridurre i tempi di stima delle quantità e dei costi
- Valutare rapidamente le varie opzioni progettuali

USI DEI MODELLI

- Creazione di template e standard (BEP)
- Coordinamento tra discipline
- Verifica delle interferenze (Clash Detection)
- Estrazione della documentazione grafica
- Estrazione quantità



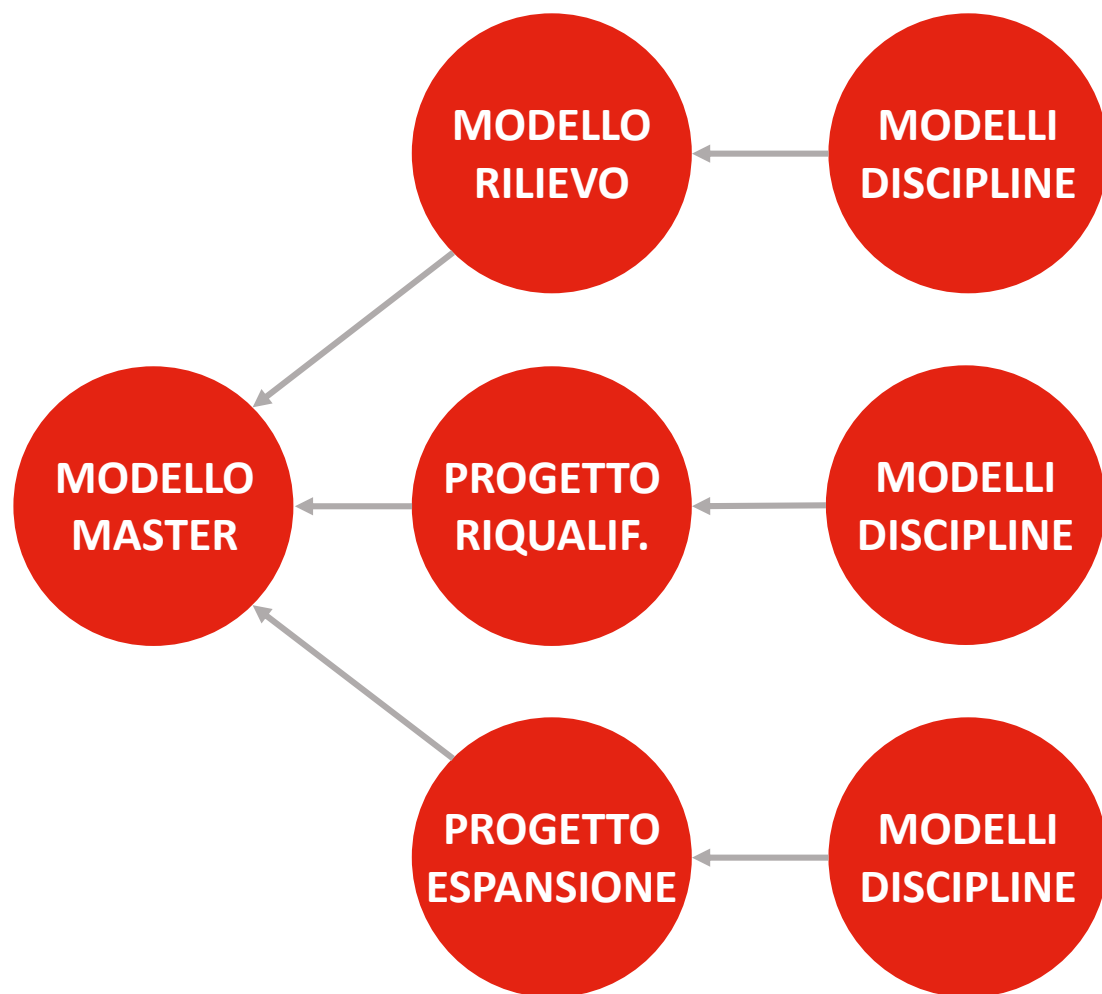
PROGETTO
RIQUALIFICAZIONE

ONWORKS:

L'IMPOSTAZIONE DEI MODELLI



PROGETTO
RIQUALIFICAZIONE



DISCIPLINE PRINCIPALI

ARCHITETTURA	(20 MODELLI)
STRUTTURE	(10 MODELLI)
MEP	(17 MODELLI)
BHS	(2 MODELLI)
CIVILE	(DWG/TOPO)

FORMATI DI SCAMBIO

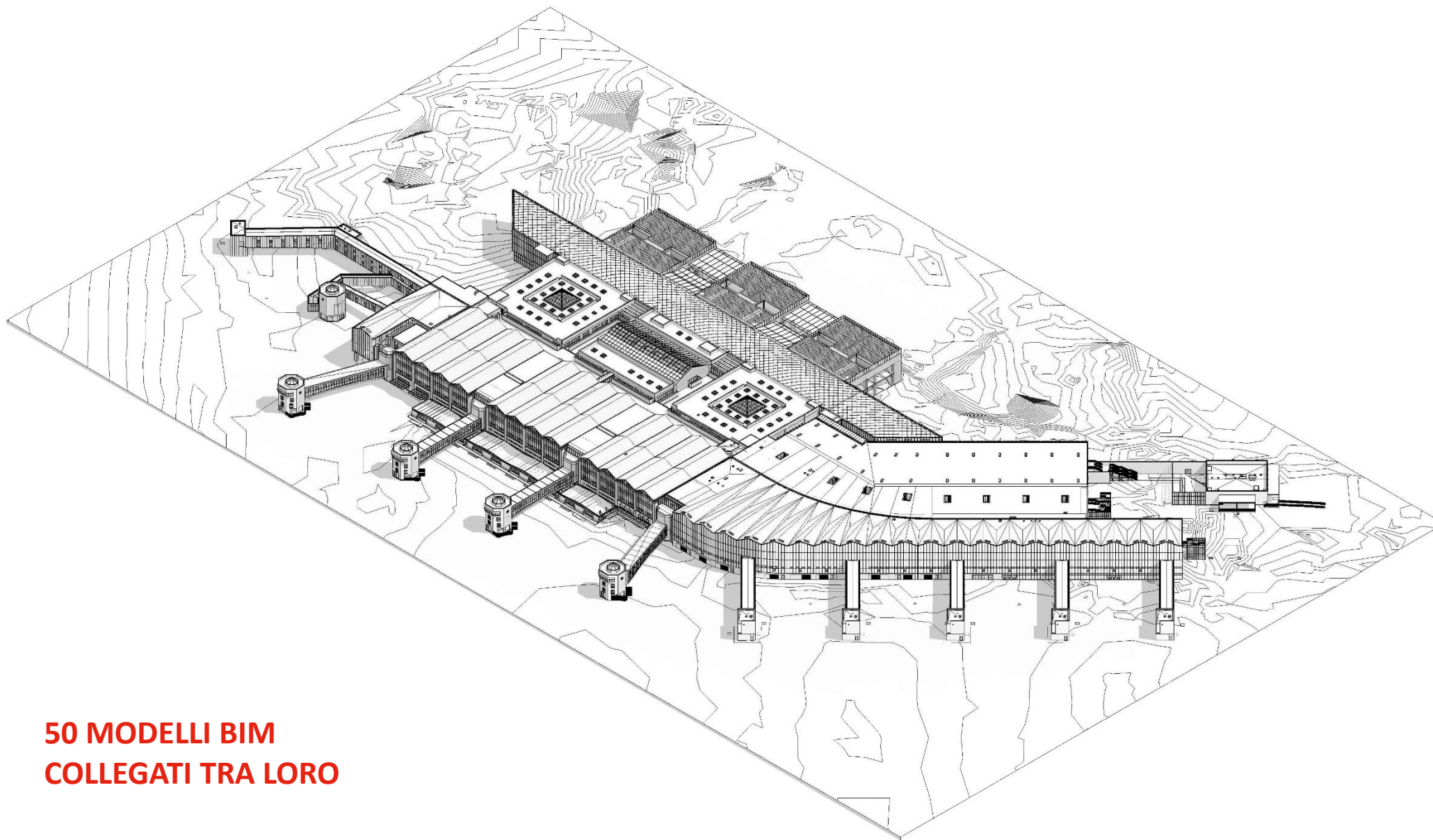
NATIVI: RVT/RFA
COORDINAMENTO: NWC/NWD
INTERSCAMBIO: IFC

ONWORKS:

IL MODELLO MASTER



PROGETTO
RIQUALIFICAZIONE



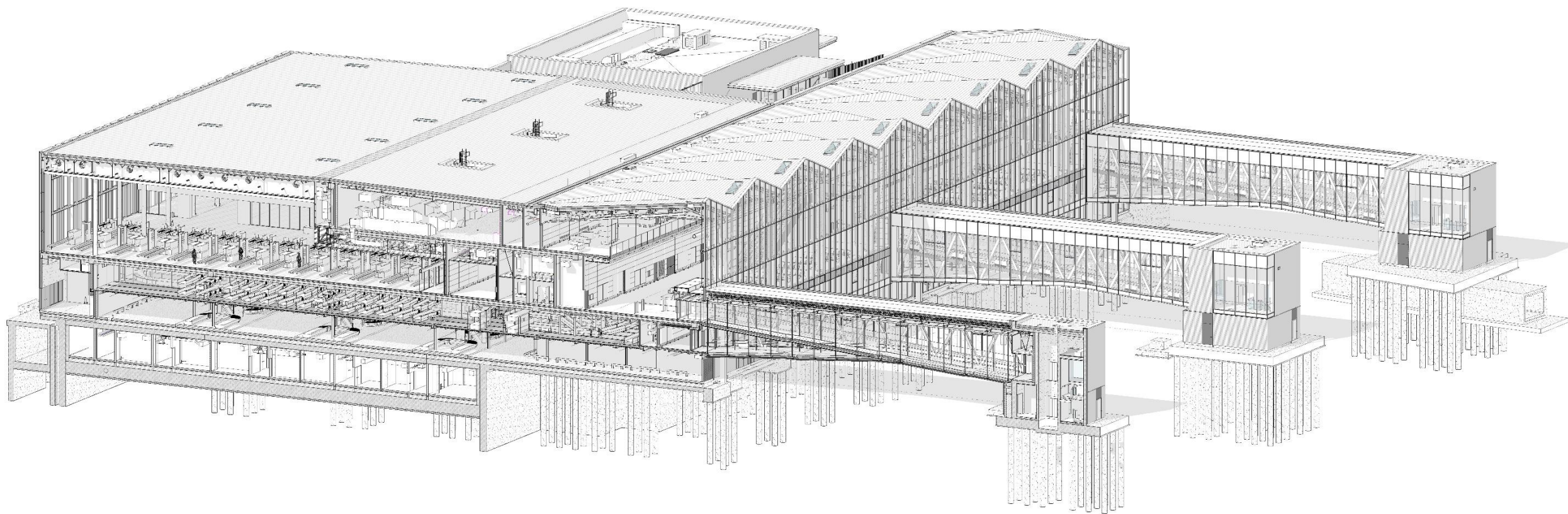
50 MODELLI BIM
COLLEGATI TRA LORO

ONWORKS:

ESTRATTO DEL MODELLO ARCHITETTONICO



PROGETTO
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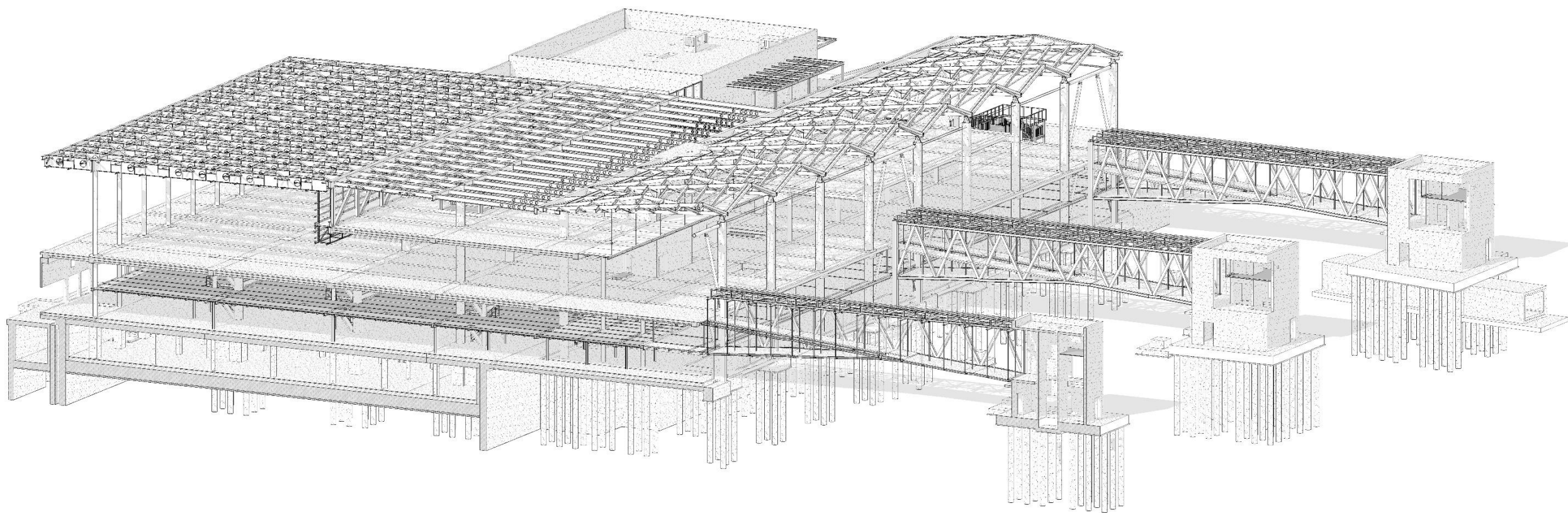
INVOLUCRO, PARTIZIONI,
ARREDO E WAYFINDING

ONWORKS:

ESTRATTO DEL MODELLO STRUTTURALE



PROGETTO
RIQUALIFICAZIONE



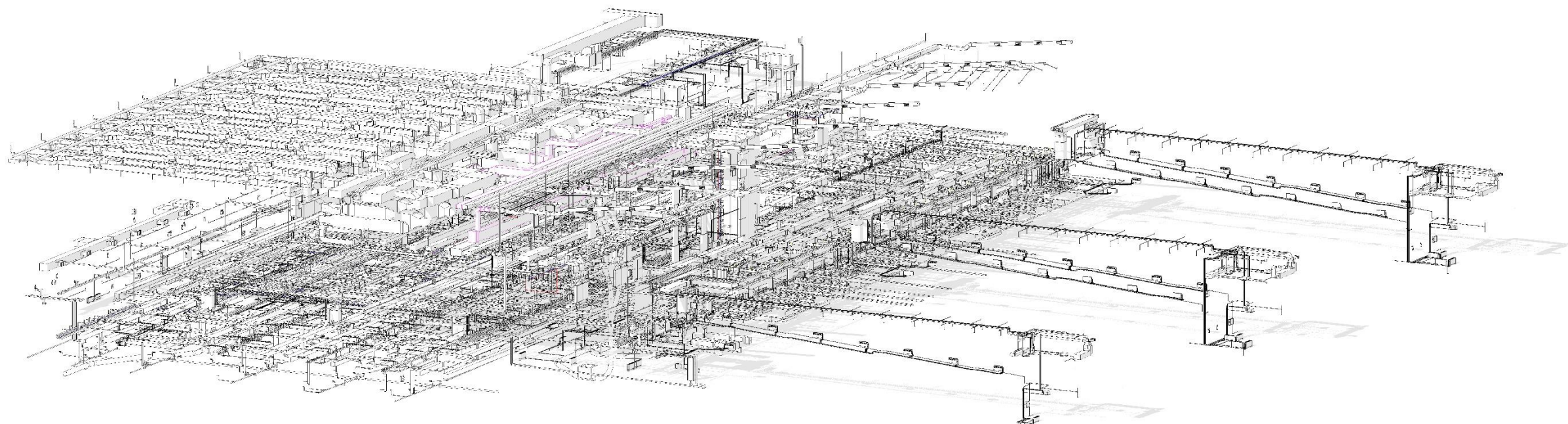
STRUTTURE IN ACCIAIO, IN
CALCESTRUZZO ARMATO, FONDAZIONI

ONWORKS:

ESTRATTO DEL MODELLO MEP



PROGETTO
RIQUALIFICAZIONE



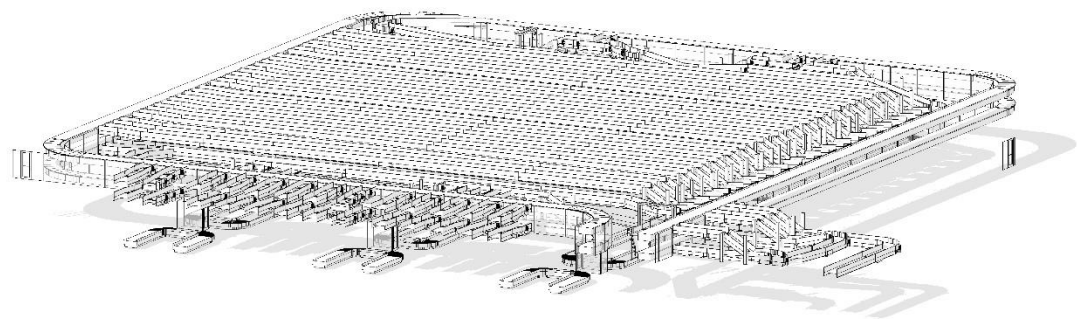
**IMPIANTO ELETTRICO, MECCANICO, IDRAULICO,
ANTINCENDIO E SMALTIMENTO RIFIUTI**

ONWORKS:

ESTRATTO DEL MODELLO BHS



PROGETTO
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IMPIANTO AUTOMATICO DI
SMISTAMENTO BAGAGLI

ONWORKS:

LE FASI – FASE 0



PROGETTO
RIQUALIFICAZIONE

ONWORKS:

LE FASI – FASE 1



PROGETTO
RIQUALIFICAZIONE

ONWORKS:

LE FASI – FASE 2



PROGETTO
RIQUALIFICAZIONE

ONWORKS:

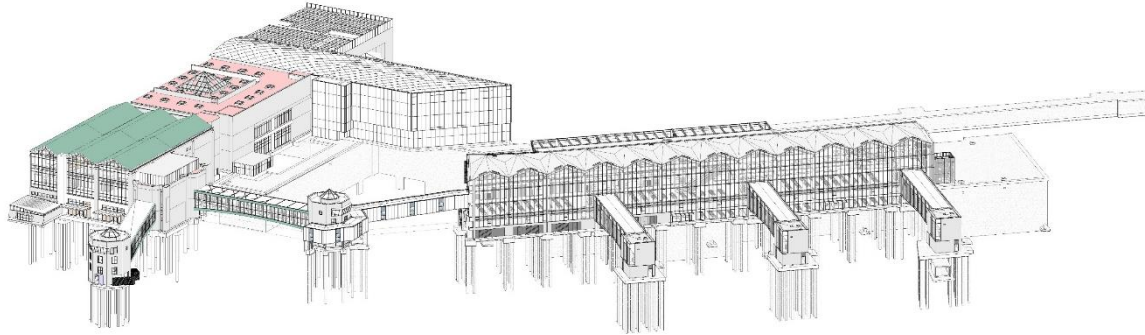
LE FASI – FASE 3



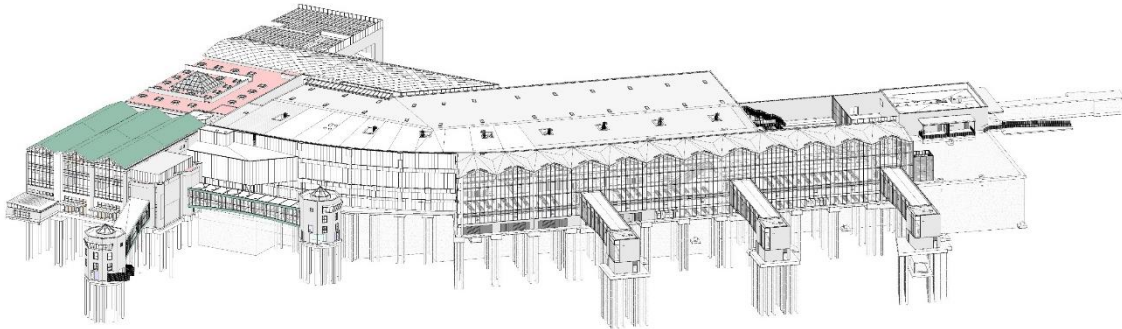
PROGETTO
RIQUALIFICAZIONE

ONWORKS:

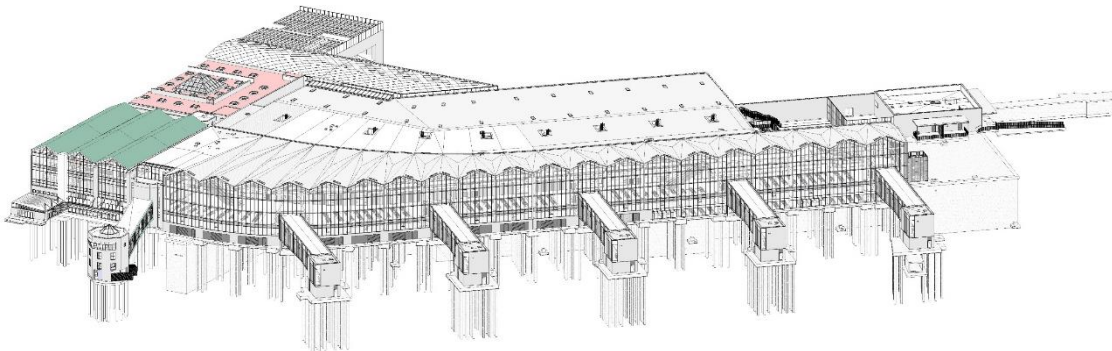
LE FASI – BIM



Phase 1
New boarding area



Phase 2
Departure hall extension
New security checkpoint
New BHS



Fase 3
Boarding area extension
New arrivals mezzanine
Final layout

- Terminal sempre attivo
- Variazione flussi
- Divisione interventi
- Opere temporanee
- Collocazione temporale



**RIQUALIFICAZIONE
ESISTENTE**

**PROGETTO DI
AMPLIAMENTO**



**PIANO TERRA
PIANO MEZZANINO
PIANO PRIMO
PIANO SECONDO
PONTILI E TORRINI
FACCIAE
ECC.**



**FINITURE
STRUTTURE
IMPIANTI ELETTRICI
IMPIANTI MECCANICI
SOTTOSERVIZI
BHS
OPERE STRADALI
ECC.**



**RIVESTIMENTI INTERNI
RIVESTIMENTI ESTERNI
SERRAMENTI INTERNI
SERRAMENTI ESTERNI
OPERE METALLICHE
ECC.**



IMPIANTI

Properties

Basic Wall

OW_ARC - ME-02_0200_REI 60 150 mm

Walls (1)

Constraints

Location Line

Finish Face: Exterior

Base Constraint

LZA_ARC_LV1_+6.53

Base Offset

0.0

Base is Attached

Base Extension Distance

0.0

Top Constraint

Up to level: L2A_WRK_LV 2_+12.10_intradosso STR

Unconnected Height

5570.0

Top Offset

0.0

Top is Attached

Top Extension Distance

0.0

Room Bounding

☒

Related to Mass

Text

DWG EXPORT

Structural

Structural

☐

Enable Analytical Model

☐

Structural Usage

Non-bearing

Dimensions

Length

5636.8

Area

29.589 m²

Volume

4.438 m³

Identity Data

Image

Comments

Mark

WBS LOTTO

30

WBS INTERVENTO

10

WBS CATEGORIA

20

WBS AREA D'INTERVENTO

110

WBS OPERA

80

INTERVENTO

AMPLIAMENTO

CATEGORIA

FINITURE

AREA D'INTERVENTO

PIANO PRIMO

OPERA

PARTIZIONI INTERNE

LOCALE

Workset

a_ARC_COM_LV 1

Edited by

SANDREONI

Phasing

Phase Created

LOTTO 2A_FASE3

Phase Demolished

None

Properties help

Apply



IL LIVELLO DI DETTAGLIO

SEZIONE DEL MODELLO MASTER

LOD 300/350



ONWORKS:

IL LIVELLO DI DETTAGLIO

ESPLOSO

TRIDIMENSIONALE

LOD 300/350

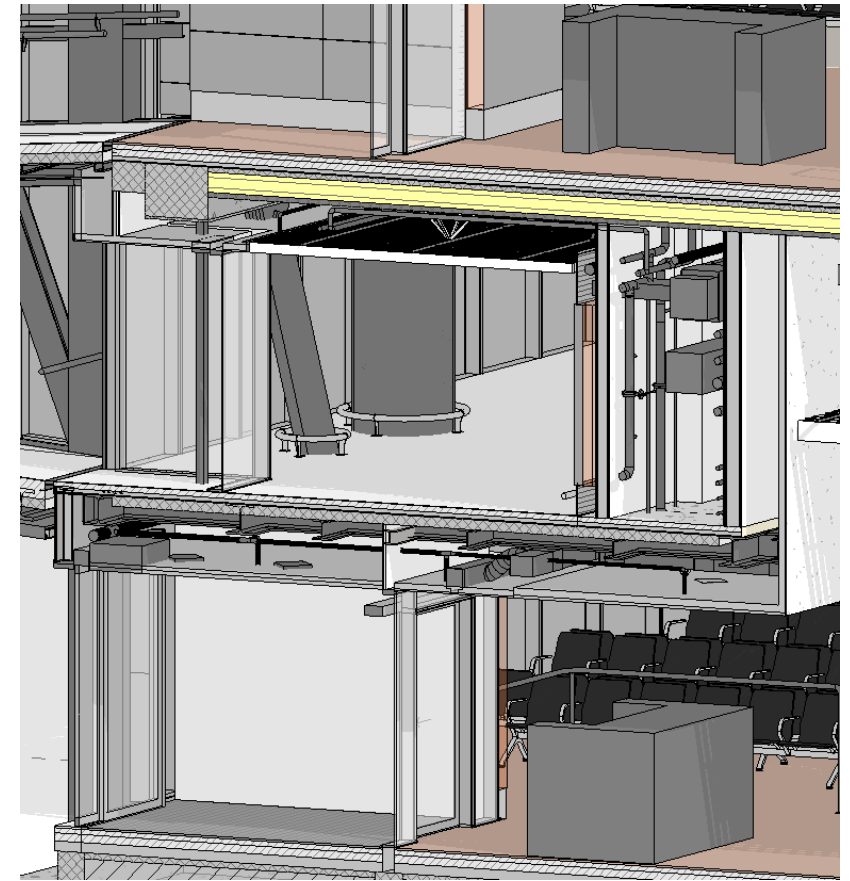
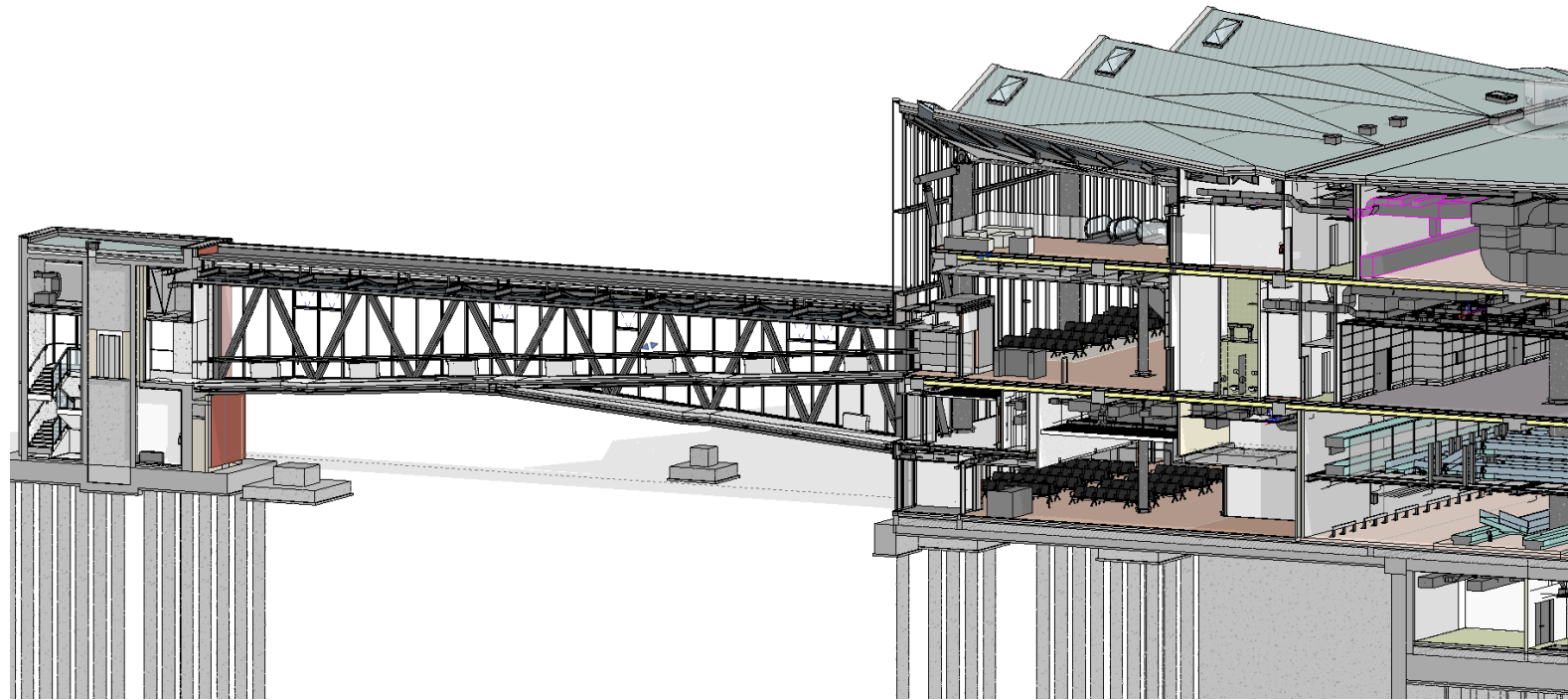


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IL LIVELLO DI DETTAGLIO

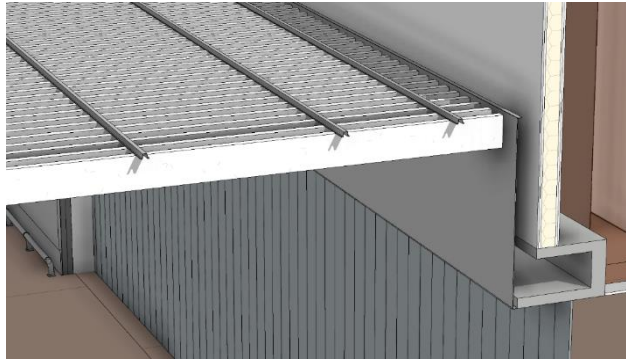


PROGETTO
RIQUALIFICAZIONE

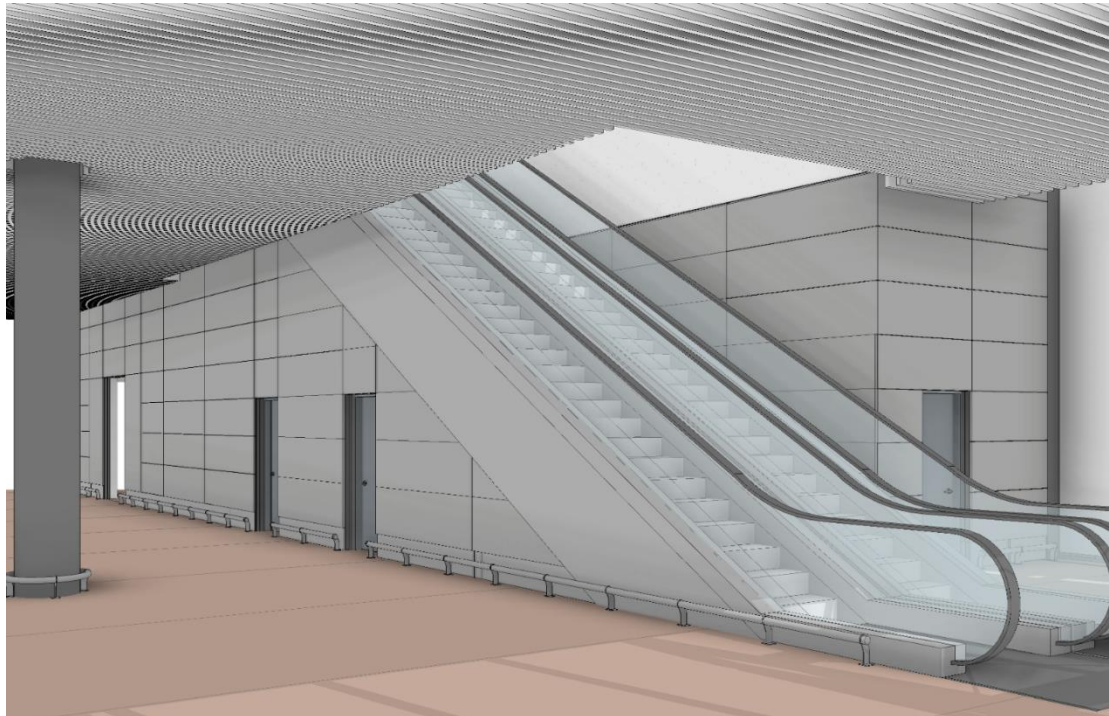


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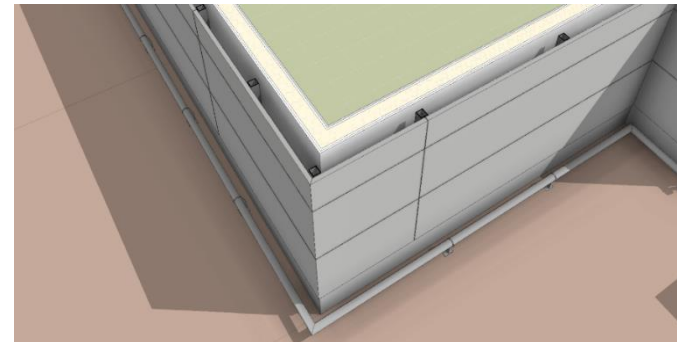
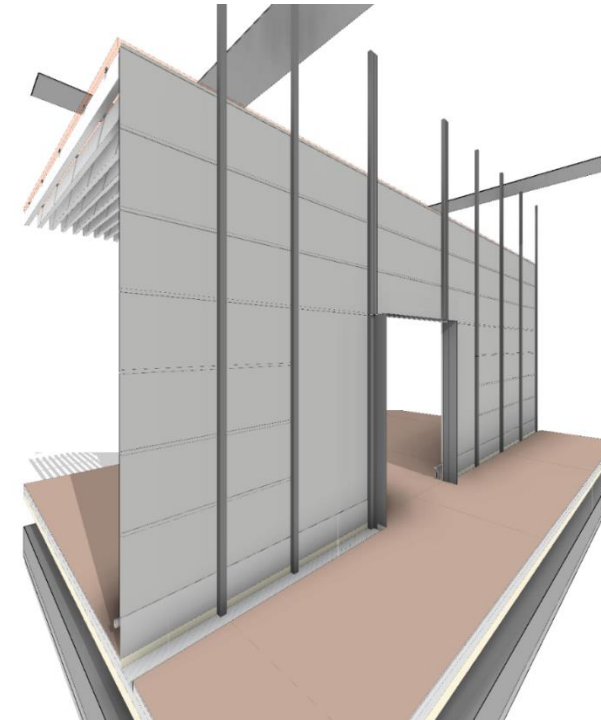
IL LIVELLO DI DETTAGLIO



Metal cladding and partitions



Ceilings and escalator



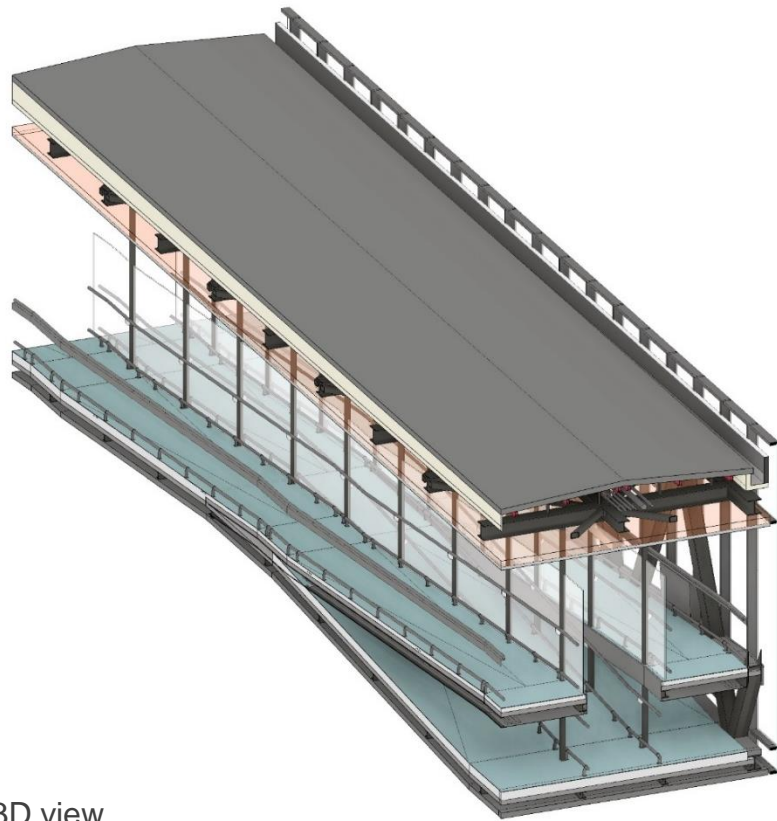
PROGETTO
RIQUALIFICAZIONE

ONWORKS:

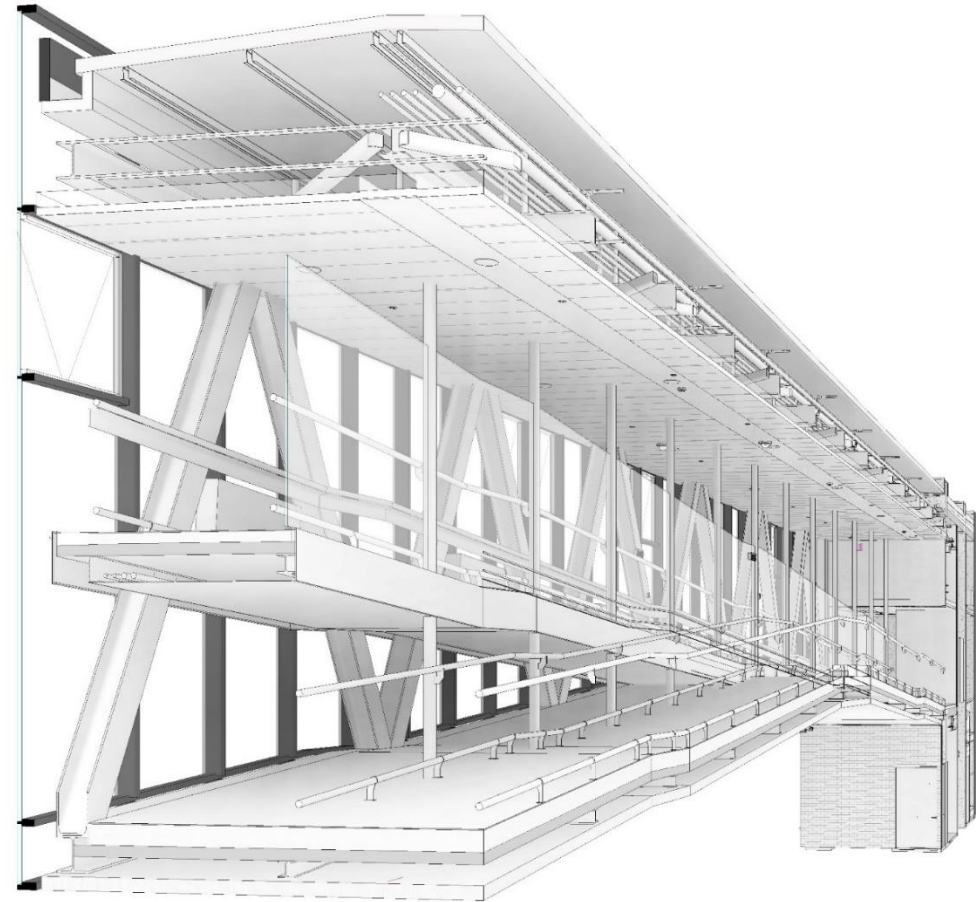
IL LIVELLO DI DETTAGLIO



PROGETTO
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Boarding bridge 3D view



ONWORKS:

LA RIQUALIFICAZIONE DELL'ESISTENTE E LA PROGETTAZIONE IN BIM

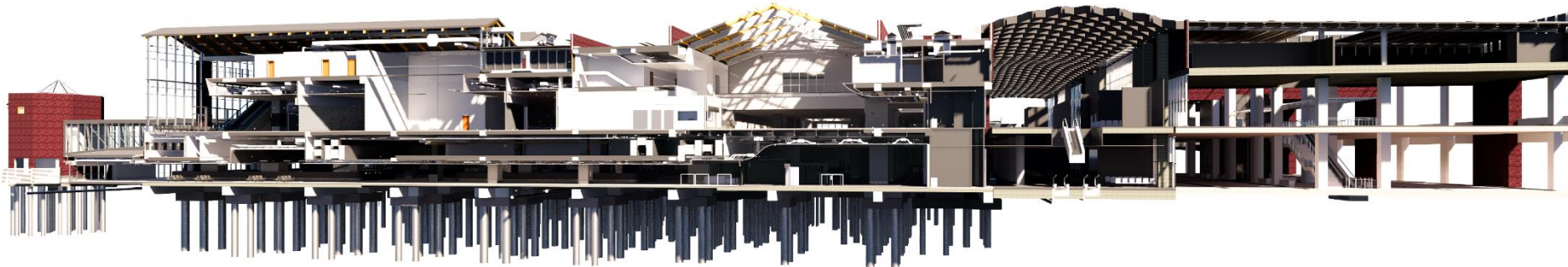
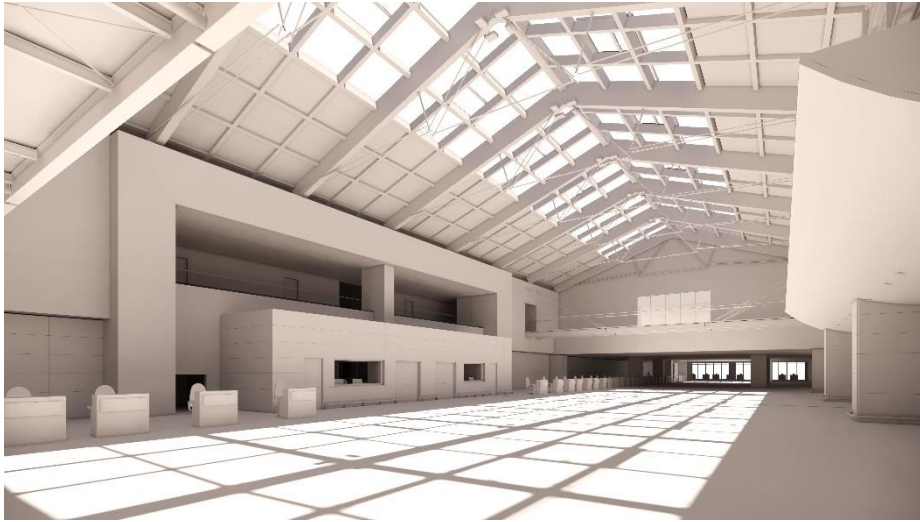
PERCHE' IL BIM?

ONWORKS:

IL DIGITAL TWIN

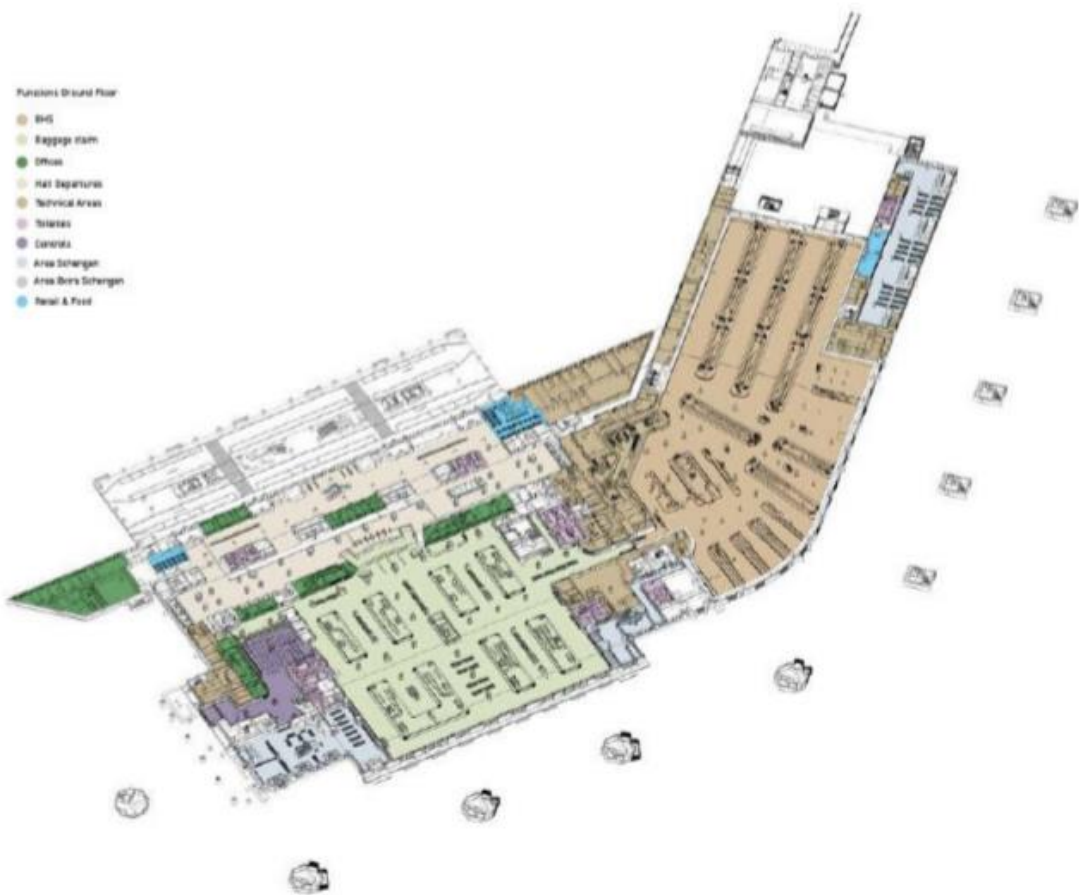


PROGETTO
RIQUALIFICAZIONE

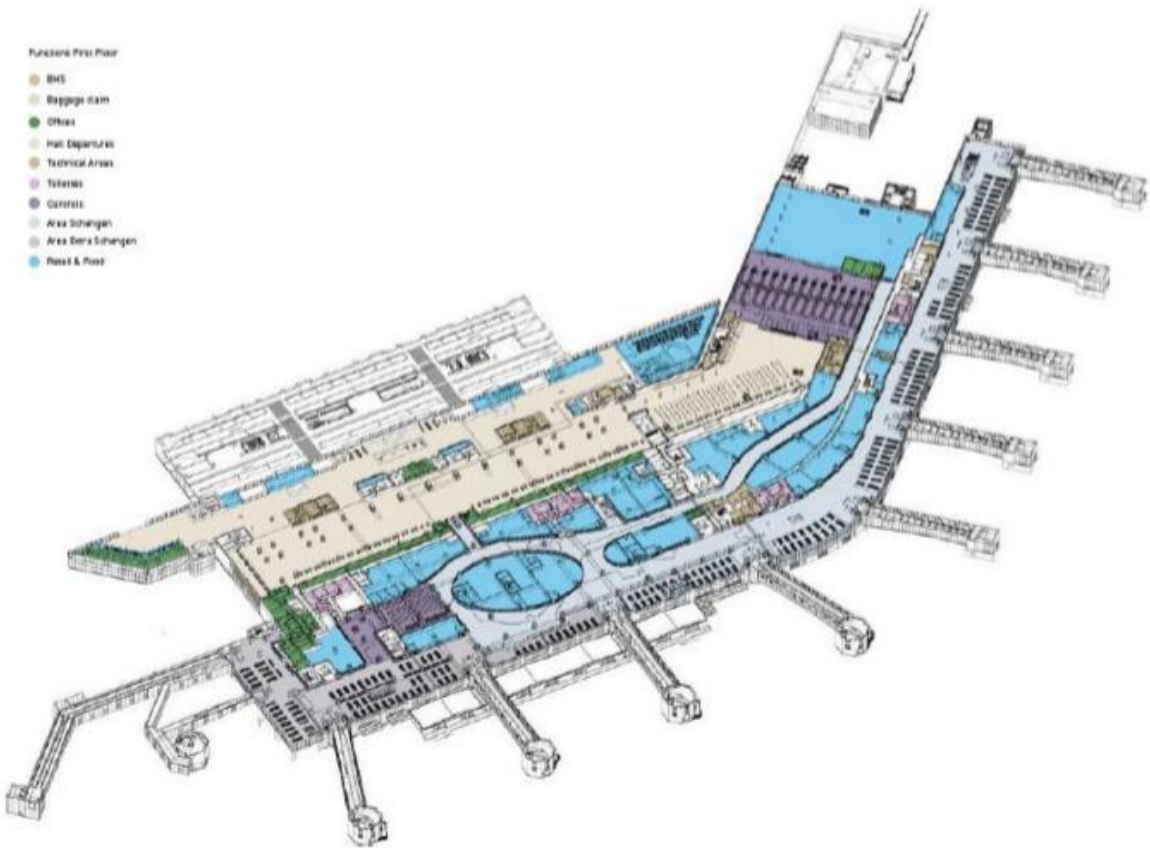


ONWORKS:

DATI SEMPRE AGGIORNATI



ARRIVAL LEVEL



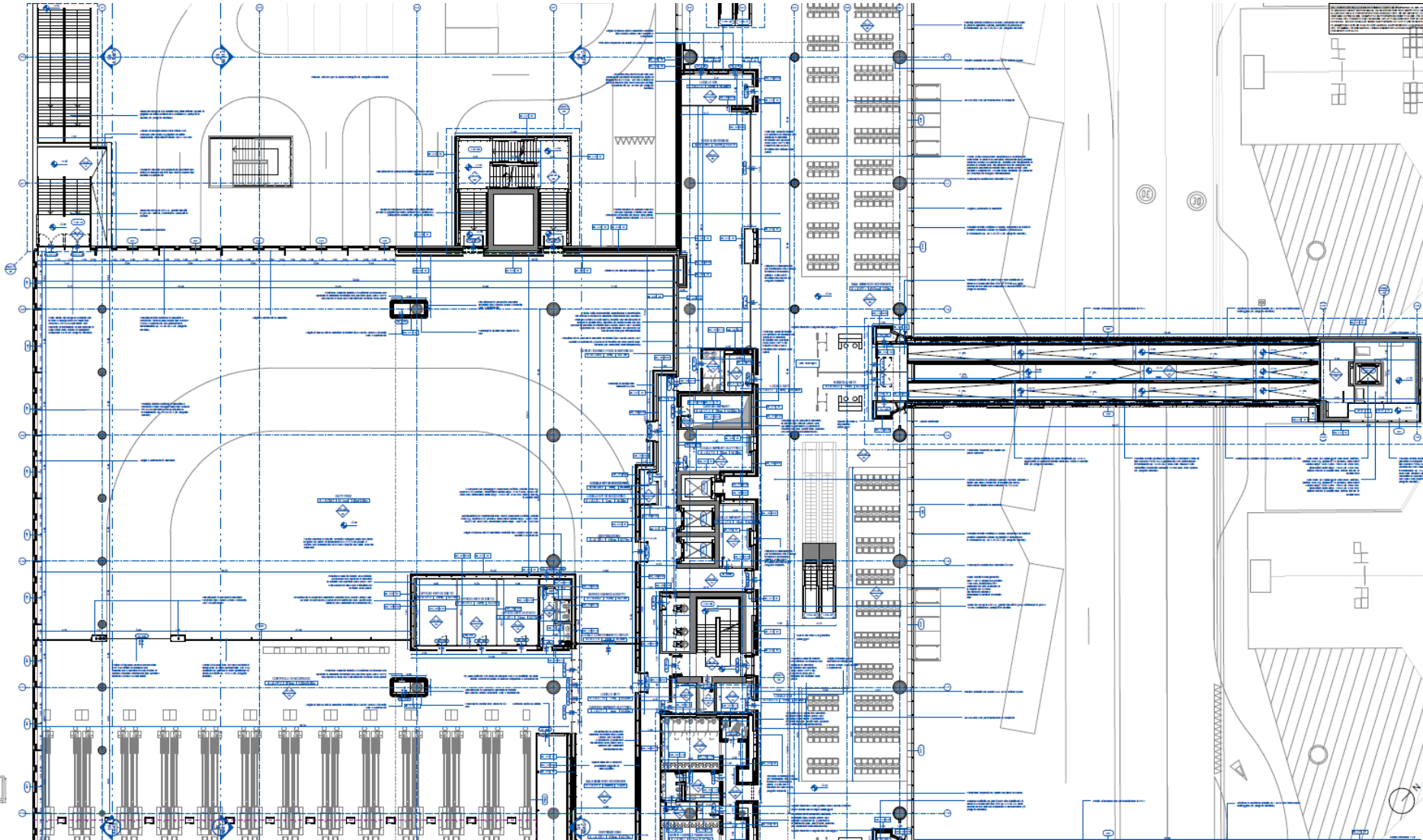
DEPARTURE LEVEL

ONWORKS:

ELABORATI GRAFICI



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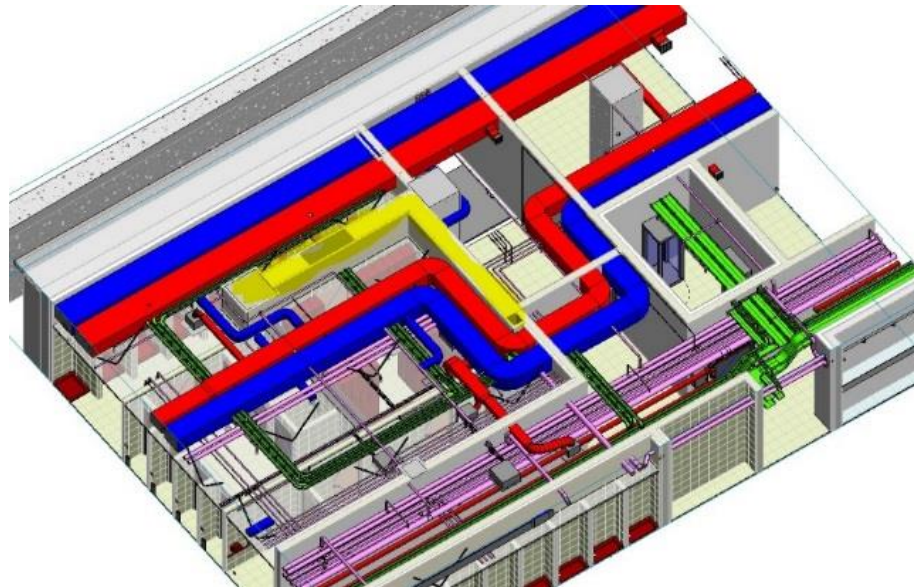
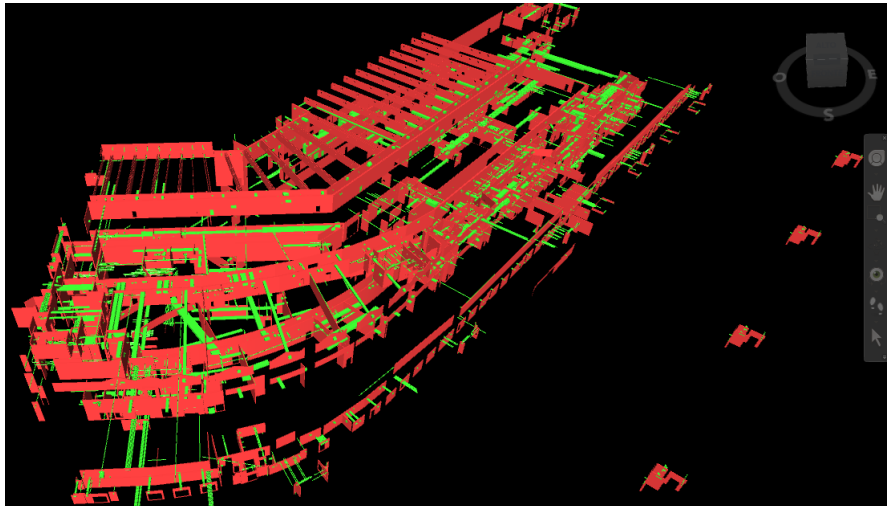
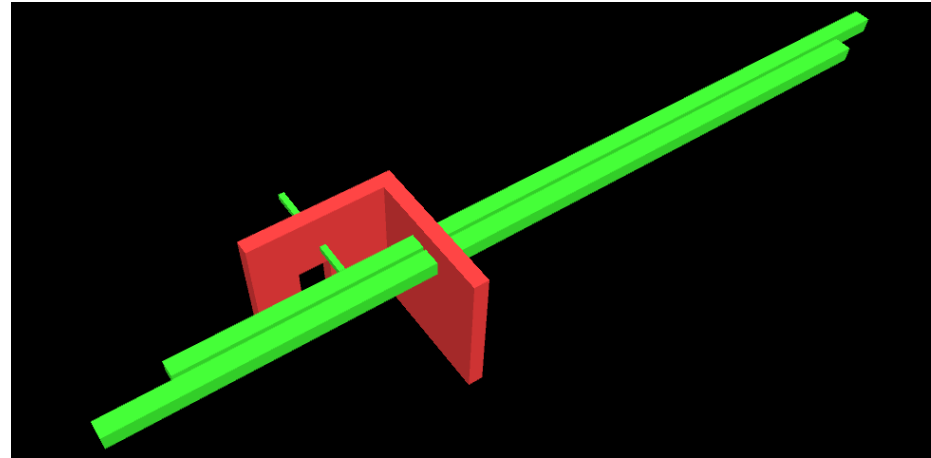
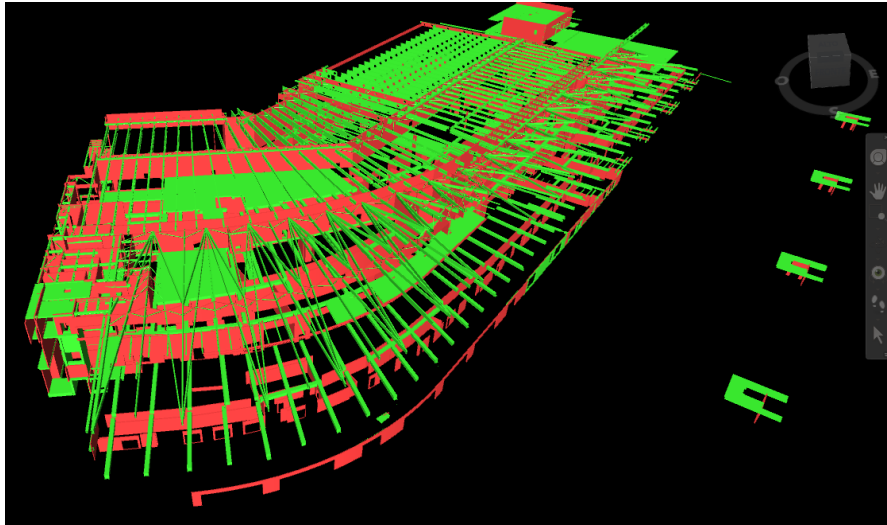


ONWORKS:

IL COORDINAMENTO BIM



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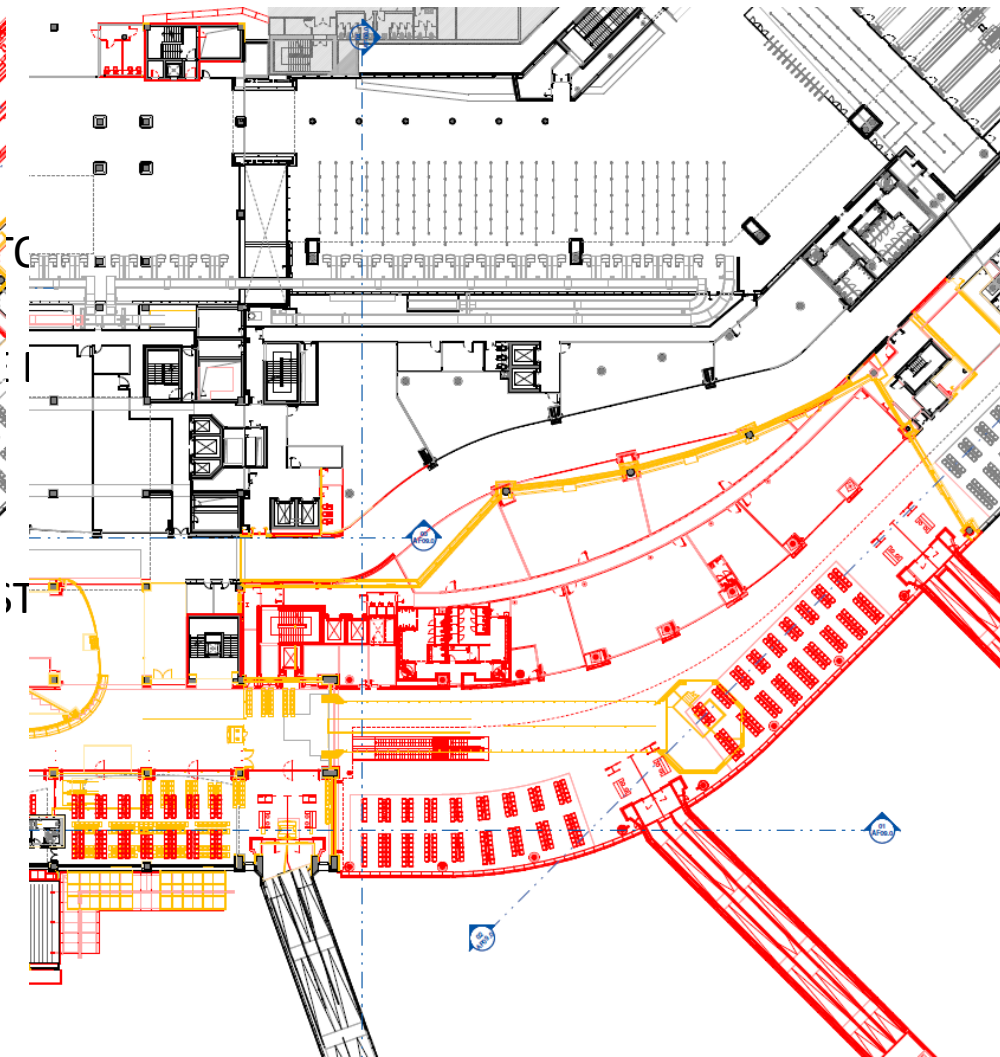
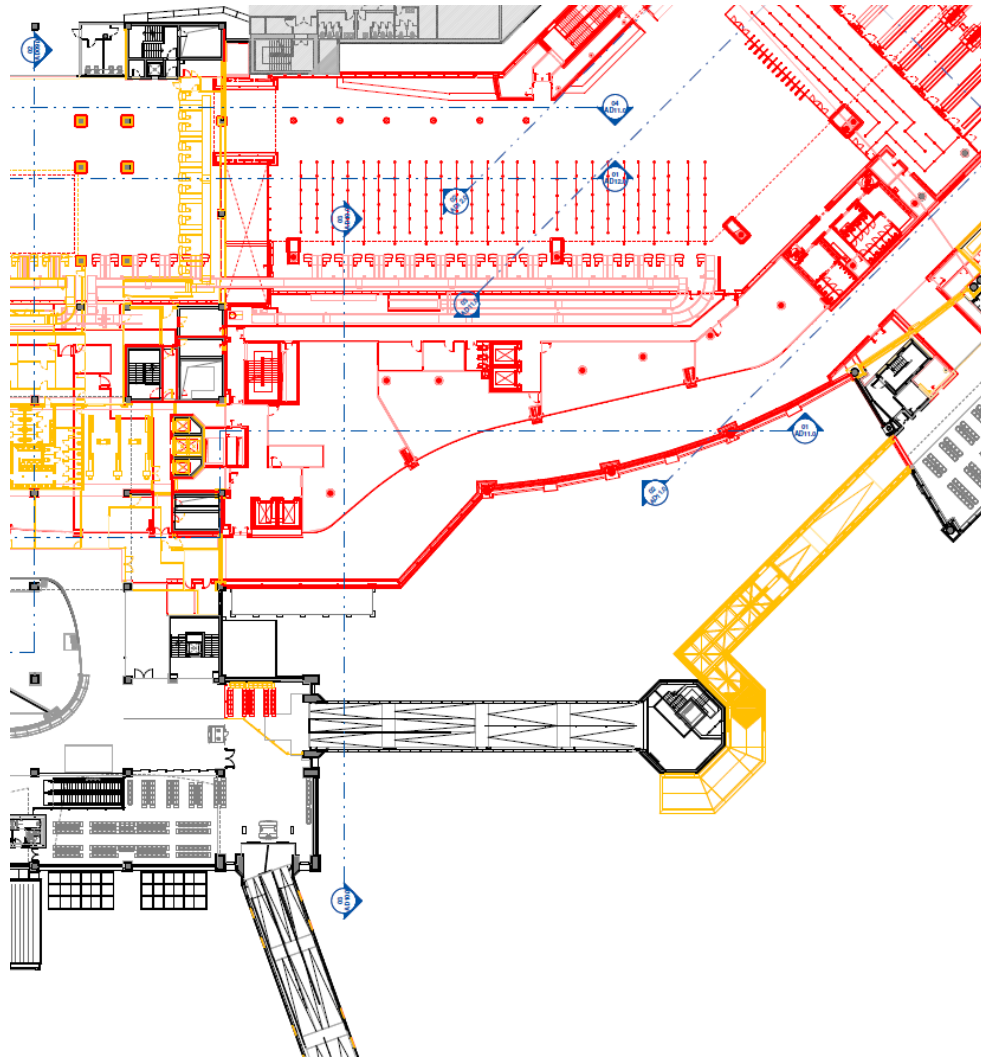


ONWORKS:

LA GESTIONE DEMOLIZIONI E COSTRUZIONI

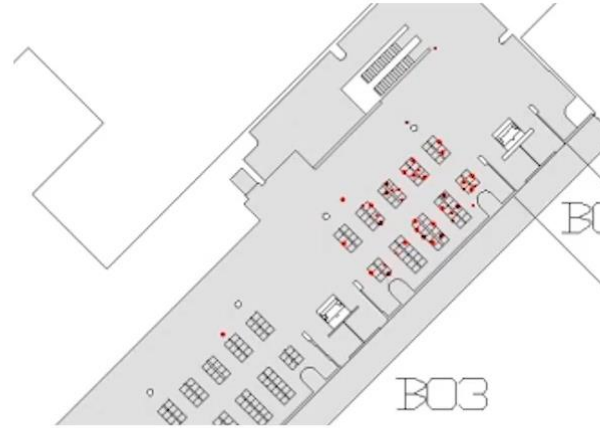
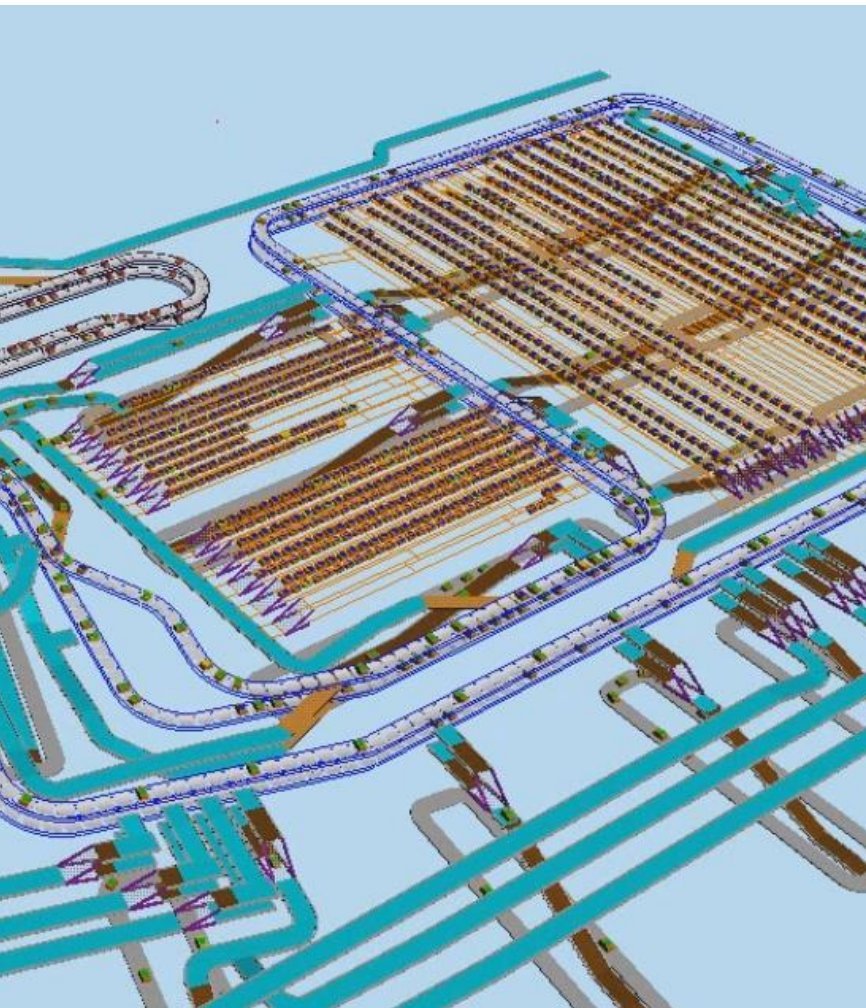


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ONWORKS:

LE SIMULAZIONI



Use of passengers dynamic simulations to verify design and Level of Service for passengers.

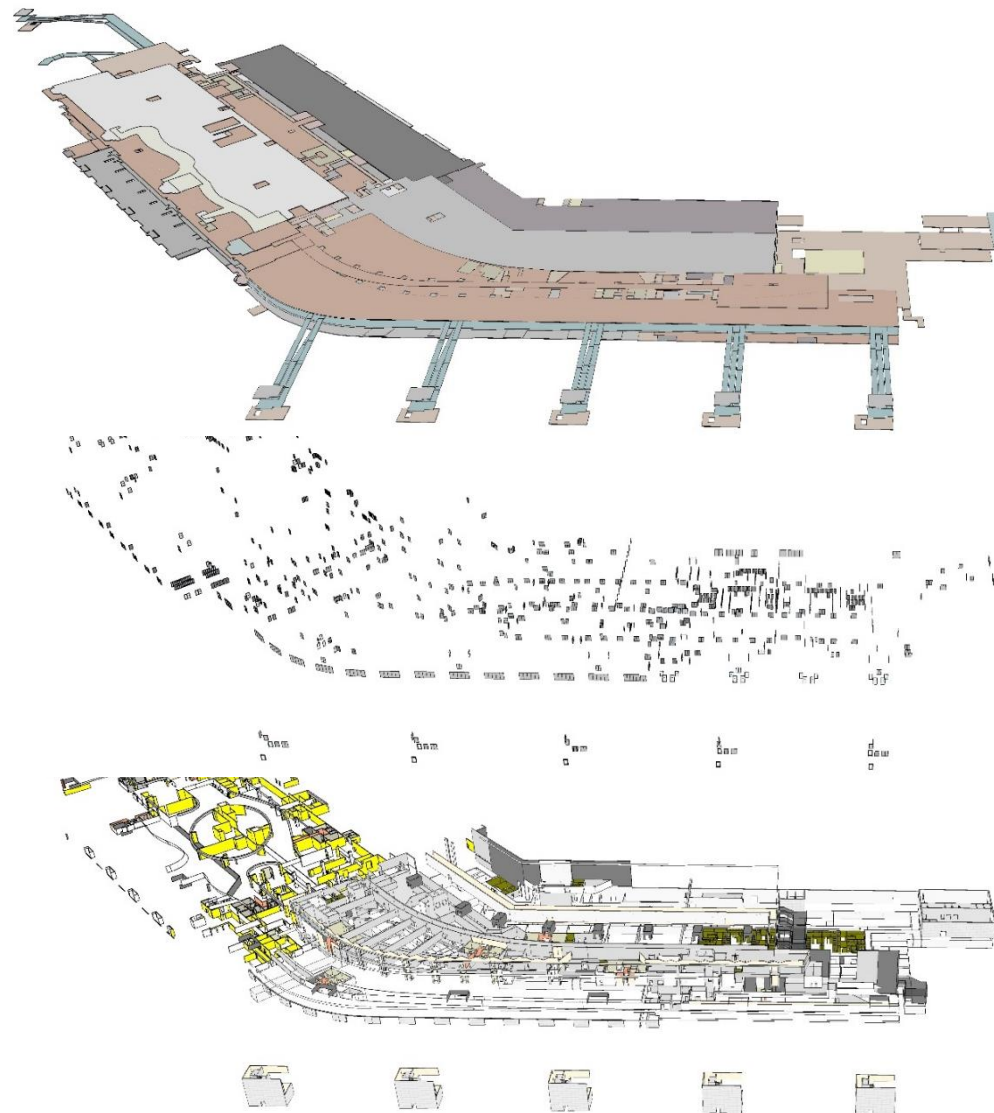
ONWORKS:

L'ESTRAZIONE DELLE QUANTITA' - COMPUTI



PROGETTO
RIQUALIFICAZIONE

- Schedules/Quantities
 - 00.ABACO LIVELLI DI PROGETTO
 - 00.AREA LORDA
 - 00.ELENCO VISTE DI PROGETTO
 - 00.GRIGLIE DI PROGETTO
 - 01. ROOM 2A_FASE 1
 - 01. ROOM 2A_FASE 2
 - 01. ROOM 2A_FASE 3
 - 01. ROOM 2B_FASE 1
 - 01. ROOM 2B_FASE 2
 - 01. VERIFICA ROOM
 - 02. FURNITURE
 - 02. SPECIALITY EQUIPMENT
 - 80-90-100-110-120-130-170-180 - WALL SCHEDULE
 - 90-100 - FLOOR SCHEDULE
 - 100 - STAIR MATERIAL TAKE OFF
 - 120-130-160 - ROOF SCHEDULE
 - 130 - CEILING SCHEDULE
 - 140 - RAILING SCHEDULE
 - 150 - DOOR SCHEDULE
 - 190 - PLUMBING FIXTURE SCHEDULE
 - BOX WC
 - conteggio porte per fase
 - conteggio porte per livello e per fase
 - conteggio porte per tipo
 - PANNELLI APRIBILI COMPUTO FACCIAE
 - Roof Schedule
 - Room Schedule
 - Wall Schedule
 - z. REVISION

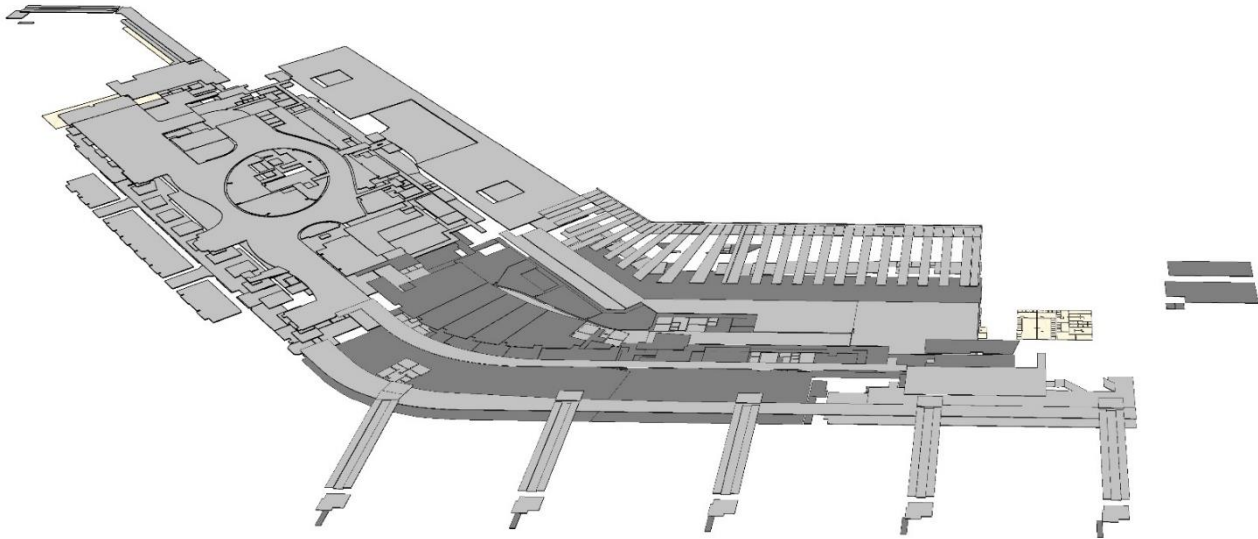


ONWORKS:

L'ESTRAZIONE DELLE QUANTITA' - COMPUTI



PROGETTO
RIQUALIFICAZIONE



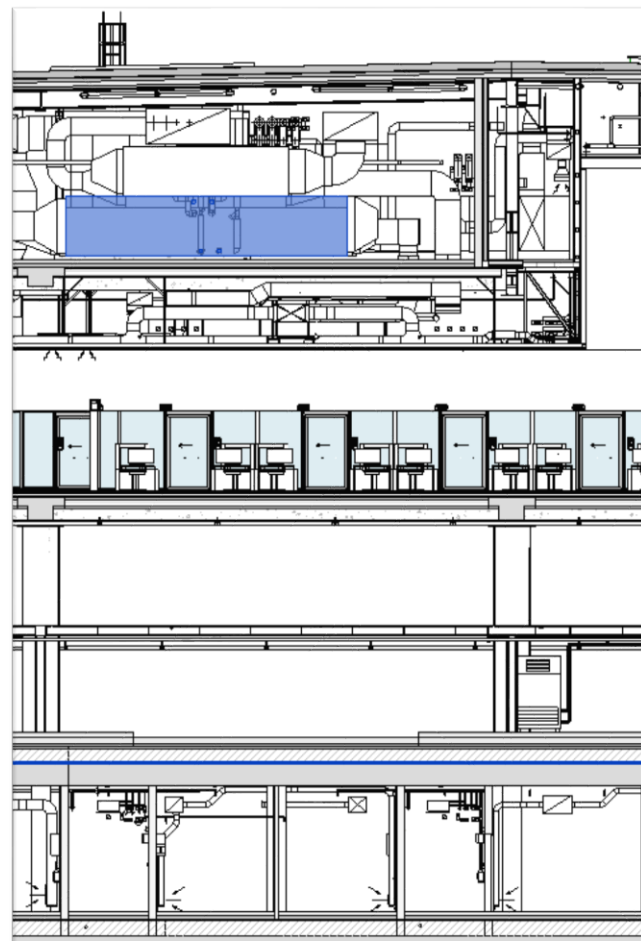
130 - CEILING SCHEDULE														
WBS LOTTO	Phase Created	Phase Demolished	WBS INTERVENTO	INTERVENTO	WBS CATEGORIA	CATEGORIA	WBS AREA	AREA D'INTERVENTO	Level	WBS OPERA	OPERA	Type Mark	Family and Type	Area
Basic Ceiling: Generic: 2	LOTTO 2A_FASE2	None	10	AMPLIAMENTO	20		90		L2A_CLG_LV 0 B +2.40 -	130			Basic Ceiling: Generic	9184 m²
	LOTTO 2A_FASE3	None	10	AMPLIAMENTO	20		90		L2A_CLG_LV 0 B +2.40 -	130			Basic Ceiling: Generic	3382 m²
														12566 m²
	20 LOTTO 2A_FASE2	LOTTO 2B_FASE2	10	AMPLIAMENTO	20	FINITURE	110	PIANO PRIMO	L2A_CLG_LV 1 C +10.53 -	130	CONTROSOFFITTI	CA	Compound Ceiling: OW_CLG - CA - Cartongesso	351 m²
30 LOTTO 2A_FASE3	None	10	AMPLIAMENTO	20	FINITURE	110	PIANO PRIMO	L2A_CLG_LV 1 C +10.53 -	130	CONTROSOFFITTI	CA	Compound Ceiling: OW_CLG - CA - Cartongesso	534 m²	
LOTTO 2A_FASE2		LOTTO 2A_FASE3	10	AMPLIAMENTO	20	FINITURE	110	PIANO PRIMO	L2A_CLG_LV 1 C +10.53 -	130	CONTROSOFFITTI	CA	Compound Ceiling: OW_CLG - CA - Cartongesso	510 m²
Compound Ceiling: OW_CLG - CA - Cartongesso: 3														1396 m²
10 LOTTO 2A_FASE1	None	10	AMPLIAMENTO	20	FINITURE	90	PIANO TERRA	L2A_CLG_LV 0 B +2.40 -	130	CONTROSOFFITTI	CB 01	Compound Ceiling: OW_CLG - CB_01 - Cartongesso amb.umidi	21 m²	
10 LOTTO 2A_FASE1	None	10	AMPLIAMENTO	20	FINITURE	90	PIANO TERRA	L2A_CLG_LV 0 B +2.40 -	130	CONTROSOFFITTI	CB 01	Compound Ceiling: OW_CLG - CB_01 - Cartongesso amb.umidi	6 m²	
10 LOTTO 2A_FASE1	None	10	AMPLIAMENTO	20	FINITURE	90	PIANO TERRA	L2A_CLG_LV 0 B +2.40 -	130	CONTROSOFFITTI	CB 01	Compound Ceiling: OW_CLG - CB_01 - Cartongesso amb.umidi	7 m²	
10 LOTTO 2A_FASE1	None	10	AMPLIAMENTO	20	FINITURE	90	PIANO TERRA	L2A_CLG_LV 0 B +2.40 -	130	CONTROSOFFITTI	CB 01	Compound Ceiling: OW_CLG - CB_01 - Cartongesso amb.umidi	3 m²	
10 LOTTO 2A_FASE1	None	10	AMPLIAMENTO	20	FINITURE	90	PIANO TERRA	L2A_CLG_LV 0 B +2.40 -	130	CONTROSOFFITTI	CB 01	Compound Ceiling: OW_CLG - CB_01 - Cartongesso amb.umidi	4 m²	
10 LOTTO 2A_FASE1	None	10	AMPLIAMENTO	20	FINITURE	90	PIANO TERRA	L2A_CLG_LV 0 B +2.40 -	130	CONTROSOFFITTI	CB 01	Compound Ceiling: OW_CLG - CB_01 - Cartongesso amb.umidi	22 m²	
30 LOTTO 2A_FASE3	None	10	AMPLIAMENTO	20	FINITURE	100	PIANO MEZZANINO	L2A_CLG_LV 0M I +5.44	130	CONTROSOFFITTI	CB 01	Compound Ceiling: OW_CLG - CB_01 - Cartongesso amb.umidi	16 m²	
20 LOTTO 2A_FASE2	None	10	AMPLIAMENTO	20	FINITURE	110	PIANO PRIMO	L2A_CLG_LV 1 A +9.23 -	130	CONTROSOFFITTI	CB 01	Compound Ceiling: OW_CLG - CB_01 - Cartongesso amb.umidi	5 m²	
20 LOTTO 2A_FASE2	None	10	AMPLIAMENTO	20	FINITURE	110	PIANO PRIMO	L2A_CLG_LV 1 A +9.23 -	130	CONTROSOFFITTI	CB 01	Compound Ceiling: OW_CLG - CB_01 - Cartongesso amb.umidi	3 m²	
20 LOTTO 2A_FASE2	None	10	AMPLIAMENTO	20	FINITURE	110	PIANO PRIMO	L2A_CLG_LV 1 A +9.23 -	130	CONTROSOFFITTI	CB 01	Compound Ceiling: OW_CLG - CB_01 - Cartongesso amb.umidi	9 m²	
20 LOTTO 2A_FASE2	None	10	AMPLIAMENTO	20	FINITURE	110	PIANO PRIMO	L2A_CLG_LV 1 A +9.23 -	130	CONTROSOFFITTI	CB 01	Compound Ceiling: OW_CLG - CB_01 - Cartongesso amb.umidi	9 m²	
10 LOTTO 2A_FASE1	None	10	AMPLIAMENTO	20	FINITURE	110	PIANO PRIMO	L2A_CLG_LV 1 A +9.23 -	130	CONTROSOFFITTI	CB 01	Compound Ceiling: OW_CLG - CB_01 - Cartongesso amb.umidi	13 m²	
10 LOTTO 2A_FASE1	None	10	AMPLIAMENTO	20	FINITURE	110	PIANO PRIMO	L2A_CLG_LV 1 A +9.23 -	130	CONTROSOFFITTI	CB 01	Compound Ceiling: OW_CLG - CB_01 - Cartongesso amb.umidi	8 m²	
20 LOTTO 2A_FASE2	None	10	AMPLIAMENTO	20	FINITURE	90	PIANO TERRA	L2A_CLG_LV 0 B +2.40 -	130	CONTROSOFFITTI	CB 01	Compound Ceiling: OW_CLG - CB_01 - Cartongesso amb.umidi	20 m²	

ONWORKS:

FACILITY MANAGEMENT



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[illegible]

Properties	
MT_Cta down CTA_N_VS2	
Mechanical Equipment (1)	
Width	1930.0
Length	7777.5
Height	1675.0
MC Size Locked	<input checked="" type="checkbox"/>
Mechanical	
Chilled coil EWT	11.00 °C
Chilled coil LWT	18.00 °C
Chilled coil power	1.44500.00 W
Chilled coil pressure drop	0.00000 kPa
Chilled coil water flow	17.8000 m³/h
Hot coil EWT	30.00 °C
Hot coil LWT	15.00 °C
Hot coil power	77000.00 W
Hot coil pressure drop	0.00000 kPa
Hot coil water flow	4.5000 m³/h
System Classification	Supply Air Hydronic Return,Hydronic Supply,Hydronic Return
System Name	SAA 5.PAE 10.HWR 1.CHWS 1.HWS 1.CHWR 1
MC Cooling Power	
MC Cooling Given Pressu...	
MC Piping Power	
MC Piping Given Pressur...	
MC Ventilation Given Pre...	
Mechanical - Flow	
Air flow	25000.0000 m³/h
MC Ventilation Total Pre...	
Identity Data	
Image	
Comments	
Mark	243
Level Identification	
MC Object Variable 1	
MC Object Variable 2	
MC Object Variable 3	
MC Object Variable 4	
MC System Code	
MC Piping Connection SI...	
MC Piping Connection SI...	
MC Installation Code	
CATEGORIA	IMPIANTI MECCANICI
INTERVENTO	AMPLIAMENTO
AREA D'INTERVENTO	SOTTOCENTRALE DI CONDIZIONAMENTO PIANO SECONDO
OPERA	SOTTOCENTRALE DI CONDIZIONAMENTO PIANO SECONDO
TIPOLOGIA	UNITA' TRATTAMENTO ARIA
WPS	
MC Node Number	
Phase Filter	
Workset	M03-HVD

ONWORKS:

3. LEED CHECKLIST - RISULTATI

Si riassume di seguito i risultati della valutazione preliminare LEED:



LEED 2009 for New Construction and Major Renovations

Project Checklist

Project: SAVE # Ampliamento Aerostazione Aeroporto di Venezia

Commissa: XP010

10	5	11	Sustainable Sites	Possible Points: 26
Y	?	N		
			G Credit 1 Construction Activity Pollution Prevention	1
1			D Credit 1 Site Selection	1
		5	D Credit 2 Development Density and Community Connectivity	5
	1		D Credit 3 Brownfield Redevelopment	1
6			D Credit 4.1 Alternative Transportation—Public Transportation Access	6
1			D Credit 4.2 Alternative Transportation—Bicycle Storage and Changing Rooms	1
	3		D Credit 4.3 Alternative Transportation—Low-Emitting and Fuel-Efficient Vehicles	3
2			D Credit 4.4 Alternative Transportation—Parking Capacity	2
	1		G Credit 5.1 Site Development—Protect or Restore Habitat	1
			D Credit 5.2 Site Development—Maximize Open Space	1
1			D Credit 6.1 Stormwater Design—Quantity Control	1
1			D Credit 6.2 Stormwater Design—Quality Control	1
1			G Credit 7.1 Heat Island Effect—Non-roof	1
1			D Credit 7.2 Heat Island Effect—Roof	1
1			D Credit 8 Light Pollution Reduction	1

2 4 4			Water Efficiency		Possible Points: 10
?			D Prereq 1	Water Use Reduction—20% Reduction	
2		2	D Credit 1	Water Efficient Landscaping	2 to 4
		2	D Credit 2	Innovative Wastewater Technologies	2
	4		D Credit 3	Water Use Reduction	2 to 4

2 13 20			Energy and Atmosphere		Possible Points: 35
Y			C Prereq 1	Fundamental Commissioning of Building Energy Systems	
?			D Prereq 2	Minimum Energy Performance	
Y			D Prereq 3	Fundamental Refrigerant Management	
	5	14	D Credit 1	Optimize Energy Performance	1 to 19
	1	6	D Credit 2	On-Site Renewable Energy	1 to 7
		2	C Credit 3	Enhanced Commissioning	2
	2		D Credit 4	Enhanced Refrigerant Management	2
		3	C Credit 5	Measurement and Verification	3
	2		C Credit 6	Green Power	2

9 1 4			Materials and Resources		Possible Points:	14
Y			D Prereq 1	Storage and Collection of Recyclables		
2	1		C Credit 1.1	Building Reuse—Maintain Existing Walls, Floors, and Roof		1 to 3
1			C Credit 1.2	Building Reuse—Maintain 50% of Interior Non-Structural Elements		1
2			C Credit 2	Construction Waste Management		1 to 2
	2		C Credit 3	Materials Reuse		1 to 2

Y	?	N			
1	1		C	Credit 4	Recycled Content
2			C	Credit 5	Regional Materials
		1	C	Credit 6	Rapidly Renewable Materials
1			C	Credit 7	Certified Wood

6	7	2	Indoor Environmental Quality	Possible Points: 15
?			D Prereq 1 Minimum Indoor Air Quality Performance	
Y			D Prereq 2 Environmental Tobacco Smoke (ETS) Control	
			D Credit 1 Outdoor Air Delivery Monitoring	1
	1		D Credit 2 Increased Ventilation	1
1			C Credit 3.1 Construction IAQ Management Plan—During Construction	1
1			C Credit 3.2 Construction IAQ Management Plan—Before Occupancy	1
			C Credit 4.1 Low-Emitting Materials—Adhesives and Sealants	1
			C Credit 4.2 Low-Emitting Materials—Paints and Coatings	1
1			C Credit 4.3 Low-Emitting Materials—Flooring Systems	1
		1	C Credit 4.4 Low-Emitting Materials—Composite Wood and Agrifiber Products	1
	1		D Credit 5 Indoor Chemical and Pollutant Source Control	1
			D Credit 6.1 Controllability of Systems—Lighting	1
	1		D Credit 6.2 Controllability of Systems—Thermal Comfort	1
1			D Credit 7.1 Thermal Comfort—Design	1
			D Credit 7.2 Thermal Comfort—Verification	1
	1		D Credit 8.1 Daylight and Views—Daylight	1
		1	D Credit 8.2 Daylight and Views—Views	1

2		4		Innovation and Design Process	Possible Points: 6
1		DIC Credit 1.1	Innovation in Design: Educational Programm	1	
	1	DIC Credit 1.2	TBD	1	
	1	DIC Credit 1.3	TBD	1	
	1	DIC Credit 1.4	TBD	1	
	1	DIC Credit 1.5	TBD	1	
1		DIC Credit 2	LEED Accredited Professional	1	

1 3		Regional Priority Credits	Possible Points: 4
1		DIC Credit 1.1 Regional Priority: Water efficient landscaping	1
1		DIC Credit 1.2 Regional Priority: Water use reduction	1
1		DIC Credit 1.3 Regional Priority: Optimize energy performance	1
1		DIC Credit 1.4 Regional Priority: Measurement and verification	1

32	37	41	TOTAL	Possible Points: 110
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Dalle prime analisi effettuate sugli approfondimenti progettuali risultano:

- n° 32 punti ottenibili;
- n° 37 punti potenzialmente ottenibili, previa successiva verifica;
- n° 41 punti non ottenibili o non perseguiti.



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LEED v4 BD+C: NC
ID: 1000099027

via Galileo Galilei, 30/1, 30173
Tessera (VE)
Italia
[Mappa](#)

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14864 m²

**AEROPORTO M. POLO VENEZIA -
TERMINAL L2A**

PROGETTARE CON LA REALTA' VIRTUALE



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GRAZIE PER L'ATTENZIONE

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