

# edilportale® TOUR 2019

L'edilizia dei prossimi 10 anni



#edilportaletour2019

TRENTO, 15 MAGGIO 2019

**L'EDILIZIA DEI PROSSIMI 10 ANNI...**

**Carlo Zanchetta**

## D.M. MIT 560/2017

Art. 1 finalità

Art. 2 definizioni

Art. 3 adempimenti preliminari delle stazioni appaltanti

Art. 4 interoperabilità

Art. 5 utilizzo facoltativo

Art. 6 tempi di introduzione obbligatoria

Art. 7 capitolato

Art. 8 commissione di monitoraggio

Art. 9 entrata in vigore

**ADOZIONE**

# L'EDILIZIA DEI PROSSIMI 10 ANNI

» 100 milioni €	1/1/2019
» 50 milioni €	1/1/2020
» 15 milioni €	1/1/2021
<hr/>	
» soglia comunitaria (5.548.000 €)	1/1/2022
» 1 milione €	1/1/2023
» tutte le opere	1/1/2025

NESSUNA DISTINZIONE  
PER COMPLESSITÀ\*

## DA SUBITO

Art. 5 utilizzo facoltativo

Art. 6 tempi di introduzione obbligatoria



# ADOZIONE

\*(art. 2, comma 1-e)

O elevato contenuto tecnologico

O significativa interconnessione degli aspetti architettonici, strutturali e tecnologici

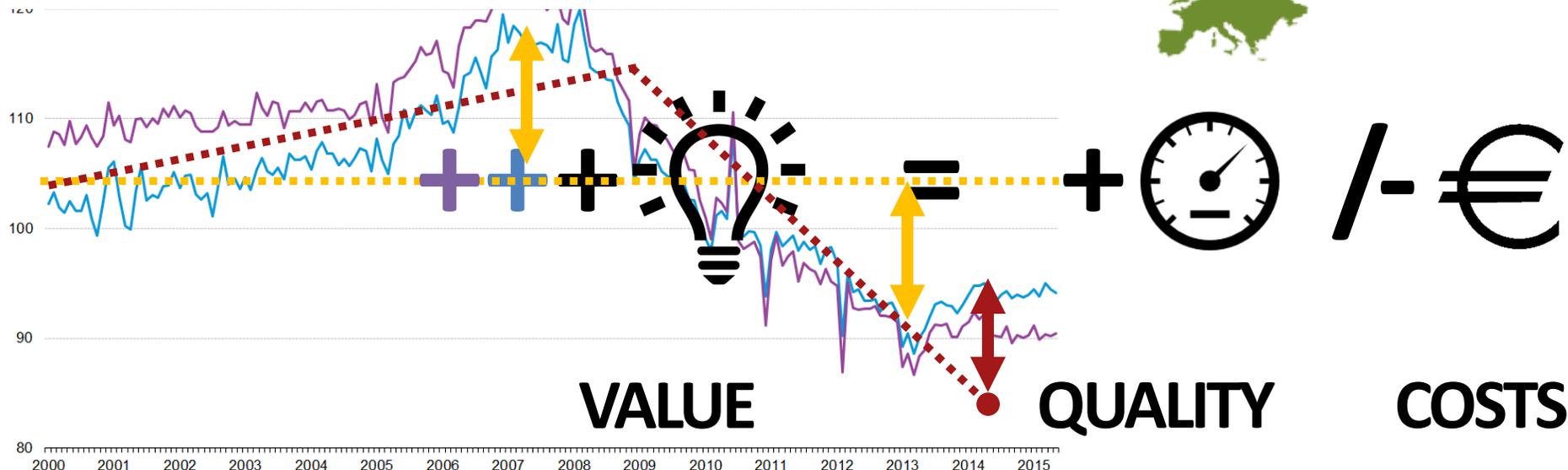
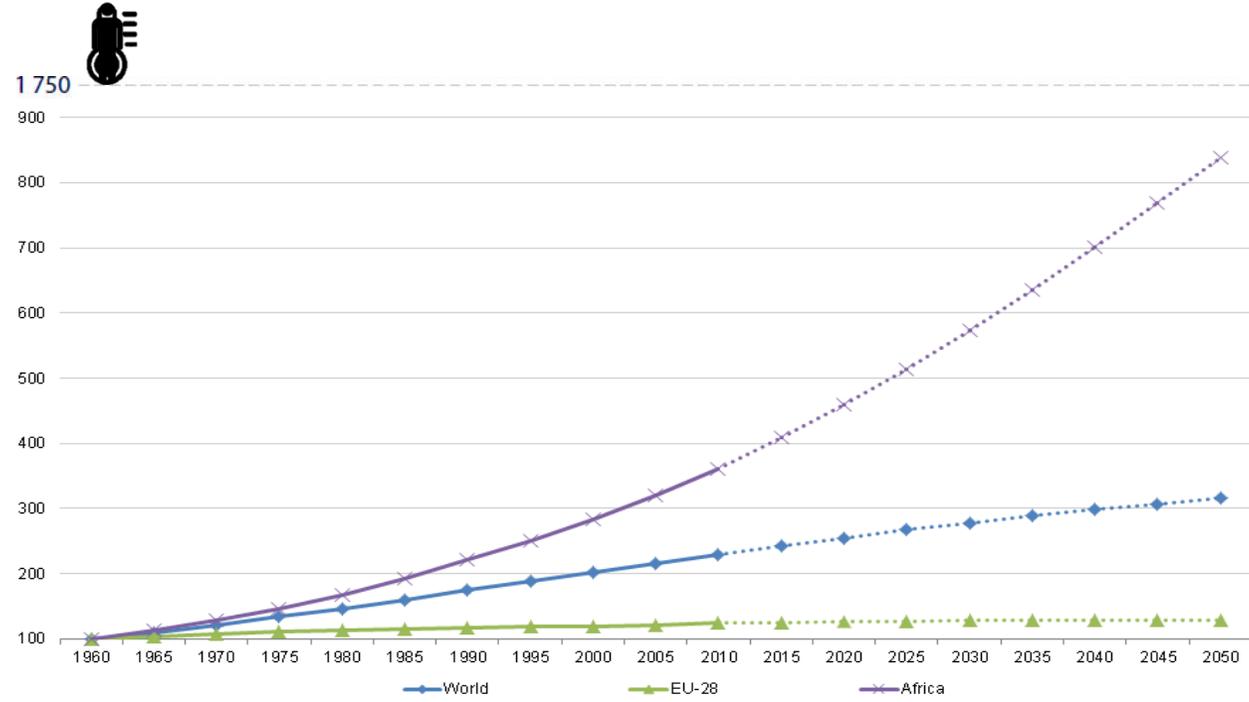
O rilevanti difficoltà realizzative dal punto di vista impiantistico-tecnologico

# L'EDILIZIA DEI PROSSIMI 10 ANNI

parallab  
PH.D ING CARLO ZANCHETTA

**RAGIONE ...**

# L'EDILIZIA DEI PROSSIMI 10 ANNI

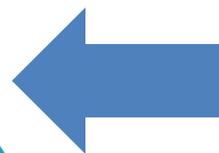
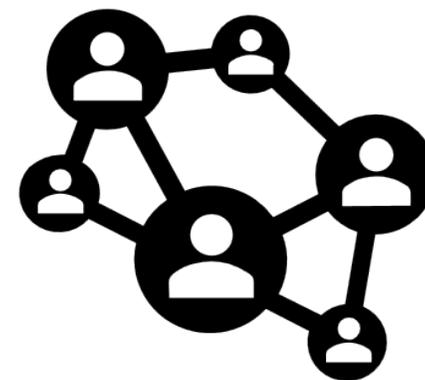
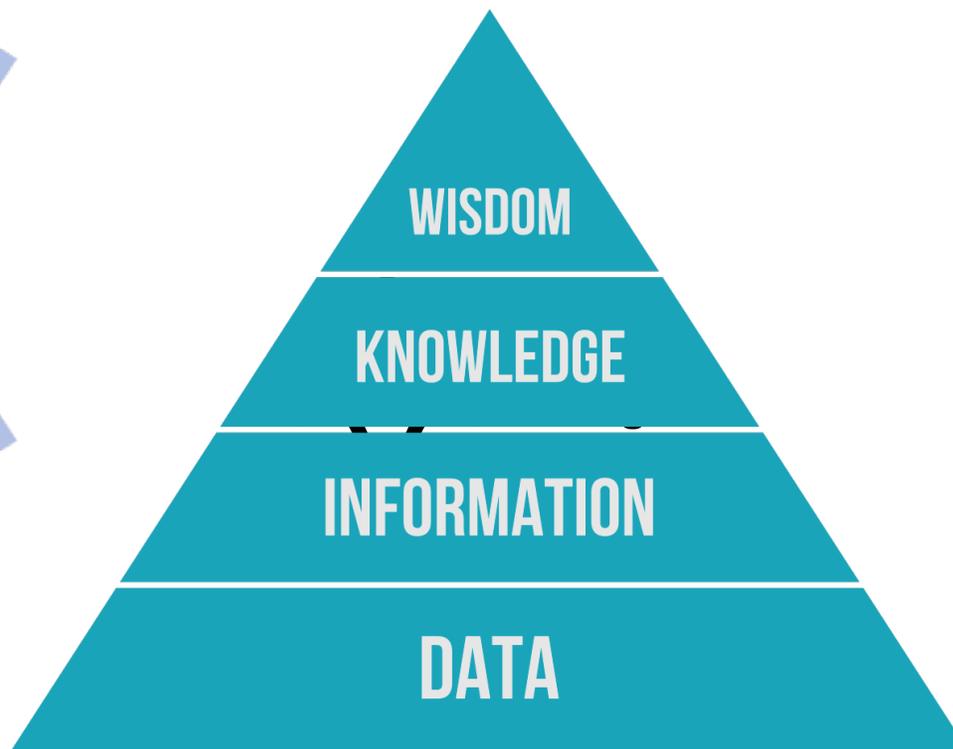
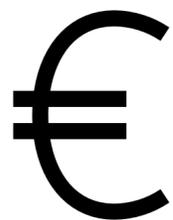
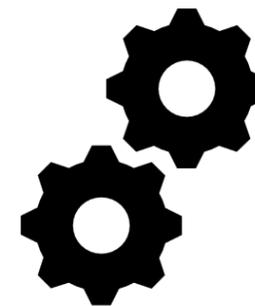
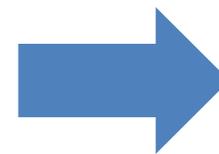
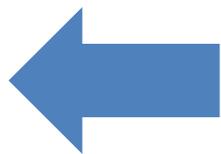


VALUE

QUALITY

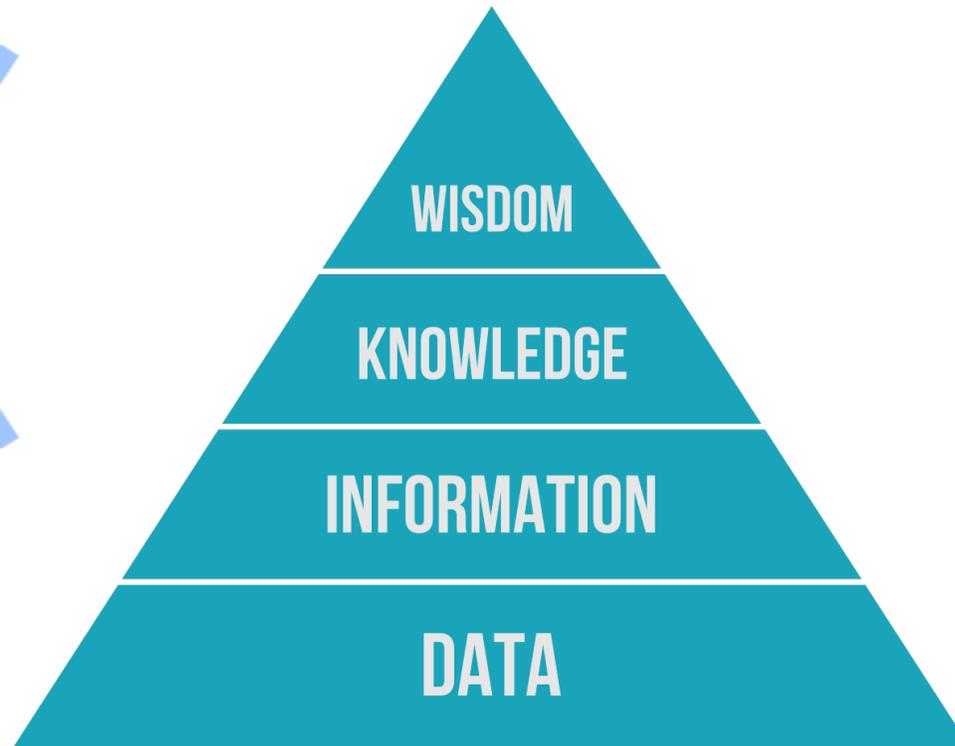
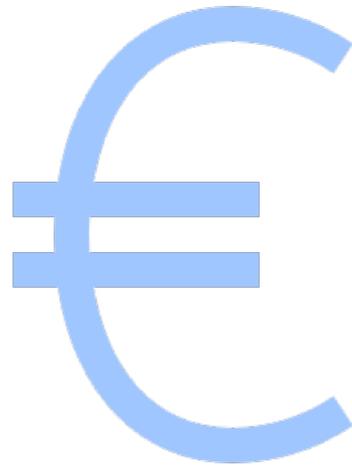
COSTS

# L'EDILIZIA DEI PROSSIMI 10 ANNI



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# L'EDILIZIA DEI PROSSIMI 10 ANNI

UK

Lower costs

33%

reduction in the initial cost of construction and the whole life cost of built assets

Lower emissions

50%

reduction in greenhouse gas emissions in the built environment

Faster delivery

50%

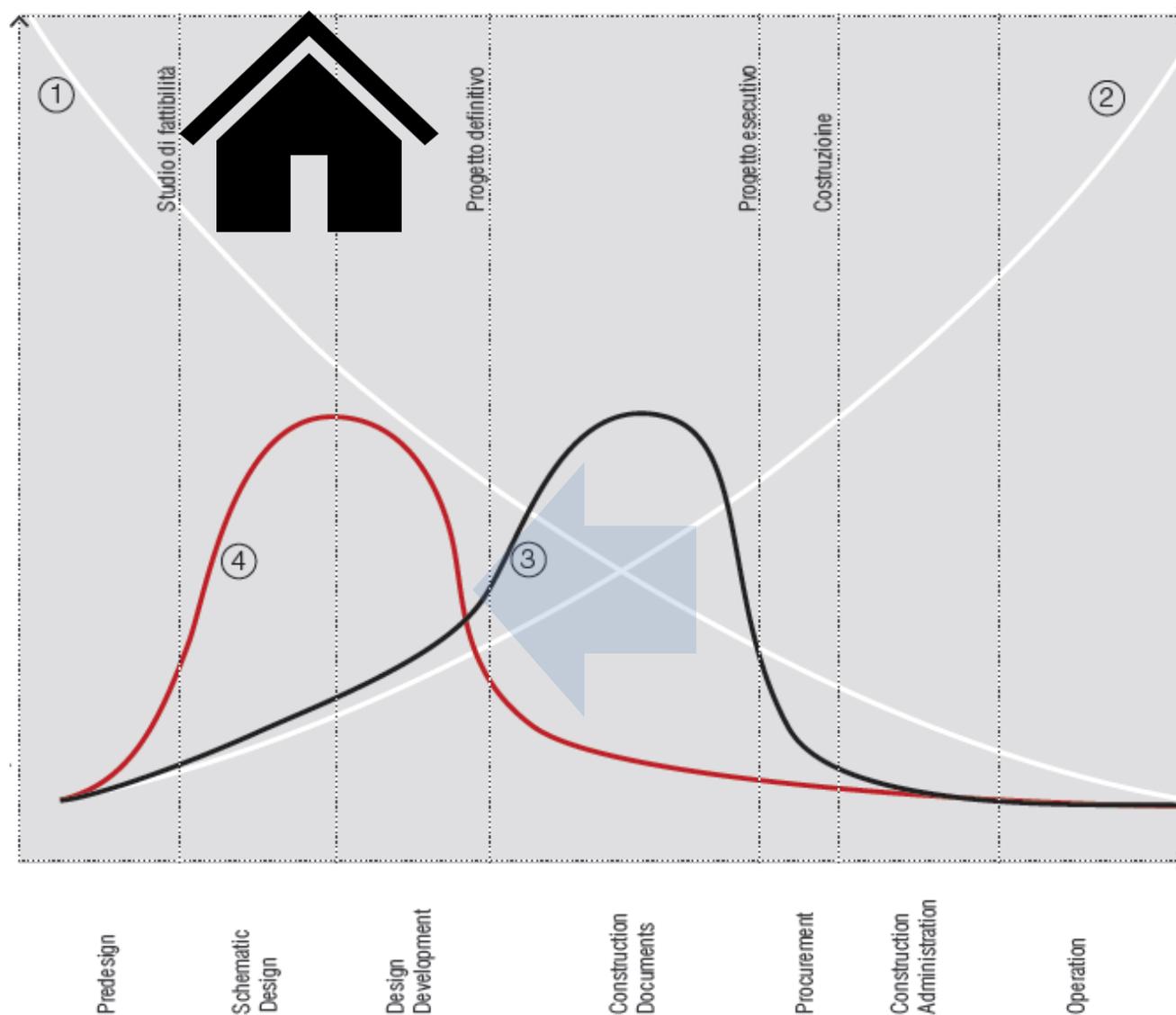
reduction in overall time, from inception to completion, for newbuild and refurbished assets

Improvements in exports

50%

reduction in the trade gap between total exports and total imports for construction products and materials

INFORMATION

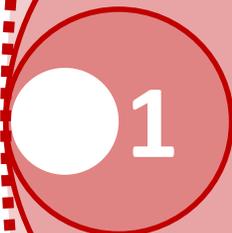


# L'EDILIZIA DEI PROSSIMI 10 ANNI



**COORDINATION -33%**

**BIM**



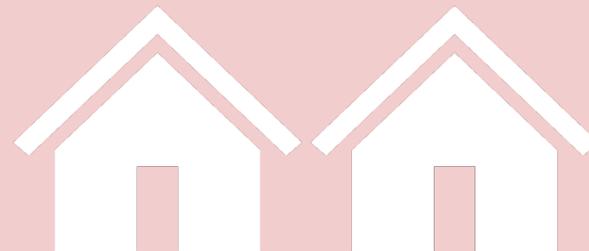
1

5

200

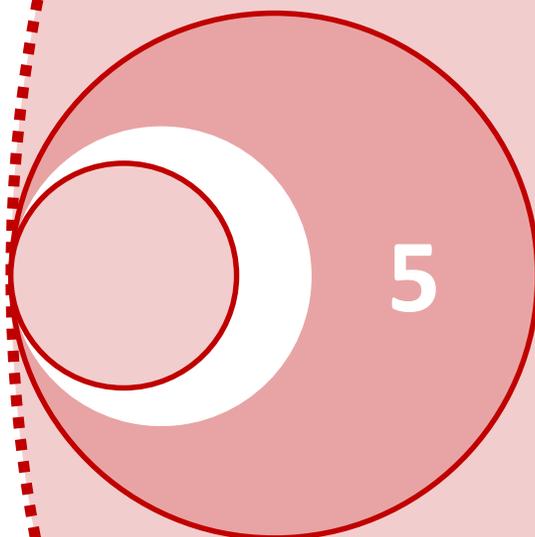
**CAPITAL COST    COST IN USE    COST TO BUSINESS**

# L'EDILIZIA DEI PROSSIMI 10 ANNI



**SUSTAINABILITY – 35%**

**BIM?**

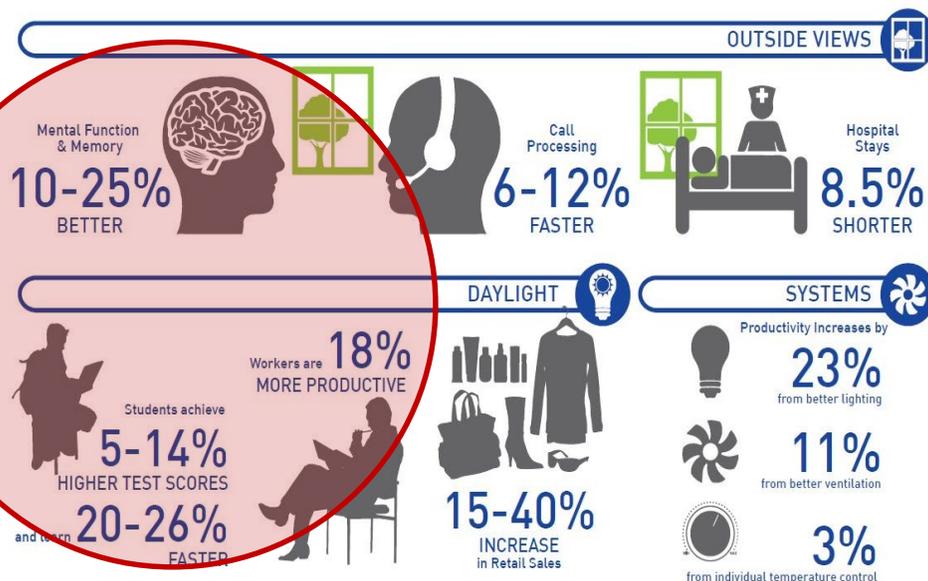


**200**

# L'EDILIZIA DEI PROSSIMI 10 ANNI



## PRODUCTIVITY + 18%

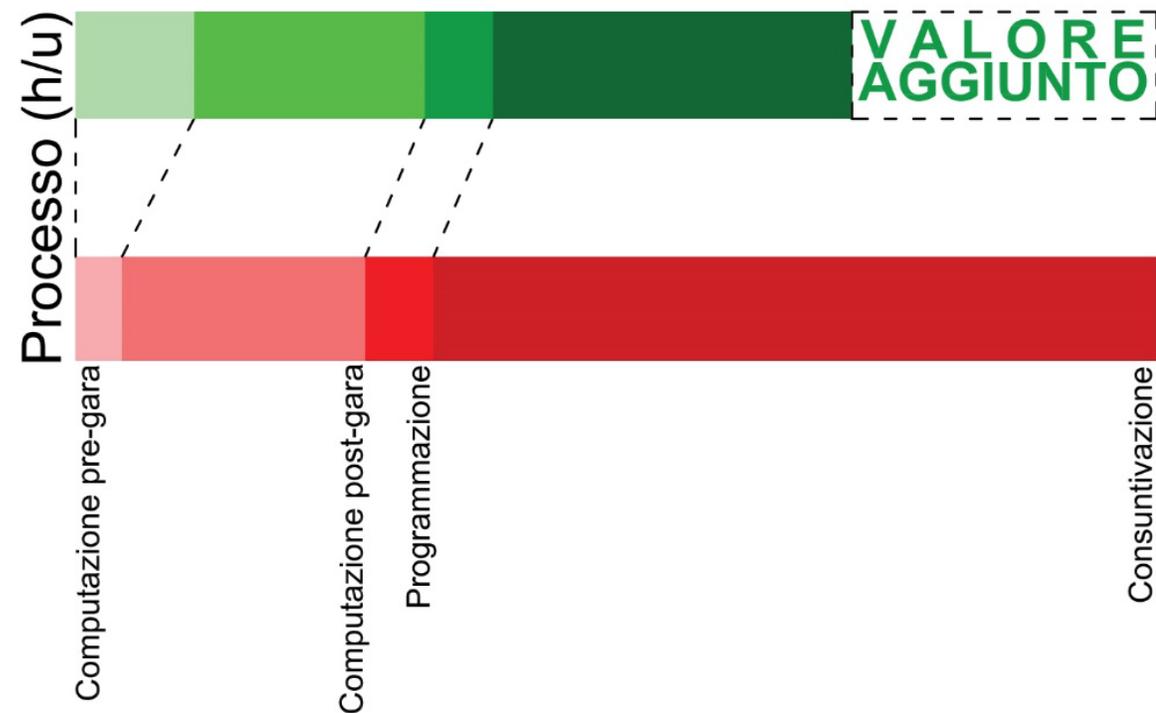
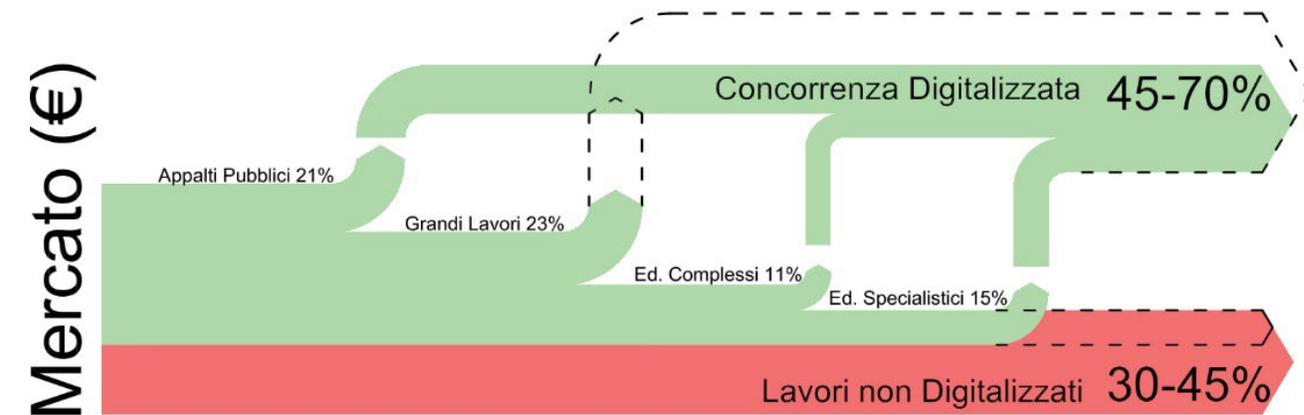


**BIM?**

200

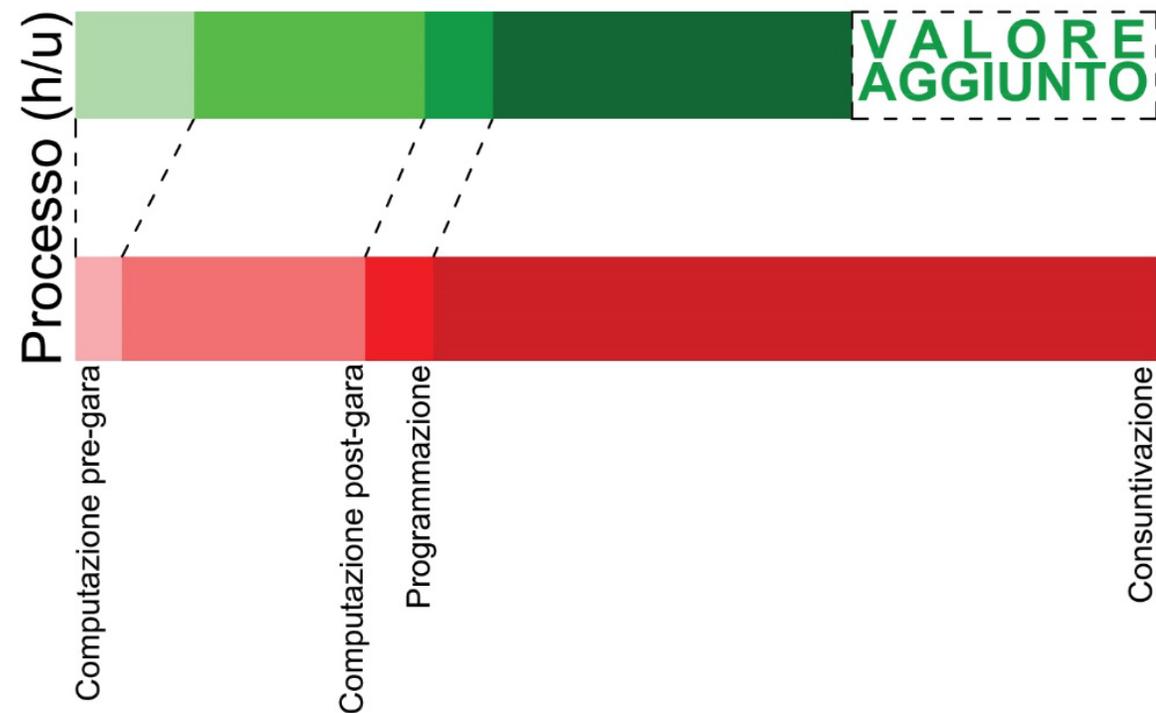
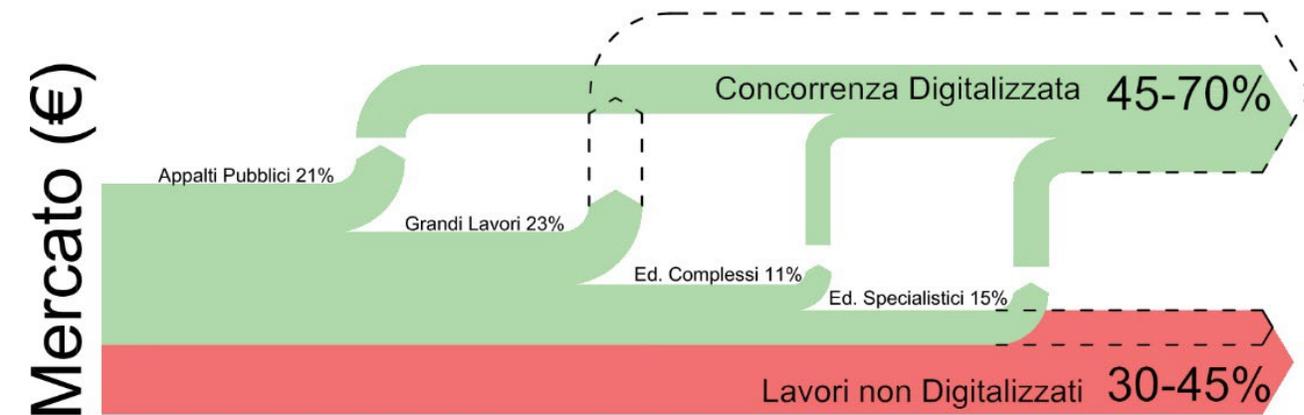
# L'EDILIZIA DEI PROSSIMI 10 ANNI

# DIGITALE



# ANALOGICO

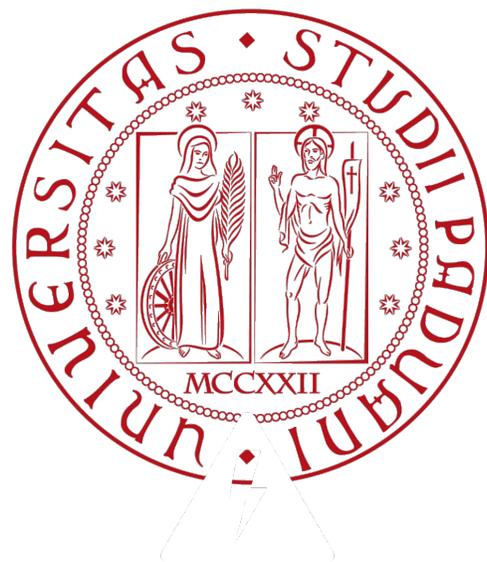
# DIGITALE



# ANALOGICO

# L'EDILIZIA DEI PROSSIMI 10 ANNI

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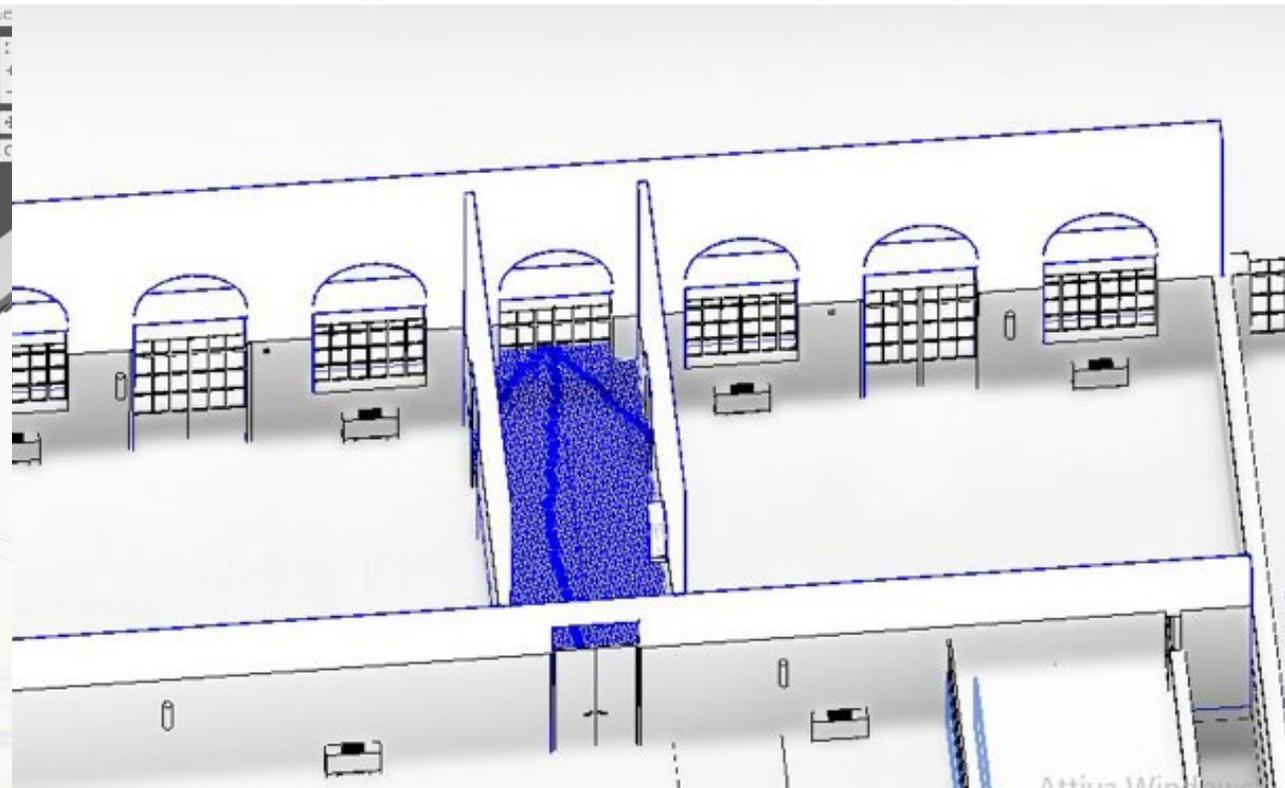
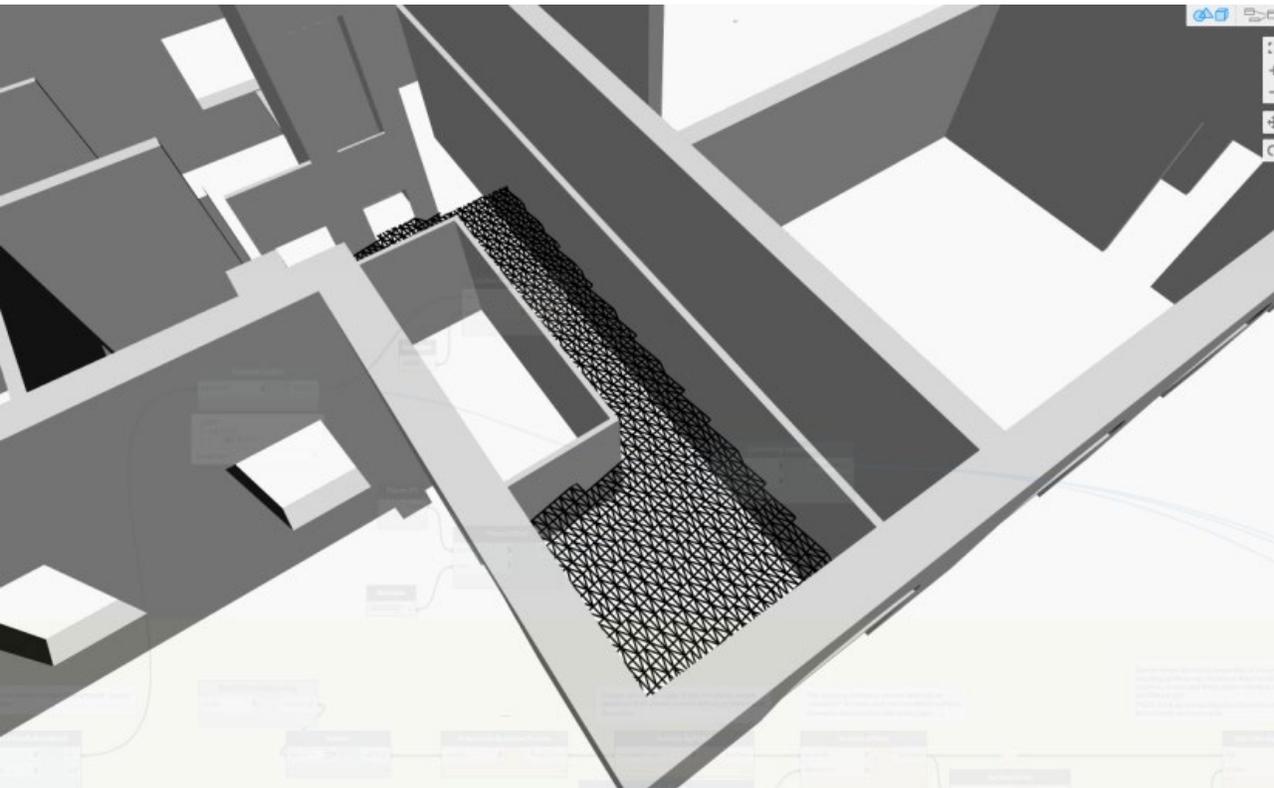


≈ 21000 LOCALI



# L'EDILIZIA DEI PROSSIMI 10 ANNI

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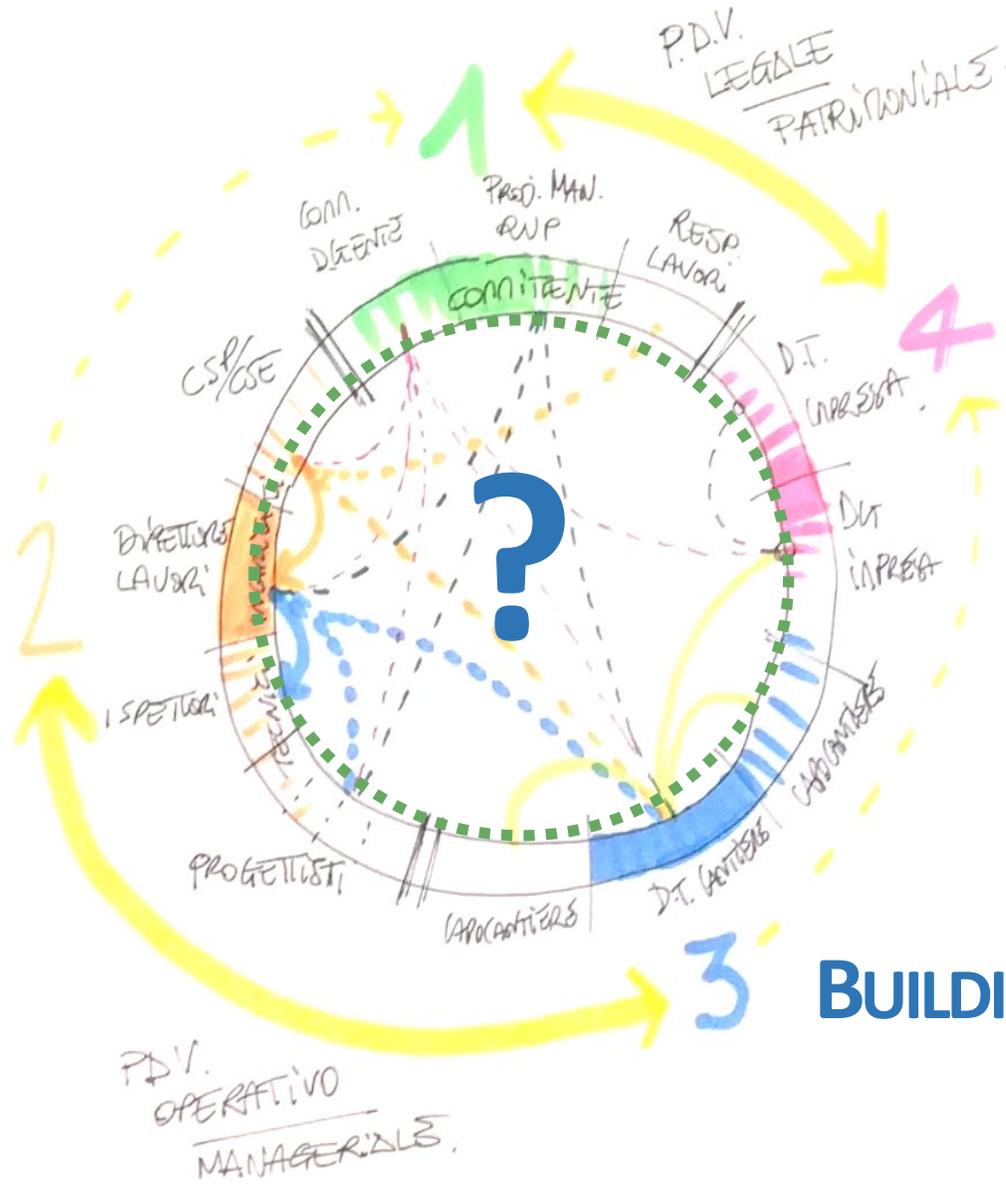
# L'EDILIZIA DEI PROSSIMI 10 ANNI

Lunghezza d'esodo

- Meno di 5000
- 5000 - 10000
- 10000 - 15000
- 15000 o più



# L'EDILIZIA DEI PROSSIMI 10 ANNI

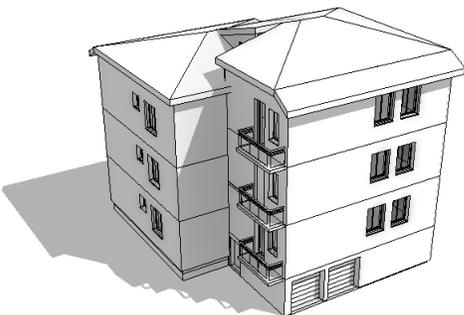


## BUILDING INFORMATION MODELING AND MANAGEMENT

# L'EDILIZIA DEI PROSSIMI 10 ANNI

## BIM IT!

RACCOGLIE L'INFORMAZIONE EDILIZIA NEL BIM



## 5D

COLLEGA AL BIM QUANTITÀ E COSTI

Dimensions	
Sporgenza avanzale	15.00
Height	150.00
Altezza soglia	80.00
Width	120.00
Rough Width	
Rough Height	
Analytical Properties	

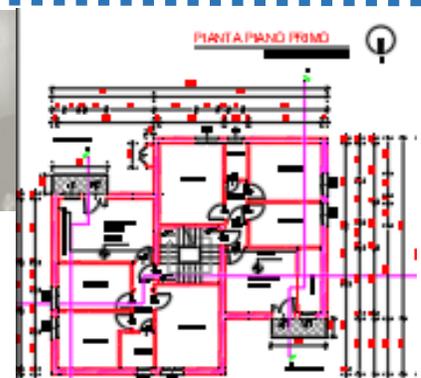
## 4D

COLLEGA AL BIM TEMPI E COSTI

ID	Descrizione	Quantità	Costo
ST0000	ATEX, Lato da tempo	1.00	8000.000000
ST0001	ATEX, Lato da tempo	1.00	8000.000000
ST0002	ATEX, Lato da tempo	1.00	8000.000000
ST0003	ATEX, Lato da tempo	1.00	8000.000000
ST0004	ATEX, Lato da tempo	1.00	8000.000000
ST0005	ATEX, Lato da tempo	1.00	8000.000000
ST0006	ATEX, Lato da tempo	1.00	8000.000000
ST0007	ATEX, Lato da tempo	1.00	8000.000000
ST0008	ATEX, Lato da tempo	1.00	8000.000000
ST0009	ATEX, Lato da tempo	1.00	8000.000000
ST0010	ATEX, Lato da tempo	1.00	8000.000000
ST0011	ATEX, Lato da tempo	1.00	8000.000000
ST0012	ATEX, Lato da tempo	1.00	8000.000000
ST0013	ATEX, Lato da tempo	1.00	8000.000000
ST0014	ATEX, Lato da tempo	1.00	8000.000000
ST0015	ATEX, Lato da tempo	1.00	8000.000000
ST0016	ATEX, Lato da tempo	1.00	8000.000000
ST0017	ATEX, Lato da tempo	1.00	8000.000000
ST0018	ATEX, Lato da tempo	1.00	8000.000000
ST0019	ATEX, Lato da tempo	1.00	8000.000000
ST0020	ATEX, Lato da tempo	1.00	8000.000000
ST0021	ATEX, Lato da tempo	1.00	8000.000000
ST0022	ATEX, Lato da tempo	1.00	8000.000000
ST0023	ATEX, Lato da tempo	1.00	8000.000000
ST0024	ATEX, Lato da tempo	1.00	8000.000000
ST0025	ATEX, Lato da tempo	1.00	8000.000000
ST0026	ATEX, Lato da tempo	1.00	8000.000000
ST0027	ATEX, Lato da tempo	1.00	8000.000000
ST0028	ATEX, Lato da tempo	1.00	8000.000000
ST0029	ATEX, Lato da tempo	1.00	8000.000000
ST0030	ATEX, Lato da tempo	1.00	8000.000000
ST0031	ATEX, Lato da tempo	1.00	8000.000000
ST0032	ATEX, Lato da tempo	1.00	8000.000000
ST0033	ATEX, Lato da tempo	1.00	8000.000000
ST0034	ATEX, Lato da tempo	1.00	8000.000000
ST0035	ATEX, Lato da tempo	1.00	8000.000000
ST0036	ATEX, Lato da tempo	1.00	8000.000000
ST0037	ATEX, Lato da tempo	1.00	8000.000000
ST0038	ATEX, Lato da tempo	1.00	8000.000000
ST0039	ATEX, Lato da tempo	1.00	8000.000000
ST0040	ATEX, Lato da tempo	1.00	8000.000000
ST0041	ATEX, Lato da tempo	1.00	8000.000000
ST0042	ATEX, Lato da tempo	1.00	8000.000000
ST0043	ATEX, Lato da tempo	1.00	8000.000000
ST0044	ATEX, Lato da tempo	1.00	8000.000000
ST0045	ATEX, Lato da tempo	1.00	8000.000000
ST0046	ATEX, Lato da tempo	1.00	8000.000000
ST0047	ATEX, Lato da tempo	1.00	8000.000000
ST0048	ATEX, Lato da tempo	1.00	8000.000000
ST0049	ATEX, Lato da tempo	1.00	8000.000000
ST0050	ATEX, Lato da tempo	1.00	8000.000000

## 4D (t)

PORTA IN CANTIERE IL BIM



larghezza	altezza	mq	1,20
0,80	1,50	mq	1,20
1,20	1,50	mq	1,80
1,20	1,50	mq	1,80
1,20	1,50	mq	1,80
		mq	
		mq	
0,80	0,80	mq	0,64
		mq	
			7,24

Settimane di lavoro	1	2	3	4	5	6	7	8	9	10	11
ALLESTIMENTO CANTIERE	█										
INSTALLAZIONE GRU A TORRE	█										
MONTAGGIO E SMONTAGGIO PONTEGGI				█							
DEMOLIZIONI	█	█	█	█							
OPERE IN MURATURA		█	█	█							
INCAMICIATURA PILASTRI			█	█							
RINFORZO CON RETE FIBRORINFORZATA			█	█							
POSA CONTROSOFFITTI										█	
MASSETTI, SOTTOFONDI, PAVIMENTI					█						
CAPPOTTO ESTERNO									█	█	
RASATURA E PITTURA									█	█	
COIBENTAZIONE COPERTURA					█	█					
OPERE LATTONIERE										█	
OPERE SERRAMENTISTA											█
IMPIANTI MECCANICI INTERNI											█



PROGETTAZIONE

GARA

PROGRAMMAZIONE

ESECUZIONE

BUILDING INFORMATION MODELING AND MANAGEMENT

# L'EDILIZIA DEI PROSSIMI 10 ANNI

parallelab  
PH.D ING CARLO ZANCHETTA

The screenshot displays the Synchro software interface for project management. The main window is titled "ATER\_via da Ionigo.spx - Synchro". The interface includes a menu bar (File, Configure, Plan, Assign Resources, 3D, 4D Review, Analyse, Reports, Windows, Navigator), a toolbar with various icons for navigation and analysis, and a central workspace. The workspace is divided into three main sections: a 3D Objects list on the left, a Gantt chart in the middle, and a Task Properties panel on the right.

**3D Objects List:**

ID	Name	Duration	Start	Finish	3D Re...
1	ST00020 ATER_via da Ionigo	14d	09:00 10/05/18	17:00 29/05/18	(117)
2	ST00030 Cappotto	7d	09:00 10/05/18	17:00 18/05/18	(28)
4	ST00080 piano rialzato A	1d	09:00 10/05/18	17:00 10/05/18	4
6	ST00100 piano primo A	1d	09:00 11/05/18	17:00 11/05/18	4
8	ST00120 piano secondo A	1d	09:00 14/05/18	17:00 14/05/18	4
3	ST00040 piano terra	1d	09:00 15/05/18	17:00 15/05/18	4
5	ST00090 piano rialzato B	1d	09:00 16/05/18	17:00 16/05/18	4
7	ST00110 piano primo B	1d	09:00 17/05/18	17:00 17/05/18	4
9	ST00130 piano secondo B	1d	09:00 18/05/18	17:00 18/05/18	4
10	Serramenti	7d	09:00 21/05/18	17:00 29/05/18	(89)
12	ST00150 piano rialzato A	1d	09:00 21/05/18	17:00 21/05/18	13
14	ST00170 piano primo A	1d	09:00 22/05/18	17:00 22/05/18	13
16	ST00190 piano secondo A	1d	09:00 23/05/18	17:00 23/05/18	13
11	ST00140 piano terra	1d	09:00 24/05/18	17:00 24/05/18	8
13	ST00160 piano rialzato B	1d	09:00 25/05/18	17:00 25/05/18	13

**Gantt Chart:** The Gantt chart shows the project schedule from May 2018. It includes tasks for "Cappotto", "ATER\_via da Ionigo", "piano rialzato A", "piano primo A", "piano secondo A", "piano terra", "piano rialzato B", "piano primo B", "piano secondo B", and "Serramenti".

**Task Properties Panel:**

- General: ID ST00080, Name piano rialzat..., Calendar Ater PD, Task Type Work, URL, Comments, GUID 7866503B-2...
- Progress: Status Planned, Progress T... Automatic, % Complete 0.00
- Durations: Duration Ty... Fixed, Duration 1d, Planned Du... 1d, Remaining... 1d, Actual Durat... 0d, Duration At... 1d, BL Duration
- Start Dates: Start 09:00 10/05/18, Planned Start 09:00 10/05/18, Actual Start 09:00 10/05/18, BL Start
- Finish Dates: Finish 17:00 10/05/18, Planned Fin... 17:00 10/05/18, Estimated F... 17:00 10/05/18, Actual Finish 17:00 10/05/18, BL Finish
- Constraints: Constraint T... No Constrai..., Constraint E..., Constraint L...
- Physical Quantities: Task Rule, Estimated R... 0.00, Physical Qu... 0.00, Remaining... 0.00, Actual Phys... 0.00

**3D Model:** The 3D model shows a multi-story building with a central tower and a smaller section on the right. The model is rendered in a simple, greyish-blue style.

**Bottom Status Bar:** For Help, press F1 | Expire 236 days | Enough memory | [Filter On] Selected[1][0][0] | 03:43 09/05/18 | Private Project | Transactions: 402 | Administrator



# L'EDILIZIA DEI PROSSIMI 10 ANNI

Tasks/Task#id	Tasks/Task/Name	Tasks/Task/start	Tasks/Task/Finish	Tasks/Task/Active	Tasks/Task/Active/#agg	Tasks/Task/Actual Cost	Tasks/Task/Actual Cost/#agg	Tasks/Task/Actual Duration	Tasks/Task/Actual Finish	Tasks/Task/Actual Overtime Cost	Tasks/Task/Actual Overtime Cost/#agg	Tasks/Task/Actual Overtime Work	Tasks/Task/Actual Start	Tasks/Task/Actual Work	Tasks/Task/ACWP	Tasks/Task/ACWP/#agg	Tasks/Task/BCWP	Tasks/Task/BCWP/#agg	Tasks/Task/BCWS	Tasks/Task/BCWS/#agg	Tasks/Task/CalendarUID	Tasks/Task/CalendarUID/#agg	Tasks/Task/CommitmentType	Tasks/Task/CommitmentType/#agg
1	Training Project Scheduling	01.02.2016 09:00	26.04.2017 17:00	1	1	0	0	PT183H27M12S		0	0	PT0H0M0S	01.02.2016 09:00	PT240H0M0S	0	0	0	0	0	0	1	1	0	
2	Office Building, Core & Shell	01.02.2016 09:00	26.04.2017 17:00	1	1	0	0	PT183H27M12S		0	0	PT0H0M0S	01.02.2016 09:00	PT240H0M0S	0	0	0	0	0	0	-1	-1	0	
3	Pre Construction	01.02.2016 09:00	26.02.2016 17:00	1	1	0	0	PT160H0M0S	26.02.2016 17:00	0	0	PT0H0M0S	01.02.2016 09:00	PT240H0M0S	0	0	0	0	0	0	1	1	0	
4	Notice to Proceed	01.02.2016 09:00	01.02.2016 09:00	1	1	0	0	PT0H0M0S	01.02.2016 09:00	0	0	PT0H0M0S	01.02.2016 09:00	PT0H0M0S	0	0	0	0	0	0	1	1	0	
5	Building Permit	01.02.2016 09:00	26.02.2016 17:00	1	1	0	0	PT160H0M0S	26.02.2016 17:00	0	0	PT0H0M0S	01.02.2016 09:00	PT160H0M0S	0	0	0	0	0	0	1	1	0	
6	Award Subcontractors	01.02.2016 09:00	12.02.2016 17:00	1	1	0	0	PT80H0M0S	12.02.2016 17:00	0	0	PT0H0M0S	01.02.2016 09:00	PT80H0M0S	0	0	0	0	0	0	1	1	0	
7	Perimeter Fence	22.02.2016 09:00	24.02.2016 17:00	1	1	0	0	PT24H0M0S	24.02.2016 17:00	0	0	PT0H0M0S	22.02.2016 09:00	PT0H0M0S	0	0	0	0	0	0	1	1	0	
8	Temporary Hard Standing	24.02.2016 09:00	24.02.2016 17:00	1	1	0	0	PT8H0M0S	24.02.2016 17:00	0	0	PT0H0M0S	24.02.2016 09:00	PT0H0M0S	0	0	0	0	0	0	1	1	0	
9	Field Office	25.02.2016 09:00	26.02.2016 17:00	1	1	0	0	PT16H0M0S	26.02.2016 17:00	0	0	PT0H0M0S	25.02.2016 09:00	PT0H0M0S	0	0	0	0	0	0	1	1	0	
10	Material Procurement	15.02.2016 09:00	20.05.2016 17:00	1	1	0	0	PT94H46M12S		0	0	PT0H0M0S	15.02.2016 09:00	PT0H0M0S	0	0	0	0	0	0	1	1	0	
11	Structural Steel	15.02.2016 09:00	13.05.2016 17:00	1	1	0	0	PT88H0M0S		0	0	PT0H0M0S	15.02.2016 09:00	PT0H0M0S	0	0	0	0	0	0	1	1	0	
12	Glass Curtain Wall	15.02.2016 09:00	06.05.2016 17:00	1	1	0	0	PT88H0M0S		0	0	PT0H0M0S	15.02.2016 09:00	PT0H0M0S	0	0	0	0	0	0	1	1	0	
13	Elevator	15.02.2016 09:00	13.05.2016 17:00	1	1	0	0	PT88H0M0S		0	0	PT0H0M0S	15.02.2016 09:00	PT0H0M0S	0	0	0	0	0	0	1	1	0	
14	MEP Equipment	15.02.2016 09:00	20.05.2016 17:00	1	1	0	0	PT88H0M0S		0	0	PT0H0M0S	15.02.2016 09:00	PT0H0M0S	0	0	0	0	0	0	1	1	0	
15	Construction	29.02.2016 09:00	21.02.2017 17:00	1	1	0	0	PT5H3M30S		0	0	PT0H0M0S	29.02.2016 09:00	PT0H0M0S	0	0	0	0	0	0	1	1	0	
16	Site Construction	29.02.2016 09:00	07.02.2017 17:00	1	1	0	0	PT29H3M30S		0	0	PT0H0M0S	29.02.2016 09:00	PT0H0M0S	0	0	0	0	0	0	1	1	0	
17	Foundation Excavation	29.02.2016 09:00	04.03.2016 17:00	1	1	0	0	PT8H0M0S		0	0	PT0H0M0S	29.02.2016 09:00	PT0H0M0S	0	0	0	0	0	0	1	1	0	
18	Structural Piles	07.03.2016 09:00	01.04.2016 17:00	1	1	0	0	PT0H0M0S		0	0	PT0H0M0S		PT0H0M0S	0	0	0	0	0	0	1	1	0	
19	Site Utilities	29.02.2016 09:00	22.04.2016 17:00	1	1	0	0	PT8H0M0S		0	0	PT0H0M0S	29.02.2016 09:00	PT0H0M0S	0	0	0	0	0	0	1	1	0	
20	Backfill / Compact Found	18.04.2016 09:00	22.04.2016 17:00	1	1	0	0	PT0H0M0S		0	0	PT0H0M0S		PT0H0M0S	0	0	0	0	0	0	1	1	0	
21	Crushed Gravel, Ground Floor	11.07.2016 09:00	15.07.2016 17:00	1	1	0	0	PT0H0M0S		0	0	PT0H0M0S		PT0H0M0S	0	0	0	0	0	0	1	1	0	
22	Road / Parking Lot Preparation	21.12.2016 09:00	17.01.2017 17:00	1	1	0	0	PT0H0M0S		0	0	PT0H0M0S		PT0H0M0S	0	0	0	0	0	0	1	1	0	
23	Road / Parking Lot Pavement	18.01.2017 09:00	25.01.2017 17:00	1	1	0	0	PT0H0M0S		0	0	PT0H0M0S		PT0H0M0S	0	0	0	0	0	0	1	1	0	
24	Site Improvements	21.12.2016 09:00	24.01.2017 17:00	1	1	0	0	PT0H0M0S		0	0	PT0H0M0S		PT0H0M0S	0	0	0	0	0	0	1	1	0	
25	Site Plantings	25.01.2017 09:00	07.02.2017 17:00	1	1	0	0	PT0H0M0S		0	0	PT0H0M0S		PT0H0M0S	0	0	0	0	0	0	1	1	0	
26	Concrete	04.04.2016 09:00	04.08.2016 17:00	1	1	0	0	PT0H0M0S		0	0	PT0H0M0S		PT0H0M0S	0	0	0	0	0	0	1	1	0	
27	Pile Caps	04.04.2016 09:00	15.04.2016 17:00	1	1	0	0	PT0H0M0S		0	0	PT0H0M0S		PT0H0M0S	0	0	0	0	0	0	1	1	0	
28	Grade Beams	25.04.2016 09:00	06.05.2016 17:00	1	1	0	0	PT0H0M0S		0	0	PT0H0M0S		PT0H0M0S	0	0	0	0	0	0	1	1	0	
29	Slab on Grade	18.07.2016 09:00	20.07.2016 17:00	1	1	0	0	PT0H0M0S		0	0	PT0H0M0S		PT0H0M0S	0	0	0	0	0	0	1	1	0	
30	Slab on Deck, 1st Floor	21.07.2016 09:00	02.08.2016 17:00	1	1	0	0	PT0H0M0S		0	0	PT0H0M0S		PT0H0M0S	0	0	0	0	0	0	1	1	0	
31	Slab on Deck, 1st Floor, Area 1	21.07.2016 09:00	26.07.2016 17:00	1	1	0	0	PT0H0M0S		0	0	PT0H0M0S		PT0H0M0S	0	0	0	0	0	0	1	1	0	
32	Slab on Deck, 1st Floor, Area 1A	21.07.2016 09:00	21.07.2016 17:00	1	1	0	0	PT0H0M0S		0	0	PT0H0M0S		PT0H0M0S	0	0	0	0	0	0	1	1	0	
33	Slab on Deck, 1st Floor, Area 1B	22.07.2016 09:00	22.07.2016 17:00	1	1	0	0	PT0H0M0S		0	0	PT0H0M0S		PT0H0M0S	0	0	0	0	0	0	1	1	0	
34	Slab on Deck, 1st Floor, Area 1C	25.07.2016 09:00	25.07.2016 17:00	1	1	0	0	PT0H0M0S		0	0	PT0H0M0S		PT0H0M0S	0	0	0	0	0	0	1	1	0	
35	Slab on Deck, 1st Floor, Area 1D	26.07.2016 09:00	26.07.2016 17:00	1	1	0	0	PT0H0M0S		0	0	PT0H0M0S		PT0H0M0S	0	0	0	0	0	0	1	1	0	

	A	B	C	D	E
1	Attività_ID	Attività_Nome	Data inizio	Data fine	Attività_State
2	1	Office Building, Core & Shell	01.02.2016 09:00	26.04.2017 17:00	
3	2	Pre Construction	01.02.2016 09:00	26.02.2016 17:00	
4	3	Notice to Proceed	01.02.2016 09:00	01.02.2016 09:00	
5	4	Building Permit	01.02.2016 09:00	26.02.2016 17:00	
6	5	Award Subcontractors	01.02.2016 09:00	12.02.2016 17:00	
7	6	Perimeter Fence	22.02.2016 09:00	24.02.2016 17:00	
8	7	Temporary Hard Standing	24.02.2016 09:00	24.02.2016 17:00	
9	8	Field Office	25.02.2016 09:00	26.02.2016 17:00	
10	9	Material Procurement	15.02.2016 09:00	20.05.2016 17:00	
11	10	Structural Steel	15.02.2016 09:00	13.05.2016 17:00	
12	11	Glass Curtain Wall	15.02.2016 09:00	06.05.2016 17:00	
13	12	Elevator	15.02.2016 09:00	13.05.2016 17:00	
14	13	MEP Equipment	15.02.2016 09:00	20.05.2016 17:00	
15	14	Construction	29.02.2016 09:00	21.02.2017 17:00	
16	15	Site Construction	29.02.2016 09:00	07.02.2017 17:00	
17	16	Foundation Excavation	29.02.2016 09:00	04.03.2016 17:00	
18	17	Structural Piles	07.03.2016 09:00	01.04.2016 17:00	
19	18	Site Utilities	29.02.2016 09:00	22.04.2016 17:00	
20	19	Backfill / Compact Foundation Excavation	18.04.2016 09:00	22.04.2016 17:00	
21	20	Crushed Gravel, Ground Floor	11.07.2016 09:00	15.07.2016 17:00	
22	21	Road / Parking Lot Preparation	21.12.2016 09:00	17.01.2017 17:00	
23	22	Road / Parking Lot Pavement	18.01.2017 09:00	25.01.2017 17:00	
24	23	Site Improvements	21.12.2016 09:00	24.01.2017 17:00	
25	24	Site Plantings	25.01.2017 09:00	07.02.2017 17:00	
26	25	Concrete	04.04.2016 09:00	04.08.2016 17:00	
27	26	Pile Caps	04.04.2016 09:00	15.04.2016 17:00	
28	27	Grade Beams	25.04.2016 09:00	06.05.2016 17:00	
29	28	Slab on Grade	18.07.2016 09:00	20.07.2016 17:00	
30	29	Slab on Deck, 1st Floor	21.07.2016 09:00	02.08.2016 17:00	
31	30	Slab on Deck, 1st Floor, Area 1	21.07.2016 09:00	26.07.2016 17:00	
32	31	Slab on Deck, 1st Floor, Area 1A	21.07.2016 09:00	21.07.2016 17:00	
33	32	Slab on Deck, 1st Floor, Area 1B	22.07.2016 09:00	22.07.2016 17:00	
34	33	Slab on Deck, 1st Floor, Area 1C	25.07.2016 09:00	25.07.2016 17:00	
35	34	Slab on Deck, 1st Floor, Area 1D	26.07.2016 09:00	26.07.2016 17:00	

Programma lavori su Google Drive



# L'EDILIZIA DEI PROSSIMI 10 ANNI

parallab  
PH.D ING CARLO ZANCHETTA



APP Inventor

Programma lavoro

Google Drive

APP

Attività ID	Attività Nome	Data inizio	Data fine	Attività Stato
01.01	nome1	29/05/2018	29/05/2018	Attiva
01.02	nome2	29/05/2018	29/05/2018	Attiva
02.02	nome3	29/05/2018	29/05/2018	Attiva
03.01	nome4	29/05/2018	29/05/2018	Attiva

# L'EDILIZIA DEI PROSSIMI 10 ANNI

L'applicazione **registra** il  
**giornale** dei lavori e le attività



La DL registra il  
completamento

Attività_ID	Attività_Nome	Data inizio	Data fine	Attività_Stato
01 01	nome1	28/5/2018	29/5/2018	Attiva
01 02	nome2	28/5	6/1	Completata
02 01	nome3	28/5	4/1	Completata
02 02	nome4	4/1	8/1	Attiva
03 01	fine	28/5	30/5	Attiva

# L'EDILIZIA DEI PROSSIMI 10 ANNI

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CASO STUDIO



TeamSystem

SYNCHRO

parallab

BIM & APP

## PARTNERS



# edilportale<sup>®</sup>

## TOUR 2019

grazie per l'attenzione

[carlo.zanchetta@unipd.it](mailto:carlo.zanchetta@unipd.it)



[it.linkedin.com/pub/carlo-zanchetta](https://it.linkedin.com/pub/carlo-zanchetta)



[info@parallab.com](mailto:info@parallab.com)

