Point Cloud Park

Concorso Internazionale di Progettazione del Cavalcavia Bussa

Diagrams and Blueprints

1. Testing

- The Point Cloud Park will deliver an evolving framework as a new social, cultural and environmental ecosystem.
- It will provide a unifying and inclusive "point-cloud" of landscape and programmatic opportunity within this complex and changing urban landscape in Milan.
- It will deliver key elements of access and land use within budget, and will enable early development to engage the public with the potential of the park.
- It will establish a framework for the progressive evolution of the park for the long-term, that will deliver a structure for the sustainable growth of the public space accompanied by a rich and diverse programme of uses.
- It will establish an integrated approach to estate management and economic viability to ensure long-term success.

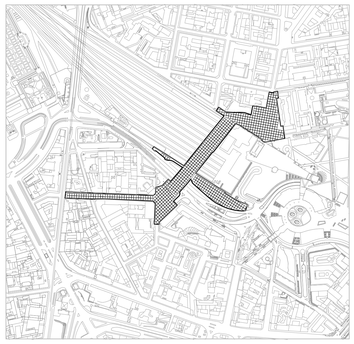
	Year 1				Year 2				Year 3				Year 4				Year 5				Year 6				Year 7				Year 8				Year 9				Year 10				Year 11			
	2015				2016				2017				2018				2019				2020				2021				2022				2023				2024				2025			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Framework (Phase 1)																																												
Grassland and structural planting	-1	-1																																										
Point cloud structure	-1	-1																																										
Infrastructure	-1	-1																																										
Access structures		-1	-1	-1																																								
Expo pavilions		0	-1	1																																								
Testing sites		-1	-1	1																																								
Evolution (Phases 2- n)																																												
Landscape establishment																																												
Base landscape maintenance			-1	-1		-1	-1			-1	-1			-1	-1			-1	-1			-1	-1			-1	-1			-1	-1			-1	-1			-1	-1			-1	-1	
Landscape evolution (capital investment)						-1			-1	-1					-1				-1	-1					-1					-1				-1	-1			-1					-1	-1
Sports events / facilities (neutral / capital return)						0	2			1						2			0					2		0	1			2	-1			1	1			0				2	2	0
Arts and Culture (capital investment)					-1		-1				-1			-1		-1		-1				-1		-1		-1		-1						-1				-1	-1			-1		
Seasonal commercial events (capital return)						2		2		2		2		2		2		2		2		2		2		2		2		3		3		3		3		3		3		3		3
Local events (capital subsidy)							-1		-1					-1					-1				-1			-1	-1			-1			-1				-1	-1				-1		
Regular commercial facilities (capital return)					2		2			2		2			2		2				2			2			2		2		2		2		2				2		2				2
Quarterly outlay	-3	-5	-2	0	1	1	0	2	-2	1	-2	4	0	-1	0	3	2	1	-3	2	2	0	1	3	-1	2	-1	3	0	3	-1	3	-1	2	-1	3	0	0	0	2	2	1	0	2
Cumulative sustainability	-3	-8	-10	-10	-9	-8	-8	-6	-8	-5	-7	-3	-3	-4	-4	-1	1	2	-1	1	3	3	4	7	6	8	7	10	10	13	12	15	14	16	15	20	20	20	20	22	24	25	25	27

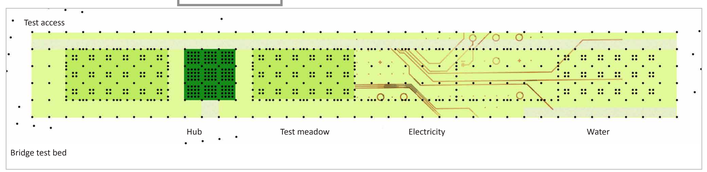
Testing materials

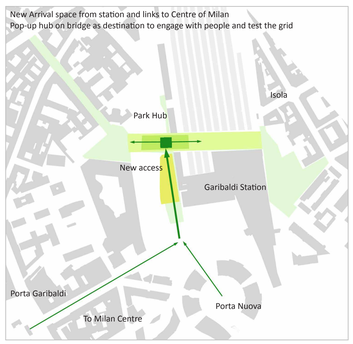
1. Pallets
2. Pallets
3. Sleepers
4. OSB
5. Scaffolding
6. Scaffolding
7. Pop-up forest
8. Meadow planting

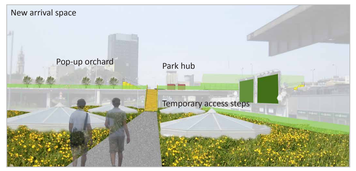
Precedent

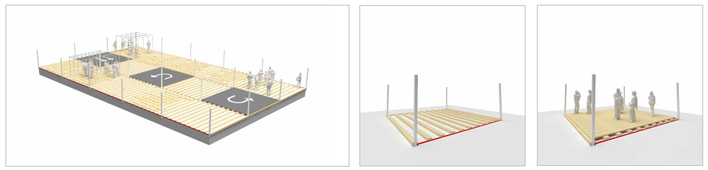
1. Seating landscape precedent
2. Pop-up construction precedent
3. Pop-up cafe precedent
4. Pop-up cafe precedent
5. Pop-up public space precedent
6. Pop-up park precedent
7. Regular landscape precedent
8. Play precedent

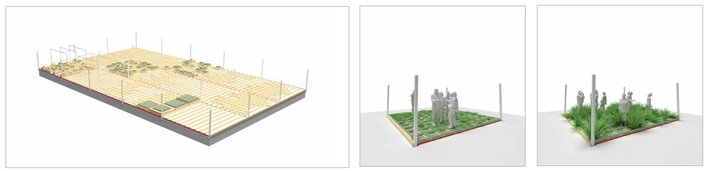


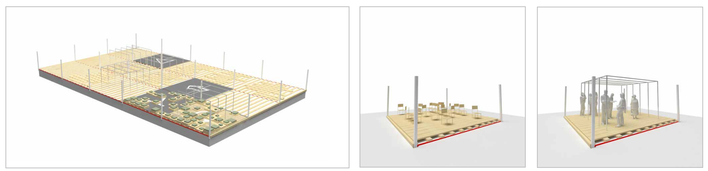


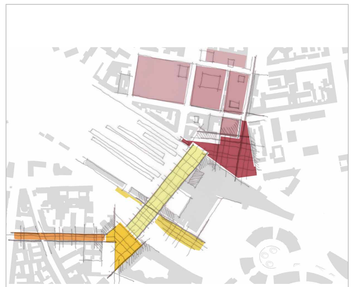




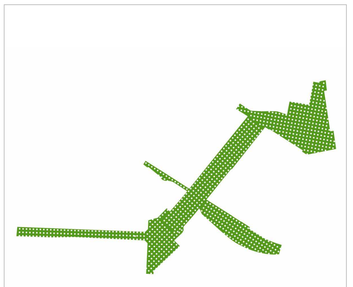








Grid orientation
Evolution of grid to reflect orientation and layout of surrounding buildings and the city beyond

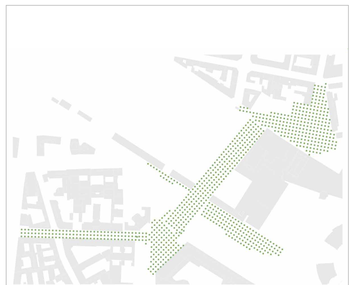


Park area
Park Area = 30,000m2 – 3ha – 7.4 acres
Construction Budget = €3.5M (€116/m2)
Overall Budget = €5.5M (€183/m2)

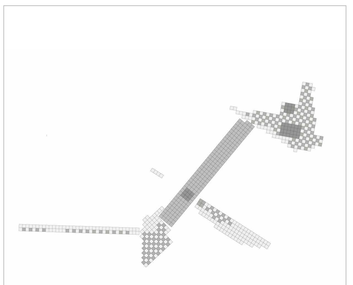
Overpass construction:
Structural support grid, waterproofing, drainage/water storage layer, hard material crushed to form soil, material to engineer soil type, reinforcement layer for surface use

Overpass meadow:
Seeding to match soil types to create a variety of low maintenance wildflower meadows
Idea that nature is taking over the bridge

Overpass surface:
Additional surfaces for different uses can be supported on the structural grid as a layer above the soil

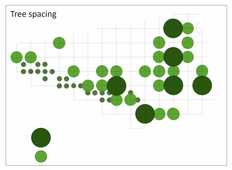


Point cloud
Single approach to landscape design to unify the park and integrate bridge, green roof, square and street
Underlying order to allow open-minded creative use

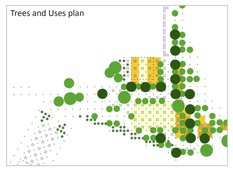


Ground use management
Underlying order of grid can be used as a tool for managing the use of space in the park

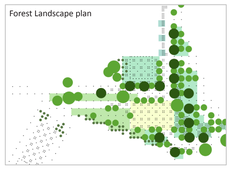
Tree spacing



Trees and Uses plan



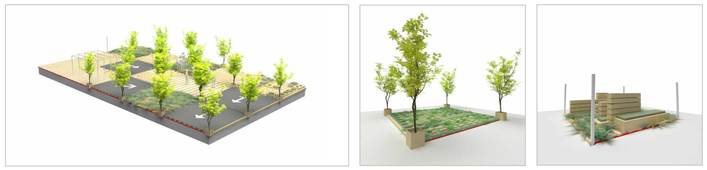
Forest Landscape plan

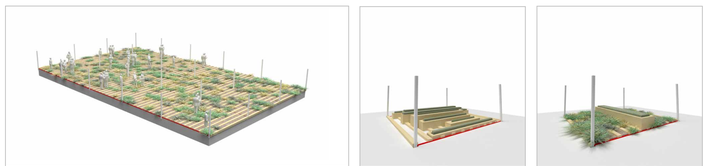


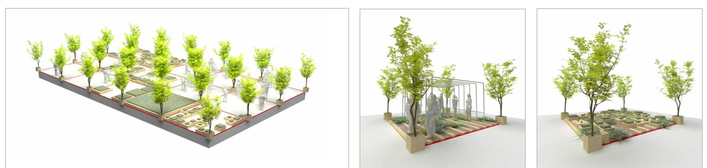
Medium/Large Tree 12m Grid;
Small Tree 6m Grid;
Groves 1-3m Grid

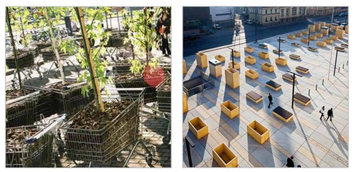
Tree grid defines spaces within the squares
Planting density allows for car parking amongst the trees as the park evolves

Possible evolution of woodland floor planting as car parking is phased out









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