

| 20161006 HKIBIM Real Time Visualisation

The University of Sydney - Great Hall



Great Hall Heritage Refurbishment

- Minimal invasiveness
- Accurate representation of object
- Allows for 3D prints of objects for accurate prototyping of heritage objects
- Allow client to have a very strong understanding of expected outcomes

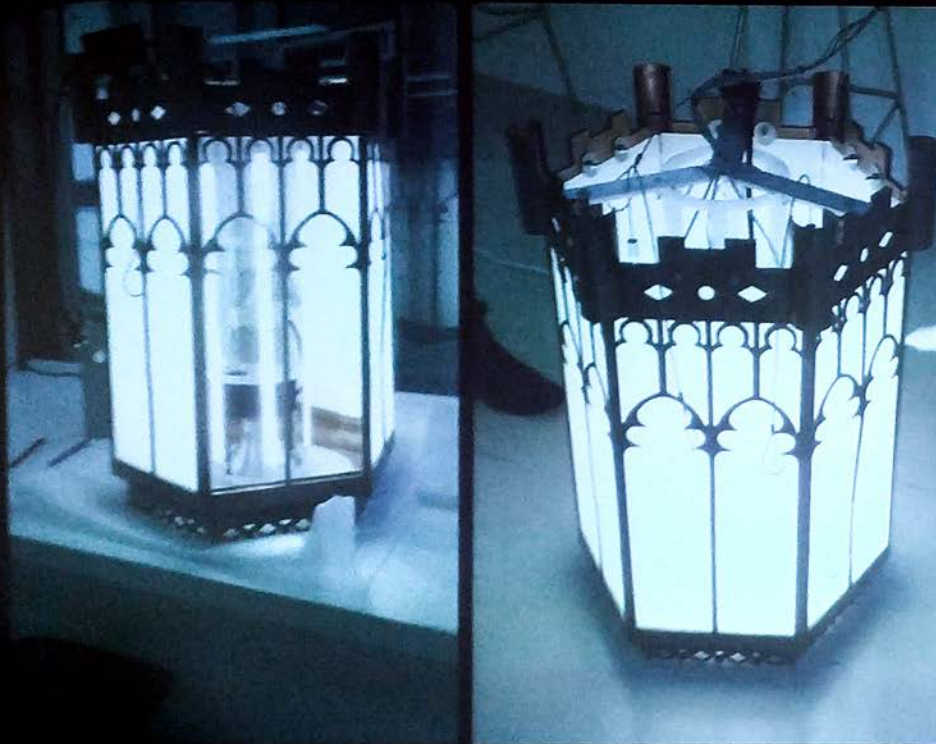
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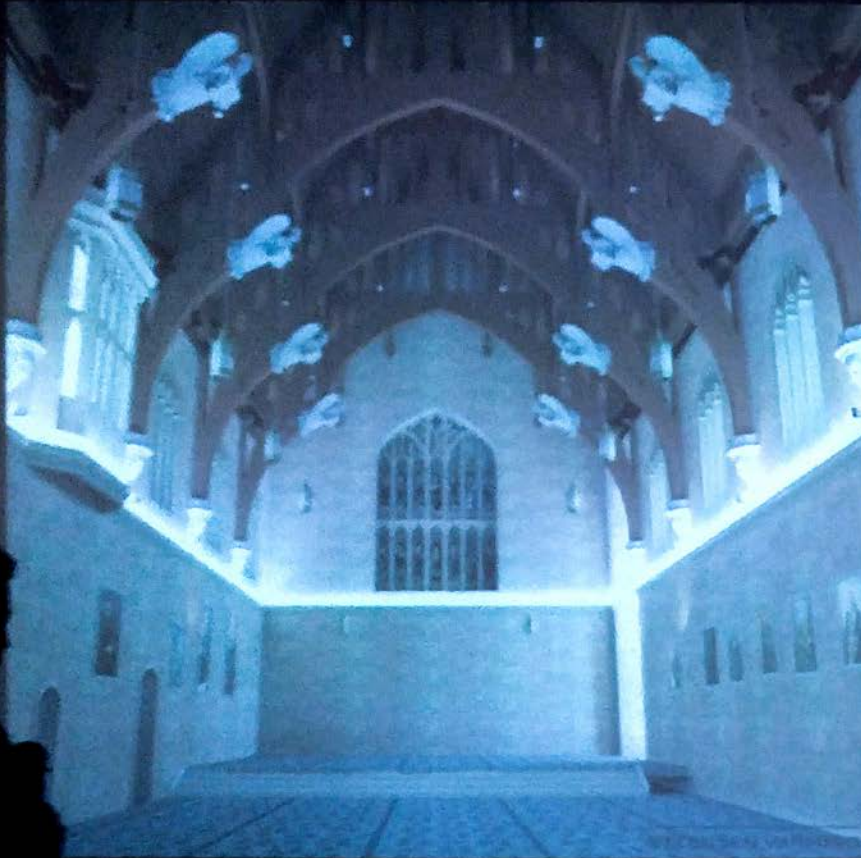
The University of Sydney - Great Hall



Great Hall Heritage Refurbishment

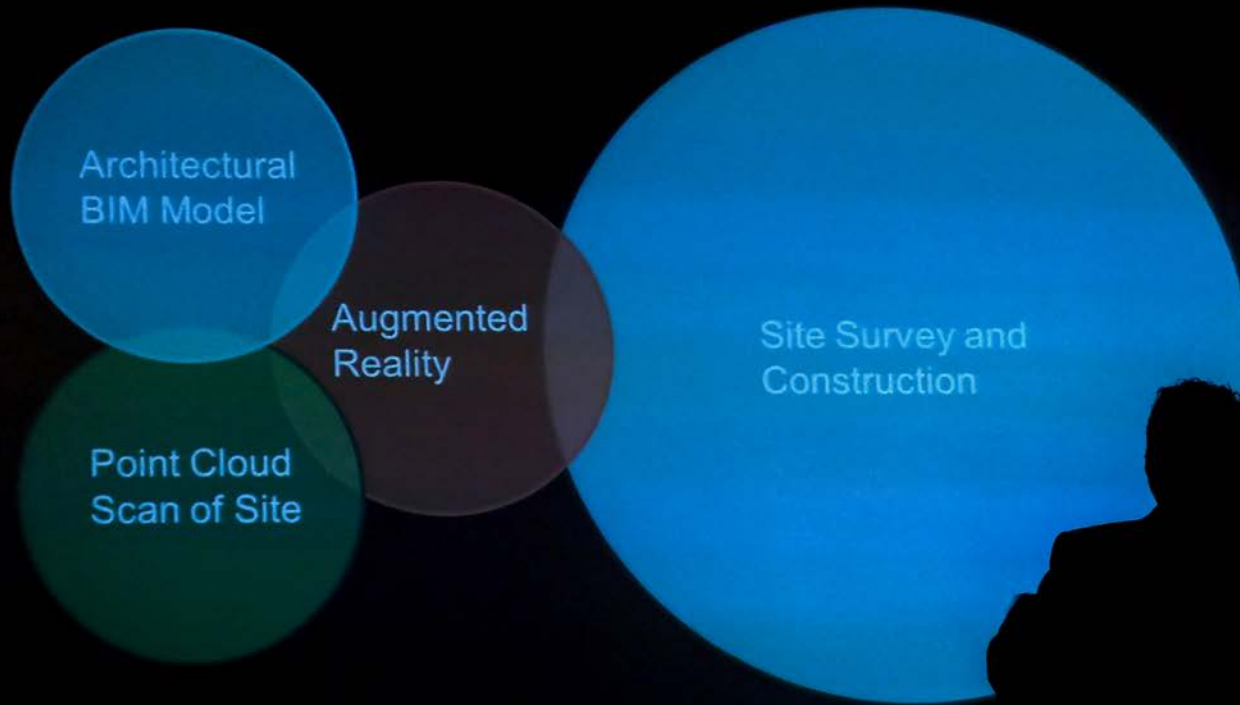
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Masterplanning Precincts

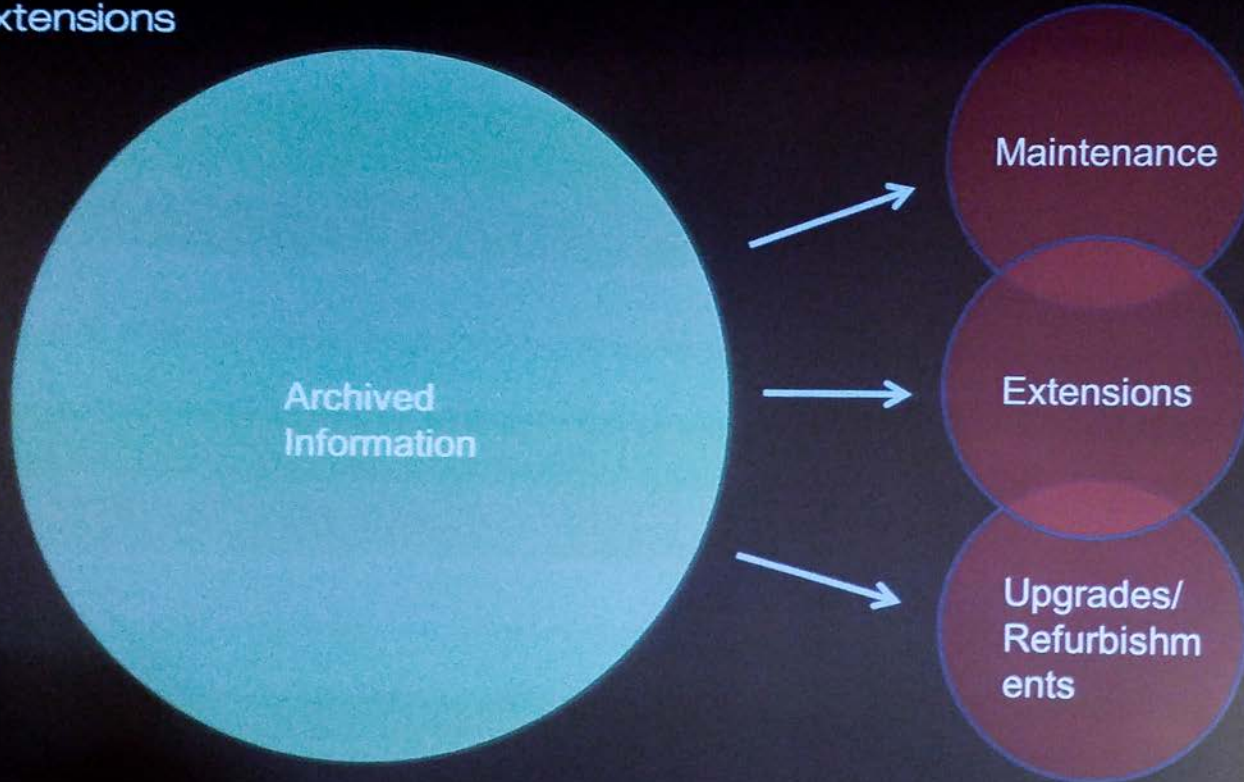


encenvrning.com

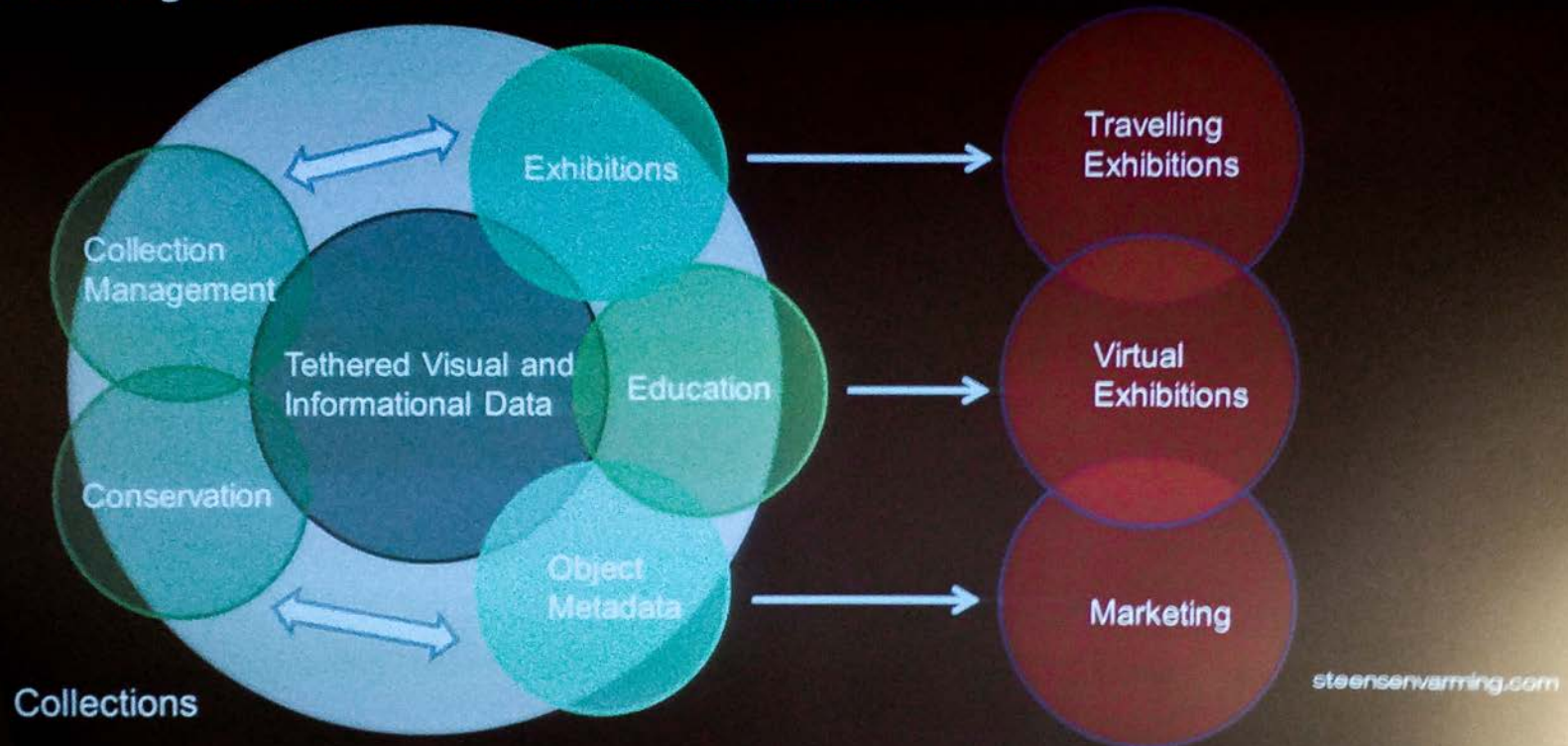
Masterplanning Precincts



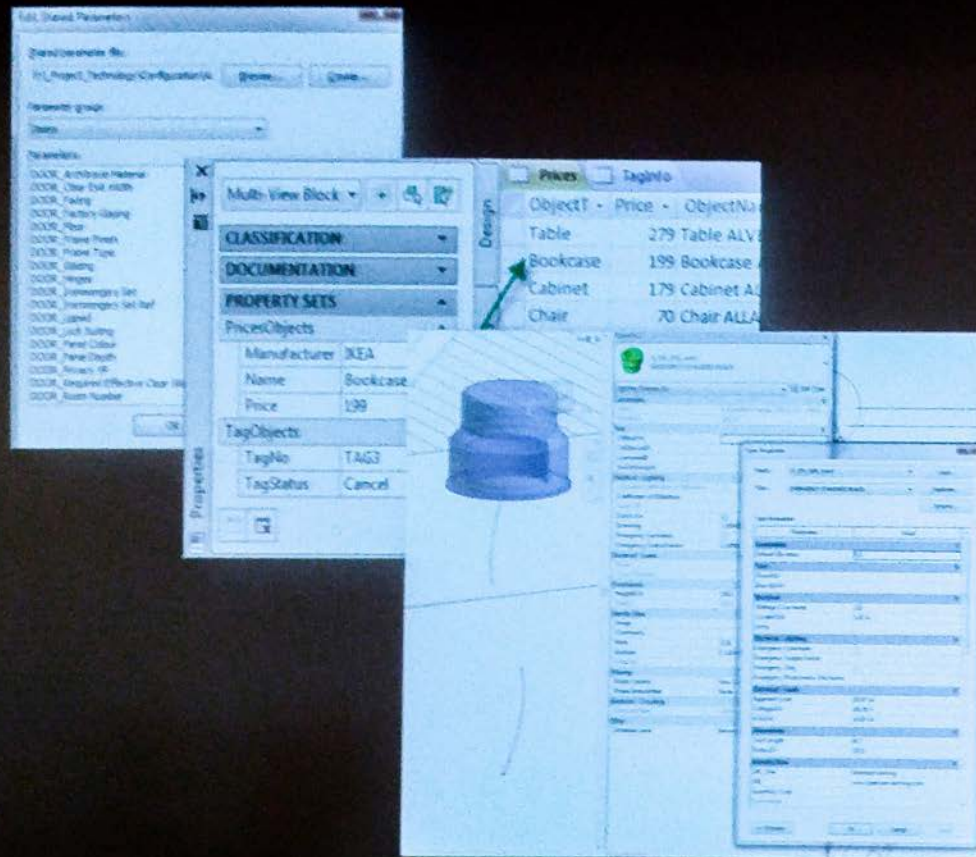
Extensions



Archiving Information for the Cultural Institution



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- Data Standards allow correlation of data across projects
- Industry Standard provide a basic framework for this
- Needs enhancement by end-users.

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[illegible]

Contextual Controls



inert Real

Game Engines



Cross Platform Capability



ineni Realtime

Future Hardware



Future Hardware

Duality of Realtime

- Realtime expresses two main concepts simultaneously. Both need to be considered and dealt with seamlessly for an intuitive experience:
 - Realtime Experience
 - Dynamic
 - Responsive
 - Realtime Interactions
 - Realtime Data
 - Sensors
 - Systems
 - Management

BIM Integration

- Key to linking all stages of a development is a rich BIM (Building Information Model) process aimed at Design, Construct and Operate.
- Working with a well resolved BIM allows for efficiencies to be realised in many disparate aspects of a project.

Truth = Metadata

By integrating various source authoring software outputs, a realtime environment can contain and integrate all associated data into a **“Single Point of Truth”** for a development.

Linking the Value Chain

- Realtime methodologies are linking previously silo'd departments involved in large developments into a single extended Value Chain.
 - Bid Phase
 - Design Development
 - Marketing Phase
 - Commissioning
 - Construction Phase
 - Hand Over
 - Operational Phase

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Barangaroo | Lend Lease

Loading...

Artists Impression



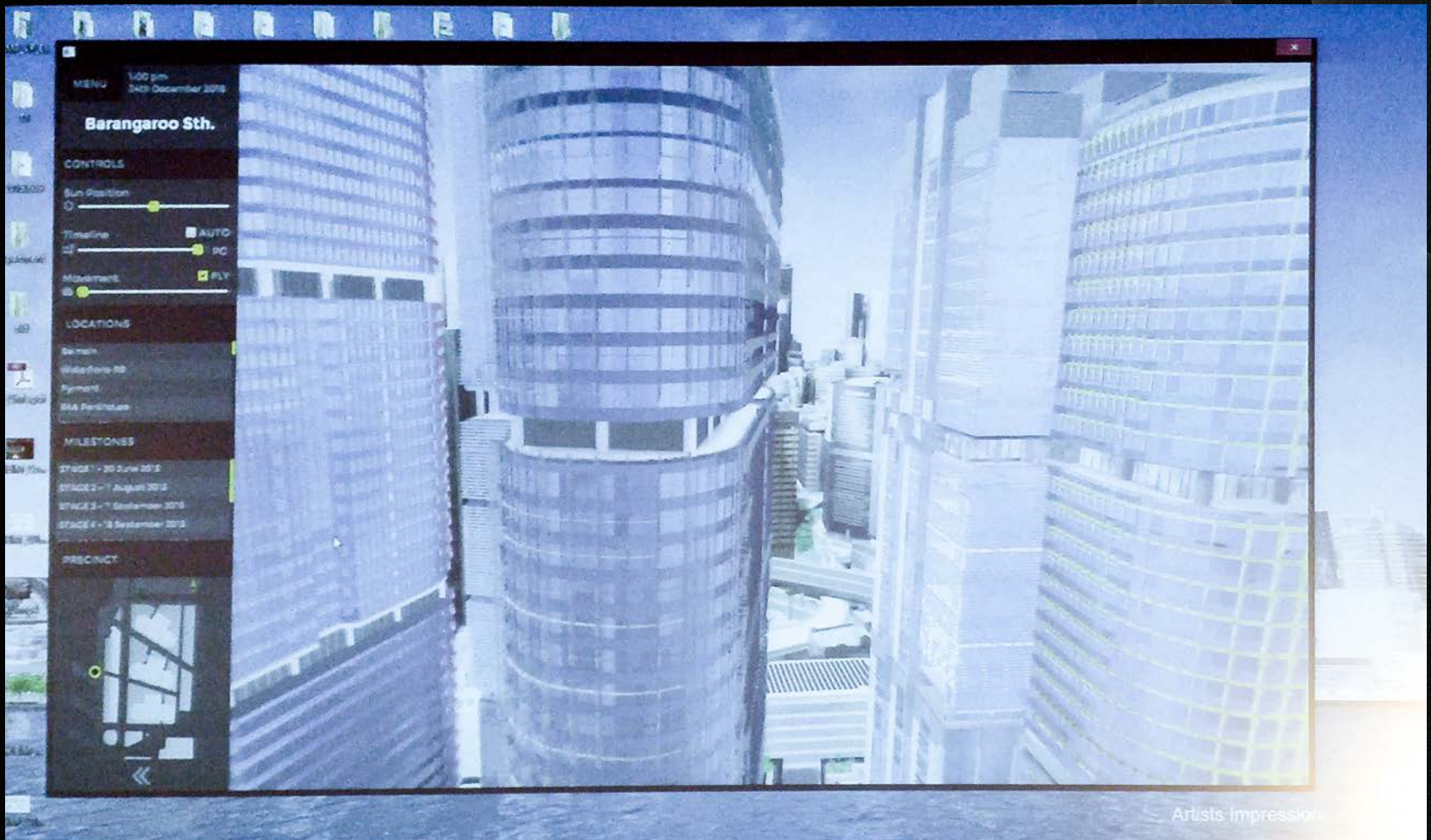


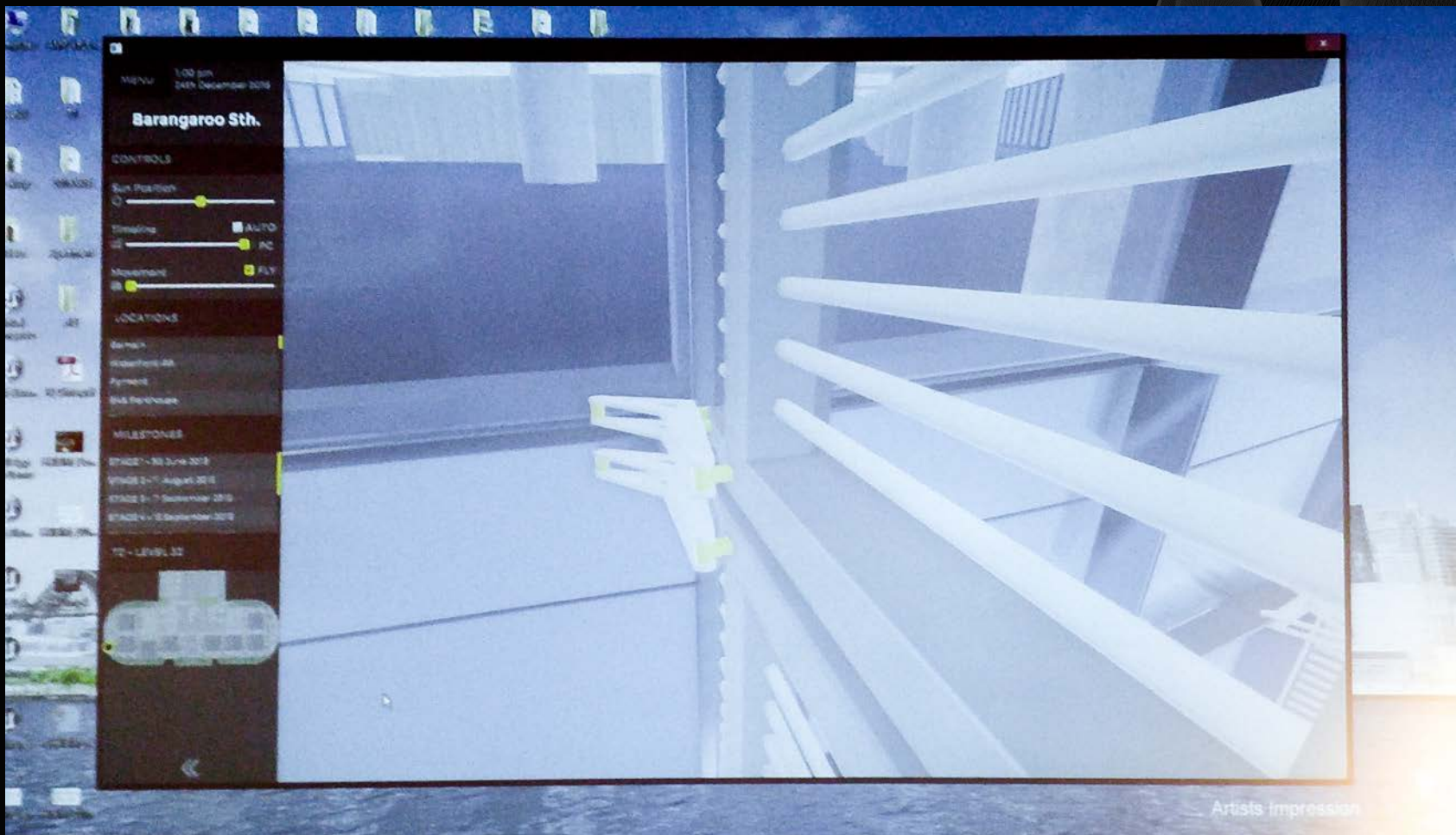


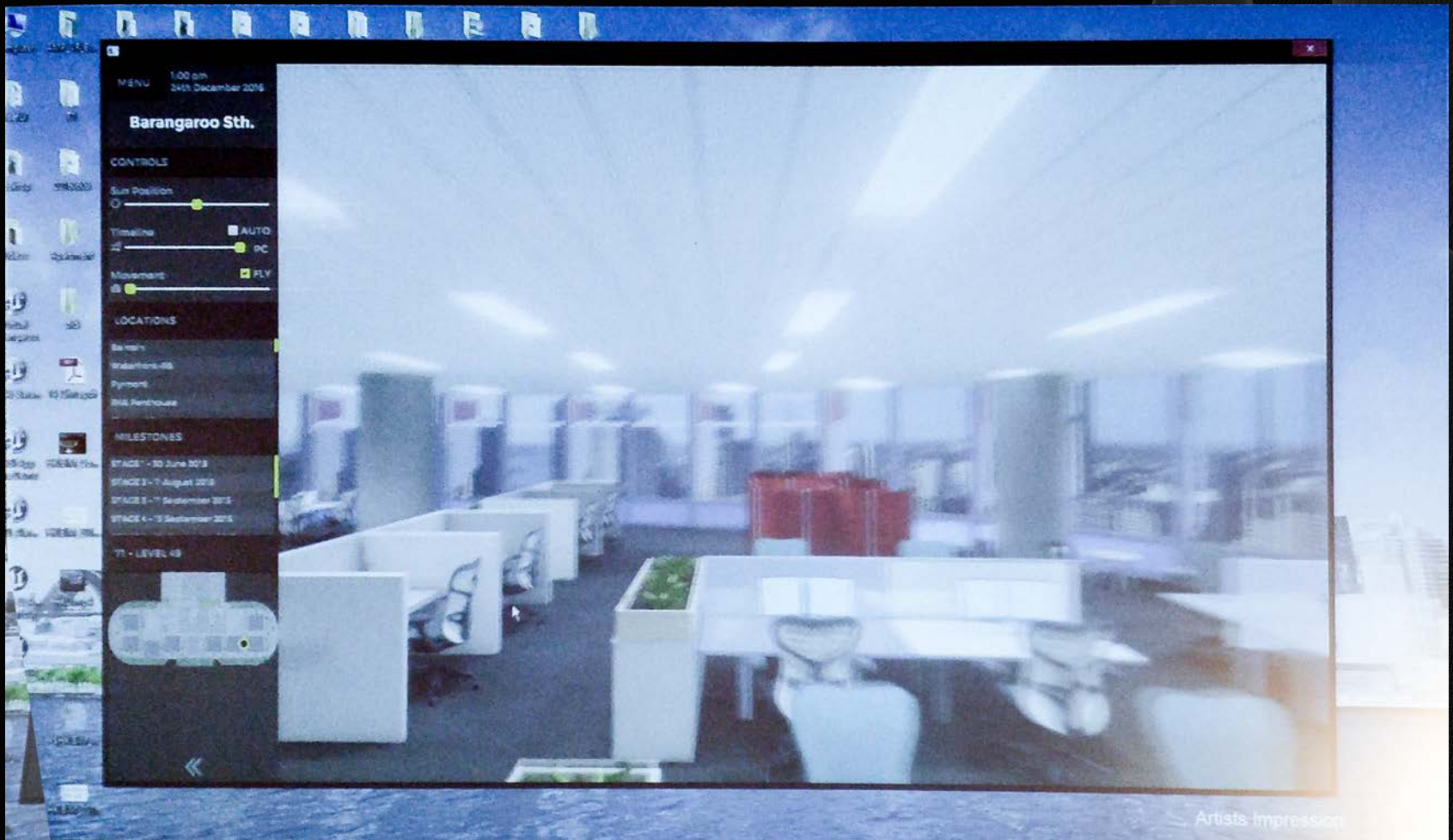




Artists Impression





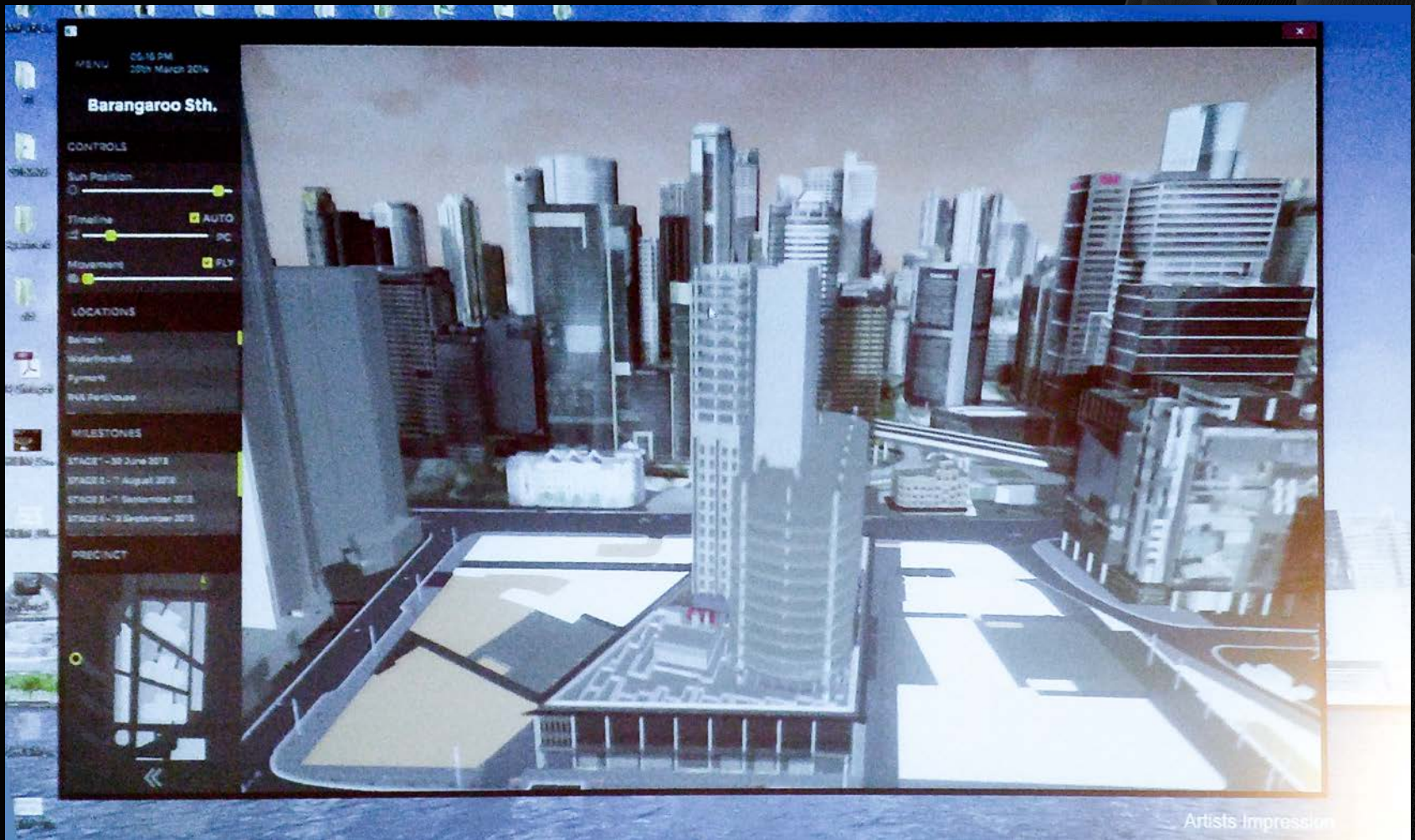


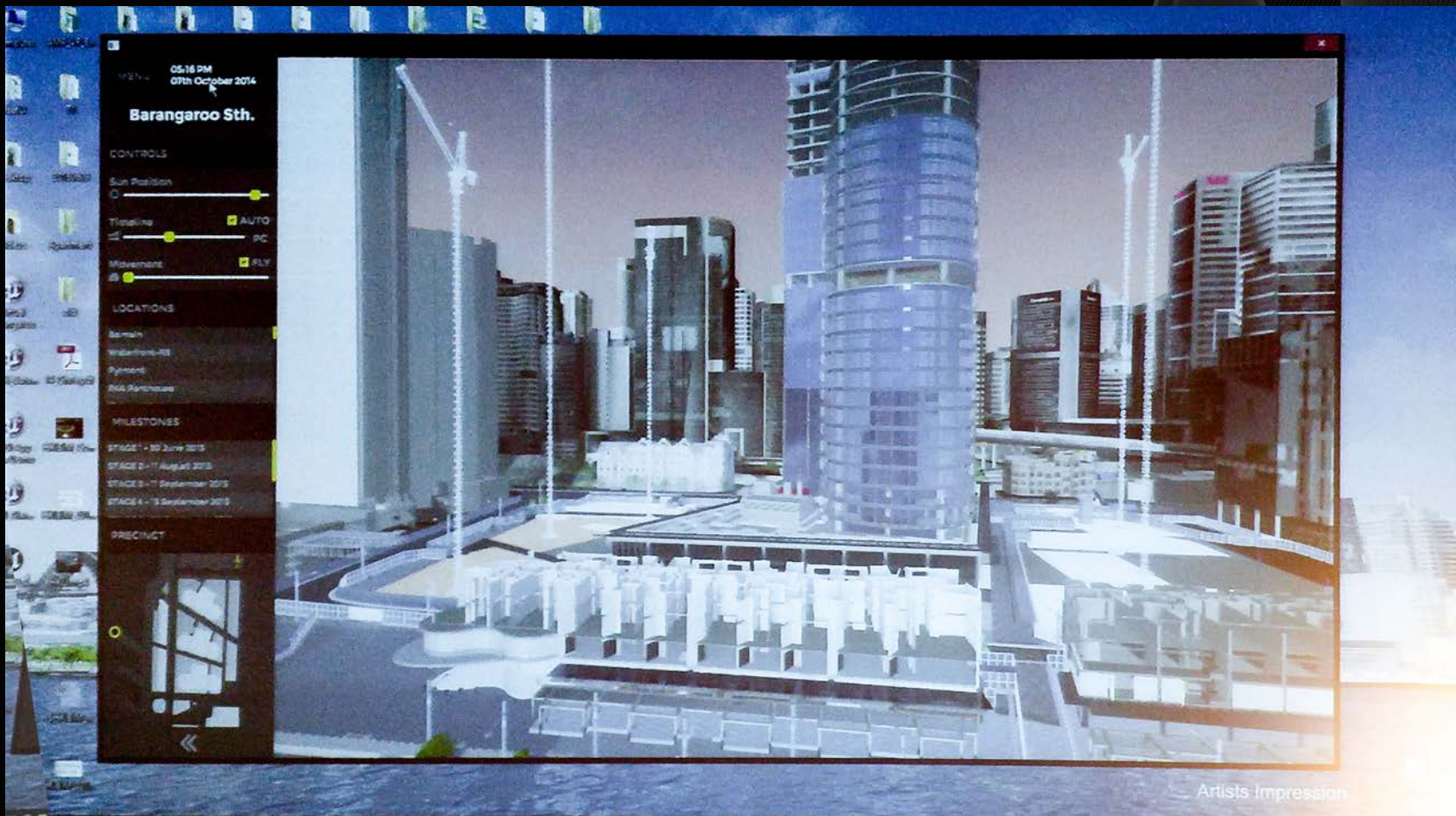


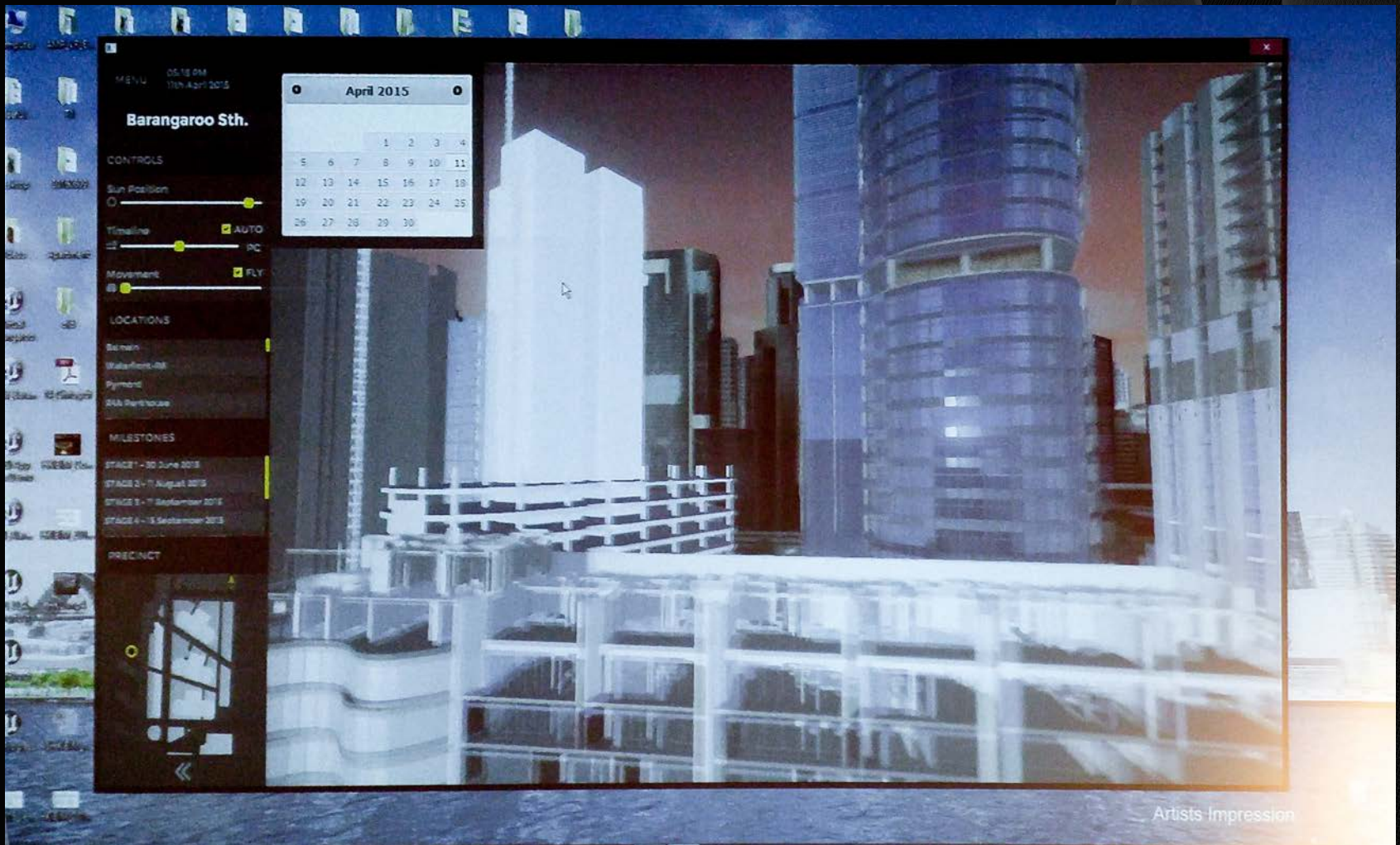


Artists Impression

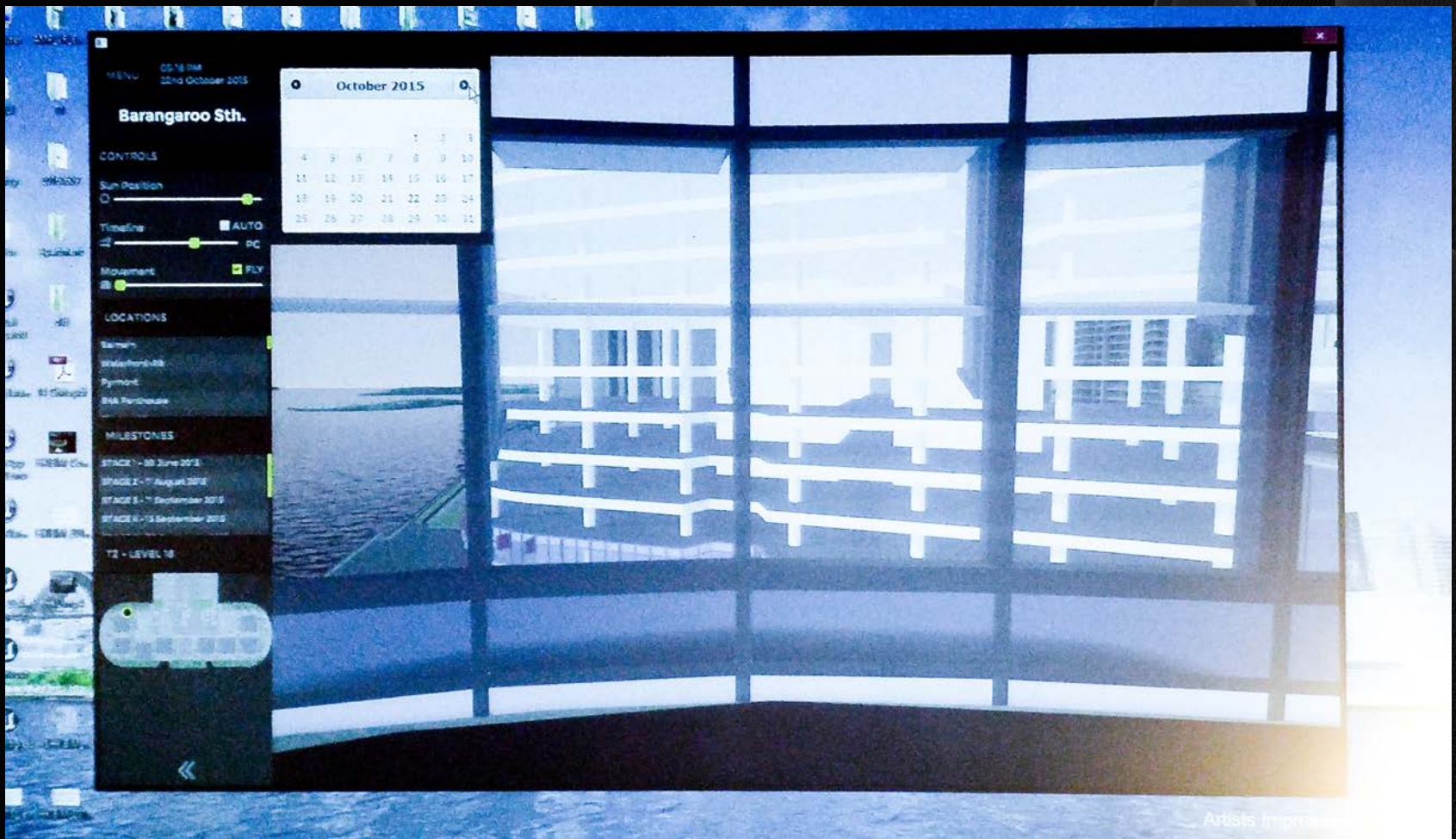


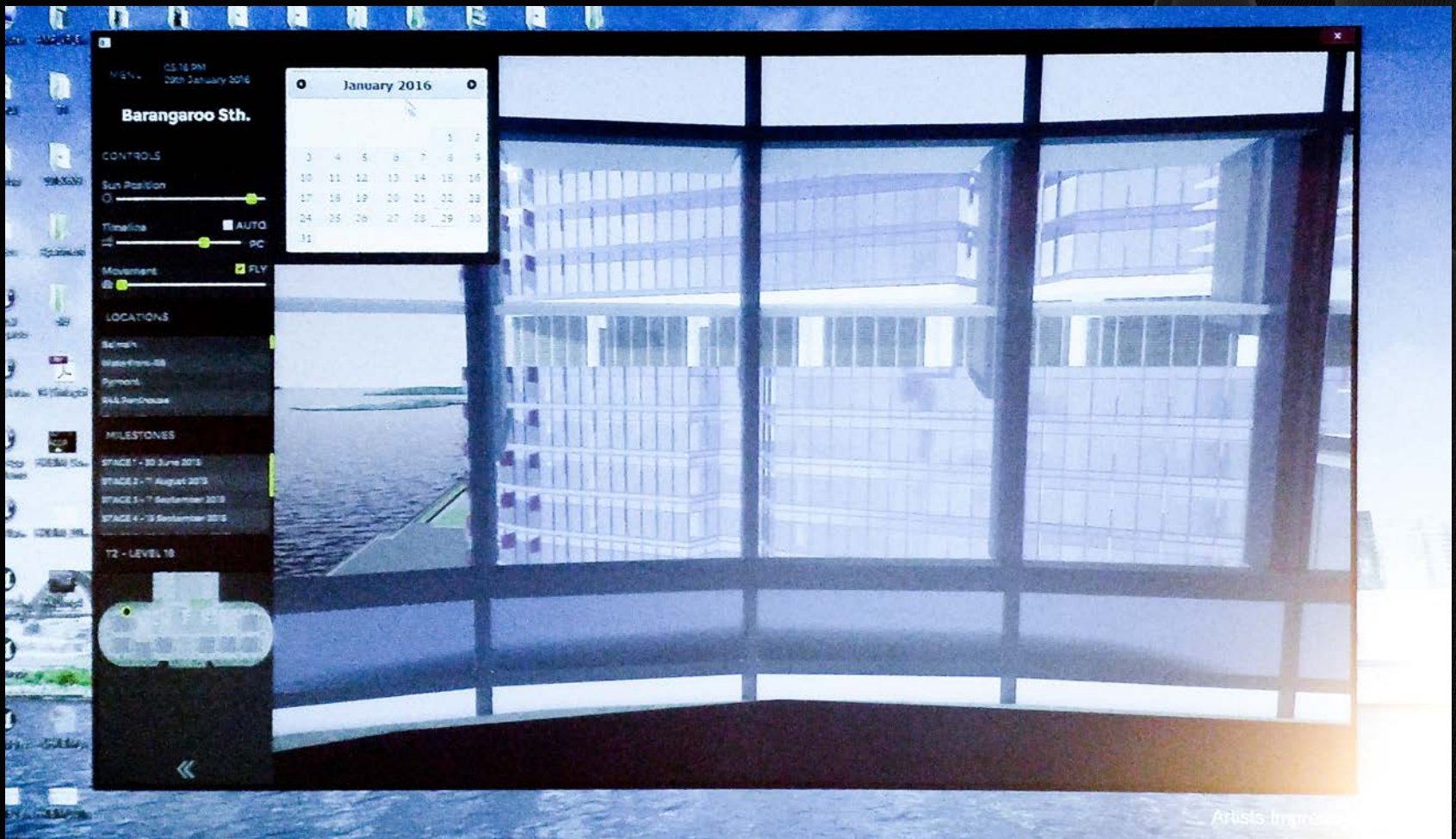




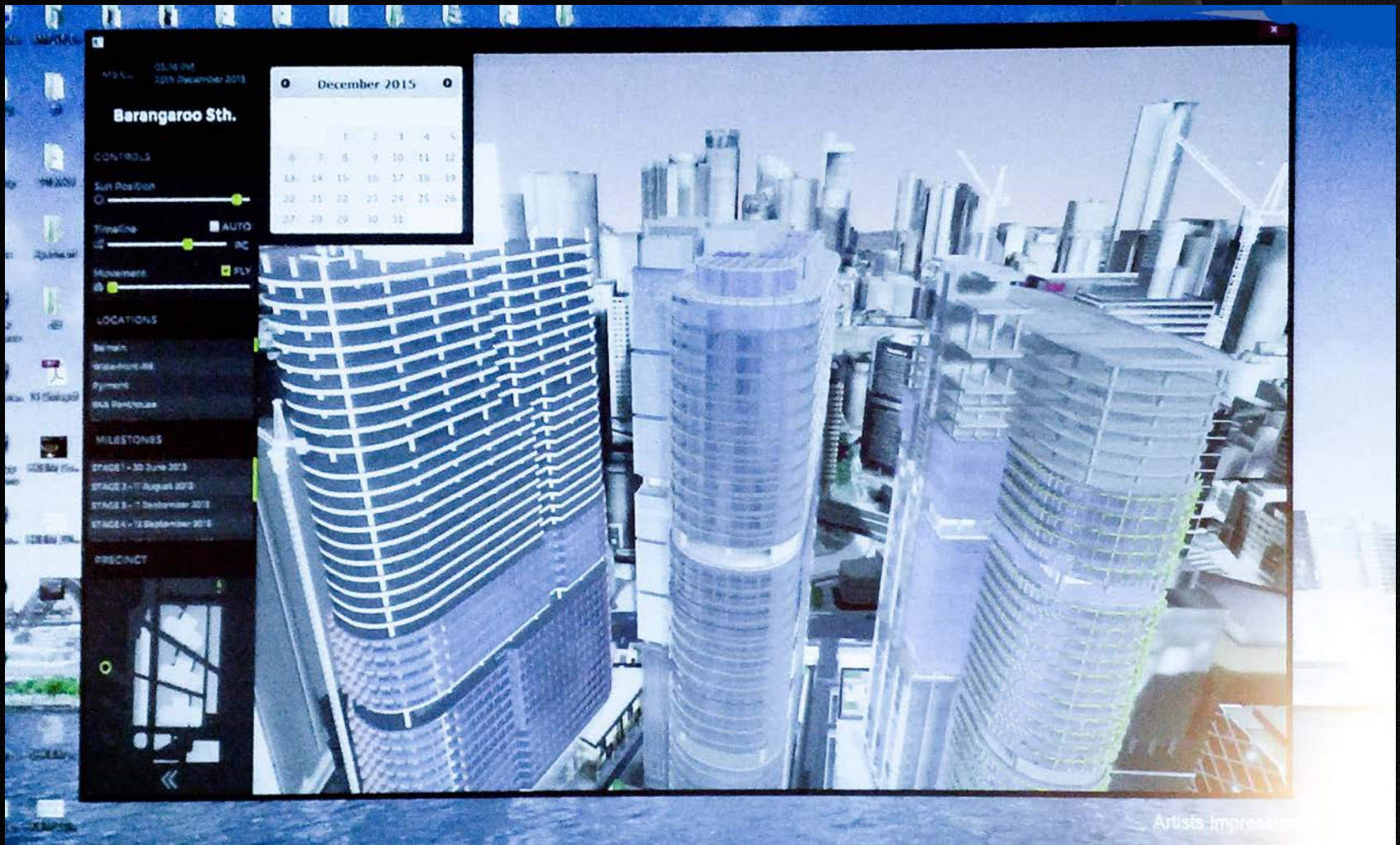


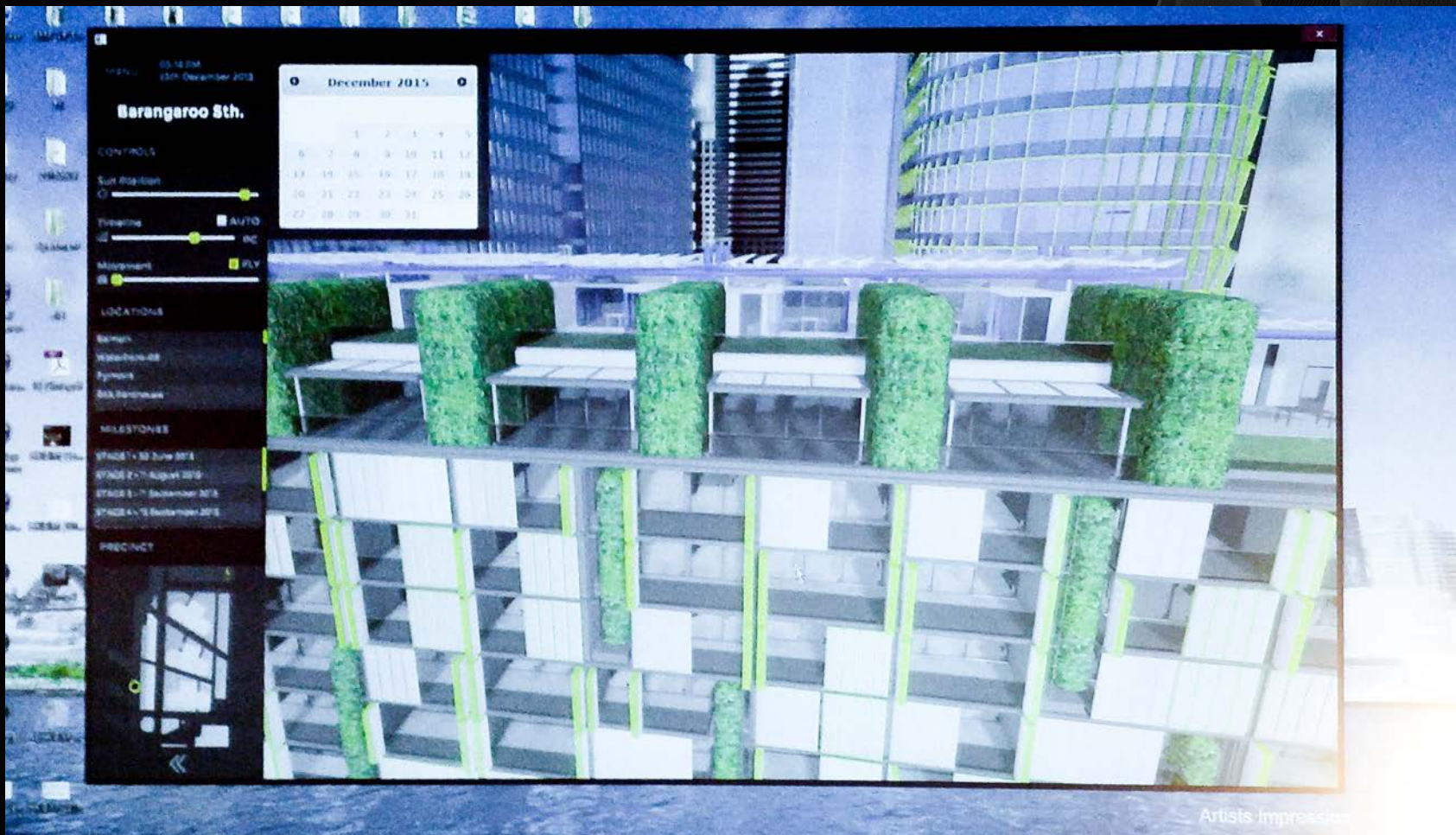


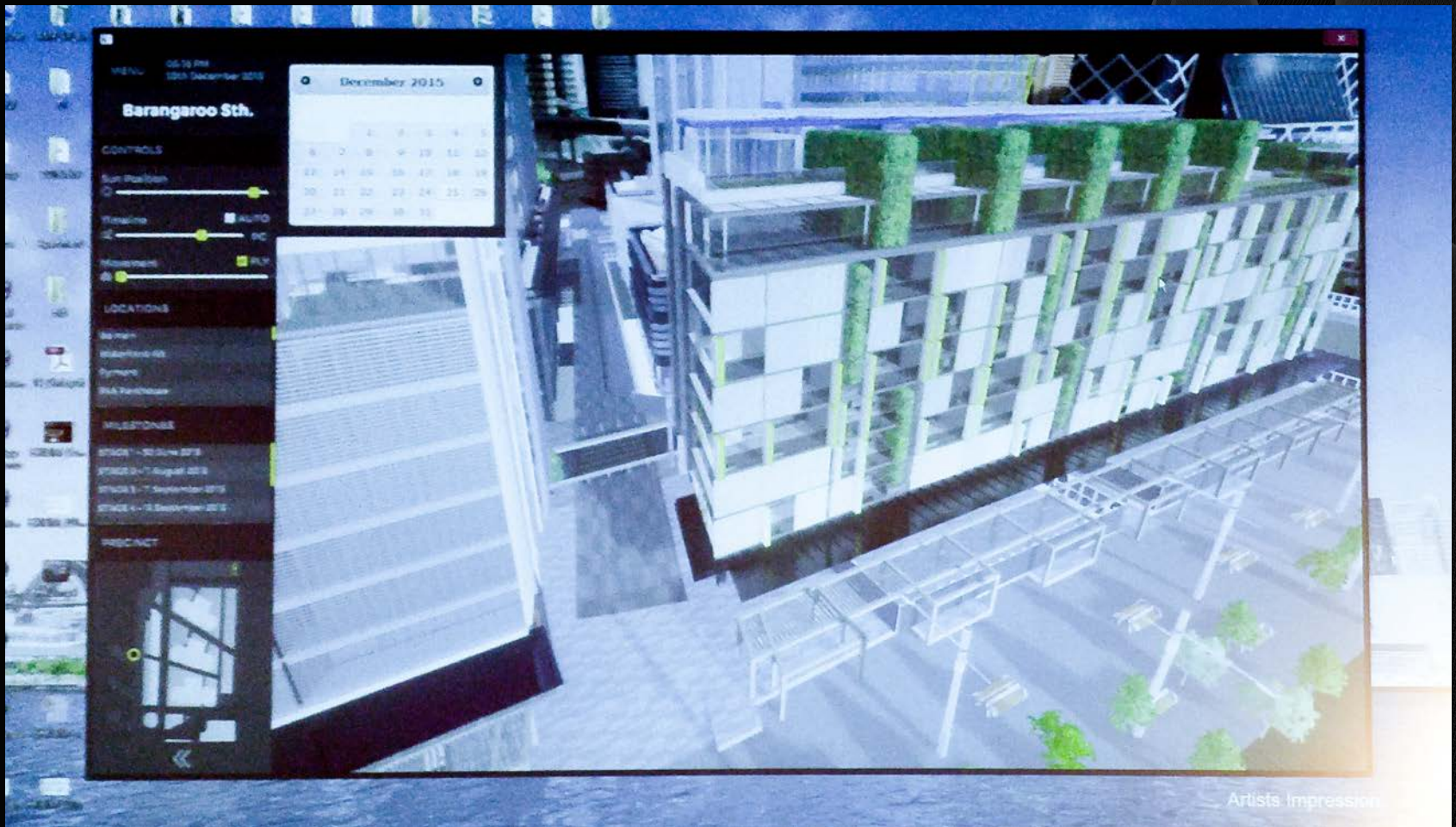


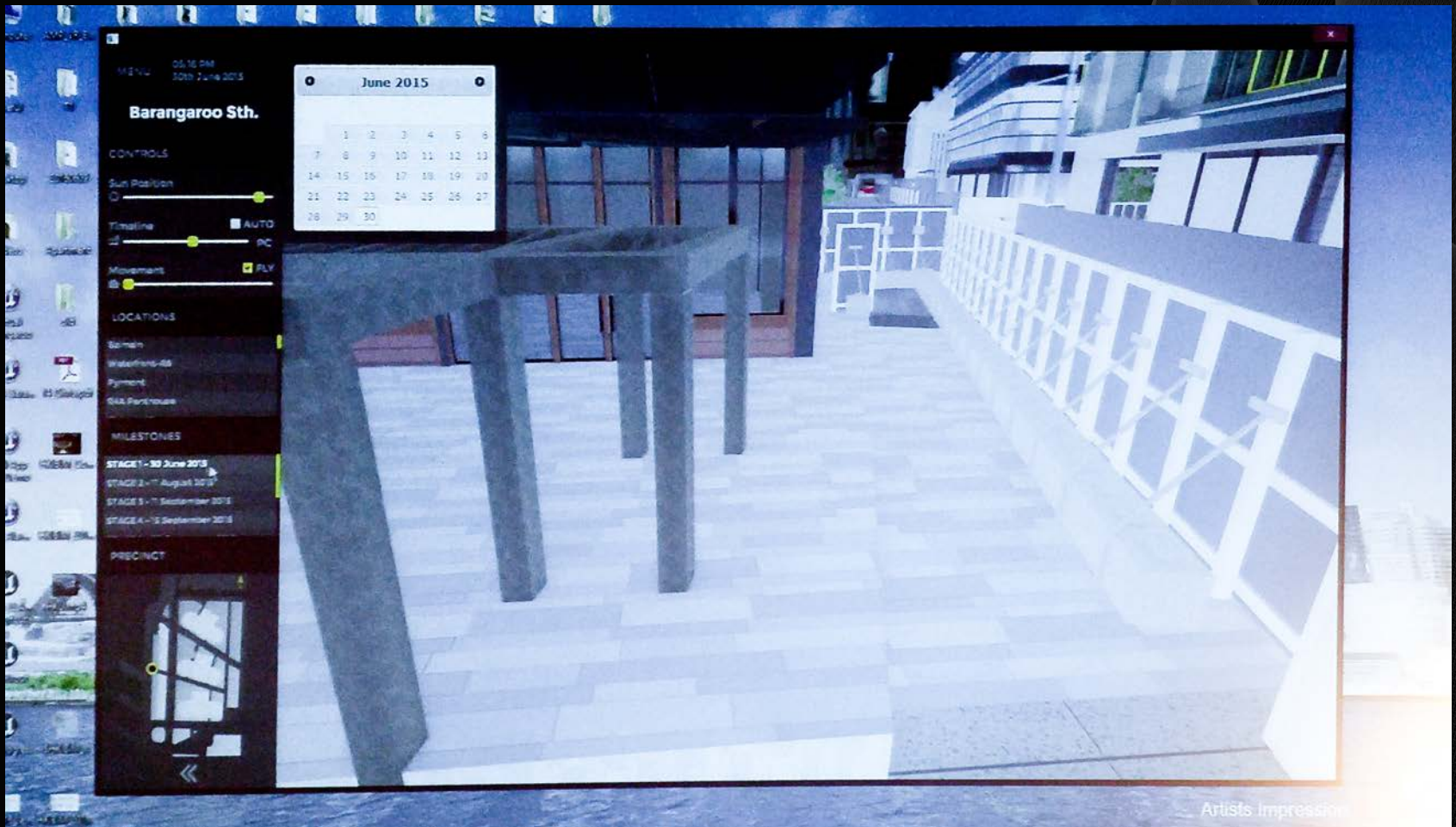


Artists Impression



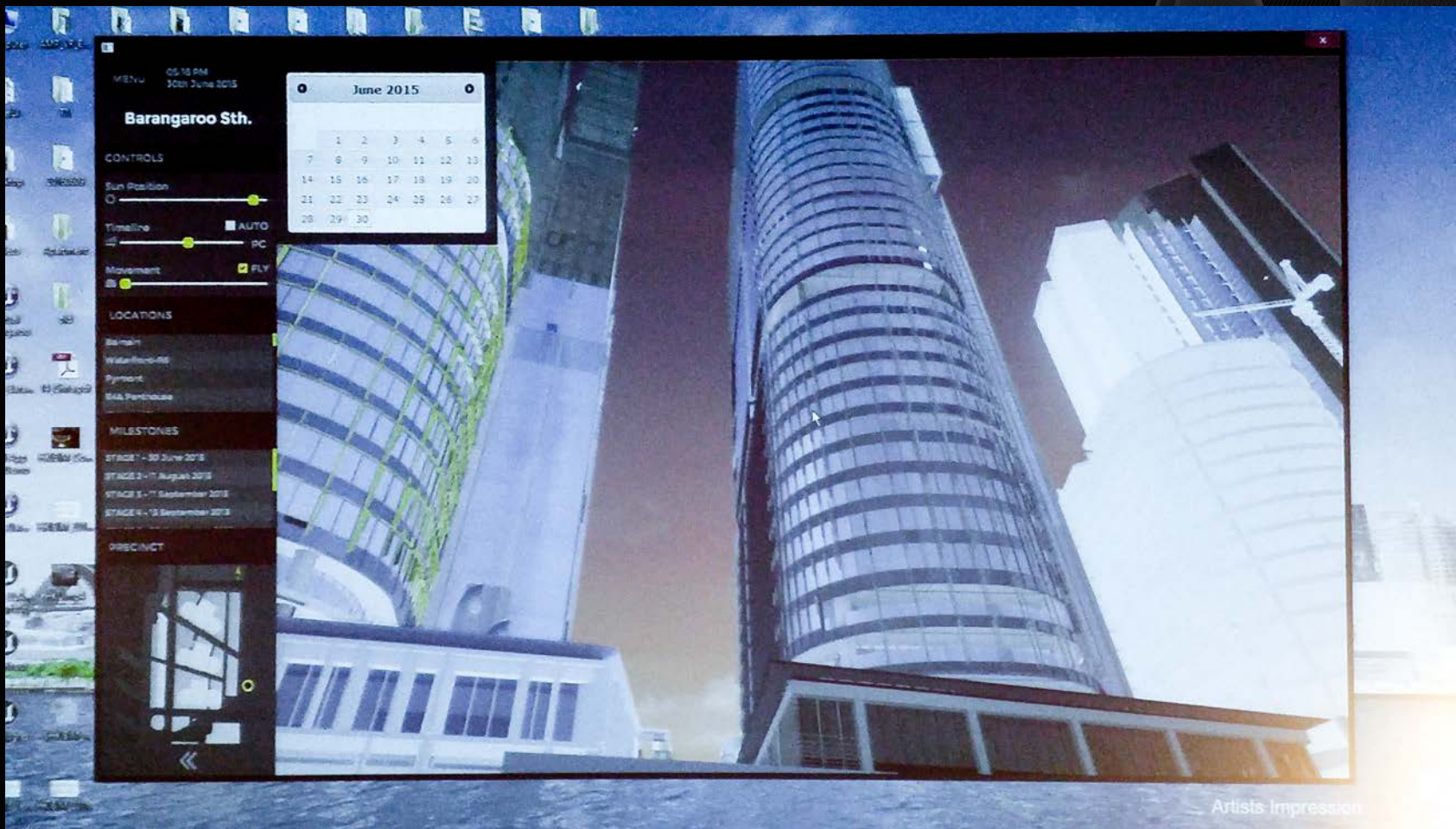


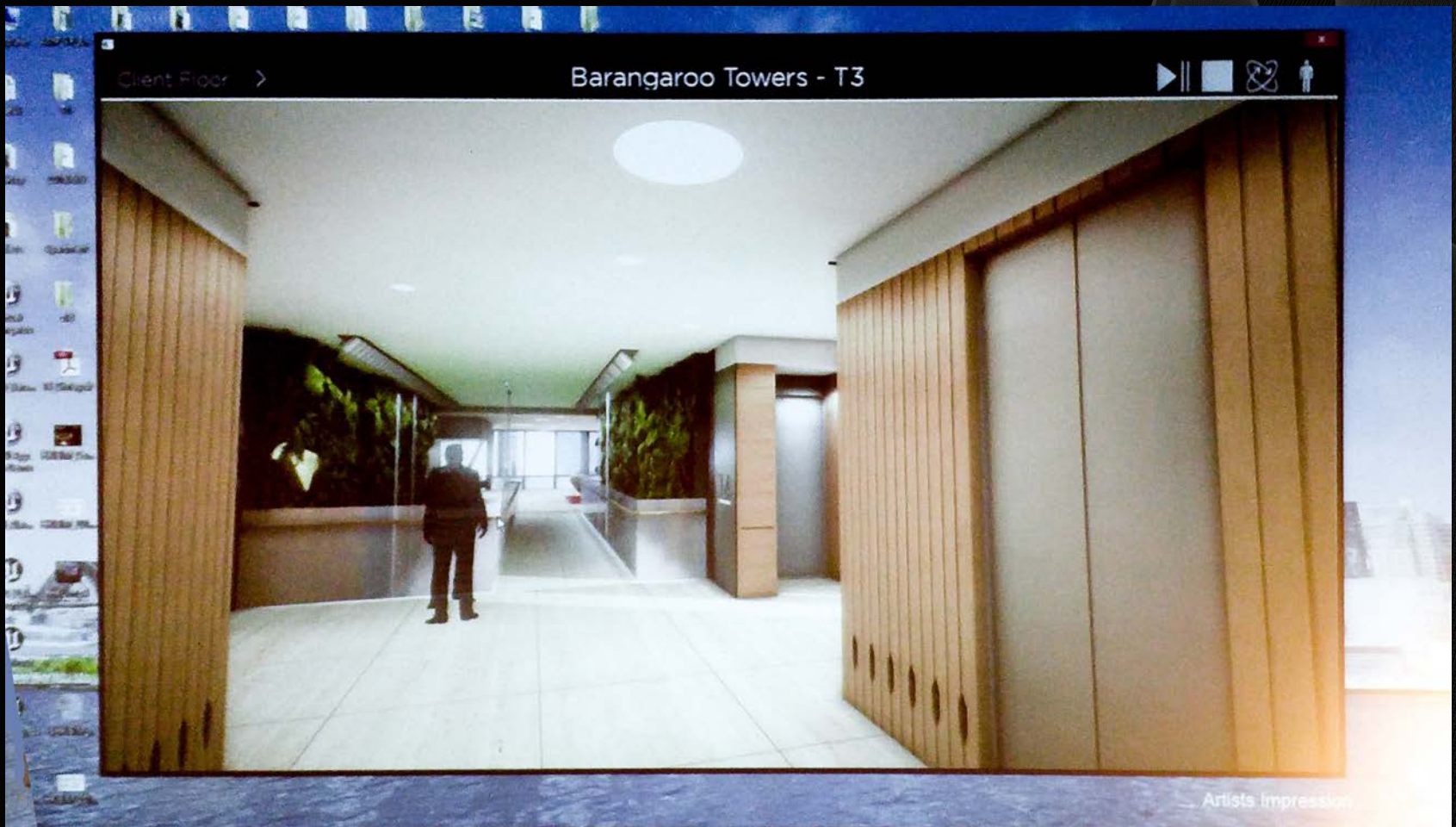






Artists Impression













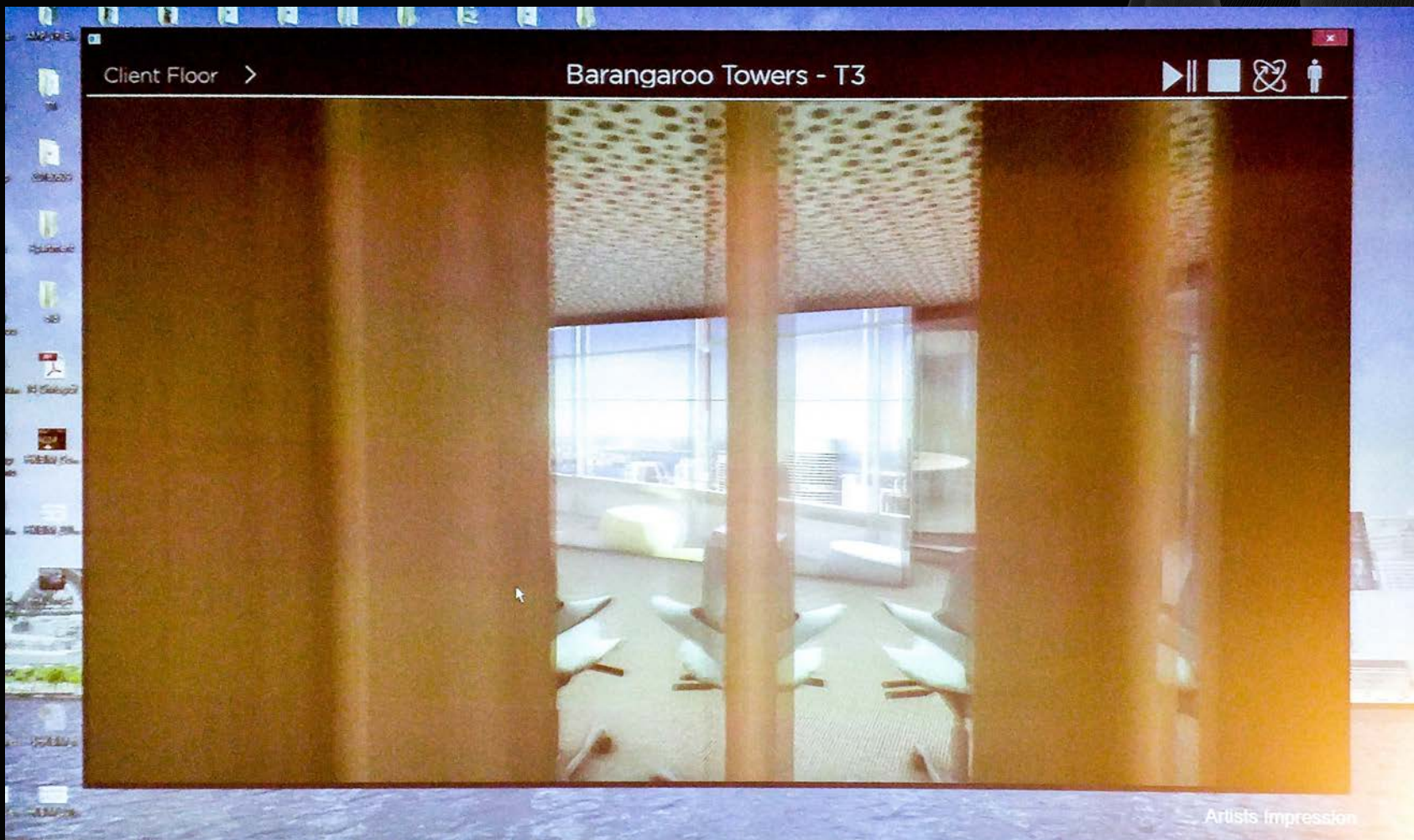




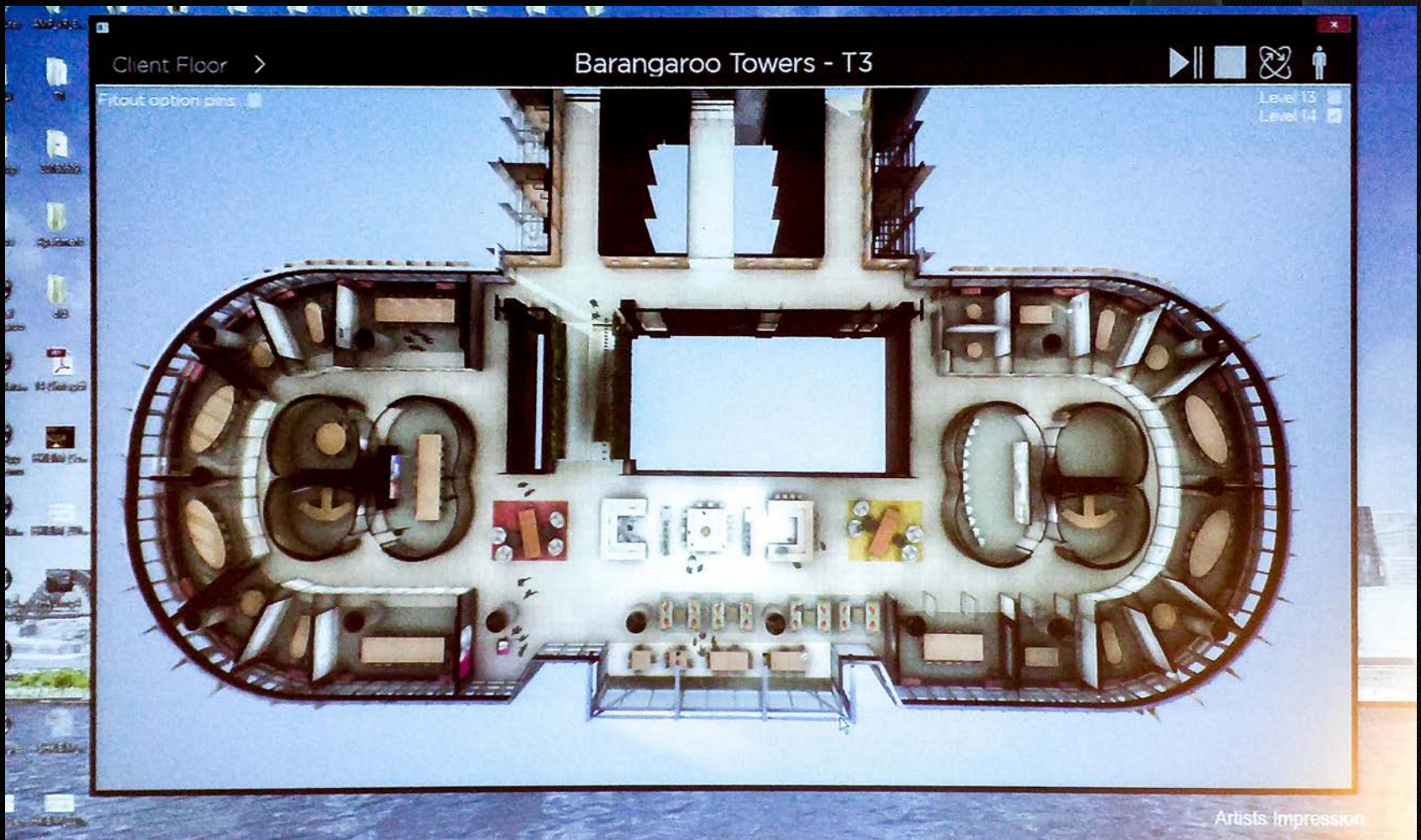




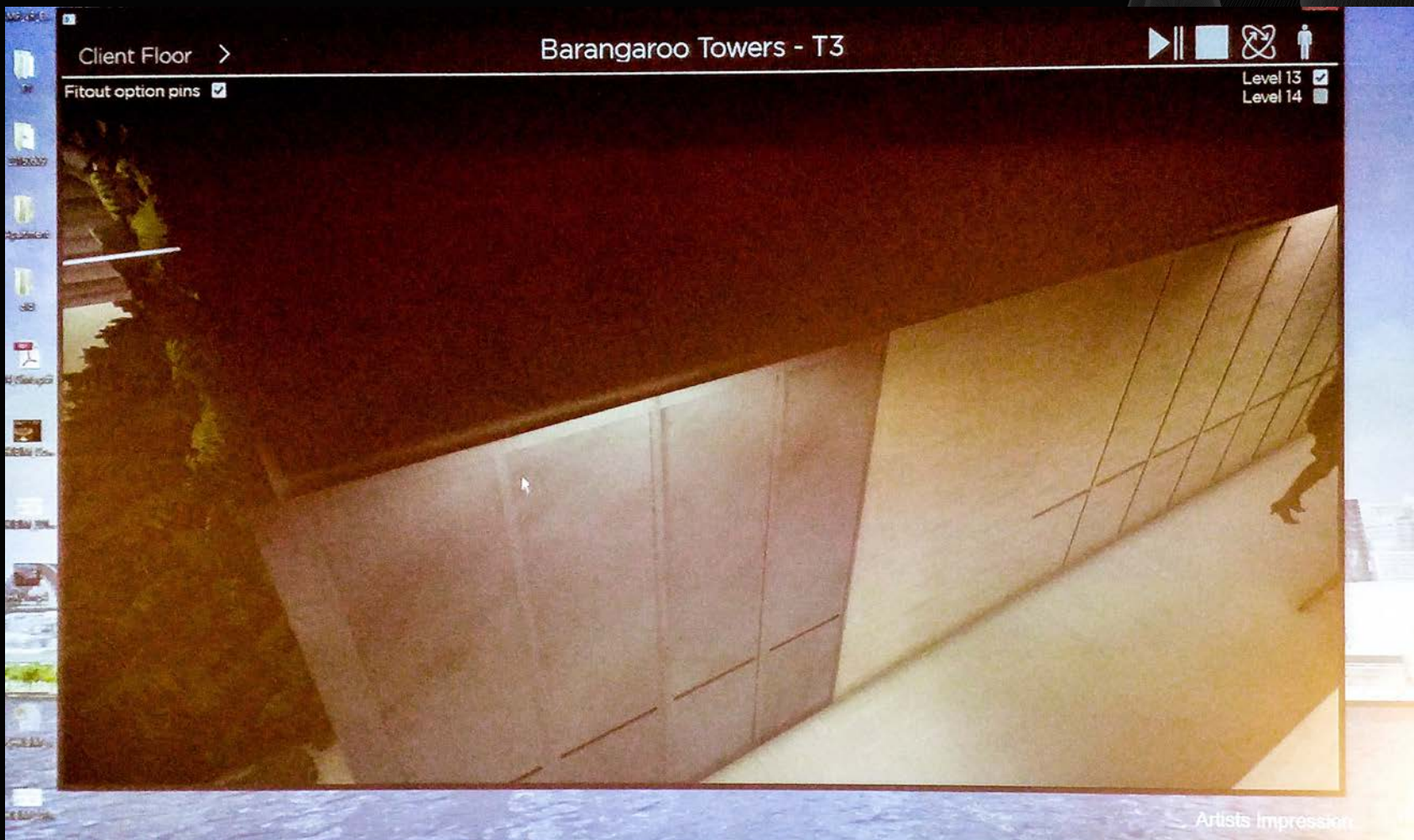




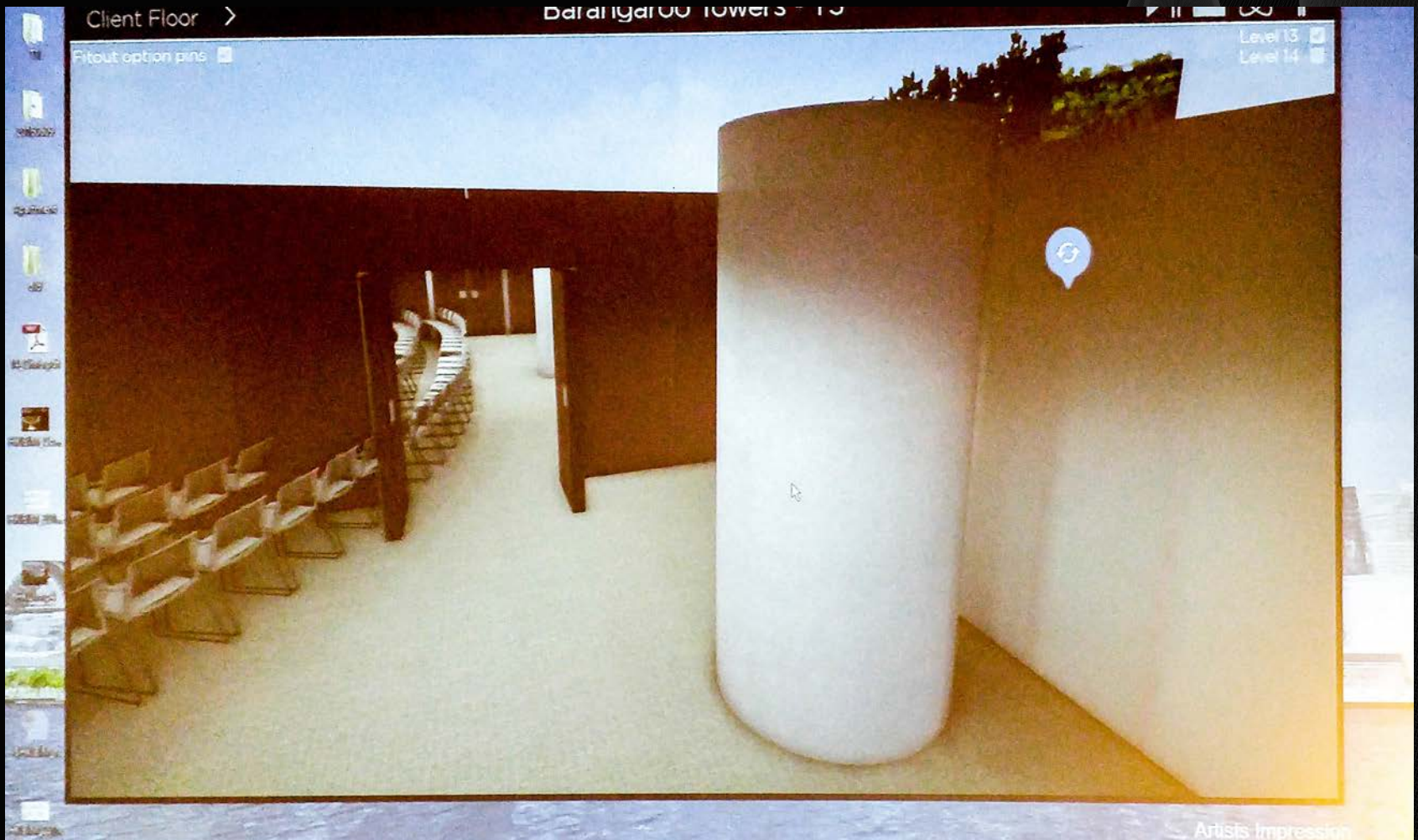








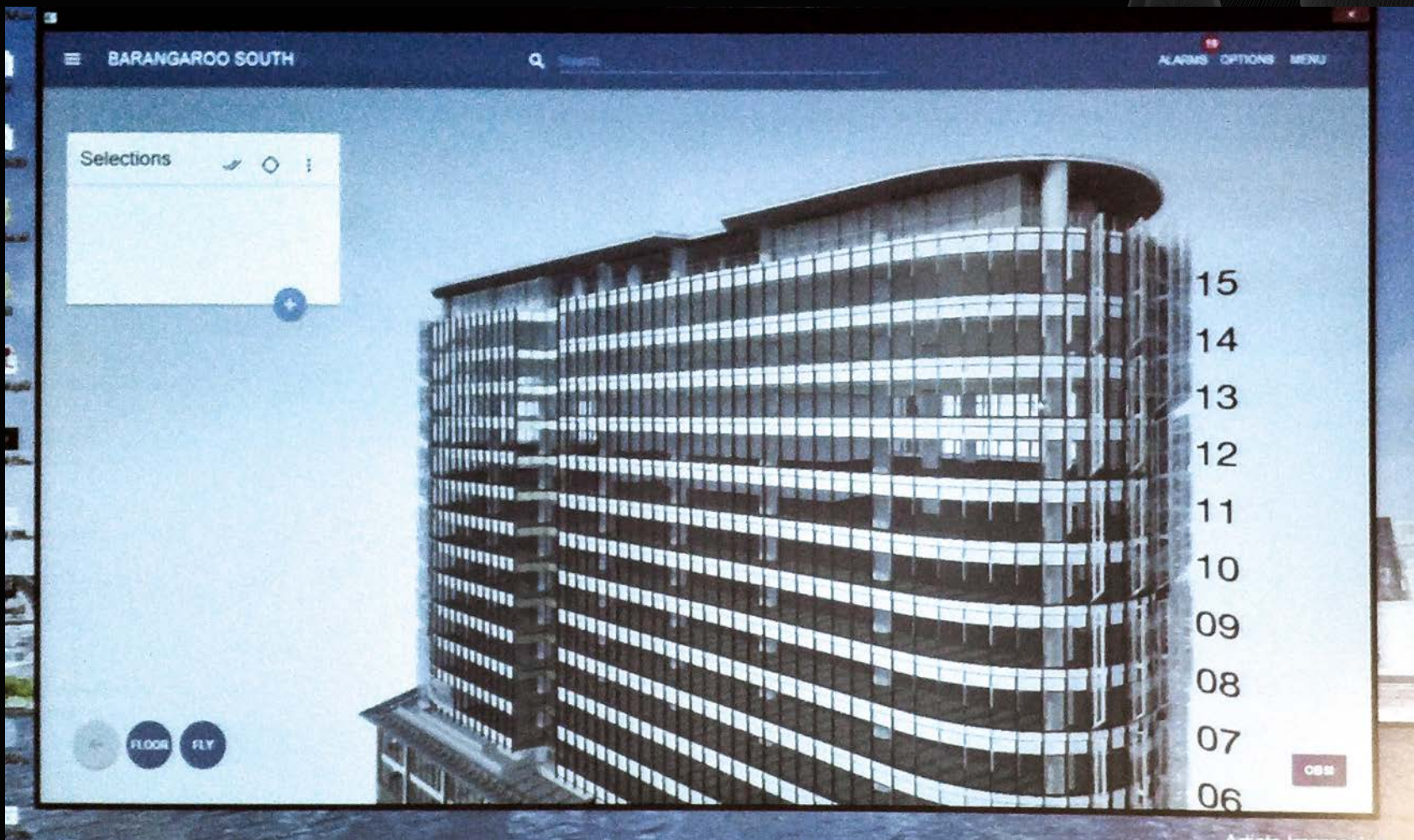






Artists' Impression





Selections



FLOOR

FLY

15

OpenFireStairs 0:2
OpenServiceCupboards 0:3
OpenTerraceDoors 1:14
MotorsOffline 0:9
Active Lighting Zones 25
Average Zone CO2 399.85
Average Floor Humidity 36.17

14

OpenFireStairs 1:2
OpenServiceCupboards 0:3
OpenTerraceDoors 1:12
MotorsOffline 0:10
Open Temperatures Within Range percentage
Min Zone CO2 3.74
Average Zone CO2 629.55

13

OpenTerraceDoors 0:33
OpenServiceCupboards 0:3
OpenFireStairs 0:2
MotorsOffline 1:10
Open Temperatures Within Range percentage
Min Zone CO2 5.86
Average Zone CO2 569.11

12

OpenFireStairs 0:2
OpenServiceCupboards 0:3
OpenTerraceDoors 1:12
MotorsOffline 0:10
Open Temperatures Within Range percentage

OBSE

Selections



15

OpenFireStairs 0/0
OpenServiceCupboards 0/0
OpenTerraceDoors 1/14
MetersOffline 0/0
Active Lighting Zones 22
Average Zone CO2 309.85
Average Floor Humidity 36.17

14

OpenFireStairs 1/2
OpenServiceCupboards 0/0
OpenTerraceDoors 1/12
MetersOffline 0/10
Room Temperature Within Range percentage
Min Zone CO2 3.74
Average Zone CO2 609.35

13

OpenTerraceDoors 9/33
OpenServiceCupboards 0/0
OpenFireStairs 0/0
MetersOffline 1/10
Room Temperature Within Range percentage
Min Zone CO2 5.86
Average Zone CO2 609.11

12

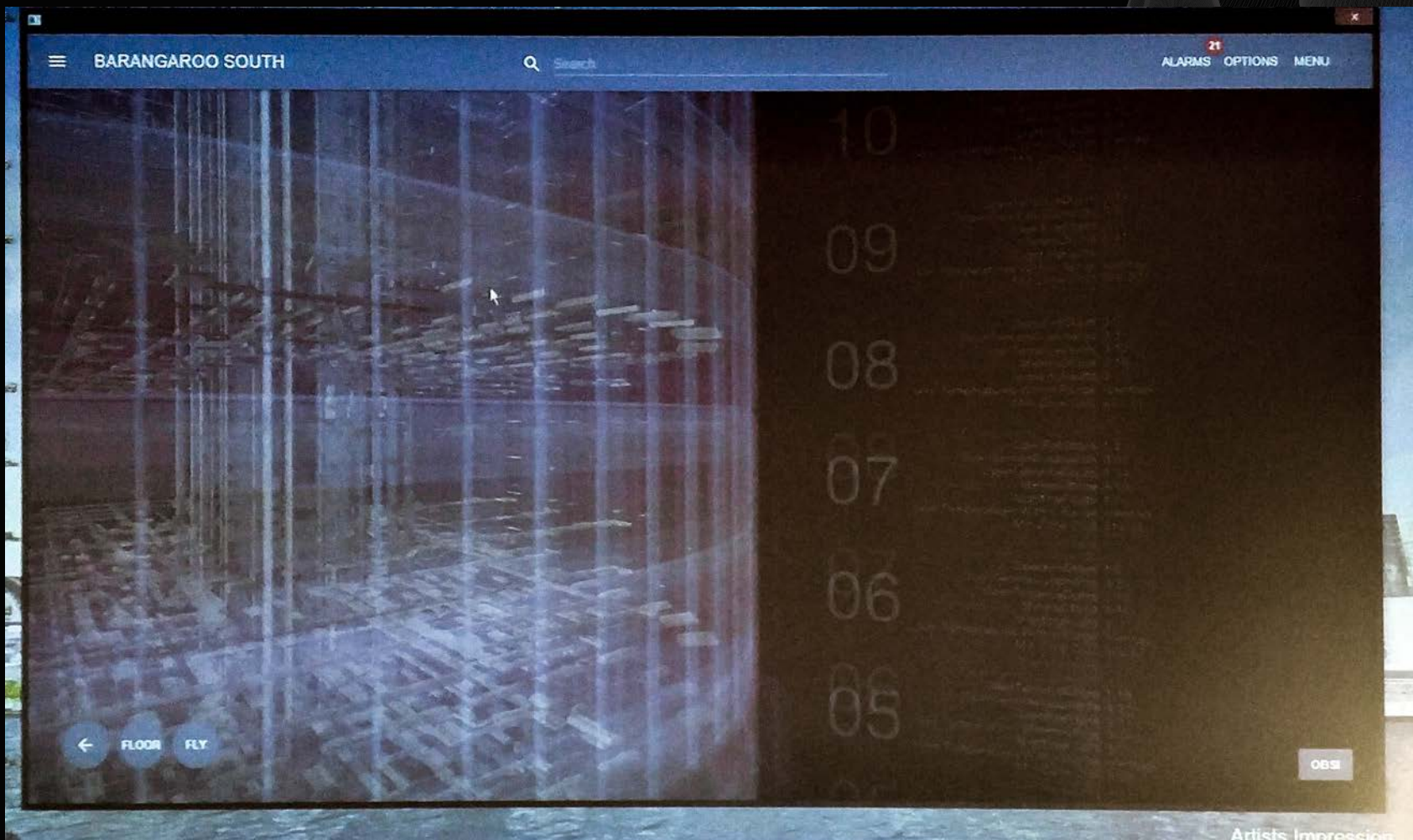
OpenFireStairs 0/2
OpenServiceCupboards 0/0
OpenTerraceDoors 1/12
MetersOffline 0/10
Room Temperature Within Range percentage

OSI



FLOOR

FLY





BARANGAROO SOUTH



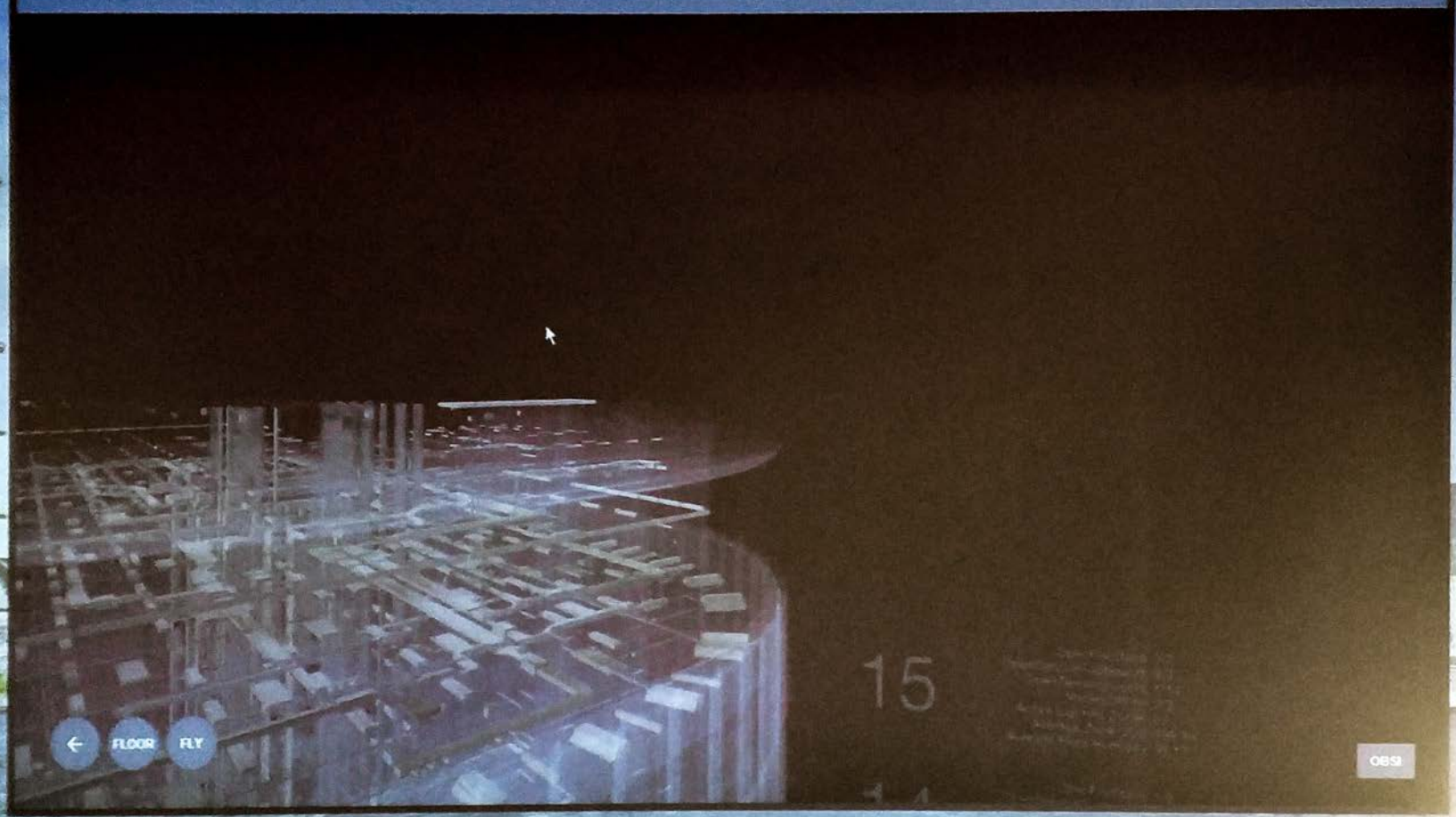
Search

21

ALARMS

OPTIONS

MENU

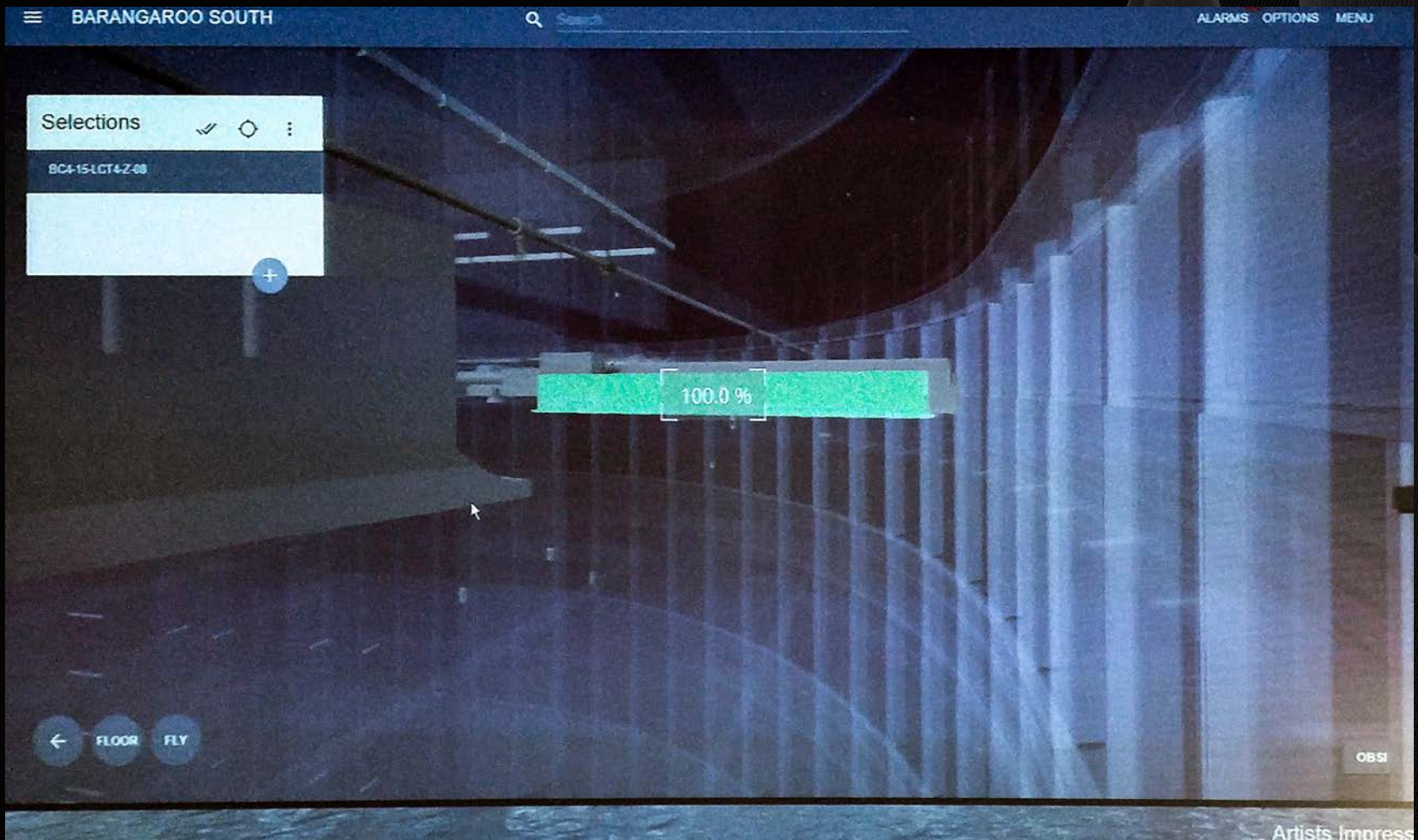


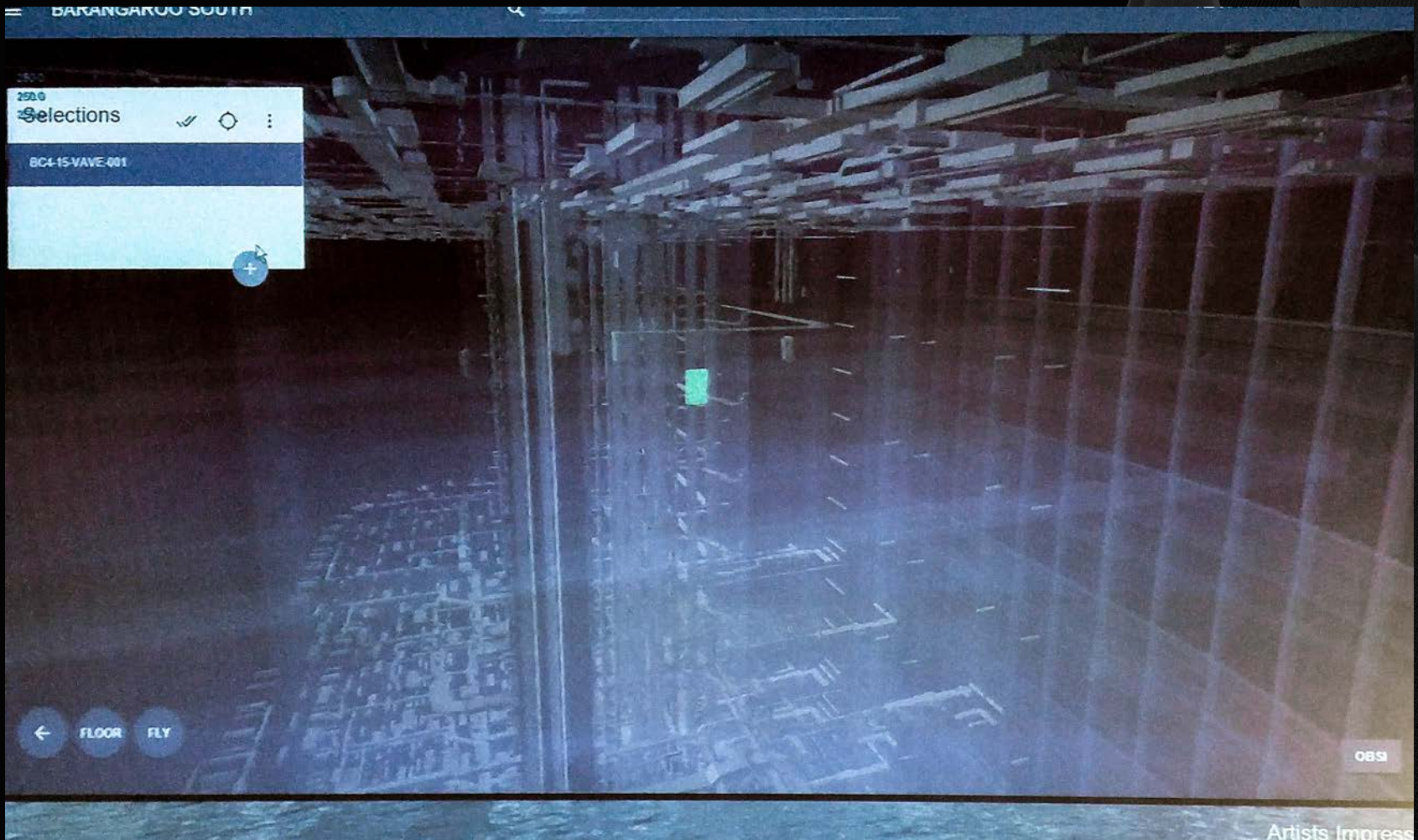
FLOOR

FLY

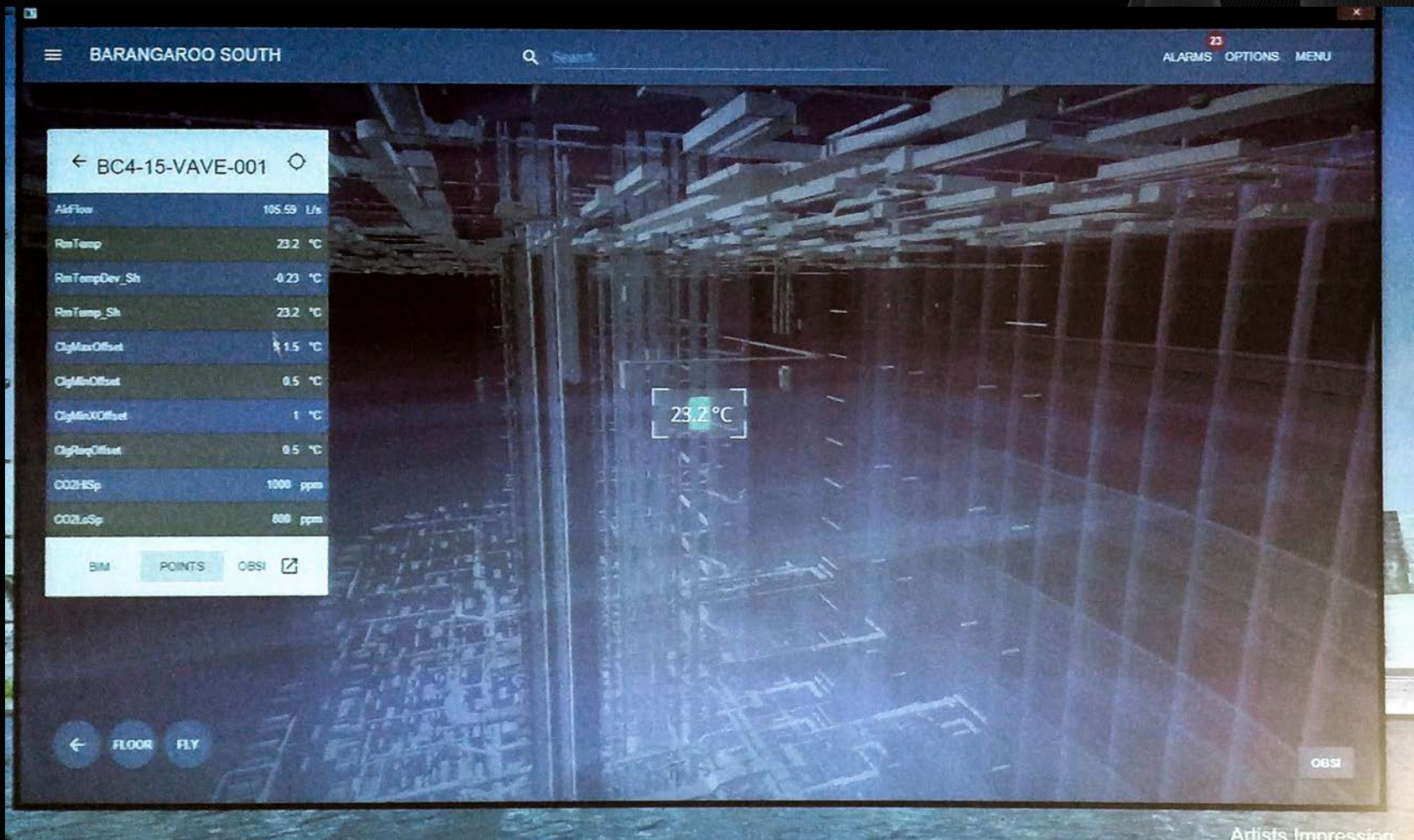
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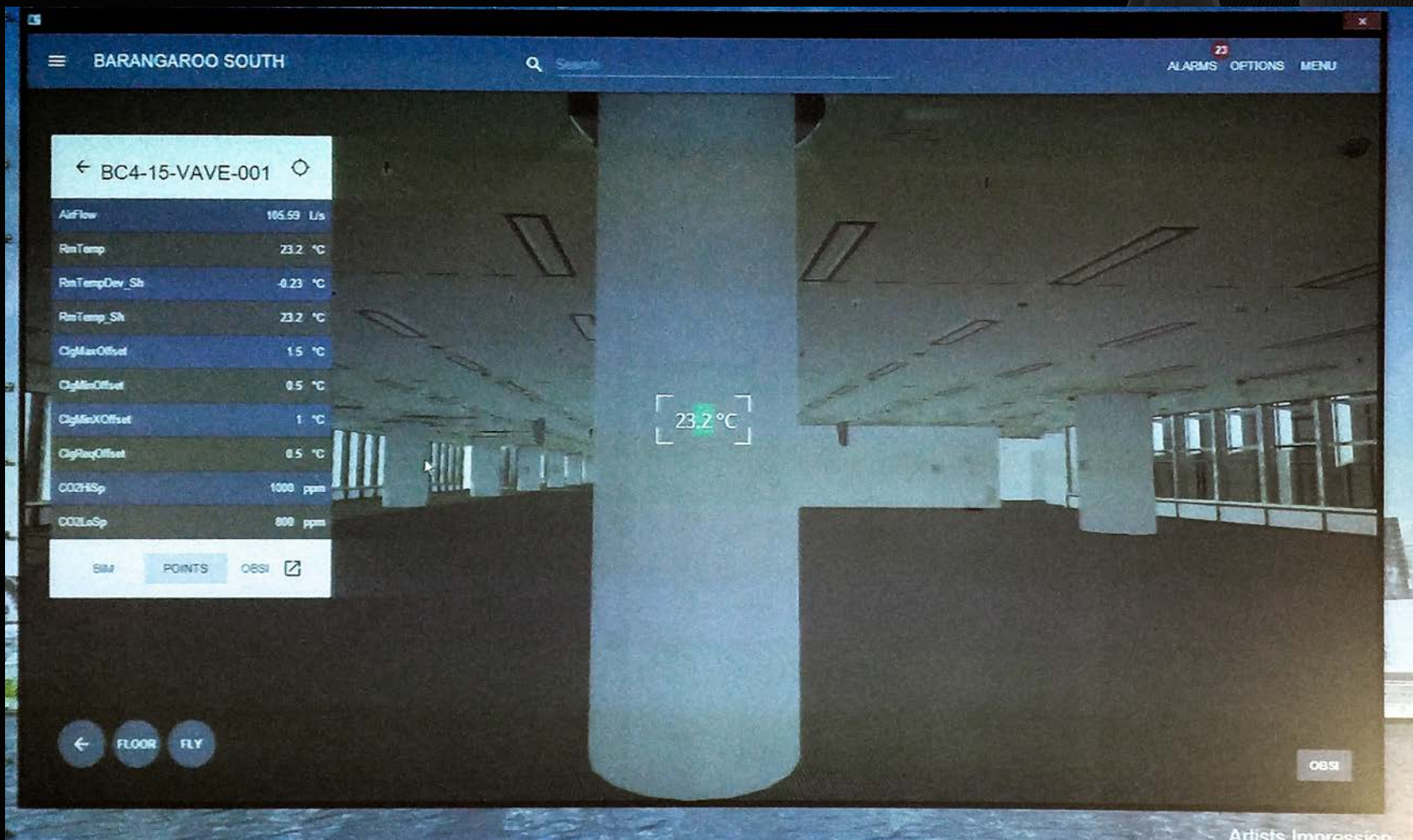
0831













BARANGAROO SOUTH



Search

13

ALARMS OPTIONS MENU

← BC4-15-VAVE-001 ○

AirFlow	105.59 L/s
RmTemp	23.2 °C
RmTempDev_Sh	-0.23 °C
RmTemp_Sh	23.2 °C
ClgMaxOffset	1.5 °C
ClgMinOffset	0.5 °C
ClgMinXOffset	1 °C
ClgRngOffset	0.5 °C
CO2HSp	1000 ppm
CO2LSp	800 ppm

BIM

POINTS

OBSI



FLOOR

FLY

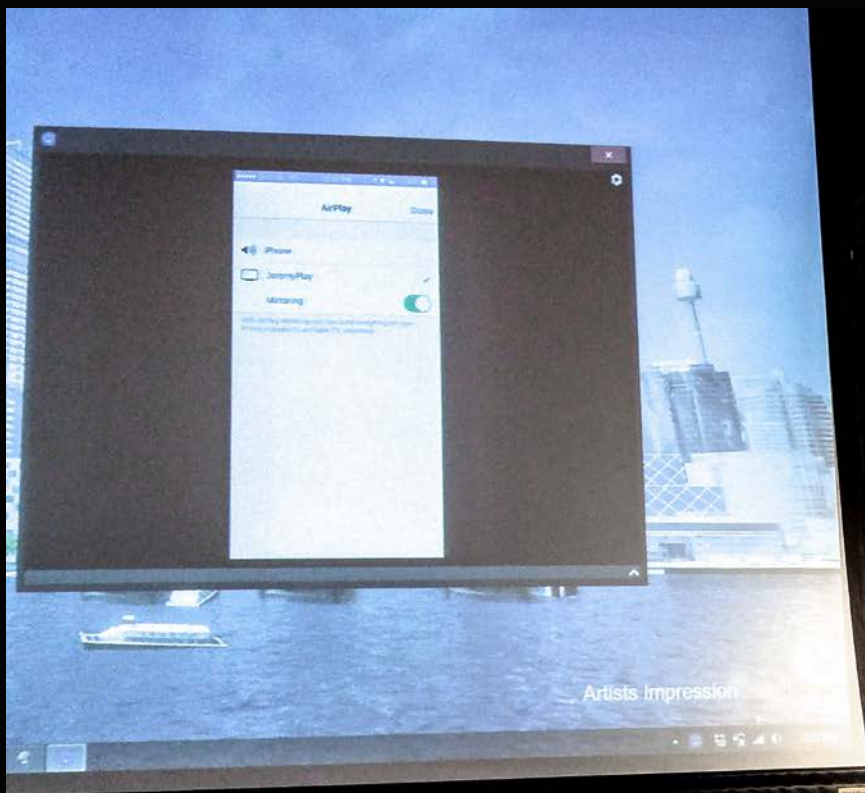
23.2 °C

OBSI

Artists Impression



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HKIBIM Annual Conference 2016

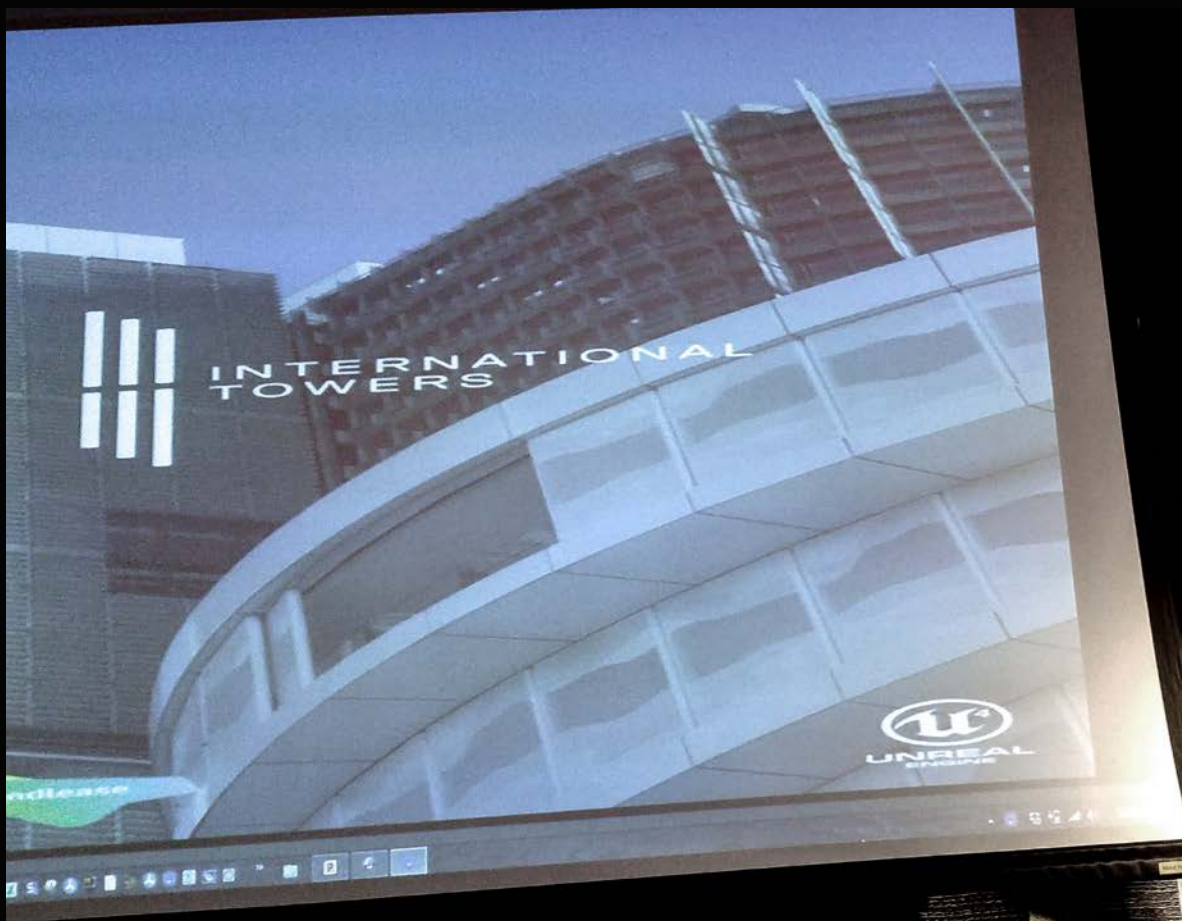
DATE
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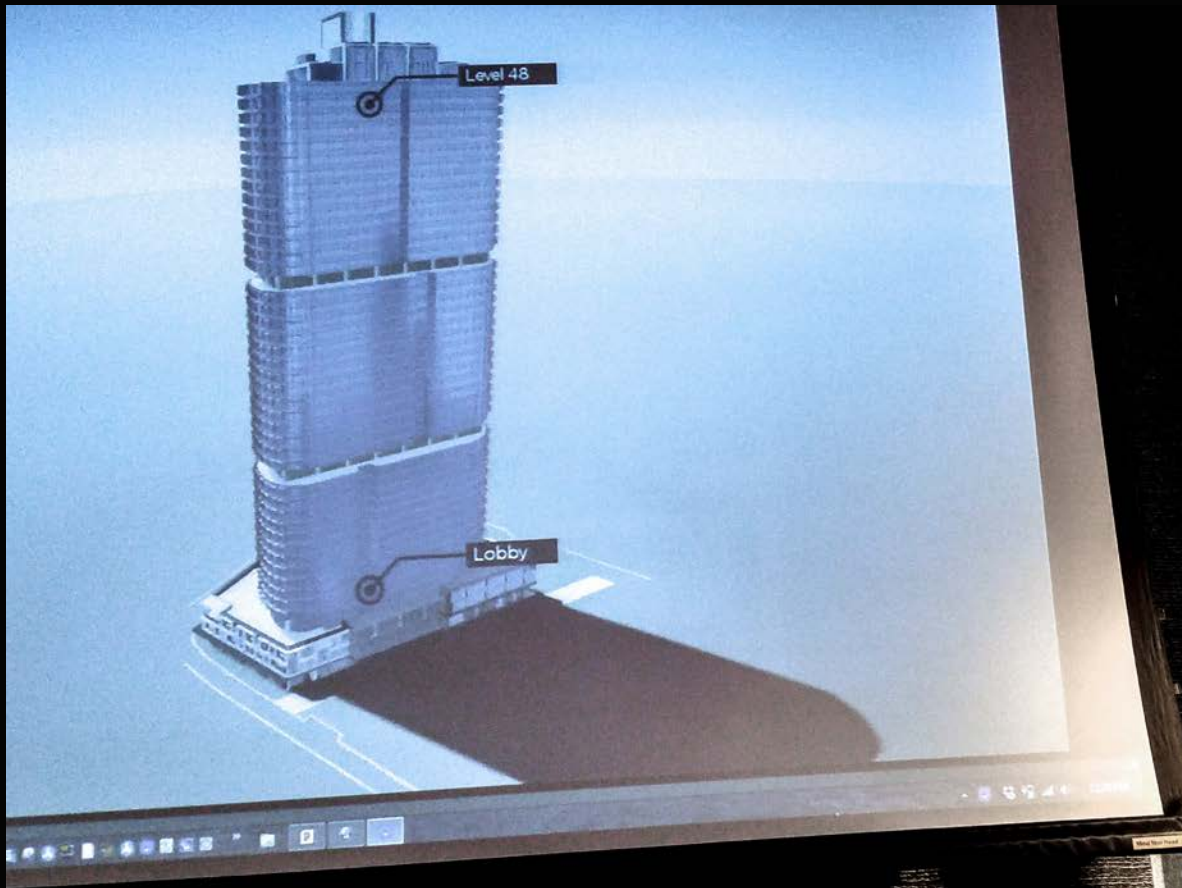
TIME
8:45 a.m. - 5:00 p.m.

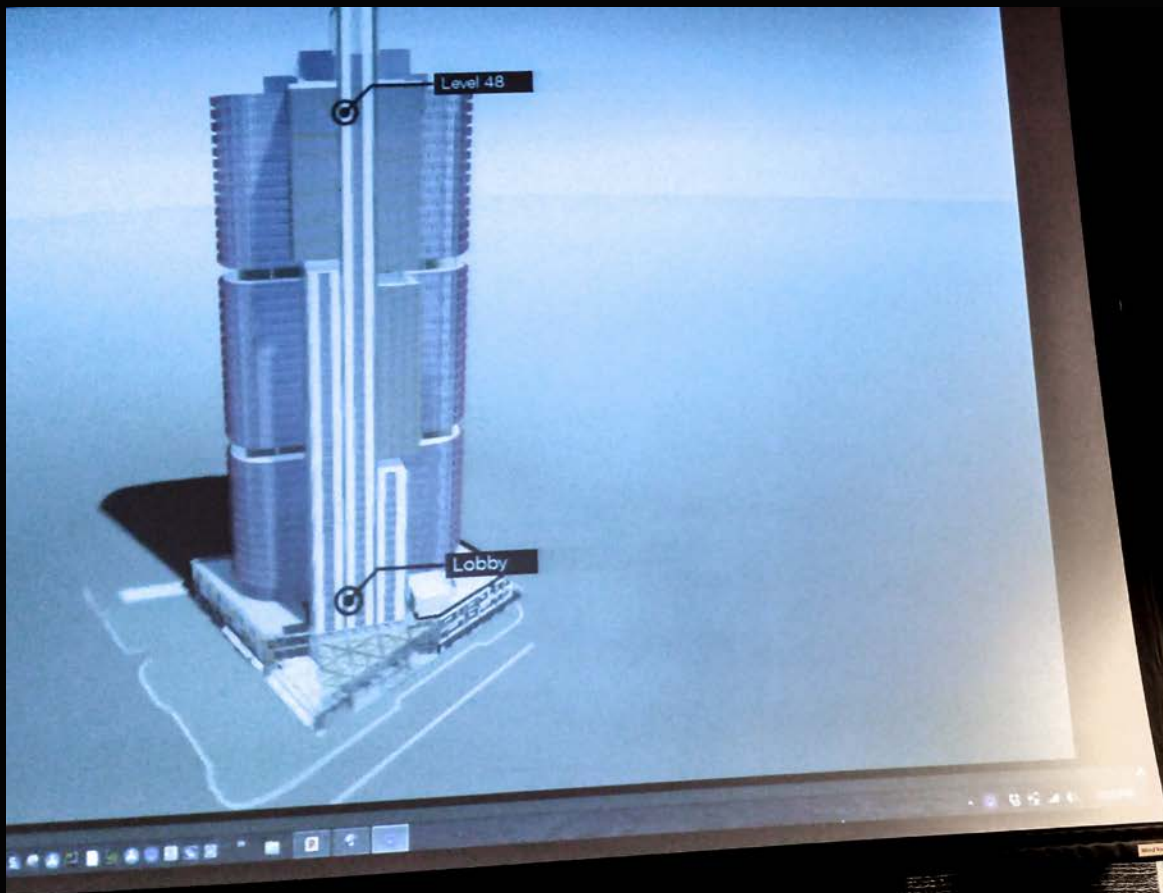
VENUE
Royal Plaza Hotel
Conference - Grand Ballroom, 1
Lunch - La Scala, Level 2

HKIBIM Annual Conference

The Hong Kong Institute of Building Information Technology
香港建築資訊技術學會











HKIBIM
Annual Conference
2016

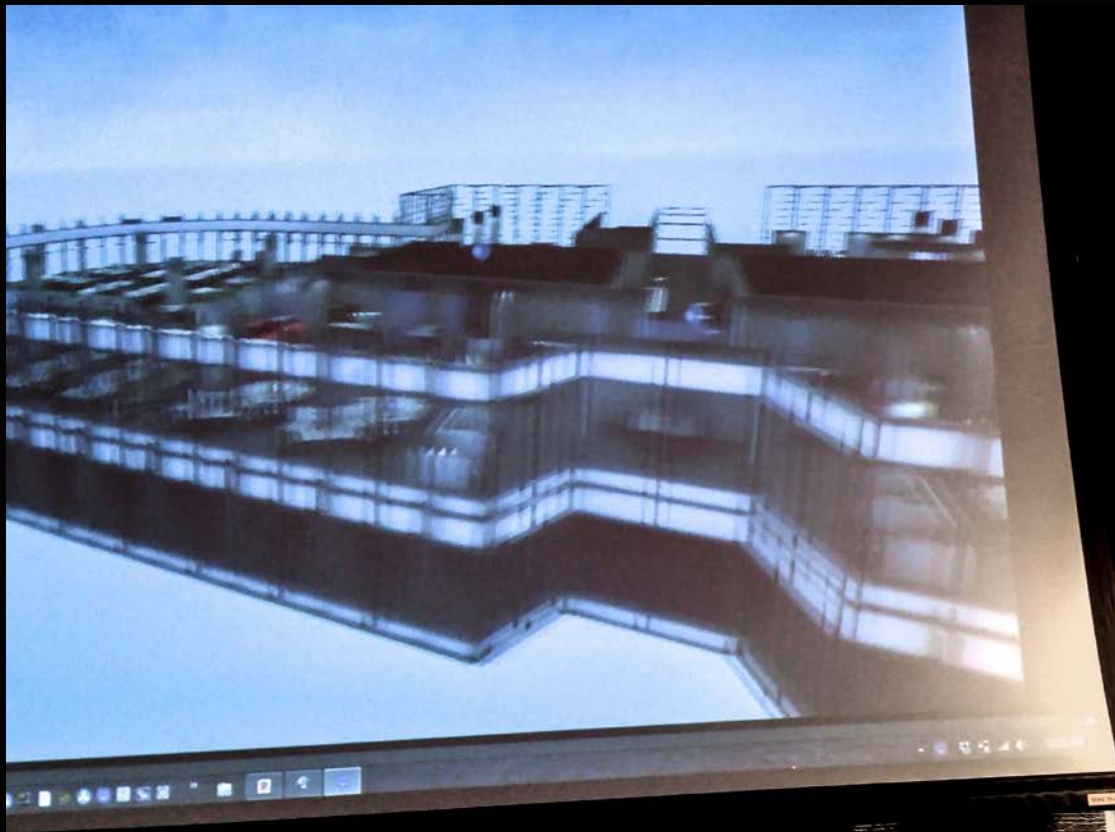
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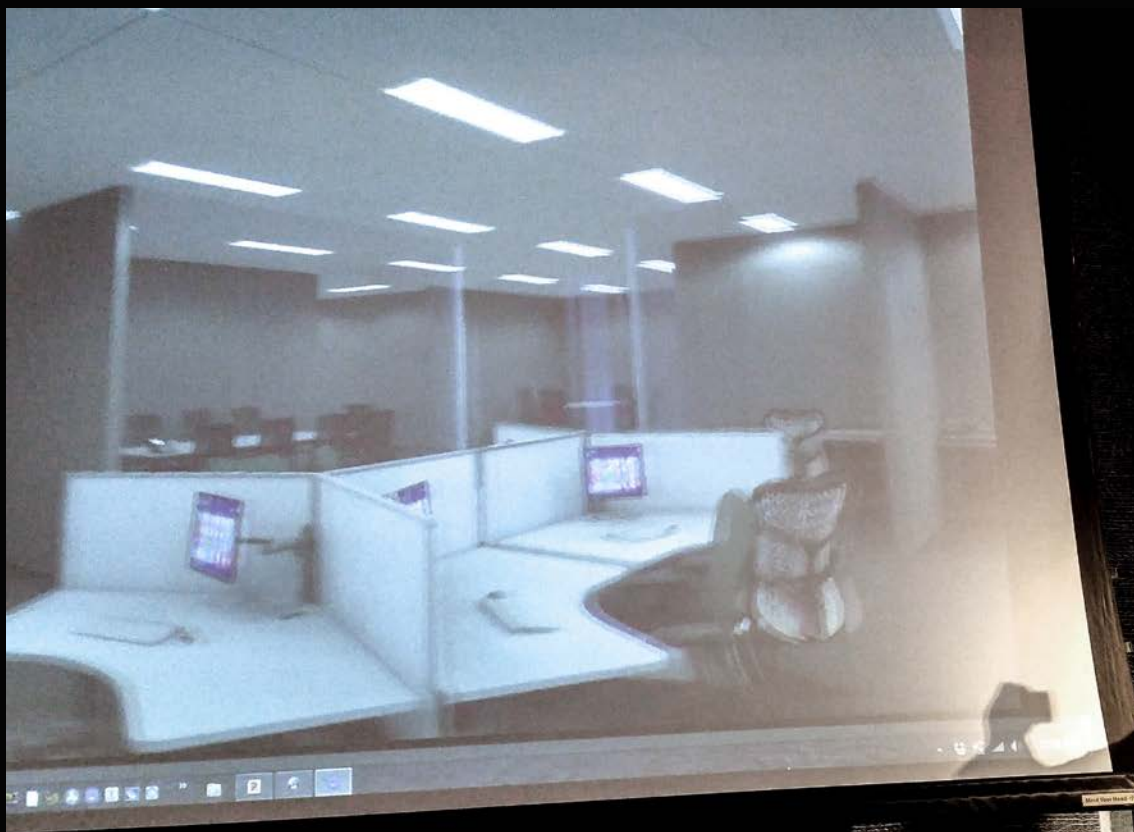
HKIBIM
Annual

The Hong Kong Institute of Building Information Management
香港建築資訊管理學會











HKIBIM
Annual Conference
2016

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Lunch - La Scala, Level 1

HKIBIM
Annual Conference

HKIBIM
Annual Conference



! Thank you !