



APPENDIX 5.6.5

OVERSHADOWING RESULTS

Royal Arsenal Riverside

29 February 2024

GIA No: **19164**

PROJECT DATA:

Client **Berkeley**
Architect **PRP Architects**
Project Title **Royal Arsenal Riverside**
Project Number **19164**

REPORT DATA:

Report Title **Transient Overshadowing Assessment**
GIA Department **Daylight & Sunlight**
Dated **29 February 2024**

Prepared by **KB**
Checked by **GL**
Type **EIA appendix**

Revisions	No:	Date:	Notes:	Signed:

DISCLAIMER:

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SOURCES OF INFORMATION:

Information Received **IR-11-13-19164**
Release Number **Rel_04_19164_DSD**
Issue Number **03**
Site Photos **GIA**
3D models **VU.CITY**
OS Data **FIND Maps**

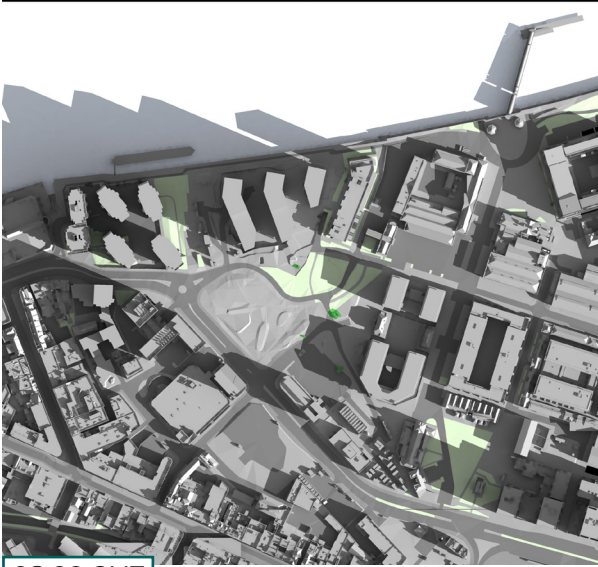


CONTENTS

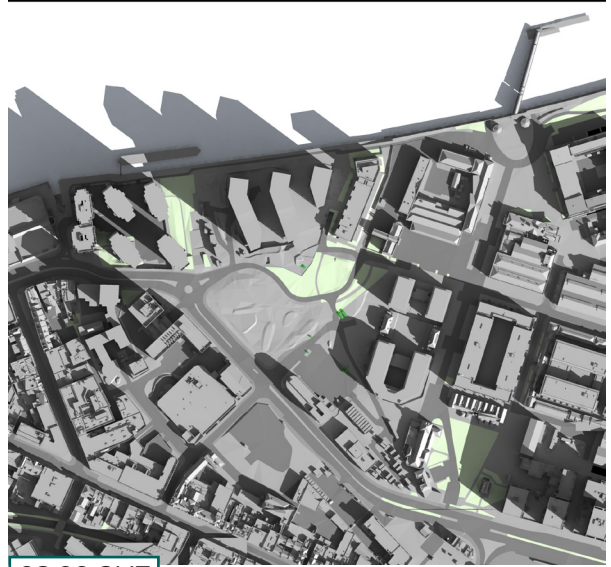
1	TRANSIENT OVERSHADOWING ASSESSMENT	2
1.1	21 st March	2
1.1	21 st June	8
1.1	21 st December	16
2	OVERSHADOWING ASSESSMENTS	20

TRANSIENT OVERSHADOWING ASSESSMENT
21ST MARCH (08:00 - 11:00 GMT)

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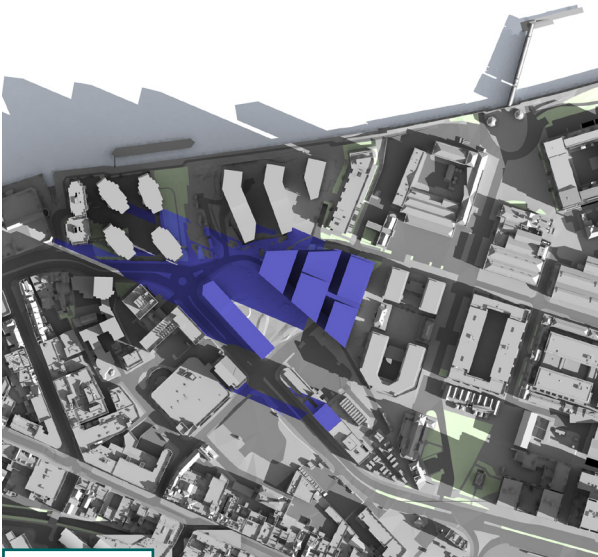


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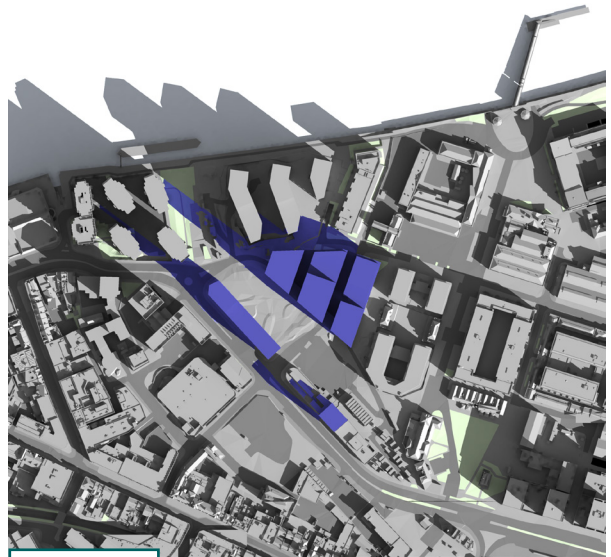


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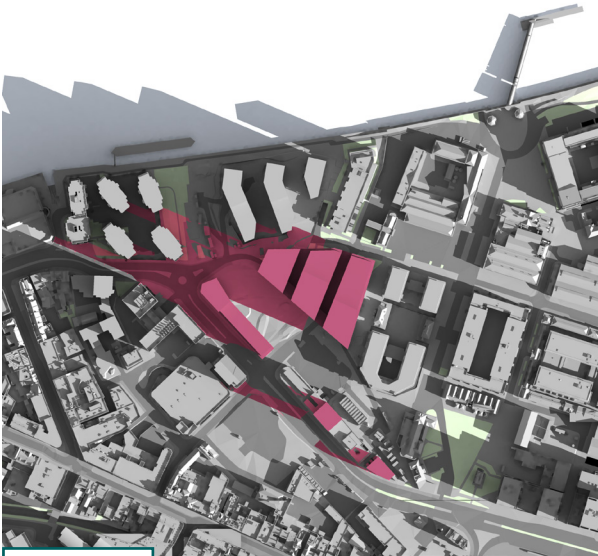


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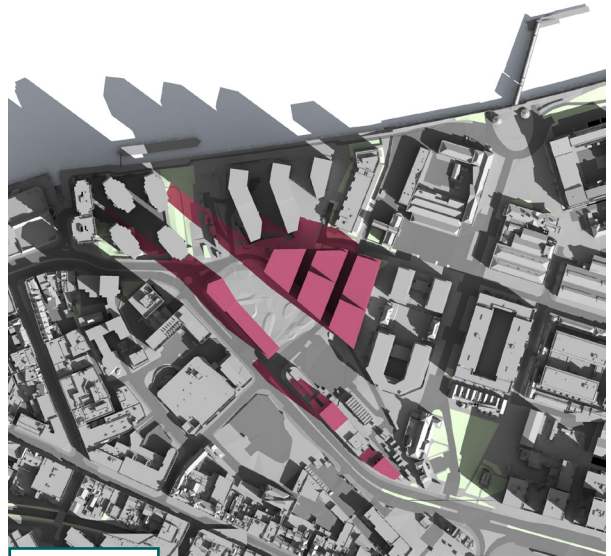


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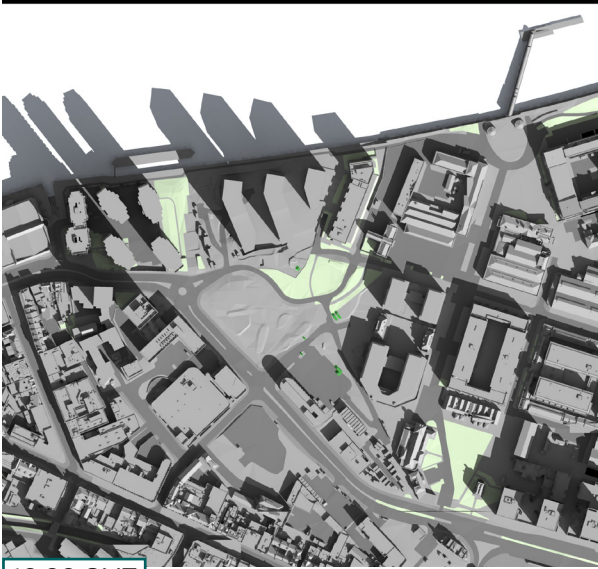


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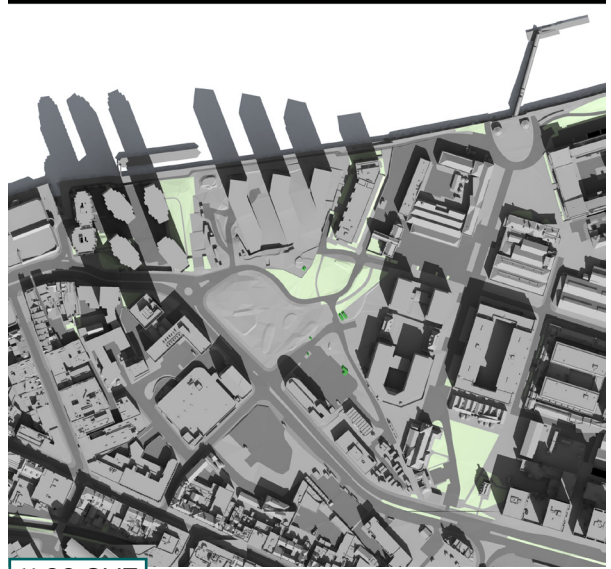


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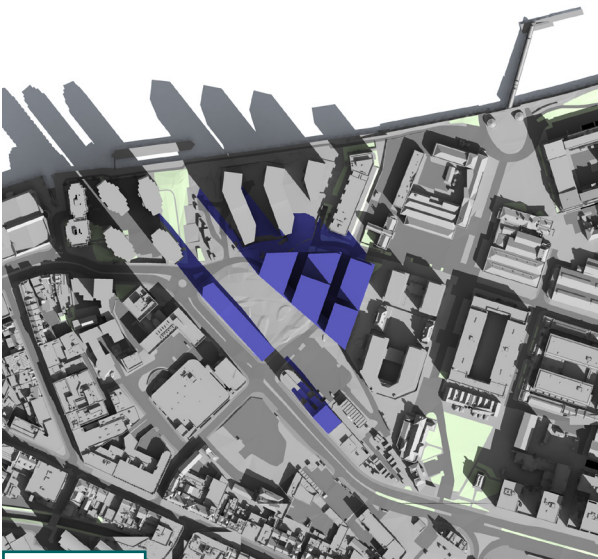


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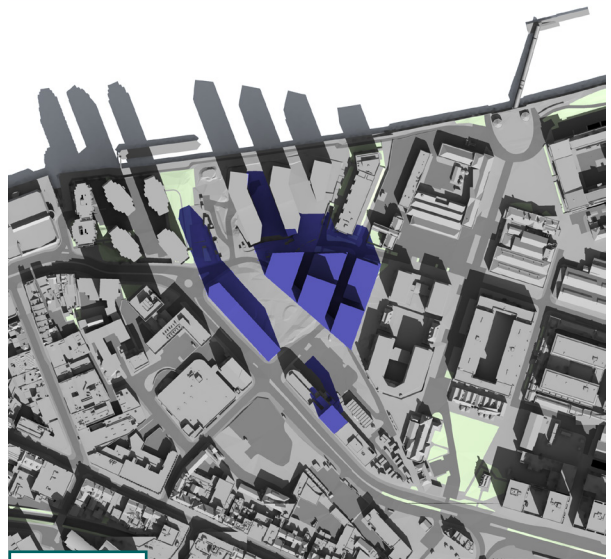


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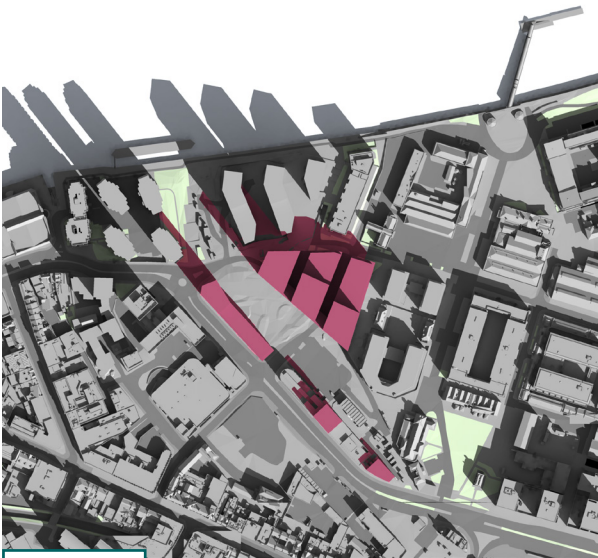


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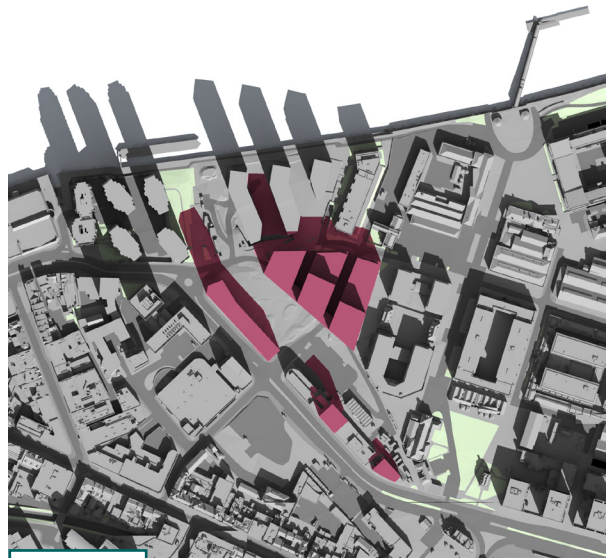


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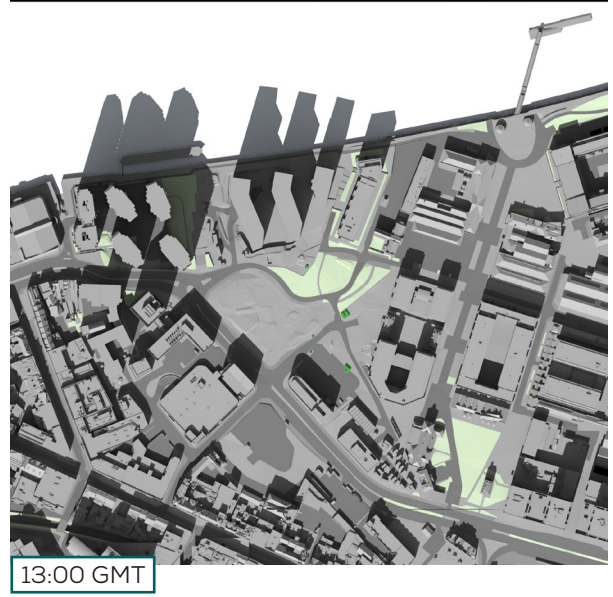
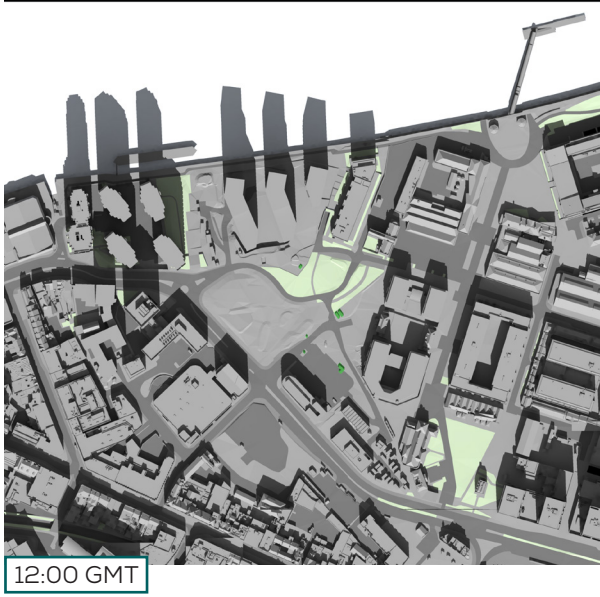
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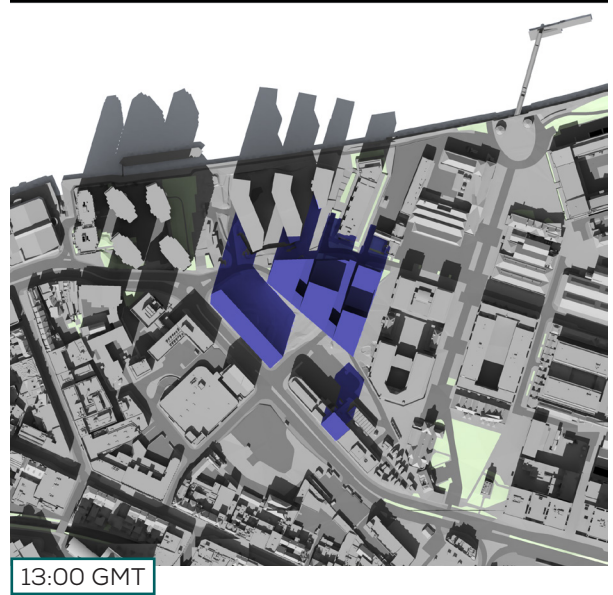
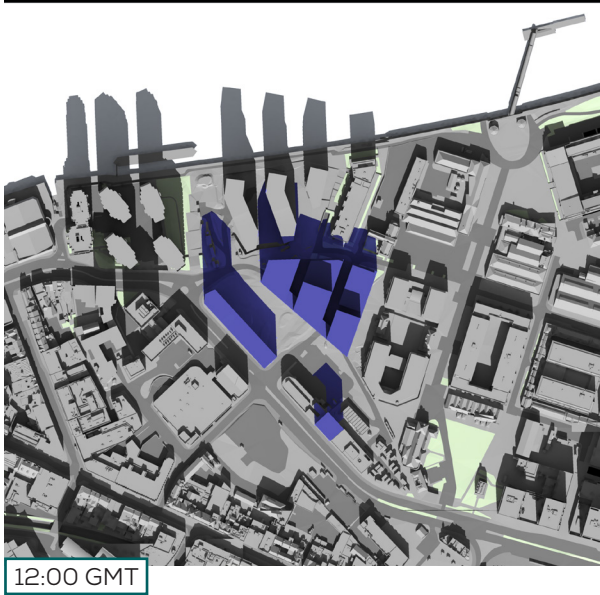
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TRANSIENT OVERSHADOWING ASSESSMENT
21ST MARCH (12:00 - 15:00 GMT)

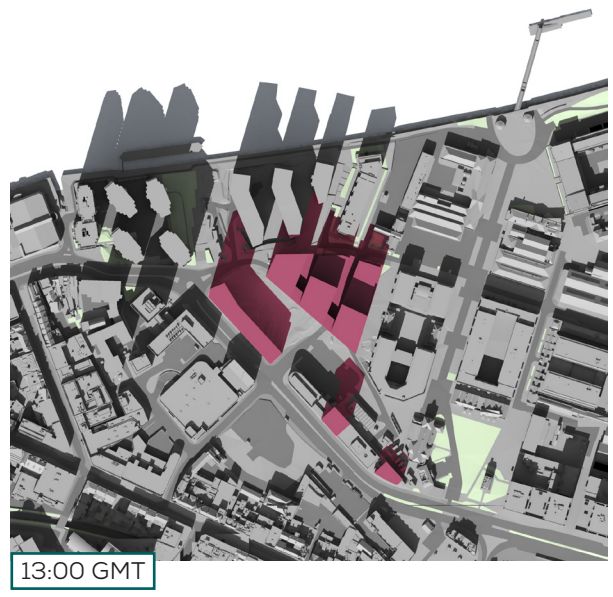
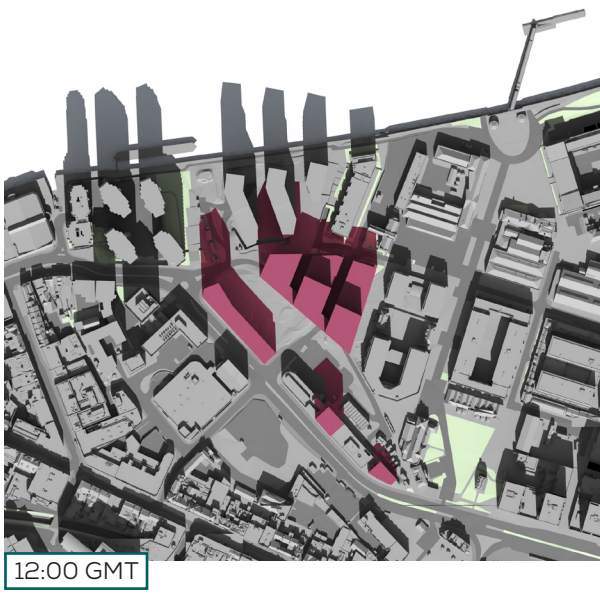
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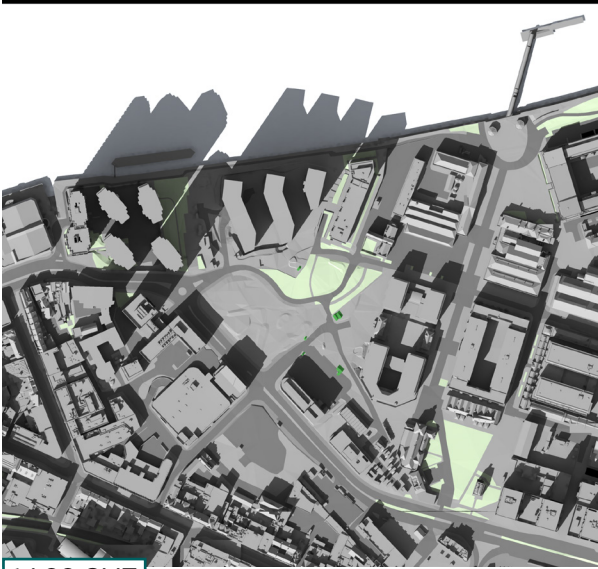
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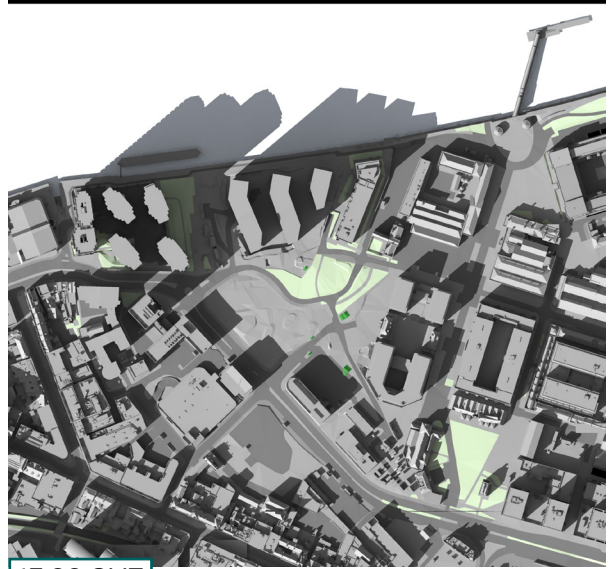
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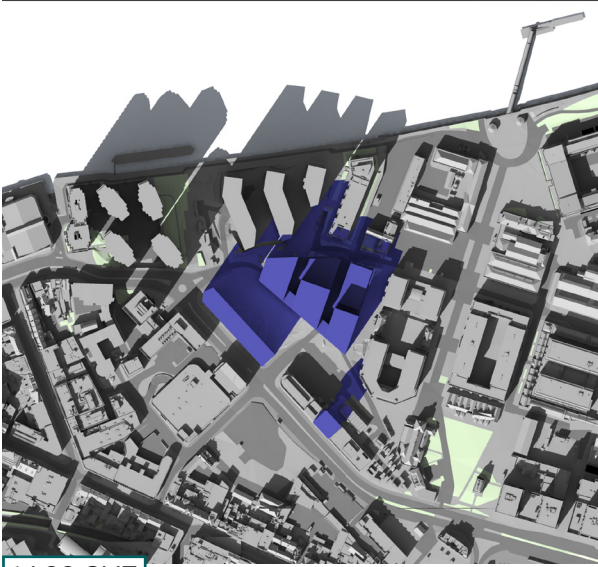


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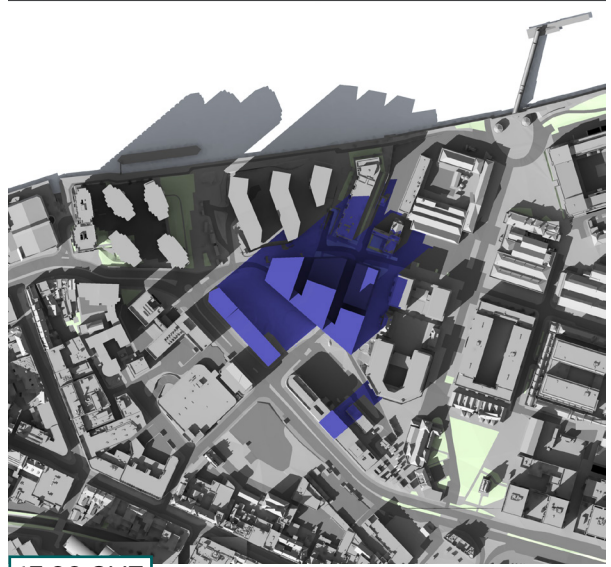


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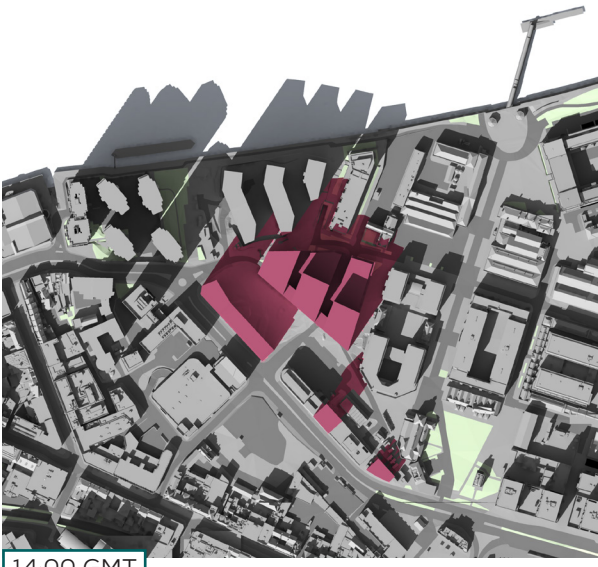


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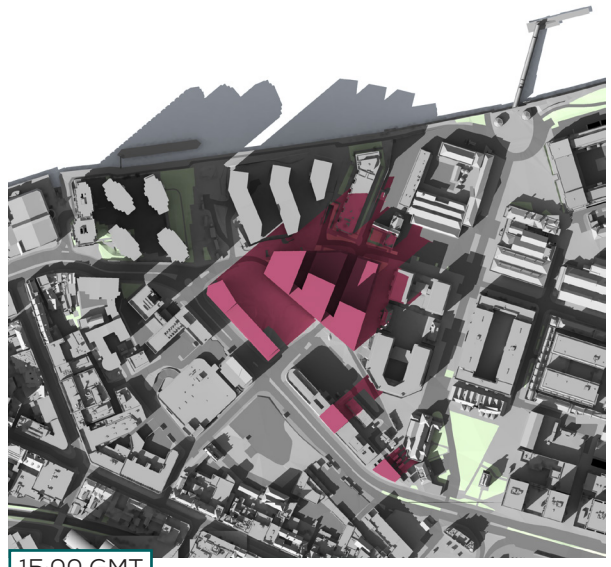


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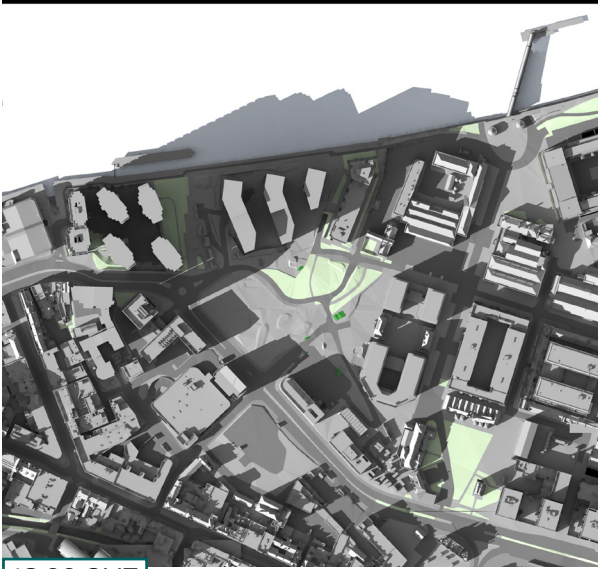
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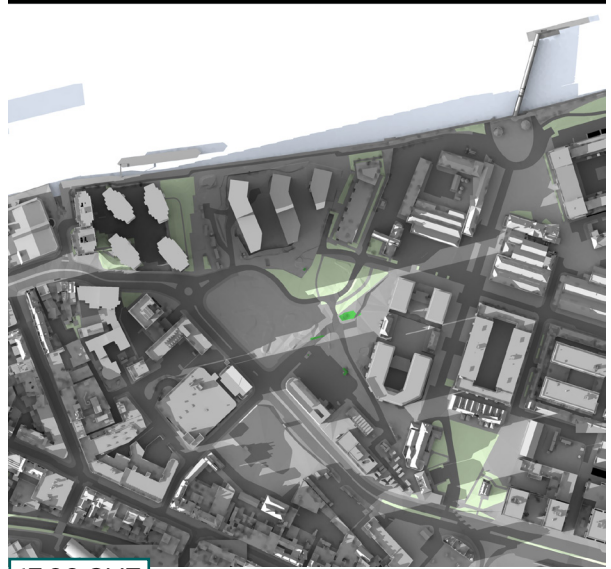
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TRANSIENT OVERSHADOWING ASSESSMENT
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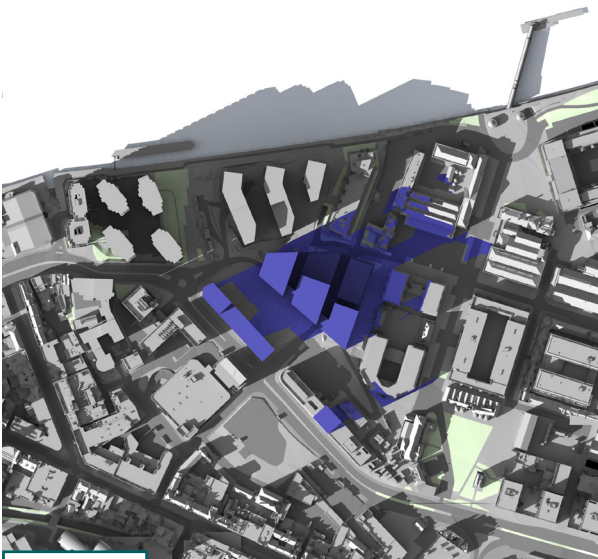


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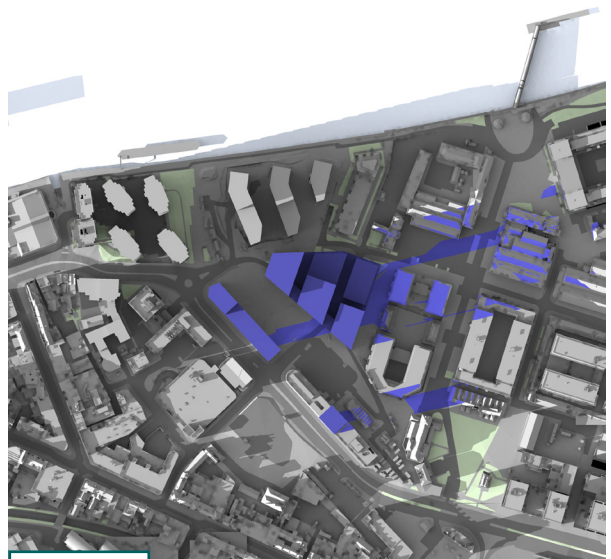


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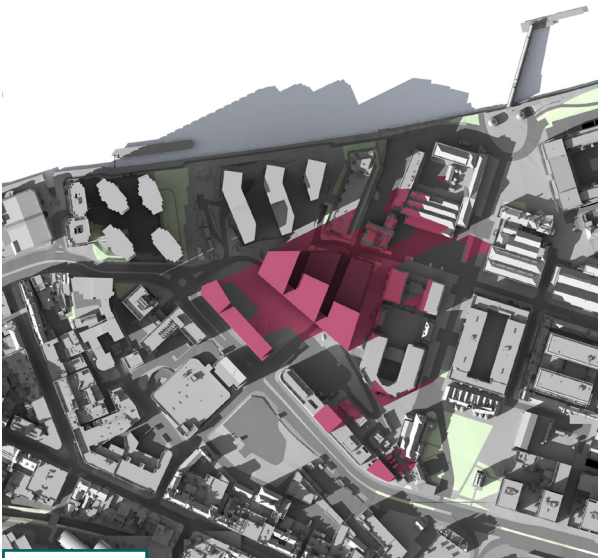


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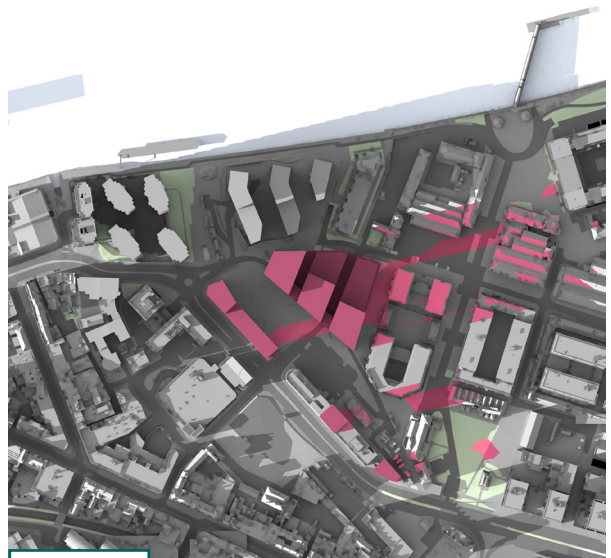


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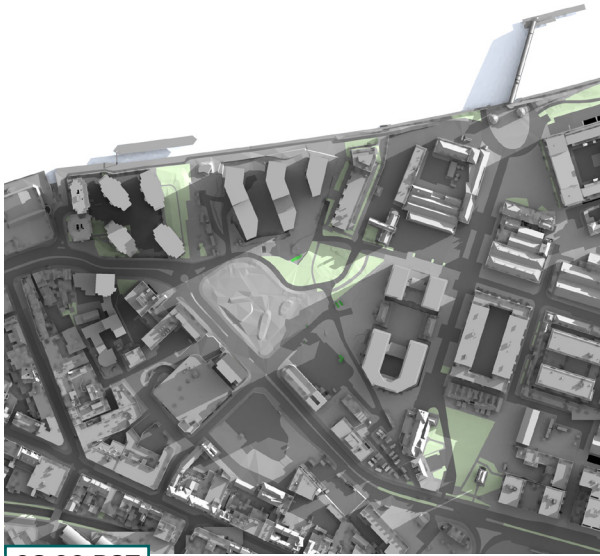


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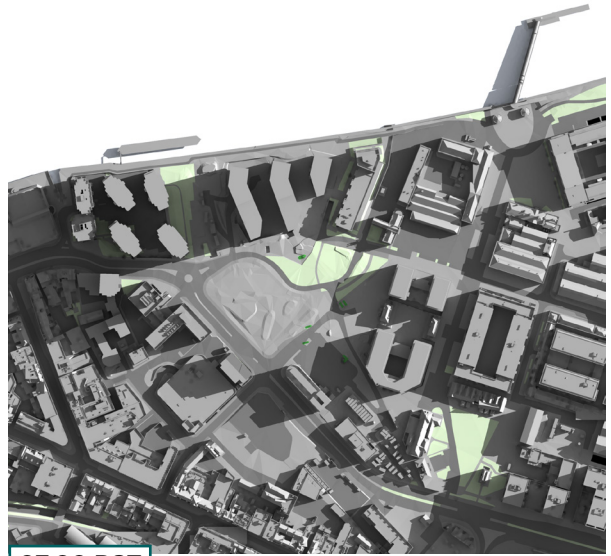
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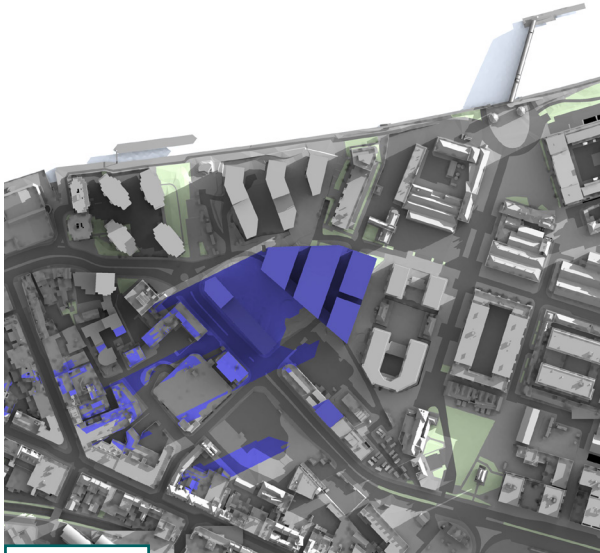


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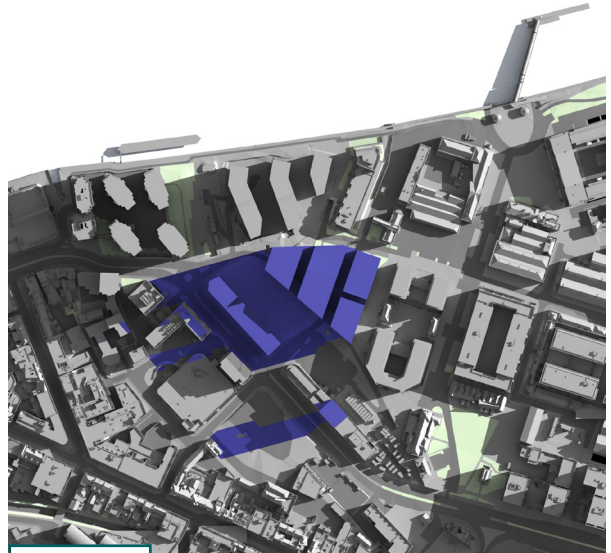


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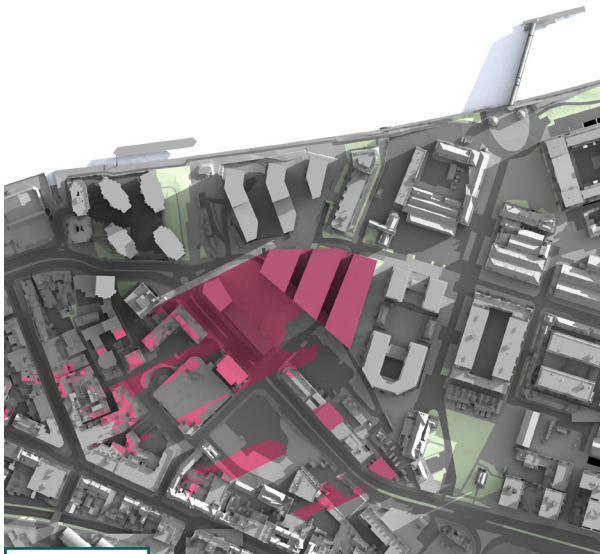


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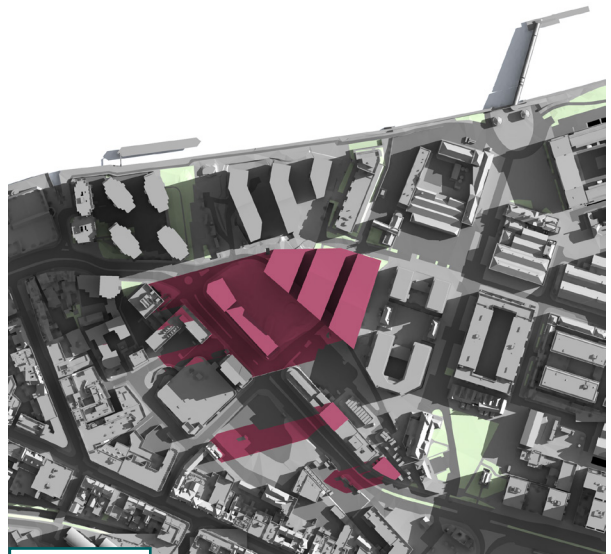


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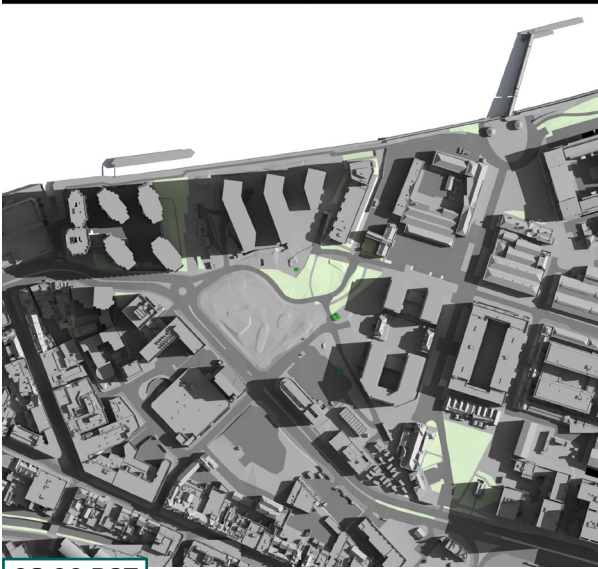


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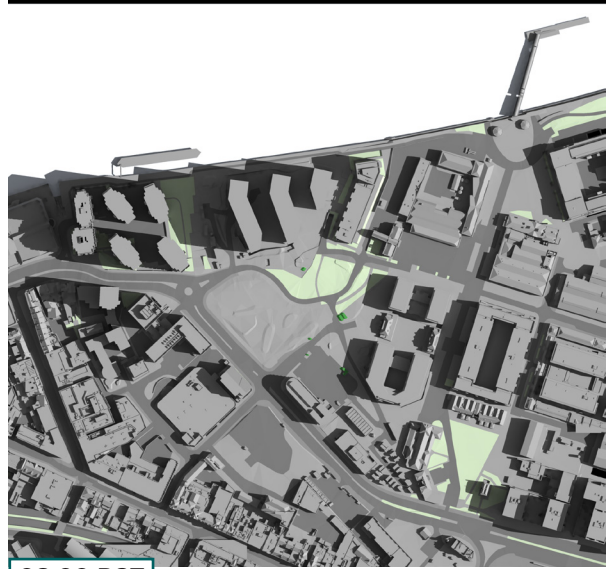


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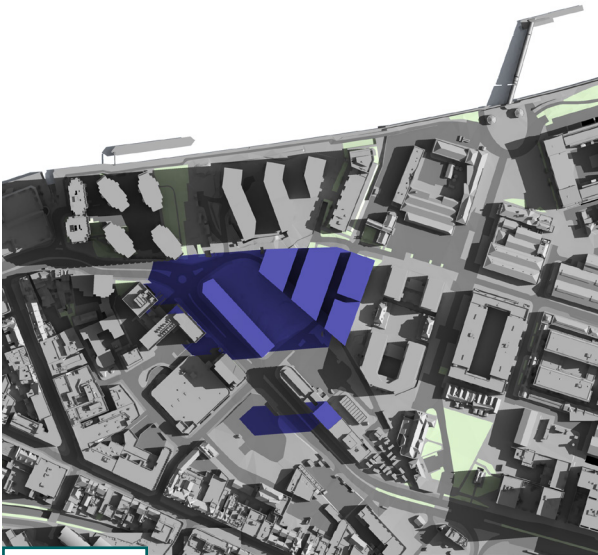


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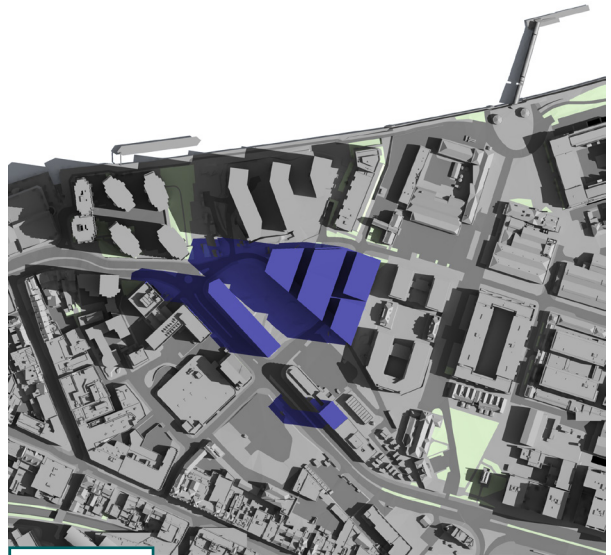


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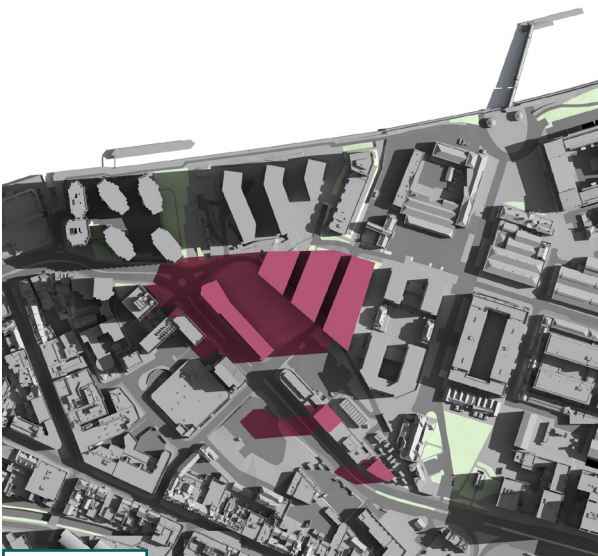


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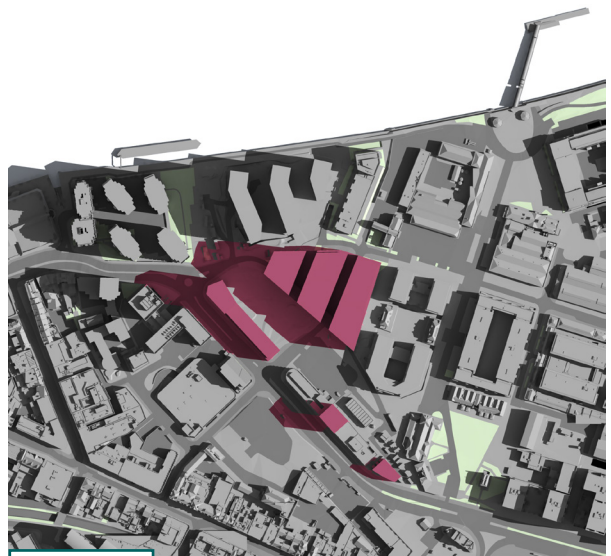


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CONSENTED



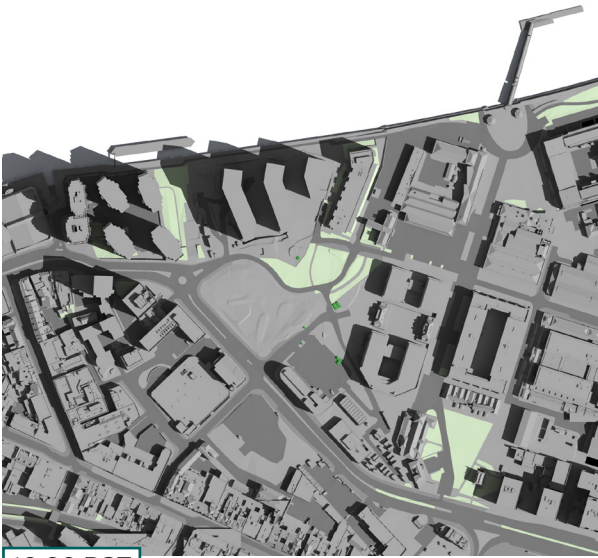
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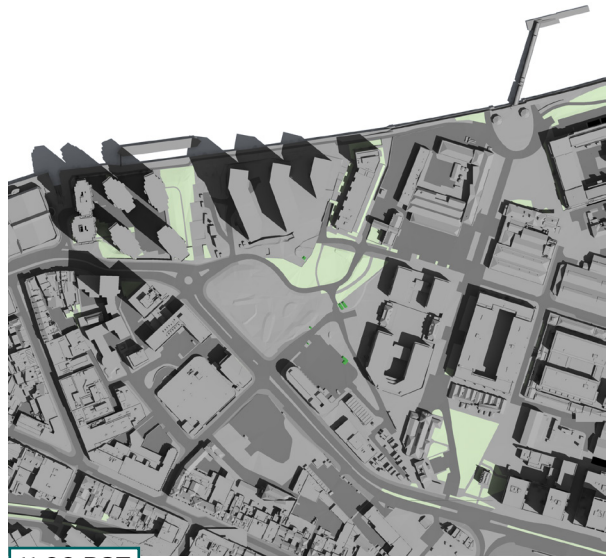
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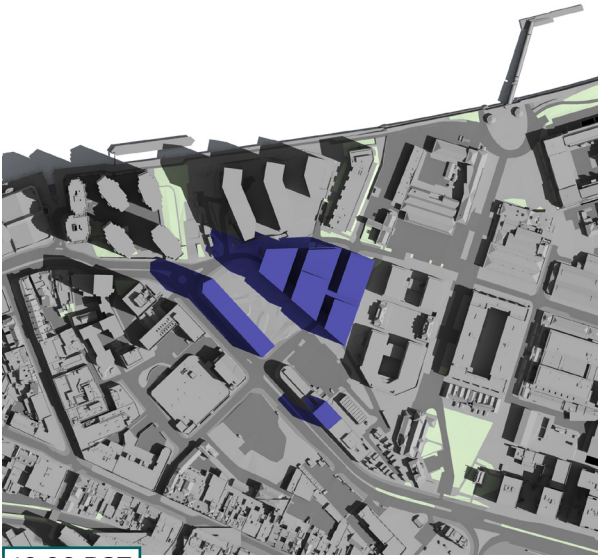


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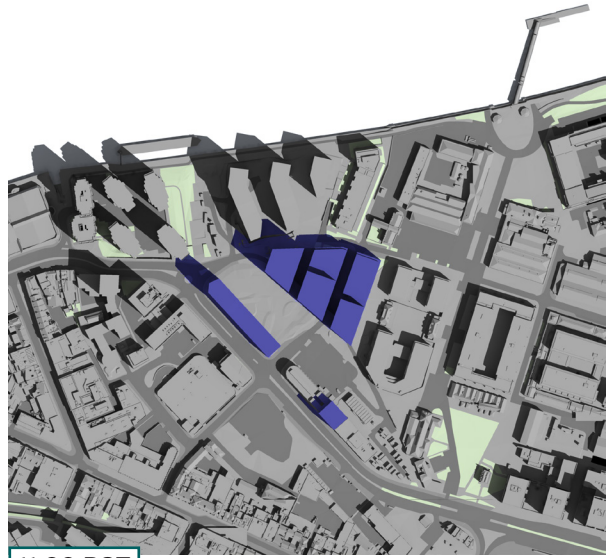


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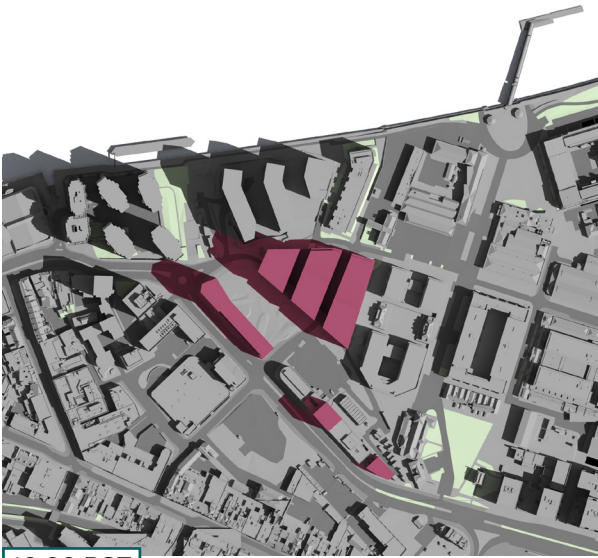


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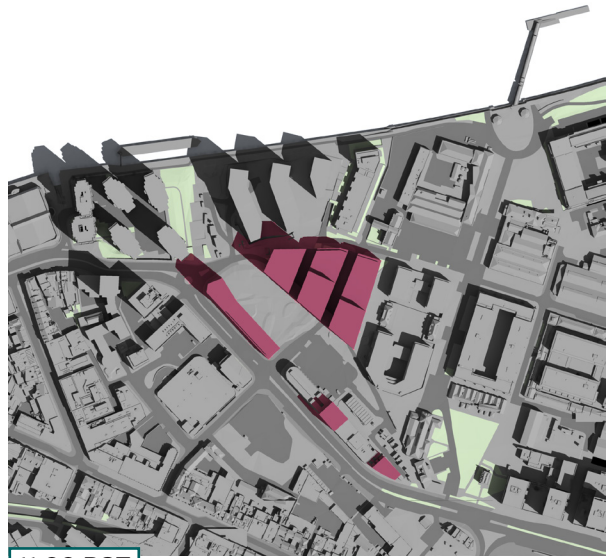


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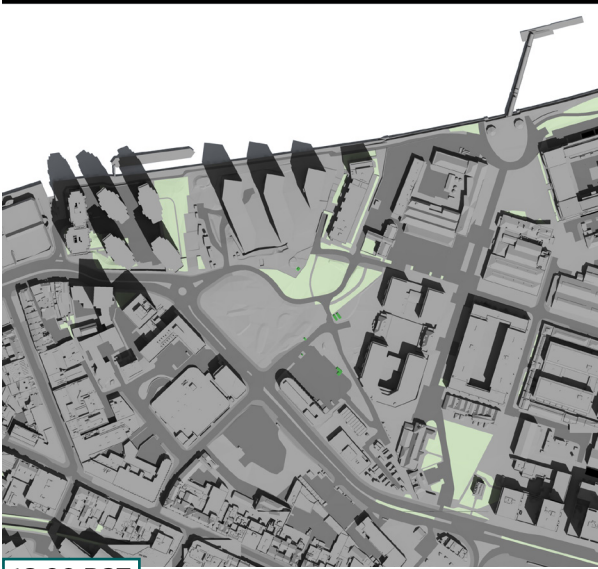


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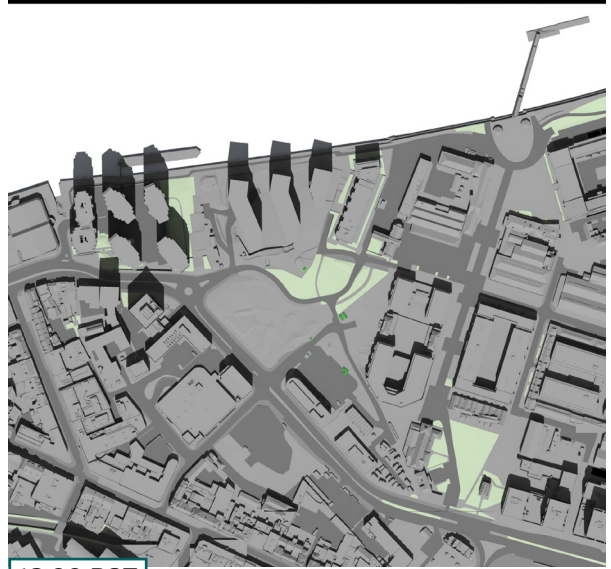


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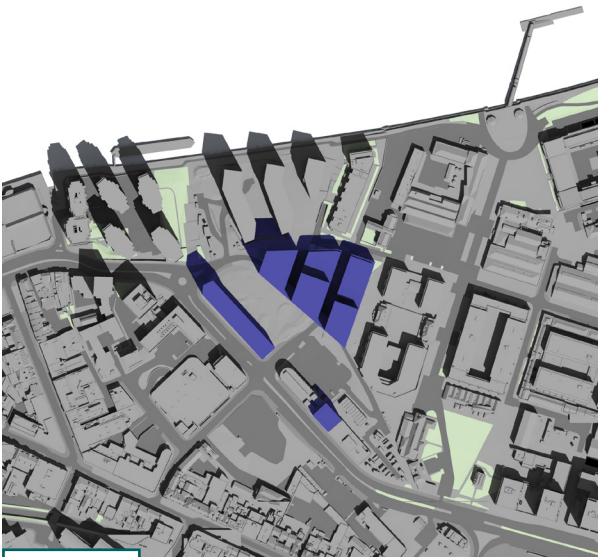


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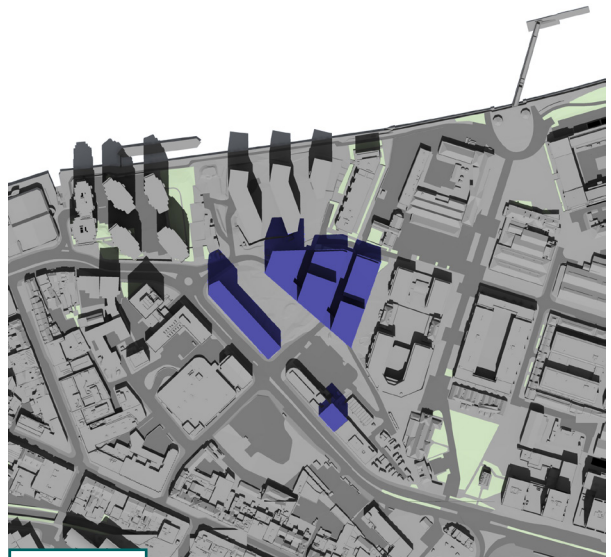


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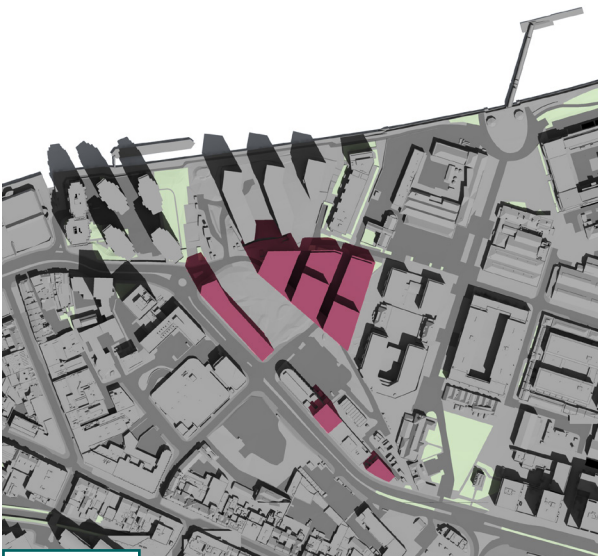


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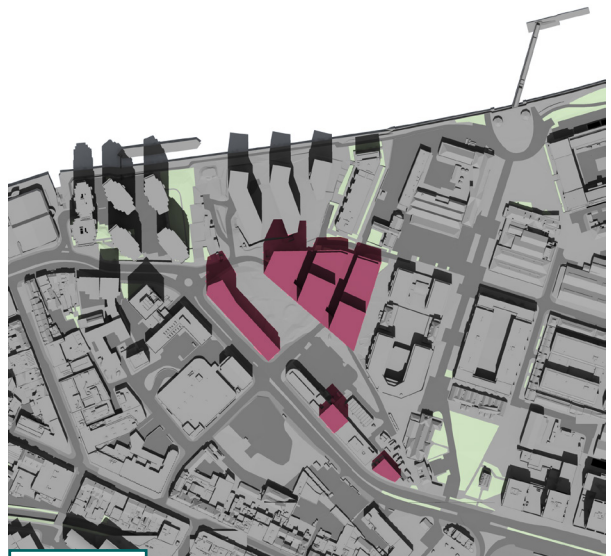


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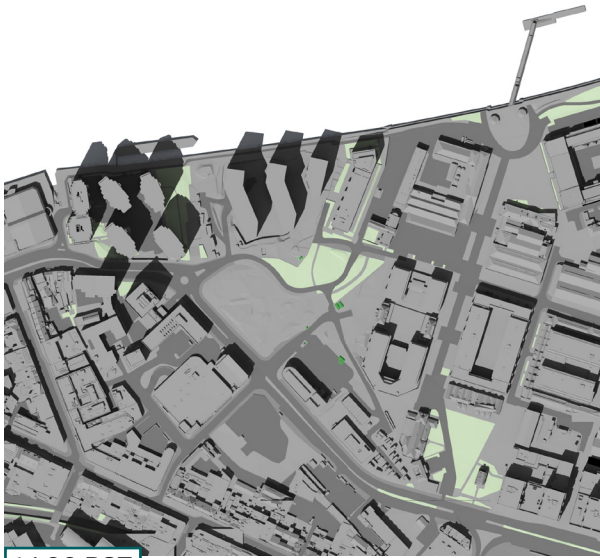
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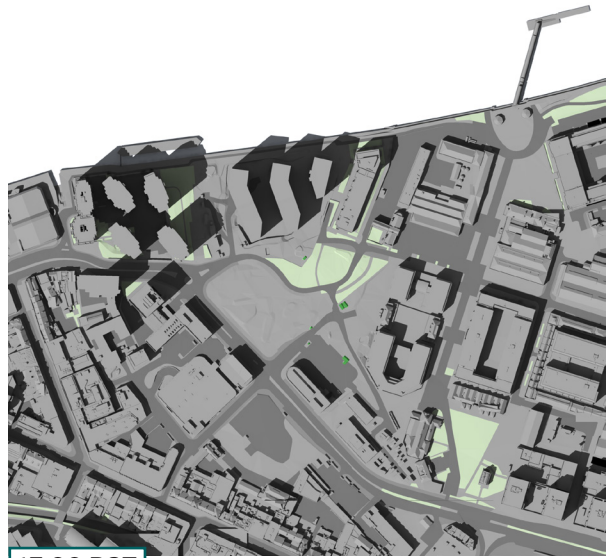
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21ST JUNE (14:00 - 17:00 BST)

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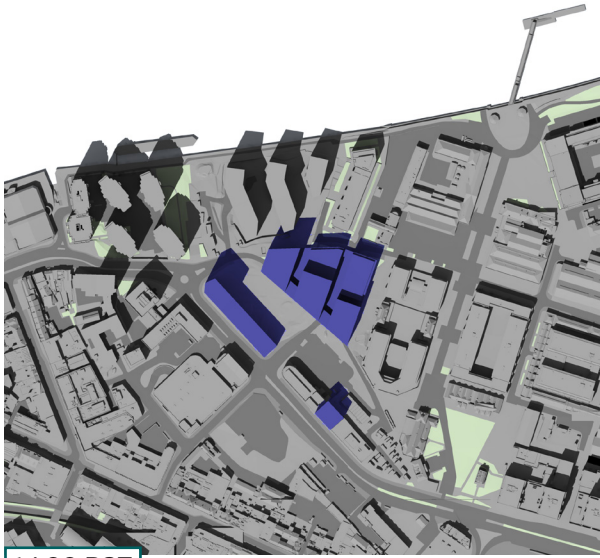


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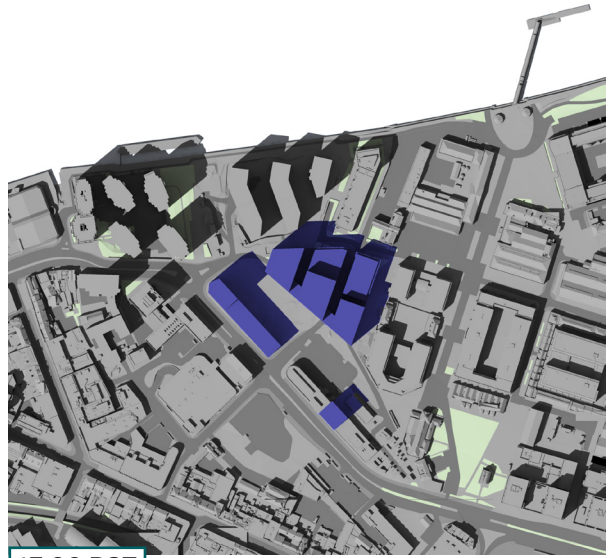


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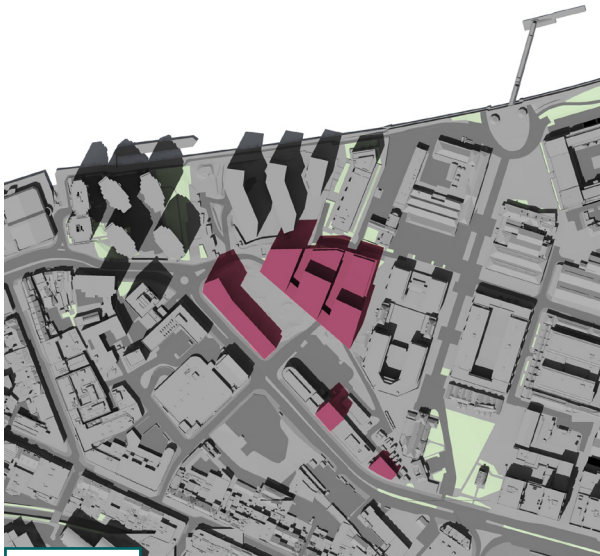


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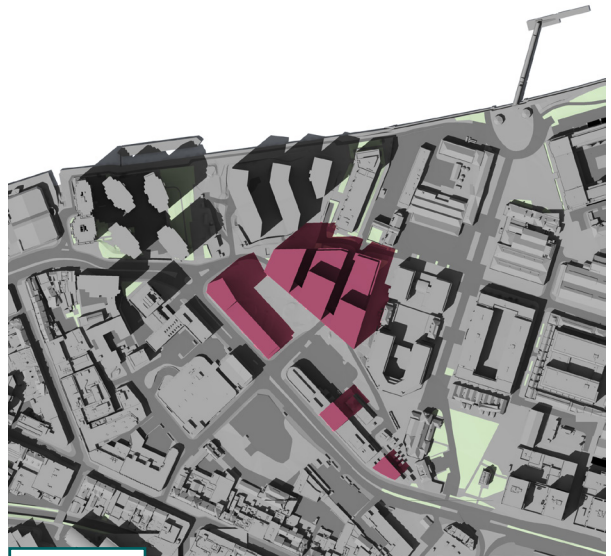


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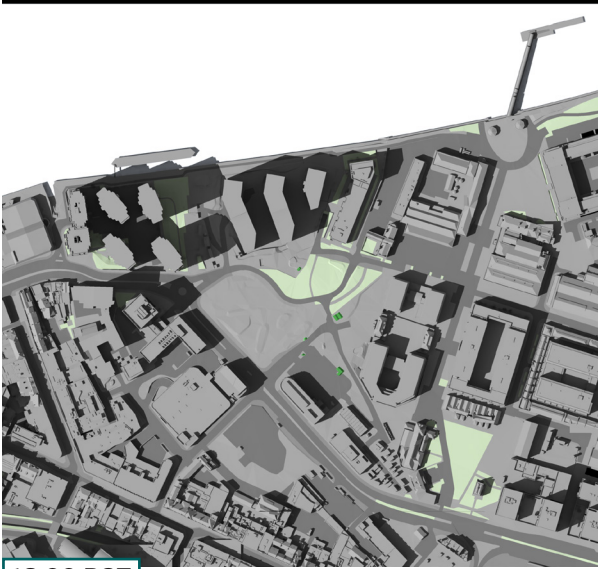


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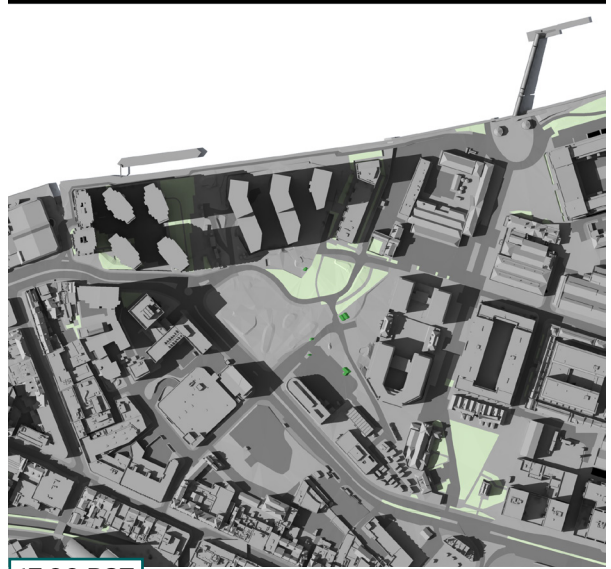


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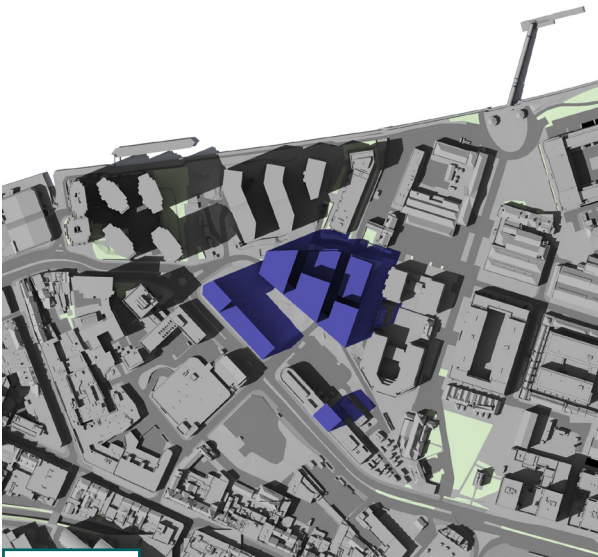


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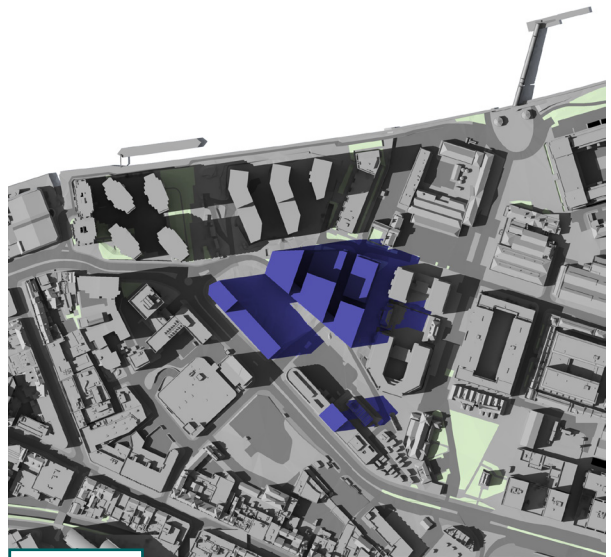


17:00 BST

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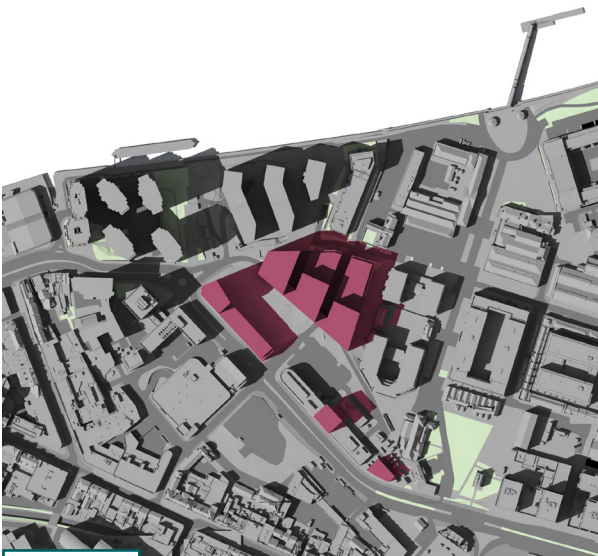


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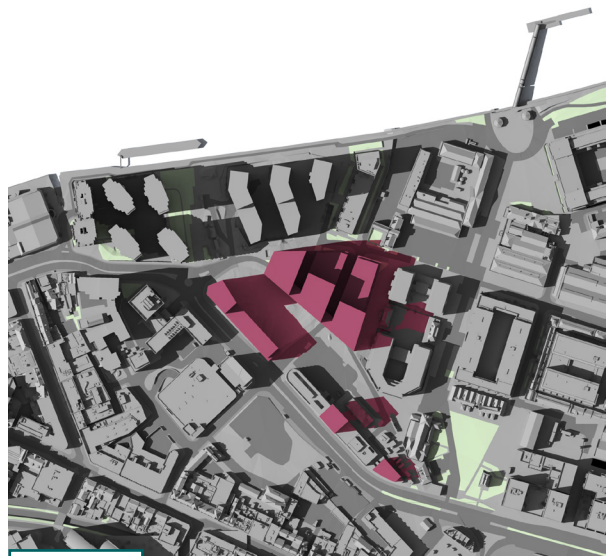


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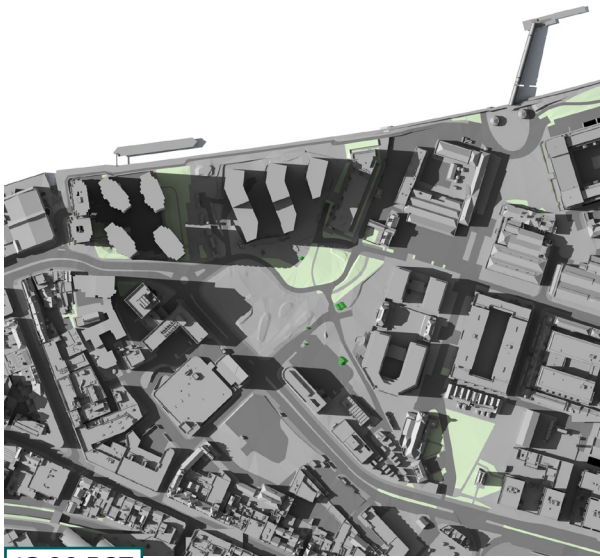
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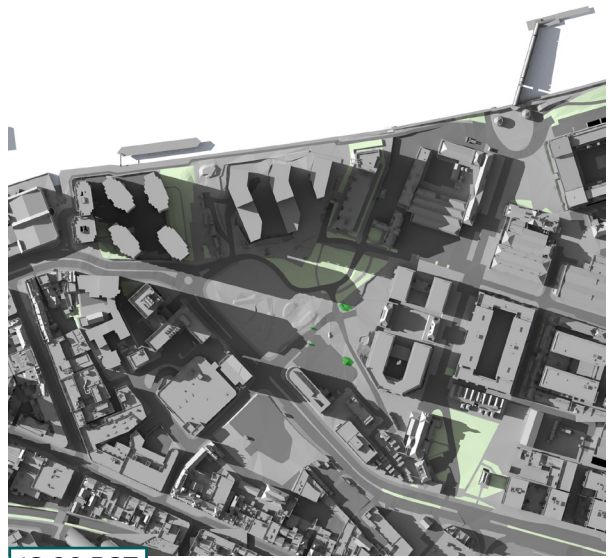
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TRANSIENT OVERSHADOWING ASSESSMENT
21ST JUNE (18:00 - 20:00 BST)

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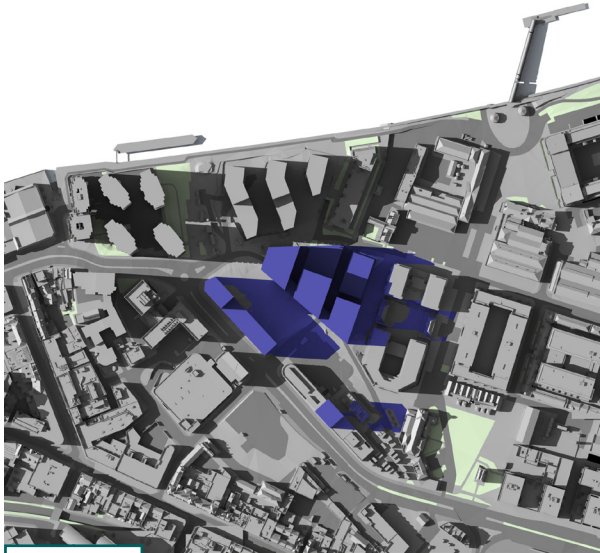


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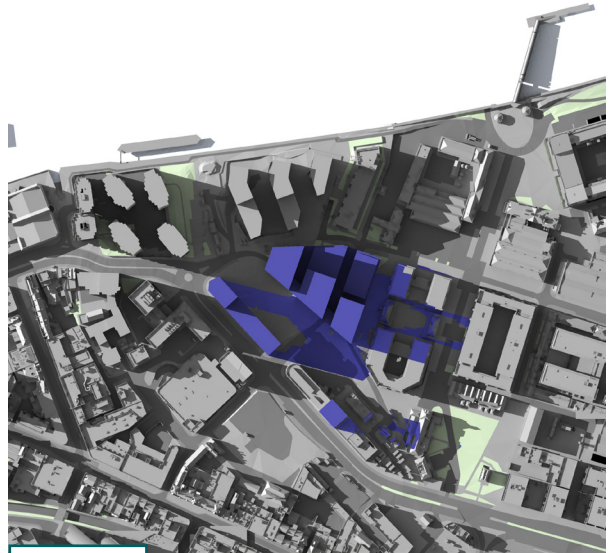


19:00 BST

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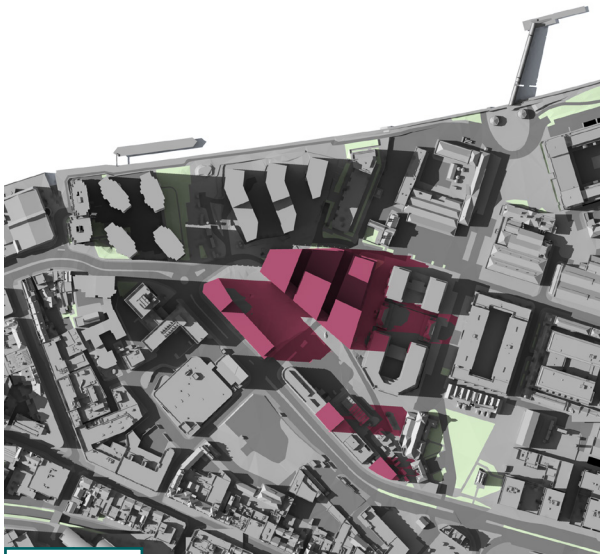


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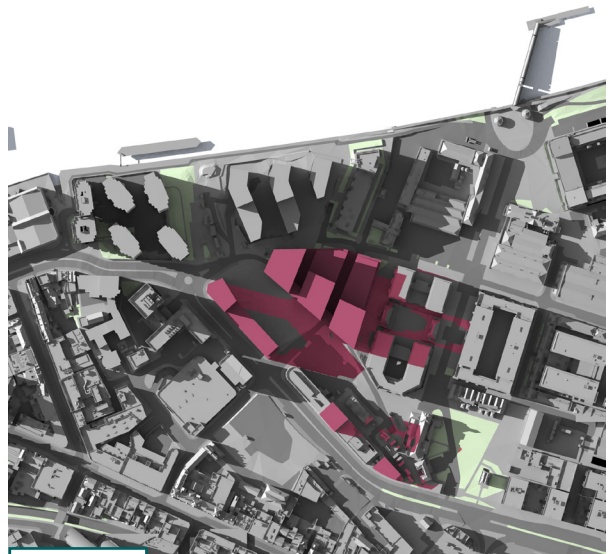


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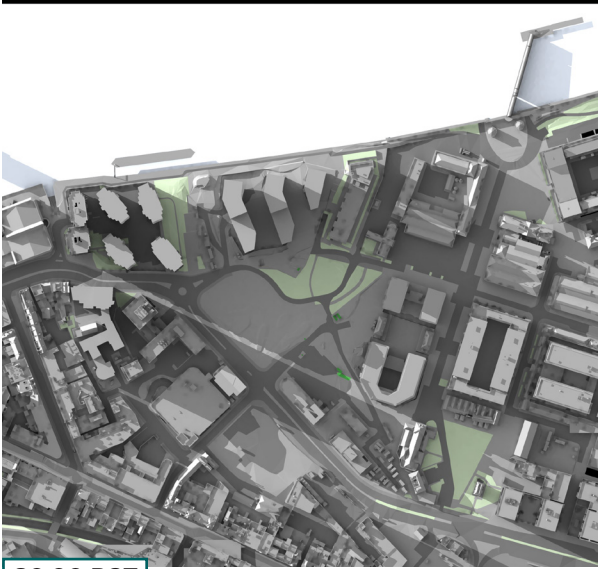


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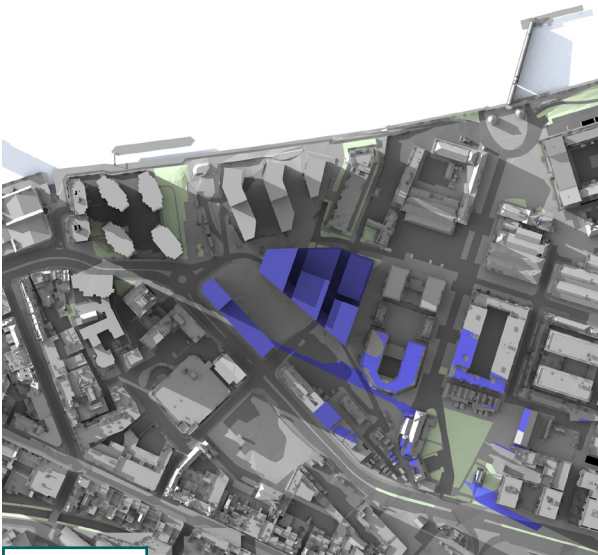
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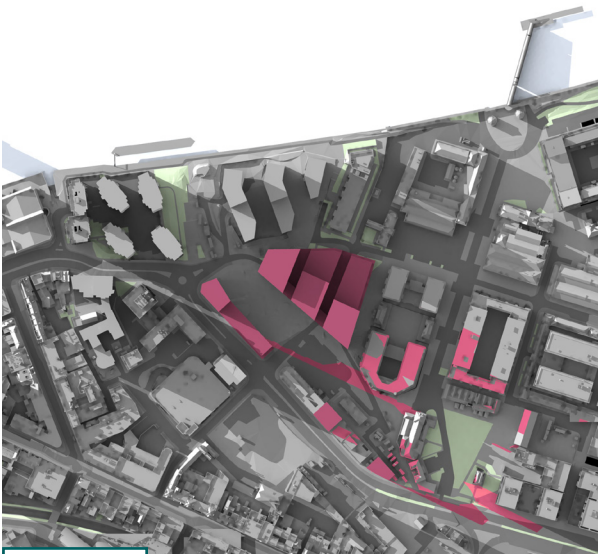
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PROPOSED



20:00 BST

CONSENTED



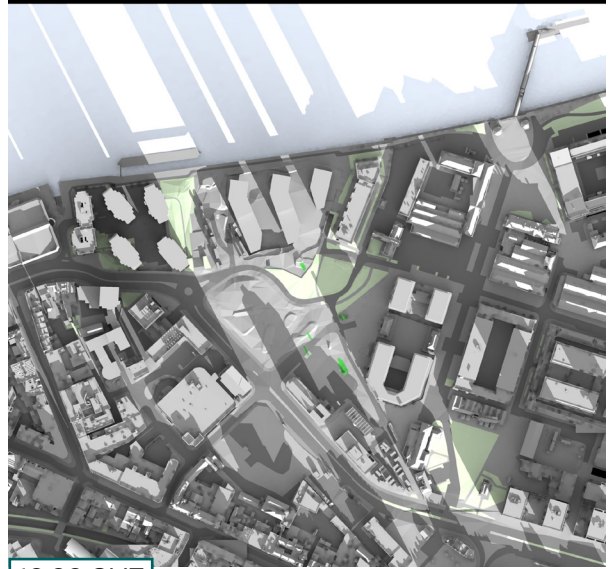
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21ST DECEMBER (09:00 - 12:00 GMT)

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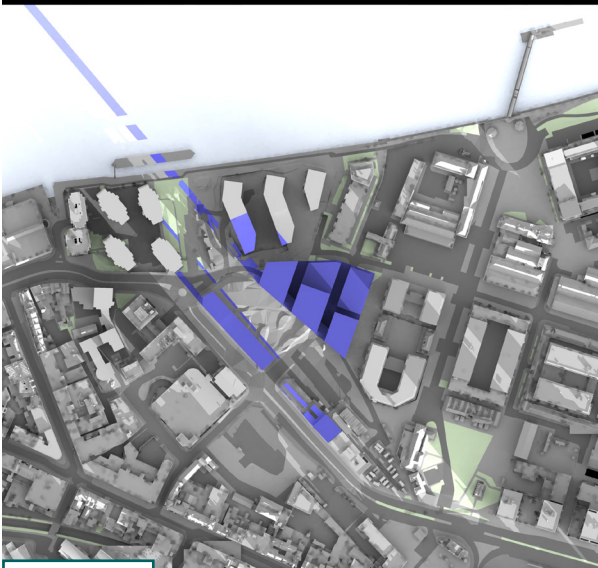


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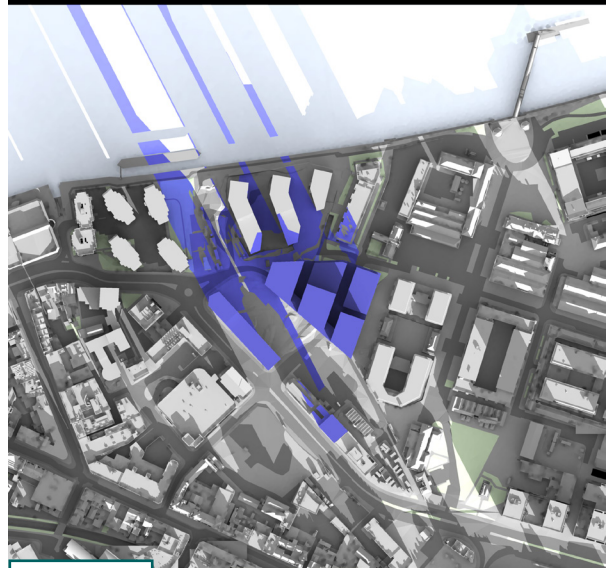


10:00 GMT

PROPOSED



09:00 GMT

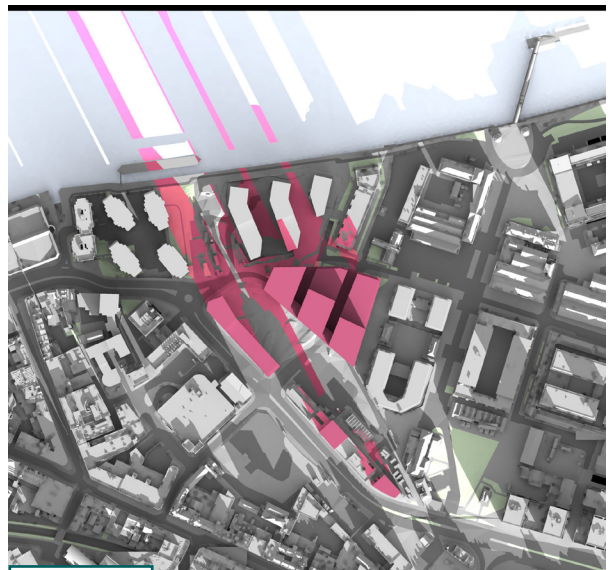


10:00 GMT

CONSENTED

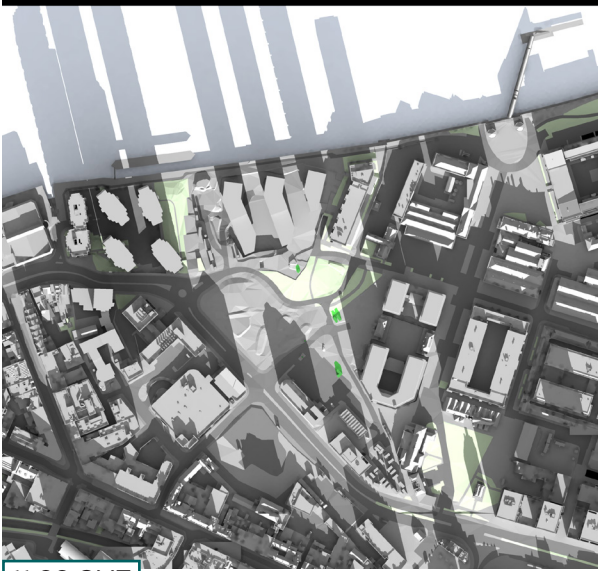


09:00 GMT

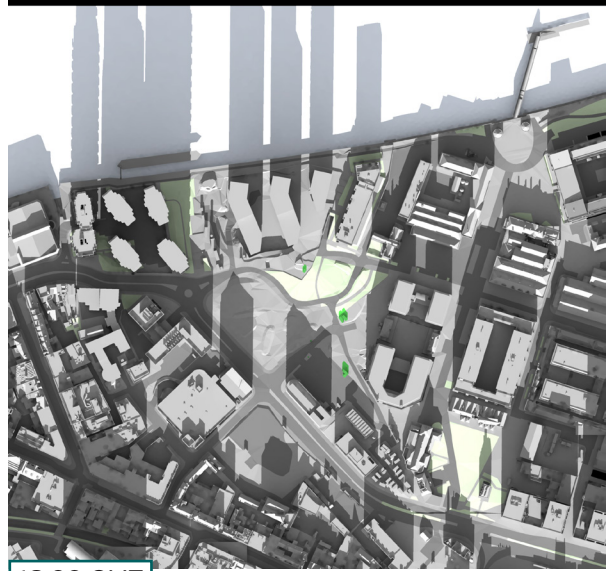


10:00 GMT

EXISTING

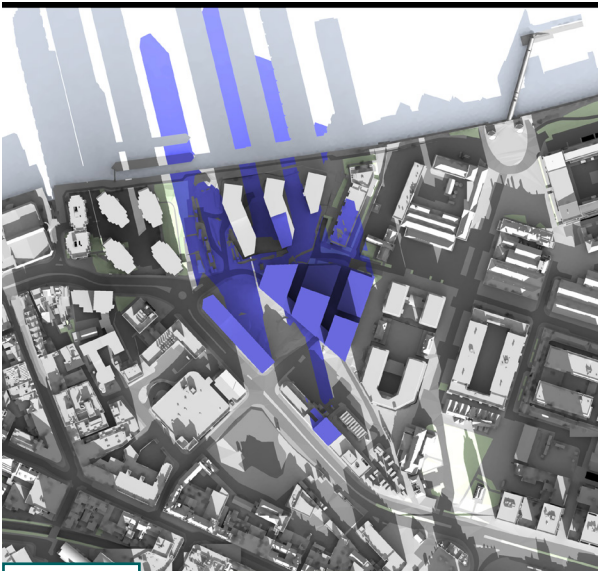


11:00 GMT

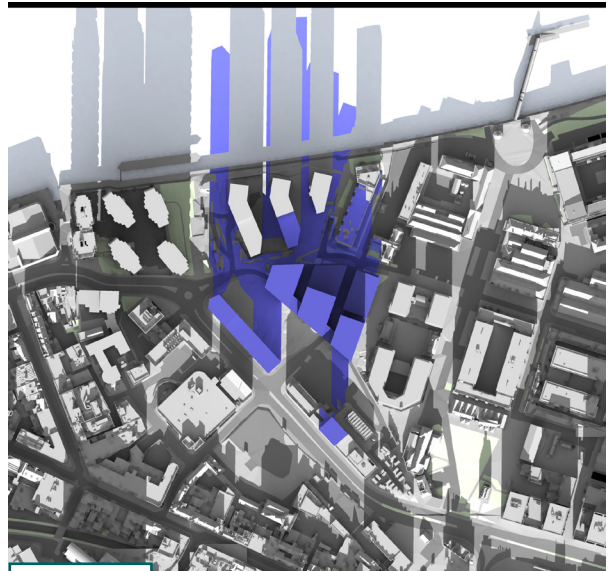


12:00 GMT

PROPOSED

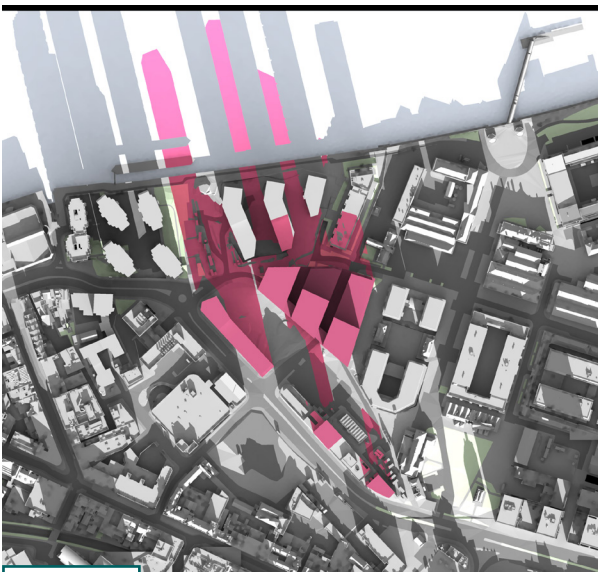


11:00 GMT

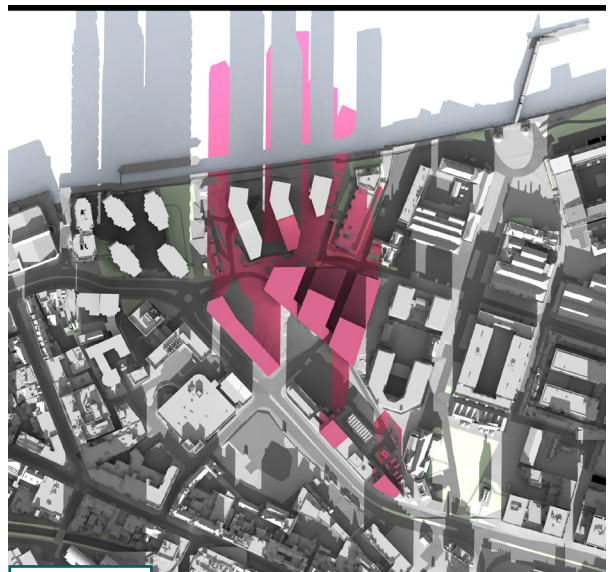


12:00 GMT

CONSENTED



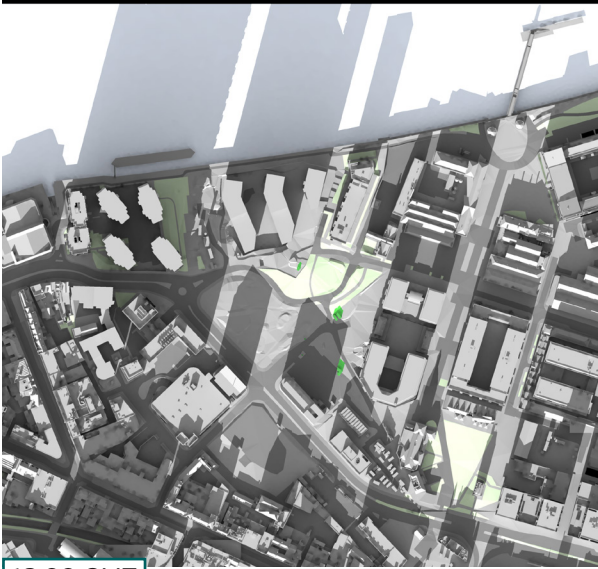
11:00 GMT



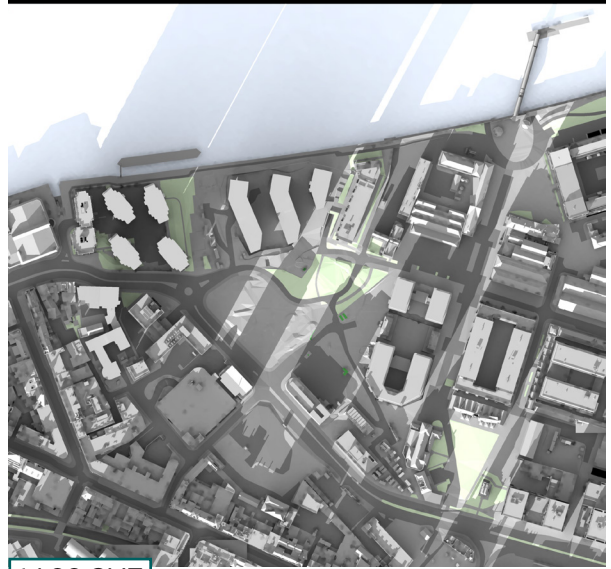
12:00 GMT

TRANSIENT OVERSHADOWING ASSESSMENT
21ST DECEMBER (13:00 - 15:00 GMT)

EXISTING

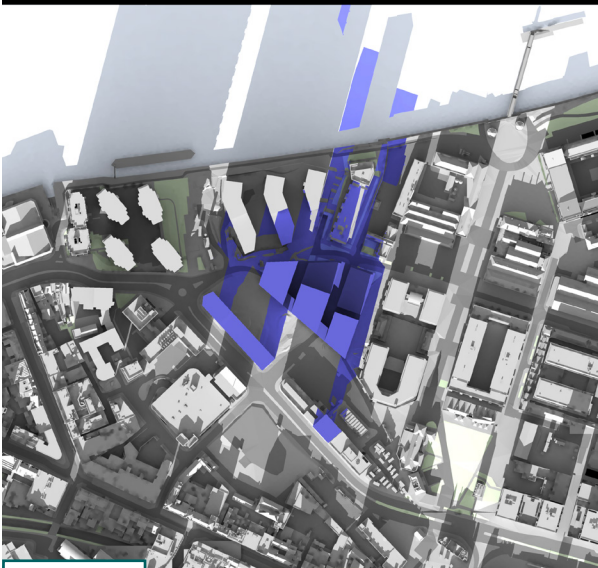


13:00 GMT

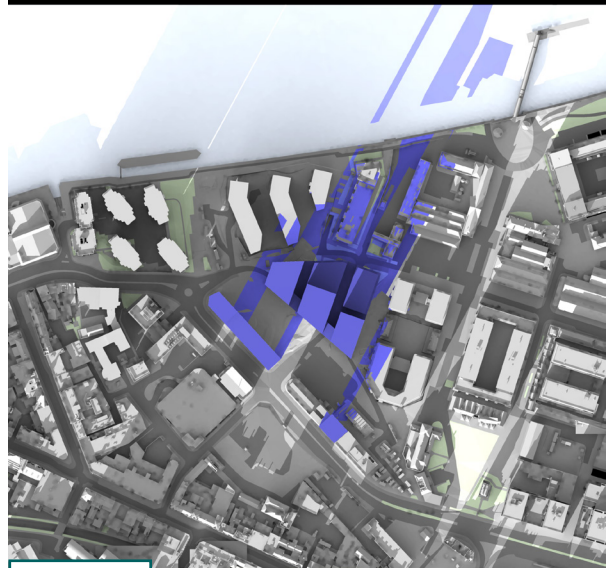


14:00 GMT

PROPOSED

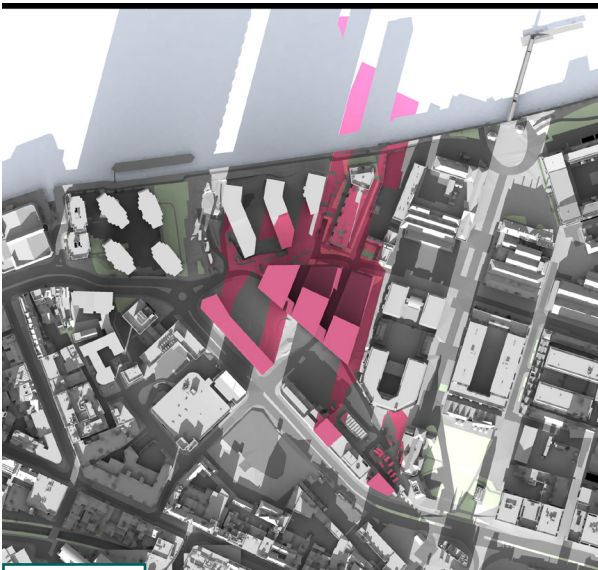


13:00 GMT

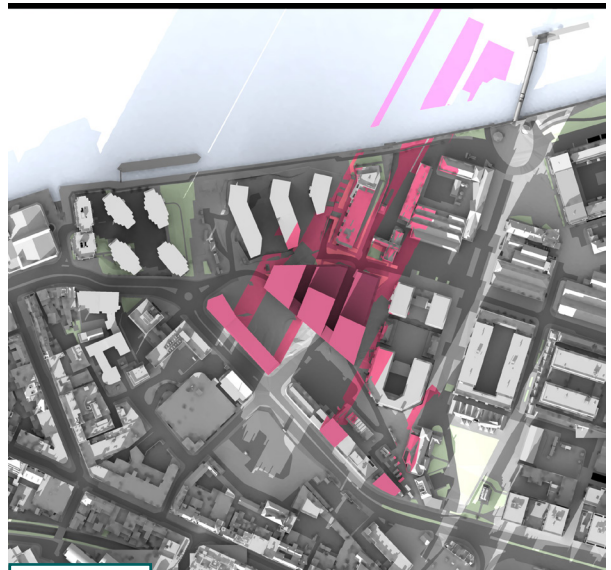


14:00 GMT

CONSENTED

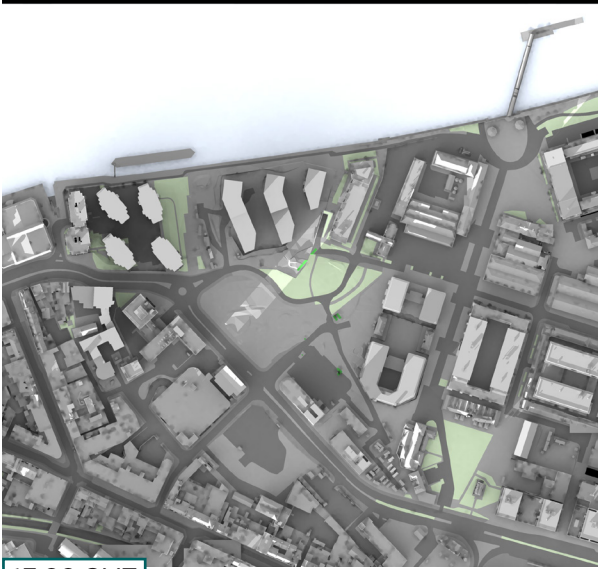


13:00 GMT



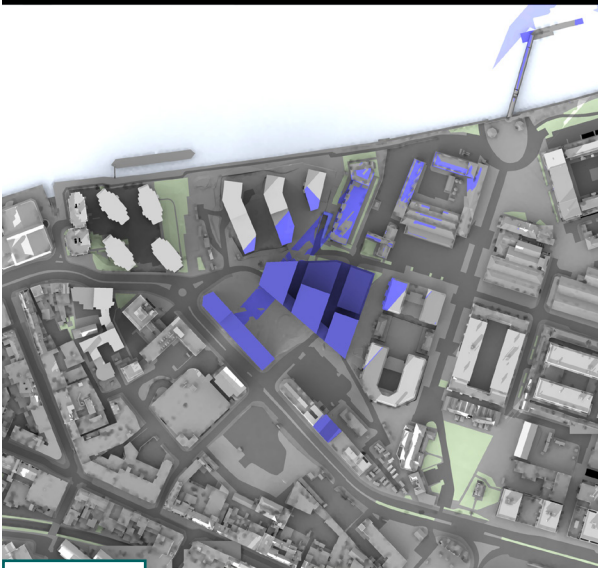
14:00 GMT

EXISTING



15:00 GMT

PROPOSED



15:00 GMT

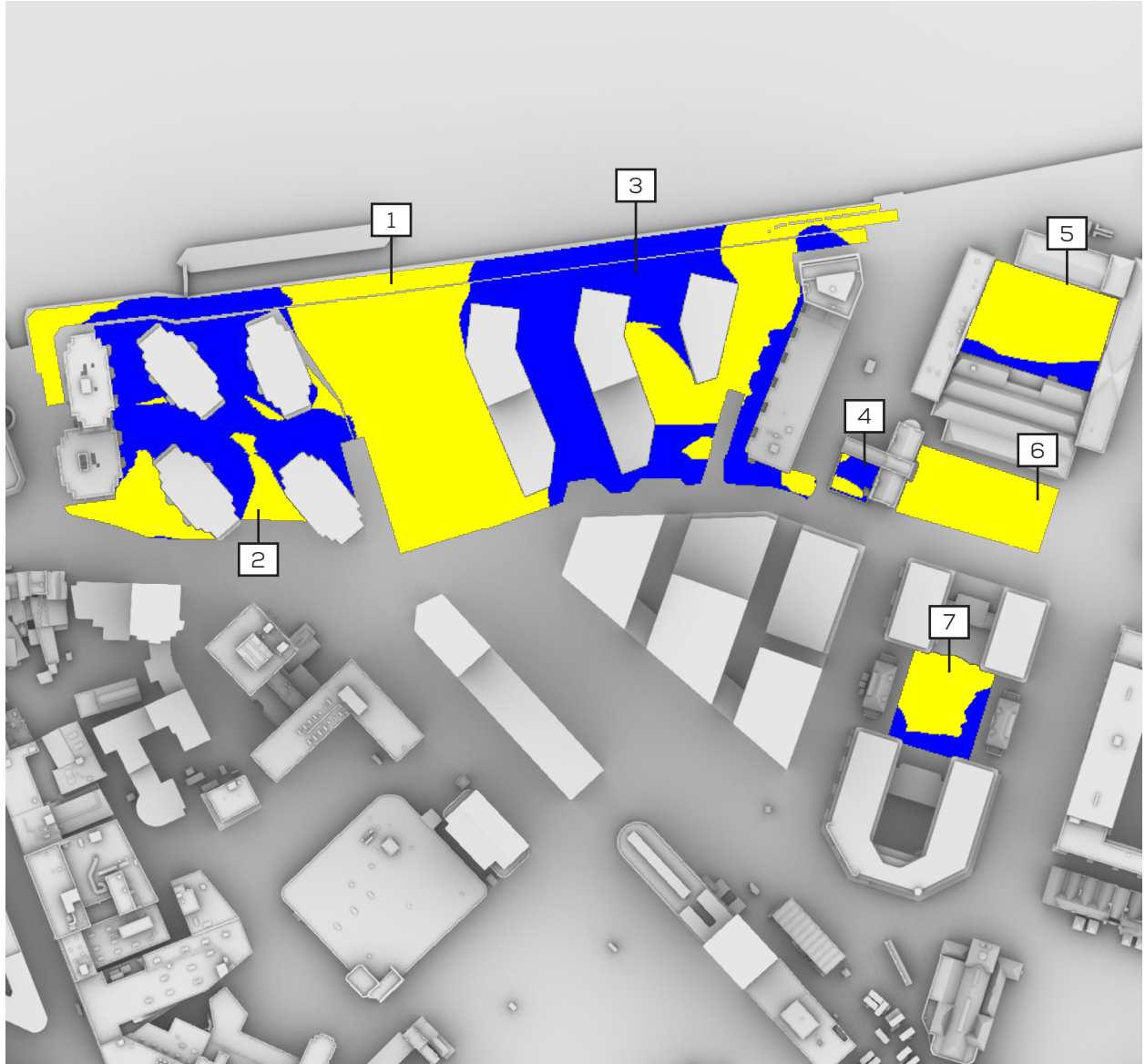
CONSENTED



15:00 GMT

1 OVERSHADOWING ASSESSMENTS

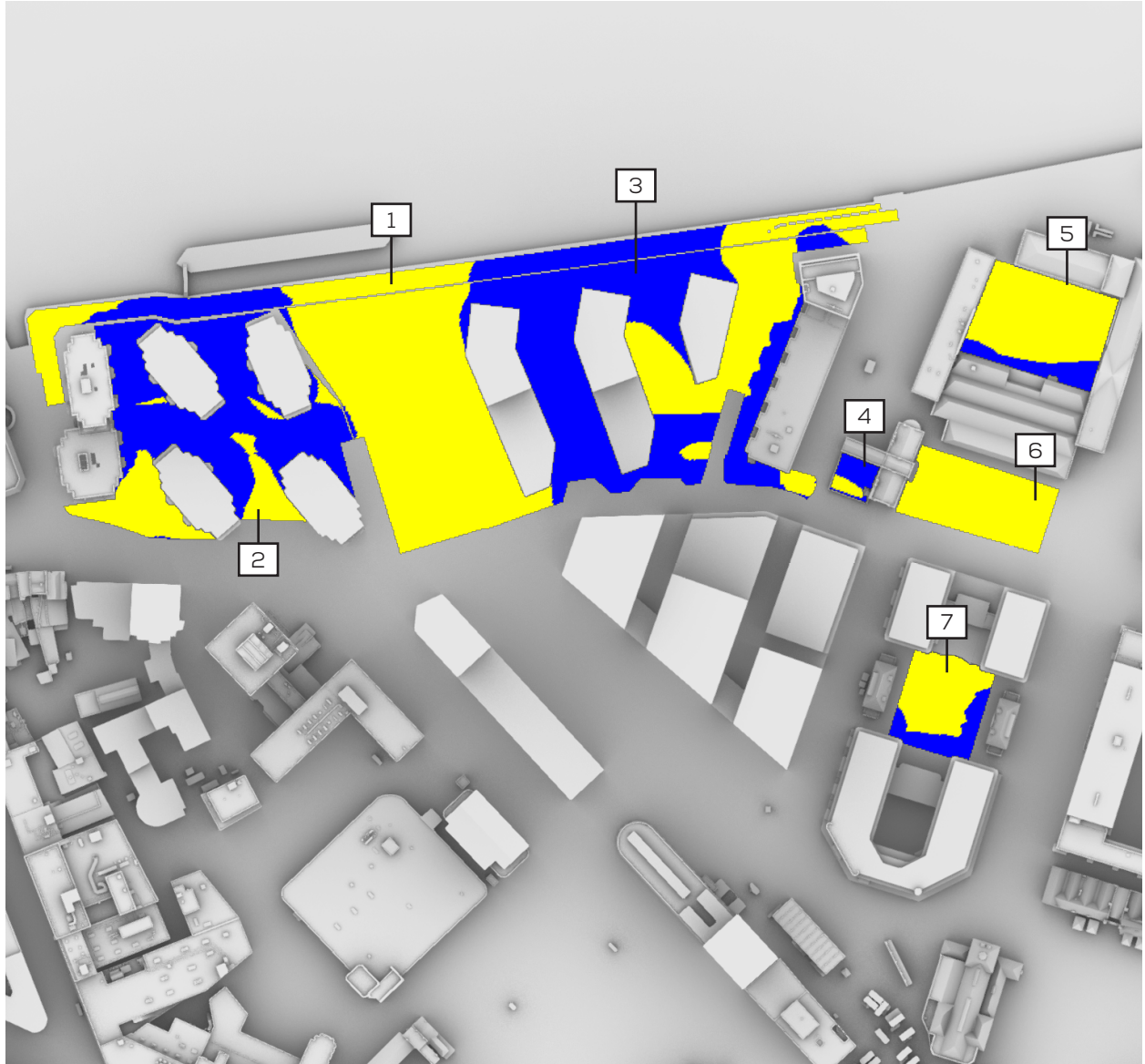
OVERSHADOWING ASSESSMENT - CONSENTED SUN HOURS ON GROUND - BRE TEST



SUN HOURS ON GROUND
BRE TEST - 21ST MARCH



OVERSHADOWING ASSESSMENT - PROPOSED
SUN HOURS ON GROUND - BRE TEST



SUN HOURS ON GROUND
BRE TEST - 21ST MARCH



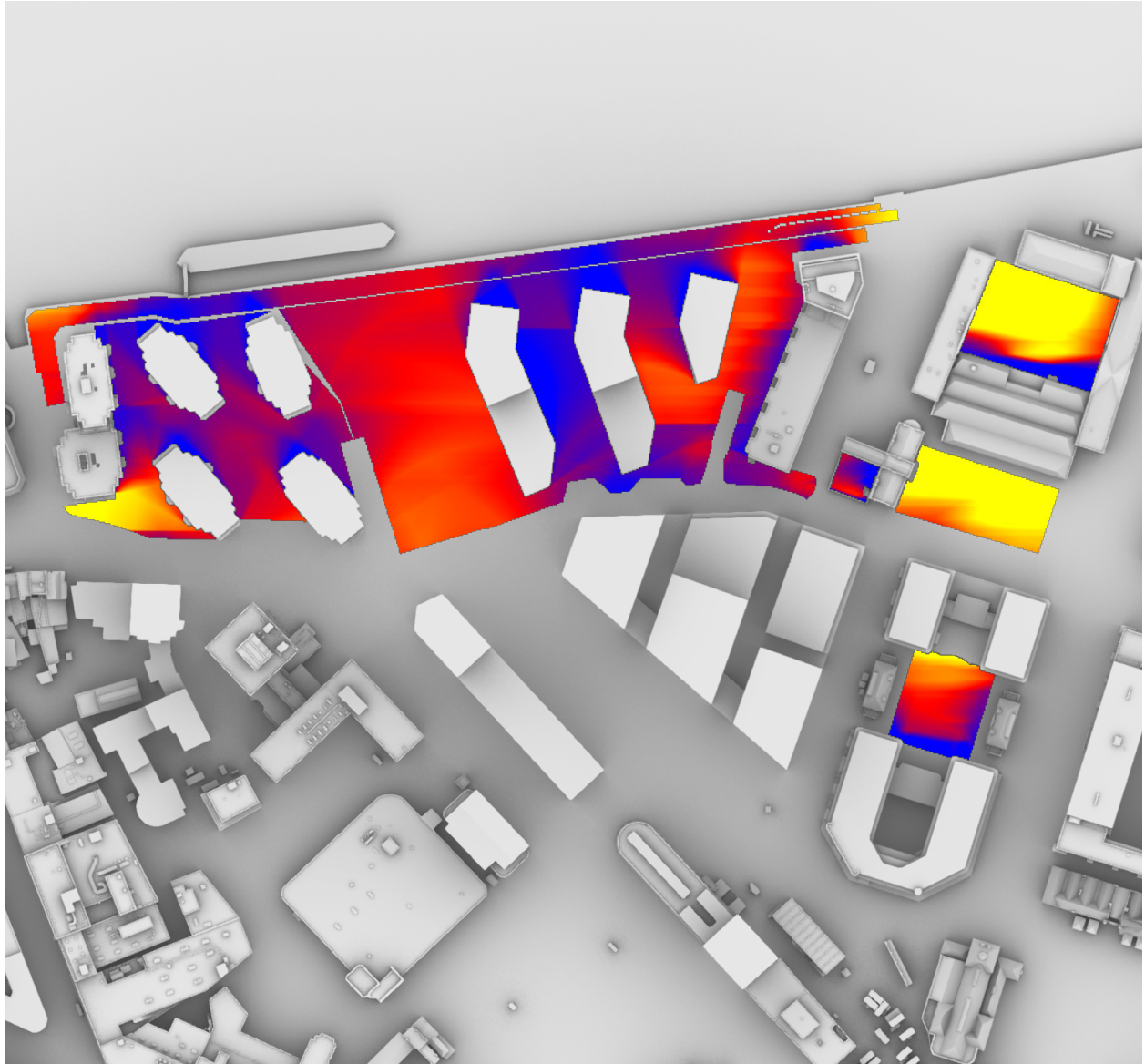
SUN HOURS ON GROUND SUMMARY TABLE

CONSENTED Vs PROPOSED PERCENTAGE LOSS

AREA	% Area seeing 2+ hrs of sunlight on 21st March		
	CONSENTED	PROPOSED	CONS vs PROP % LOSS
1	53	53	0%
2	29	28	3%
3	63	62	2%
4	29	26	10%
5	83	83	0%
6	100	100	0%
7	69	69	0%

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OVERSHADOWING ASSESSMENT - CONSENTED
 SUN EXPOSURE ON GROUND - 21ST MARCH (SPRING EQUINOX)



SUN EXPOSURE
 TOTAL HOURS



21st March
 (SPRING EQUINOX)

LONDON

Latitude: 51.5

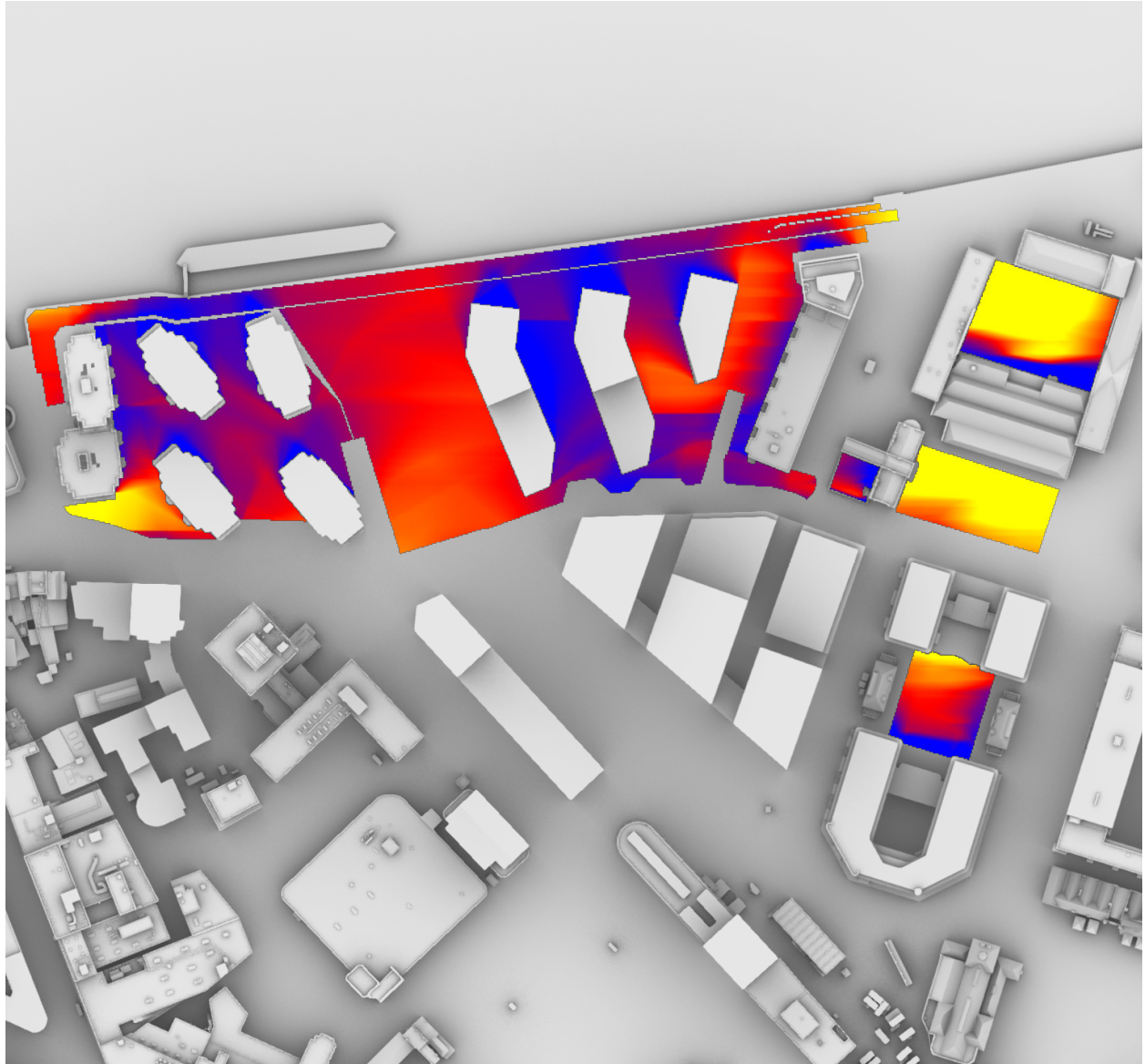
Longitude: 0.0

Sunrise: 06:02 GMT

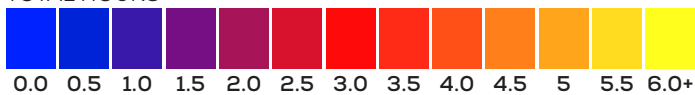
Sunset: 18:14 GMT

Total Available Sunlight:
 12hrs 12mins

OVERSHADOWING ASSESSMENT - PROPOSED
 SUN EXPOSURE ON GROUND - 21ST MARCH (SPRING EQUINOX)



SUN EXPOSURE
 TOTAL HOURS



21st March
 (SPRING EQUINOX)

LONDON

Latitude: 51.5

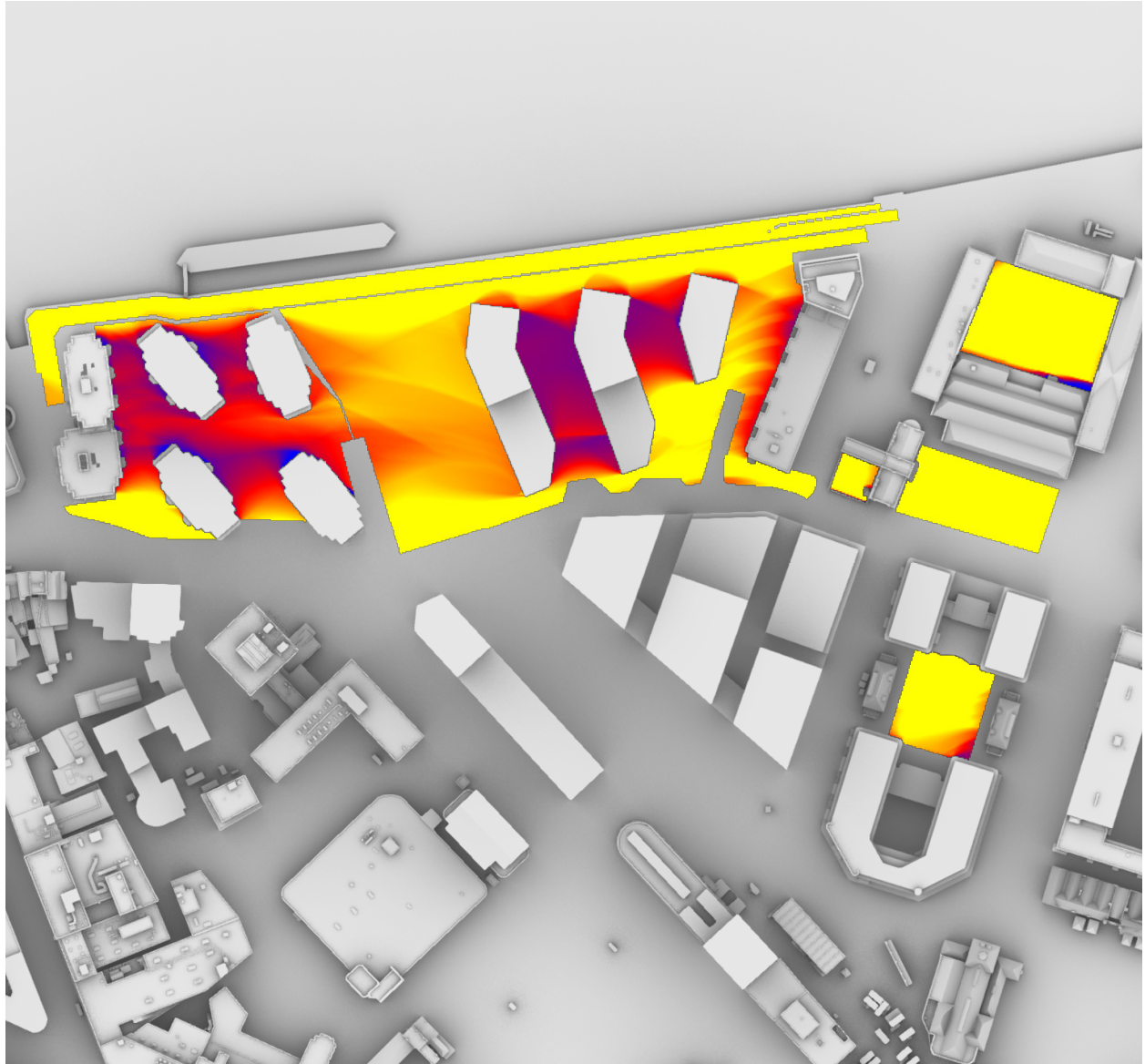
Longitude: 0.0

Sunrise: 06:02 GMT

Sunset: 18:14 GMT

Total Available Sunlight:
 12hrs 12mins

OVERSHADOWING ASSESSMENT - CONSENTED
 SUN EXPOSURE ON GROUND - 21ST JUNE (SUMMER SOLSTICE)



SUN EXPOSURE
 TOTAL HOURS



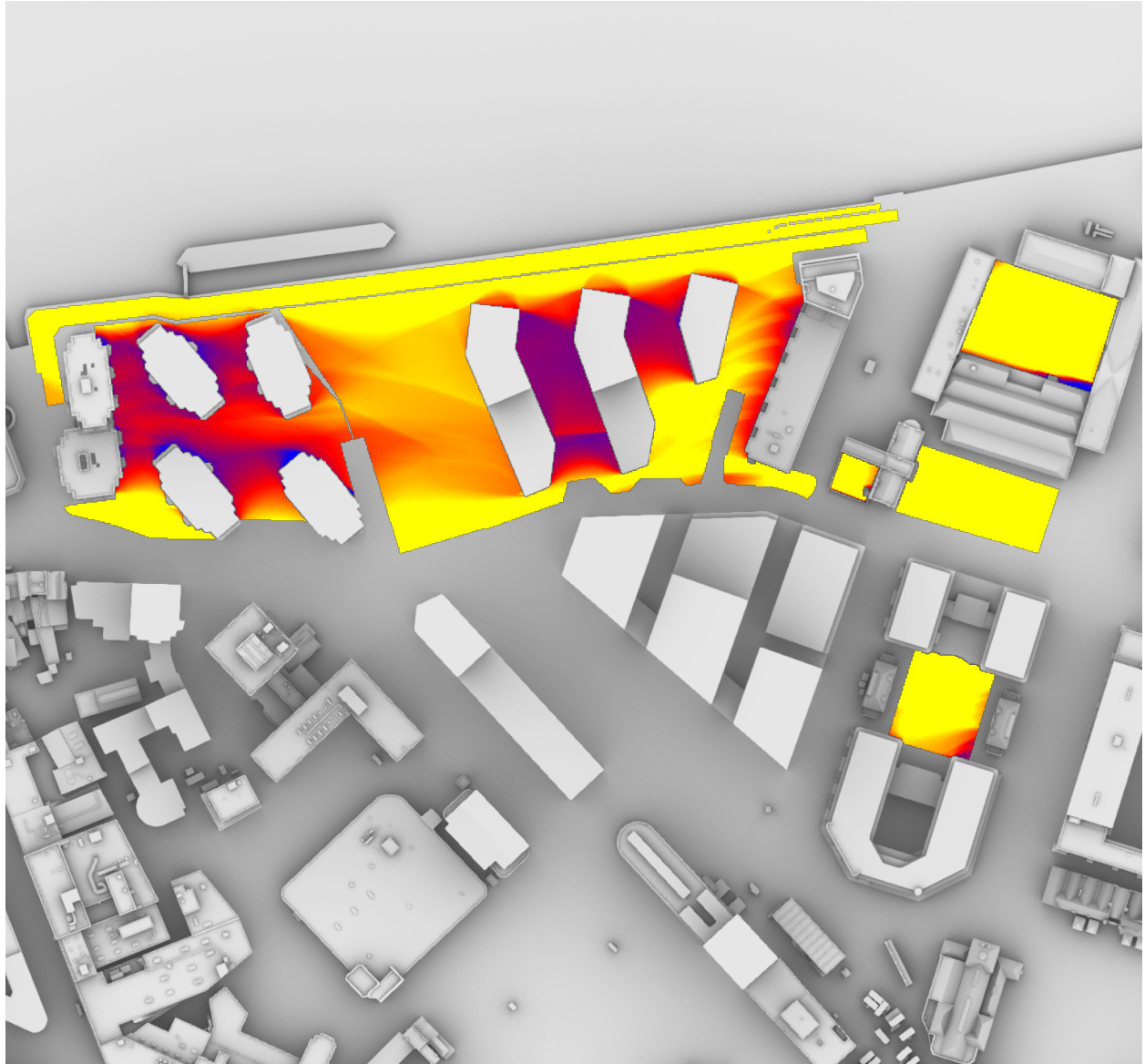
21st June
 (SUMMER SOLSTICE)

LONDON

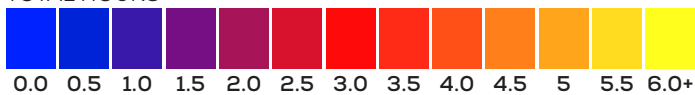
Latitude: 51.5
 Longitude: 0.0
 Sunrise: 04:43 GMT
 Sunset: 21:21 GMT

Total Available Sunlight:
 16hrs 38mins

OVERSHADOWING ASSESSMENT -PROPOSED
 SUN EXPOSURE ON GROUND - 21ST JUNE (SUMMER SOLSTICE)



SUN EXPOSURE
 TOTAL HOURS



21st June
 (SUMMER SOLSTICE)

LONDON

Latitude: 51.5
 Longitude: 0.0
 Sunrise: 04:43 GMT
 Sunset: 21:21 GMT

Total Available Sunlight:
 16hrs 38mins



For further details please contact us on:

LONDON

T 020 7202 1400

E mail@gia.uk.com

The Whitehouse
Belvedere Road
London SE1 8GA

MANCHESTER

T 0161 672 5100

E manchester@gia.uk.com

2 Commercial Street
Manchester
M15 4RO

BELFAST

T 02892 449 674

E belfast@gia.uk.com

River House
48-60 High Street
Belfast BT1 2BE

BRISTOL

T 0117 374 1504

E bristol@gia.uk.com

33 Bristol
Colston Avenue
Bristol BS1 4UA

DUBLIN

T 020 7202 1400

E hello@giasurveyors.ie

77 Lower Camden Street
Dublin Ireland
D02 XE80