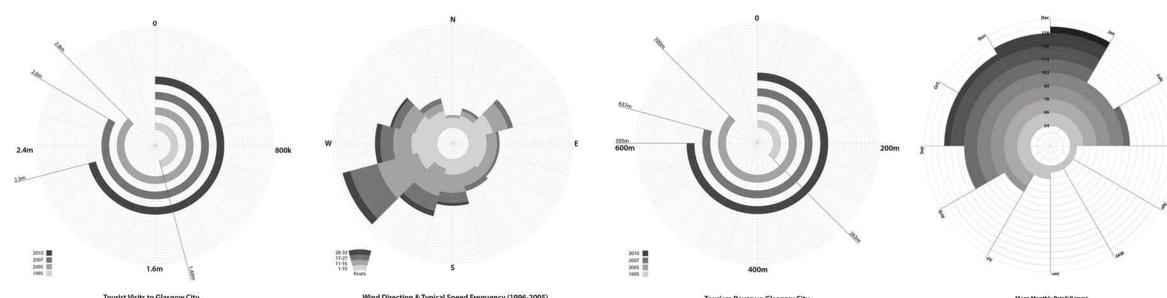
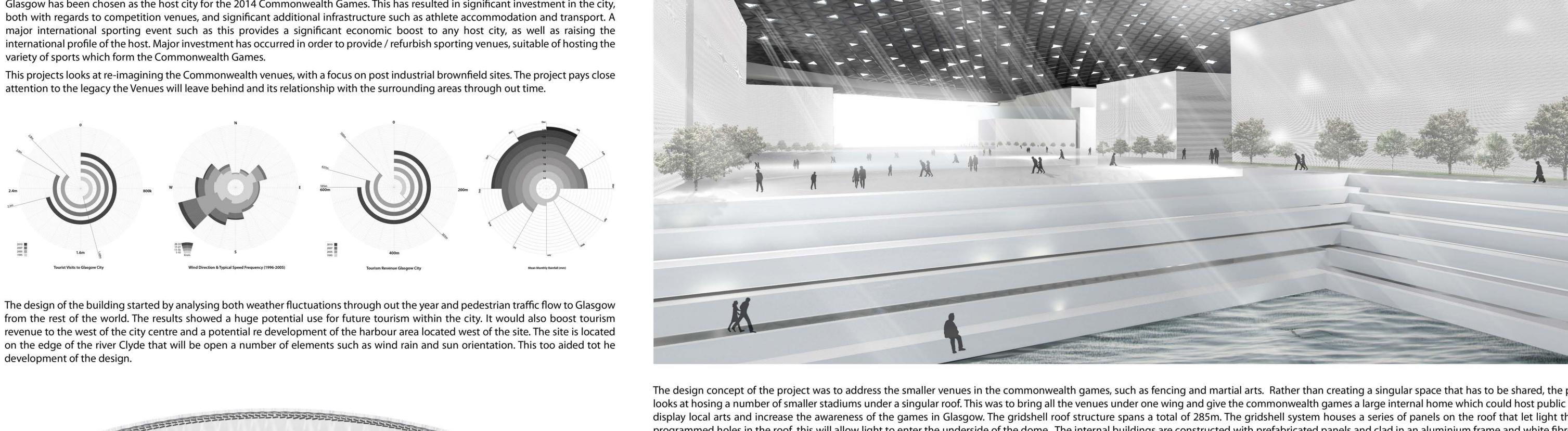




Glasgow has been chosen as the host city for the 2014 Commonwealth Games. This has resulted in significant investment in the city,

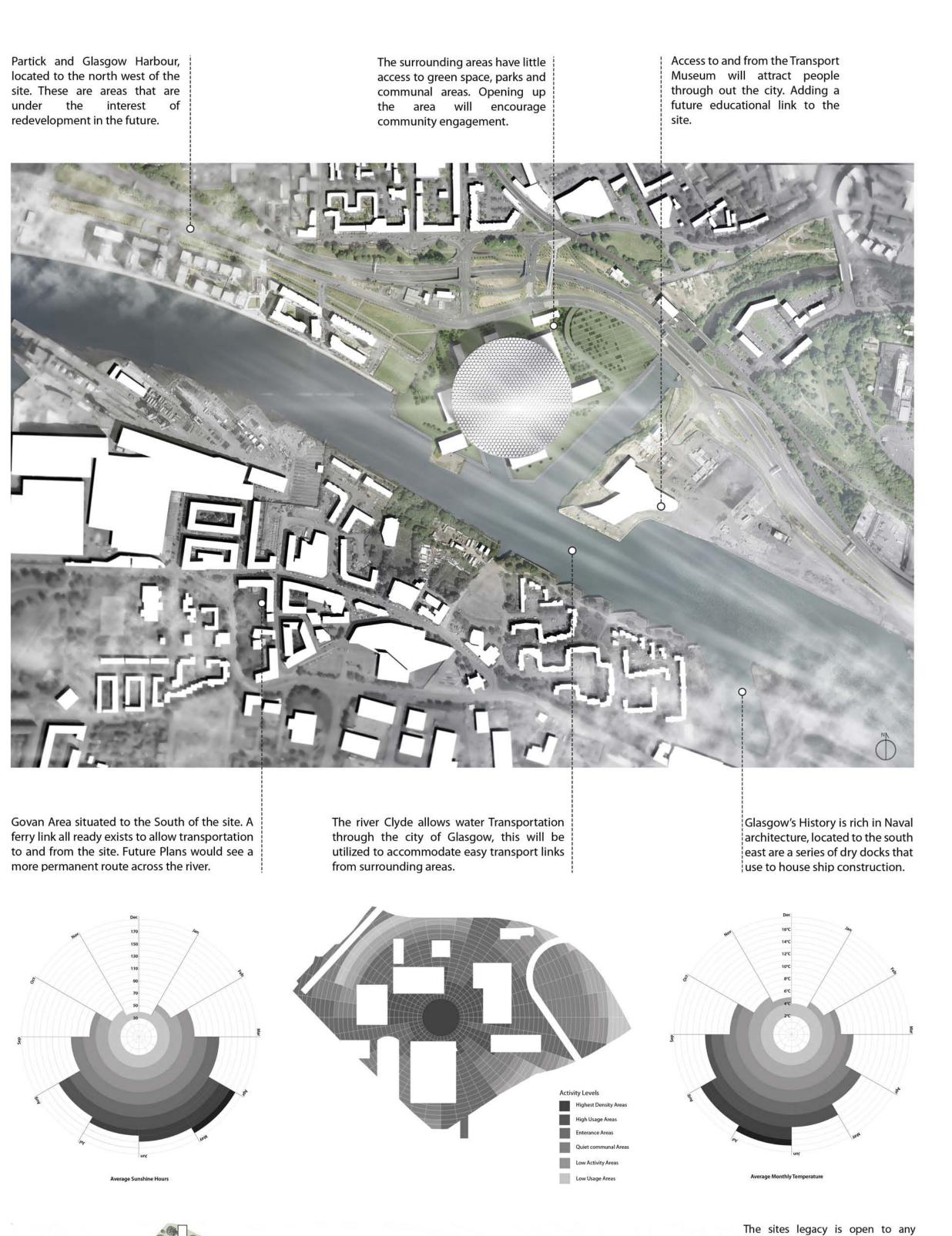






The design concept of the project was to address the smaller venues in the commonwealth games, such as fencing and martial arts. Rather than creating a singular space that has to be shared, the project looks at hosing a number of smaller stadiums under a singular roof. This was to bring all the venues under one wing and give the commonwealth games a large internal home which could host public events display local arts and increase the awareness of the games in Glasgow. The gridshell roof structure spans a total of 285m. The gridshell system houses a series of panels on the roof that let light through programmed holes in the roof, this will allow light to enter the underside of the dome. The internal buildings are constructed with prefabricated panels and clad in an aluminium frame and white fibre glass membrane to allow easy deconstruction for future projects after the games.

The building will look at harnessing the wind energy to provide the site with electricity. The internal space will provide shelter from the majority of the elements and allow use of the site even in bad weather

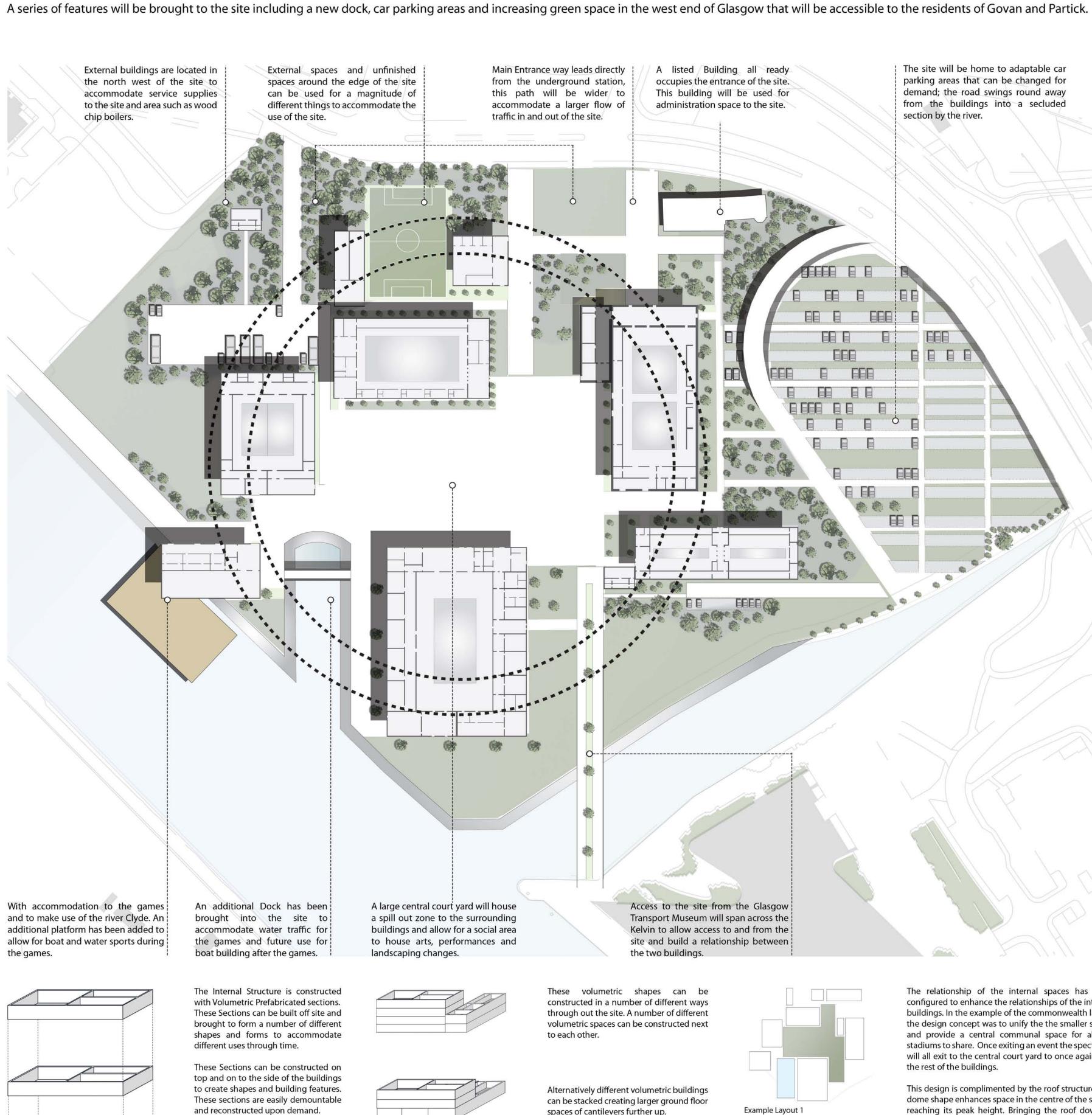


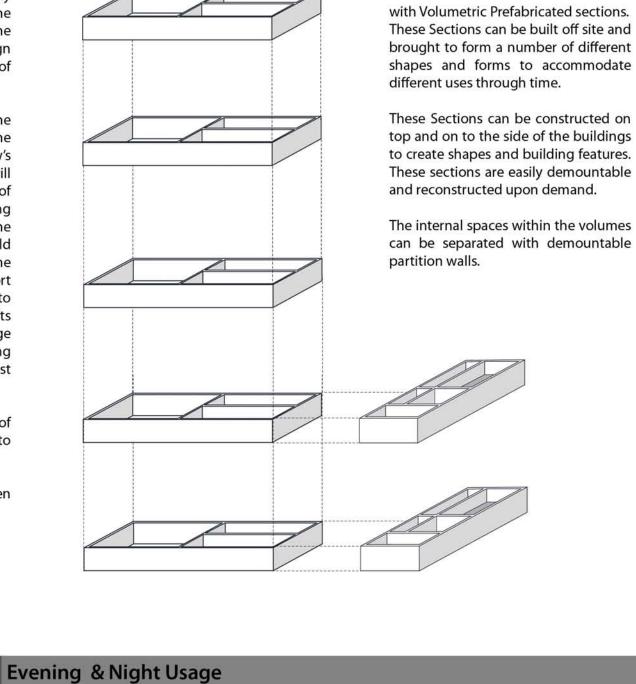
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**Glasgow Common Wealth Games 2014** 

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development that meets the

requirements similar to the

commonwealth games. The design

statement was to house a number of

In the example seen on the left the

site has been developed for the

merging of three of Glasgow's

colleges. This development will

transgress in the next couple of

years and the city is currently trying

to find a location to house the

colleges. The size of the site would

make very open campus for the college and the dock and transport

museum would allow integration to

a number of courses. Based on its

location it would also be a huge

push to develop the surrounding

areas and bring people to the west

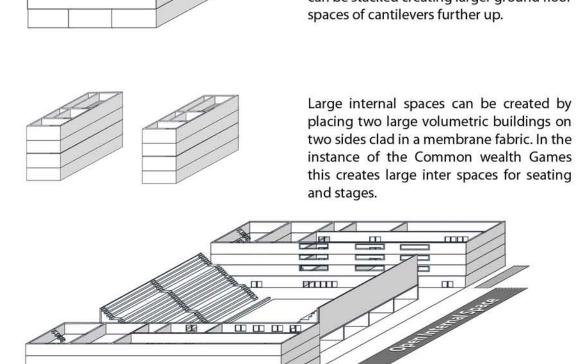
The College would be built up out of a number of smaller buildings to house the three different colleges.

The site would still promote green

space in the west of Glasgow.

of Glasgow.

venues under one roof.

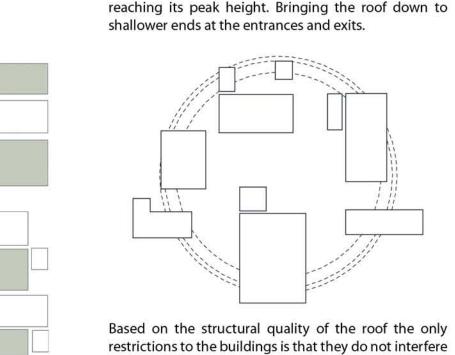


**Common Wealth Games 2014** 

The relationship of the internal spaces has been configured to enhance the relationships of the internal buildings. In the example of the commonwealth layout the design concept was to unify the the smaller sports and provide a central communal space for all the stadiums to share. Once exiting an event the spectators will all exit to the central court yard to once again join This design is complimented by the roof structure. The dome shape enhances space in the centre of the site by reaching its peak height. Bringing the roof down to shallower ends at the entrances and exits.

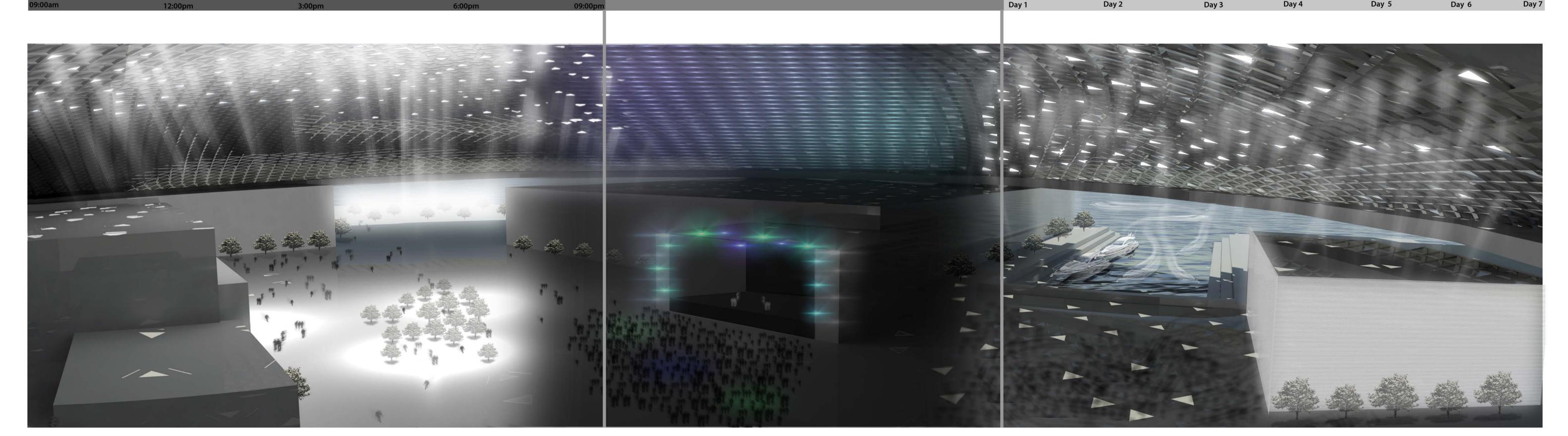
Example Layout 2

Example Layout 3



parts of the site.

with the buildings supports scattered across 7 different



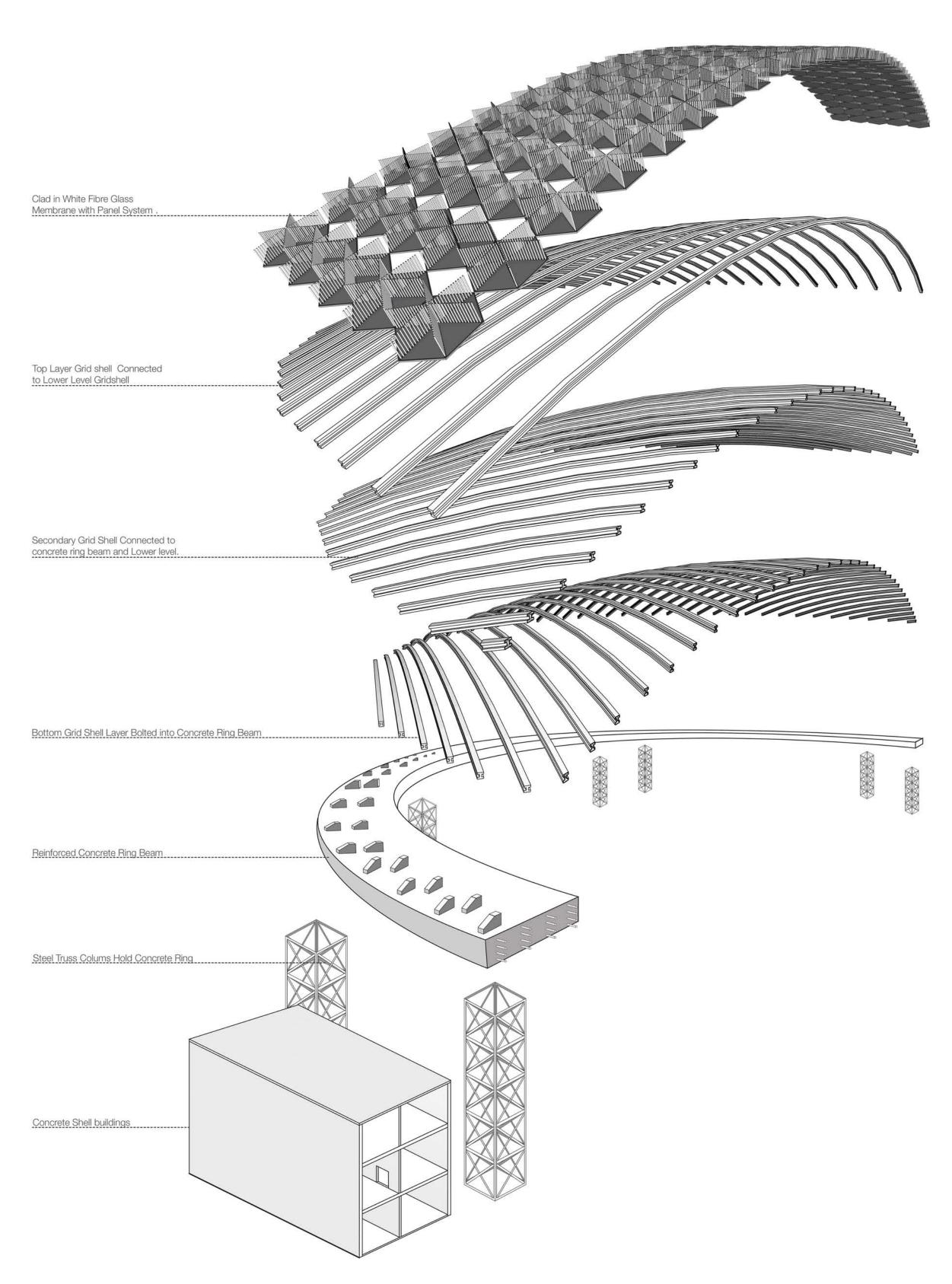


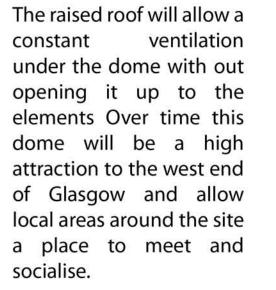


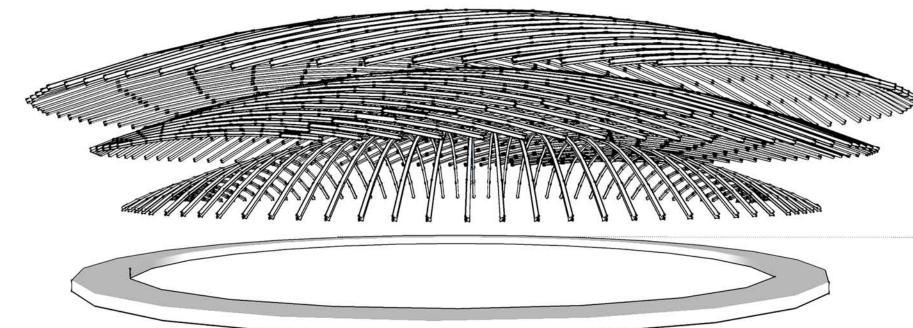
The entire site is covered in a three-layered Gris shell dome that will house the different buildings and events on the site. This Grid shell will sit on top of a large reinforced concrete ring beam that will be supported 15m off the ground using a series of steel columns. The span and the weight of the dome at the centre point is distributed through steel connectors of the grid shell and diminish into the concrete shell.

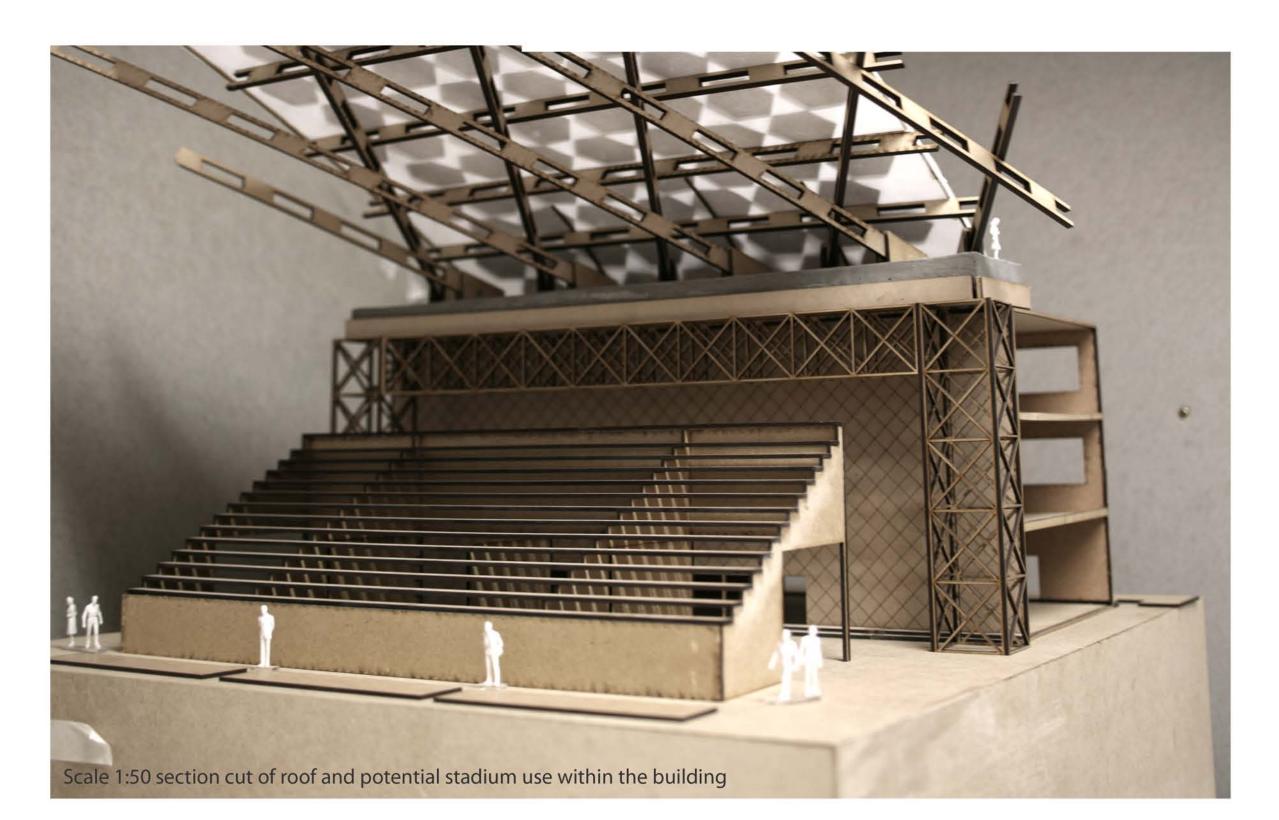
This covering is a permanent feature of the site and will allow for many activities to inhabit the internal space underneath it. Its hugely open space under the dome will encourage the local community to walk freely around and under the super structure. The specific shape will set a landmark in Glasgow and create a sense of identity for not only the commonwealth games but also future events and occupancy in the decades to come.

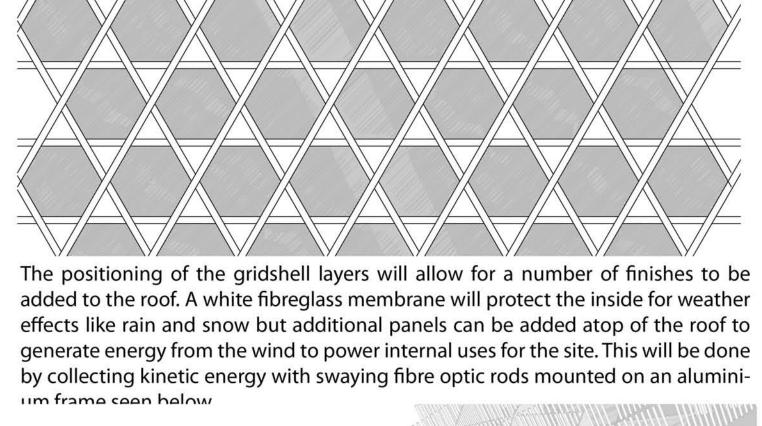
Relow Illustrates an isometric break up of the primary structure:











Scale 1:1000 model of proposed site plan.

