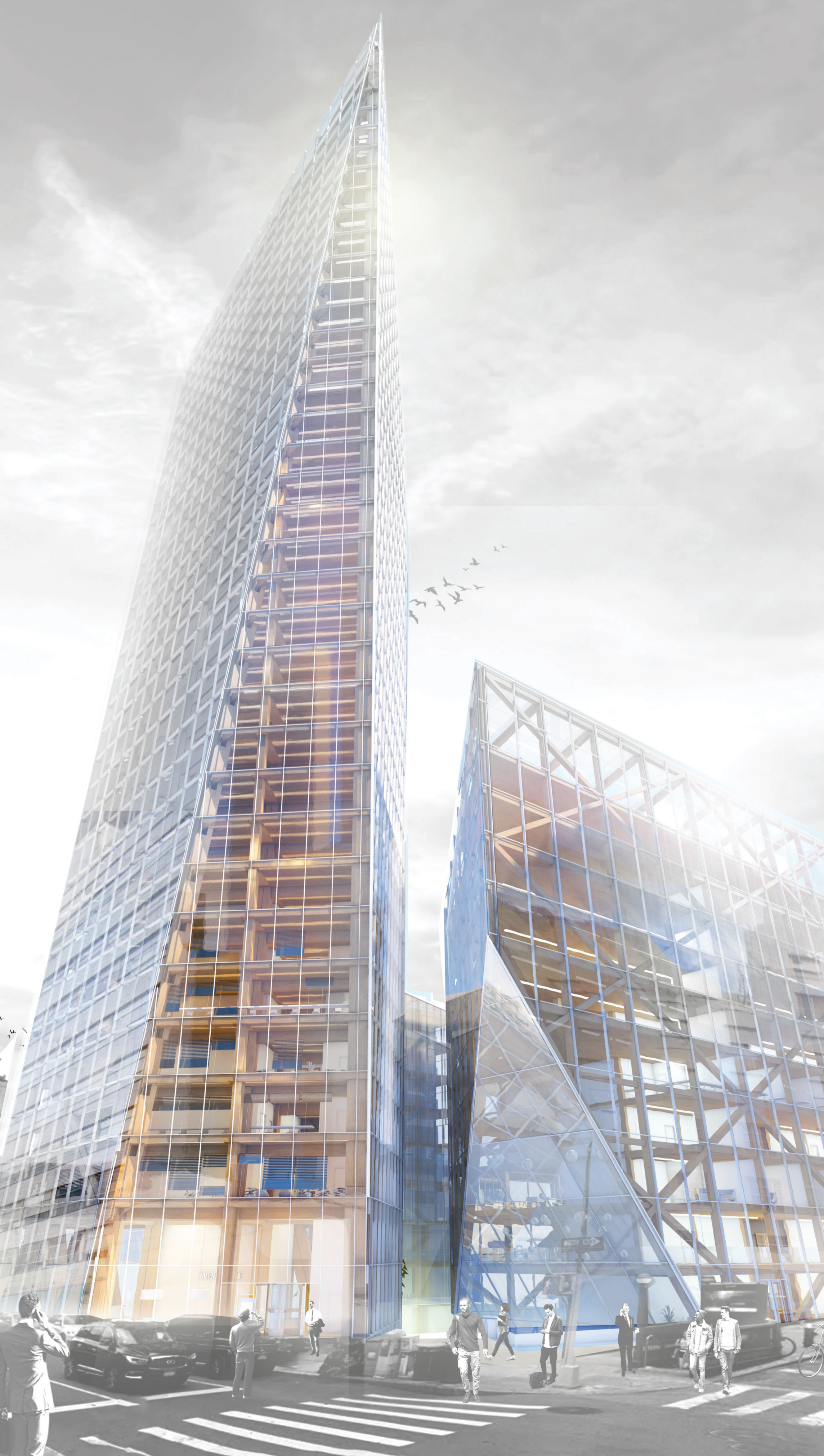


TALENT MACHINE

the platform for the exchange of skills, knowledge and information
North East Midtown Manhattan, New York



RESEARCH MIDTOWN MANHATTAN



New York is one of the most digitally connected cities in the world. Manhattan attracts many new-comers who bring various talents, skills and knowledge. North-East part of Midtown Manhattan has the most educated residents of the New York state.

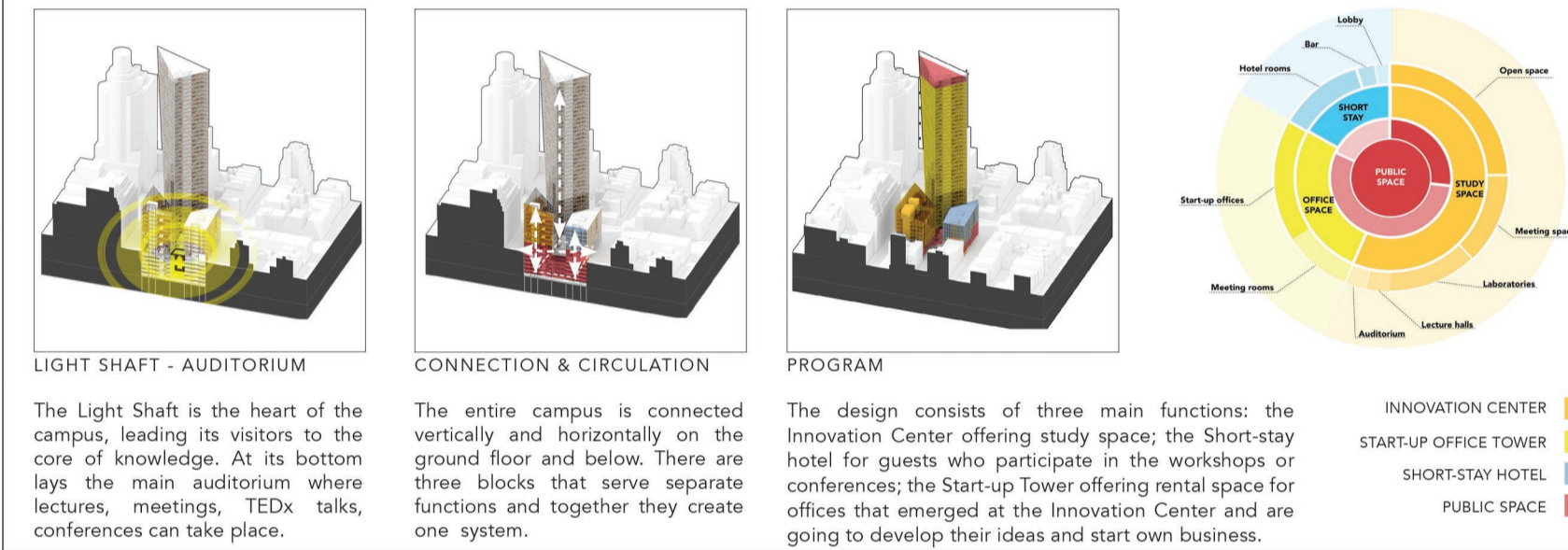
CHARETTE



POTENTIAL GROWTH OF MANHATTAN
In the city where no progress means regress, a constant growth must be provided. How to implement sustainability to ensure balance?

There is a need to provide balance in the city development and wellbeing. The proposal envisions a platform as an inspirational space where people can exchange their talents, skills and knowledge to give access to the new information.

DESIGN CONCEPT



LIGHT SHAFT - AUDITORIUM
The Light Shaft is the heart of the campus, leading its visitors to the core of knowledge. At its bottom lays the main auditorium where lectures, meetings, TEDx talks, conferences can take place.

CONNECTION & CIRCULATION
The entire campus is connected vertically and horizontally on the ground floor and below. There are three blocks that serve separate functions and together they create one system.

PROGRAM
The design consists of three main functions: the Innovation Center offering study space; the Short-stay hotel for guests who participate in the workshops or conferences; the Start-up Tower offering rental space for offices that emerged at the Innovation Center and are going to develop their ideas and start own business.

DESIGN VISION

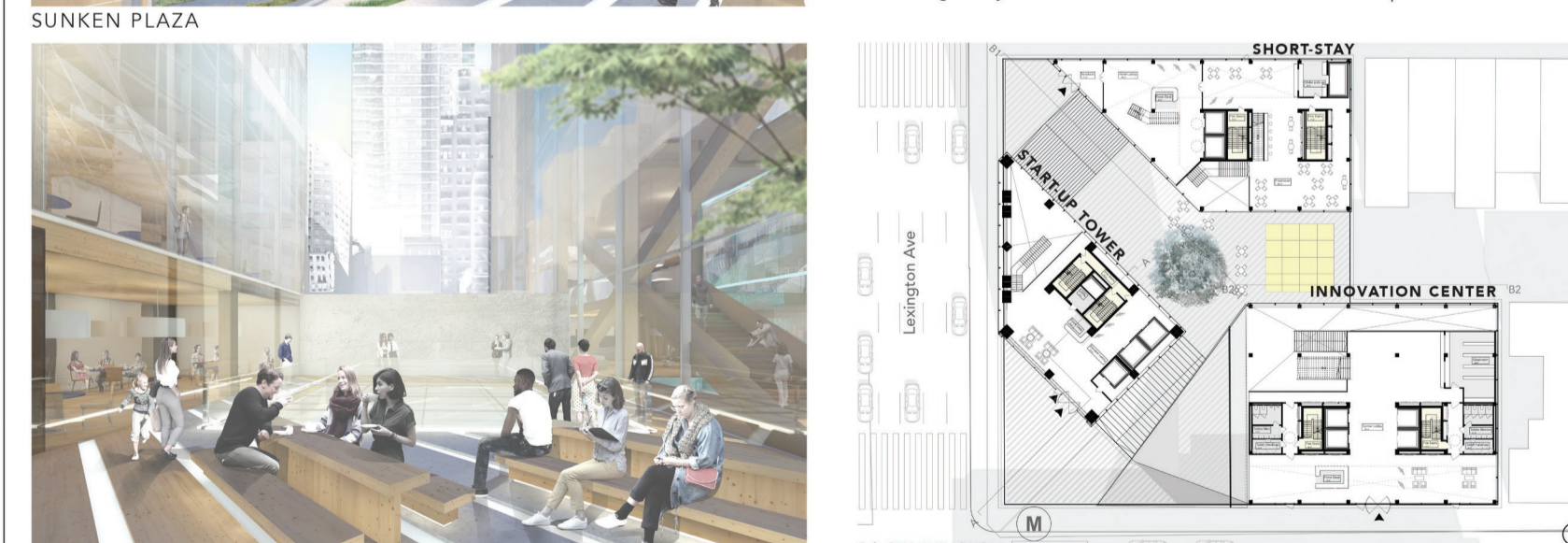


The Northeast quarter of Midtown Manhattan is recognized for its high architectural value being a site of such iconic buildings as Chrysler, Rockefeller Center, Trump Tower, Seagram Building, or Grand Central Terminal.

The site chosen for the design is strictly linked with Roosevelt Island, being an extension of Cornell Tech Campus to enhance the exchange of knowledge between professionals, students, researchers and scientists, but also inventors, developers, or science and innovation amateurs. The location of this new development is an intervention into the dense city grid, bringing inspiration closer to publicity and being easily accessible for visitors.

The site opens up towards the street corner with a tilted shape in order to create a wider public square at the tower's feet. From there, the 59th St/Lexington subway station is well accessible to the visitors. Above, the needle top of the triangular tower hovers over the square and marks the expressed corner of the block.

Public space plays an important role in the site design - sunken plaza is a semi-public circulation place between the Innovation Center, Start-up Tower and the Short-stay. Here the Light Shaft marks its presence, leading a curious eye down to its heart - the auditorium space underground where an intrigued visitor will be inspired to follow further.



The structure of the design is a hybrid of concrete and timber. The foundations, basement and the tower core are made of reinforced concrete, while the primary and secondary structure is made of glulam timber elements.

The glulam columns and beams give stability to lay prefabricated lignatur raised timber floor. To provide additional stability, the tower is braced with a timber exoskeleton which leads the lateral loads from the columns down to the concrete foundations. The column size reduces gradually towards the tower's top. The column span is 5m.

The facade is a lightweight curtain wall, glazed with spectrally-selective double glass. Highly-transparent glass exposes the interior's timber structure. The facade reduces the intake of solar heat transmitted by infrared light down to 2%, letting through up to 70% of sunlight. Such technology prevents the building from overheating. Water-based cooling panels installed in the rooms allow to cool down the offices in the summer. A water-based floor mat provides heating in winter. The water pump system is powered by a thin-film solar cell integrated in the window blinds on the South and East elevations.

