



EXPERIMENTAL ELEVATOR

Elevator Tower.
Render de proyecto. Estudio Leon11

LABORATORY TOWER

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Colectivo Leon11

Un Lugar que representa a una ciudad moderna, no puede ser un hito estático, un icono tradicional o un objeto perpetuo de valores subjetivos. Creemos que el símbolo de una ciudad con estas características tiene que ser un lugar para la Innovación, el Intercambio y la Accesibilidad personal.

Proponemos un Laboratorio Avanzado de Invención donde los procesos de la ingeniería, la arquitectura y la tecnología se puedan TESTAR. Se trata de un lugar que acompañe a la tecnología y al pensamiento. Se trata de un centro de Exposición y Producción de Ideas. Se trata de una torre viva.

Para conseguir esta percepción dinámica y la variabilidad de ecosistemas, se propone una estructura móvil capaz de adaptarse a sí mismo en la forma demandada.

Queremos que la imagen de la "Elevator Tower" sea un símbolo de las tecnologías más avanzadas. Muestra sus mecanismos internos para concienciar y desvelar las nuevas oportunidades que la tecnología acompañará en los futuros rascacielos. Perseguimos el ideal de que el futuro de la ocupación vertical, no sólo debatirá temas de forma, sino de Percepción y Aprovechamiento Urbano. Nuevos sistemas de desplazamiento vertical, y nuevos usos inexplorados harán que este tipo de edificación no construya sistemas de referencia, sino de investigación.

Los avances en los campos tanto científicos como sociales se podrán testar en "Elevator Tower". Un lugar a la vista de todos los ciudadanos.

Un centro de investigación capaz de generar un nuevo y sorprendente paisaje artificial o actual.

INVESTIGACIONES DEL CONTEMPORÁNEO "URBANISMO VERTICAL"

Actualmente, la necesidad de construir torres, (sobre todo en Dubai) no es sólo por un motivo de necesidad de espacio. Nosotros reclamamos la necesidad de una nueva percepción espacial que consideramos debería empezar a ser demandada. De la misma manera en que existe una planificación de Urbanismo horizontal, proponemos empezar a pensar verticalmente en los edificios que son ciudades.

LOS "VIAJES" VERTICALES

De la misma manera que caminar o moverse en horizontal tiene diferentes formas de desplazamiento (metro, a pié, coche...), velocidades y paisajes, proponemos viajes en sentido vertical que sugieran e Integren nuevos programas.

NUEVAS PERCEPCIONES: LA TORRE EN MOVIMIENTO

Para aprovechar y disfrutar esta dimensión en altura, proponemos nuevas tipologías de transporte Vertical.

Creemos que el mismo ascensor que nos ha transportado de un piso a otro durante un siglo no debería estar basado en el mismo sistema estratégico que el que ahora nos permite la tecnología y la ciencia para desplazarnos a lo largo de 100 plantas.

Proponemos el estudio de nuevas tipologías de soporte móvil que den lugar al estudio y construcción de nuevos prototipos que ayuden a disfrutar de la imprescindible dimensión vertical.

LA VARIABILIDAD

Esta propuesta convierte la torre en un elemento activo que participa en la distribución de sus usos. Queremos construir un lugar donde los programas de la torre se mueven según los usos y se adaptan a el número de usuarios que lo forman.

ESTRUCTURA DE ACTUALIZACIÓN

La Estructura que proponemos para la torre esta formada por:

Estructura Interior: formada por un núcleo de hormigón armado comprimido.

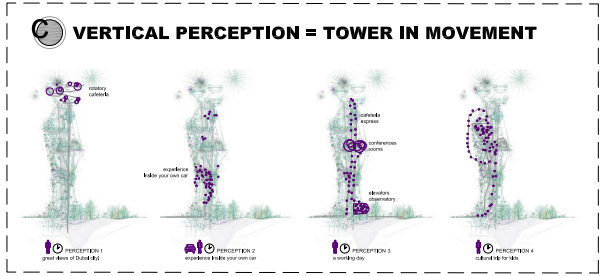
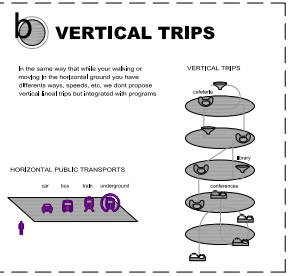
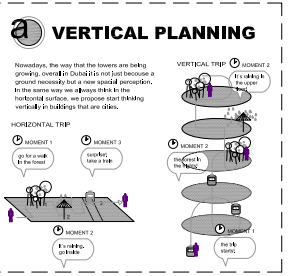
Estructura Exterior: formada por dos familias de cables a tracción.

Estructura en la parte superior de la Torre: un anillo de compresión que transmite las cargas de la estructura exterior a la interior.

*En vez de tener varios anillos de compresión a lo largo de la altura de la torre (como muestran los ejemplos de Ricolais), proponemos que cada programa de actividad genere un elemento rígido que funciona como elemento conector de la estructura interior y exterior. Estos núcleos rígidos de actividad de uso, se desplazan verticalmente mediante un sistema mecanizado colocado en el anillo superior de la torre. Este tipo de pensamiento estructural da lugar a la transformación constante de la imagen y forma de uso de la torre.

La Estructura que actualiza: Maquinaria que permite la modificación de la torre a través de los cables de la estructura a tracción.

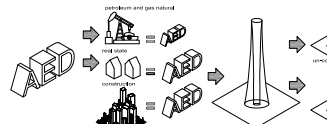
Proponemos una nueva visión para la construcción vertical, donde su objeto no esté basada en el apilamiento espacial, sino en la innovación del cambio perceptivo-social y el desarrollo tecnológico.



WHY AN EXPERIMENTAL ELEVATOR TOWER?

1 ECONOMIC PARAMETERS

Our main research in the creation of the tower's structure are from trade, regions and financial markets. Research from political and cultural can contribute from 1% to 20% of Dubai's economy (2005). Real estate and construction, on the other hand, contributed 22.6% to the economy in 2005.



2 ECONOMIC PARAMETERS

The E.L.T. constitute a financial and technical center with a world representation. According Dubai position in the world, the E.L.T. place is strategically located in the middle path between London and Singapore.



3 ECONOMIC INDUSTRIAL PARAMETERS

DUBAI BIOTECH

- Official, develop and advance research and development in the region.
- Private and public education, training and industry support.
- Other rights development: intellectual properties and other.
- Create and provide a supportive legal and regulatory environment.
- Building a knowledge-based economy for the region.



4 SOCIAL PARAMETERS

Technopark

- We attract direct investment in manufacturing and research and development, and also lead the way in the field of applied science and technology.
- Technopark area covers 2.1 million square meters of land, about 30 percent of which is open space areas.
- Bring the most advanced opportunities to the world together, fostering shared understanding through research, R&D and development of new technologies.
- Allow to acquire greater knowledge for the future, by promoting continuous innovation and progress.



5 CLIMATIC PARAMETERS

DUBAI SILICON OASIS

- The GCC and MENA region also constitute the largest Hi-Tech market in the world.
- Abundant and low cost supply of electrical power, along with the high-income levels of the GCC countries, present a favorable opportunity for high-technology start and venture companies.
- Abundant business world-class tourism and long small firm and processed manufacturing products.



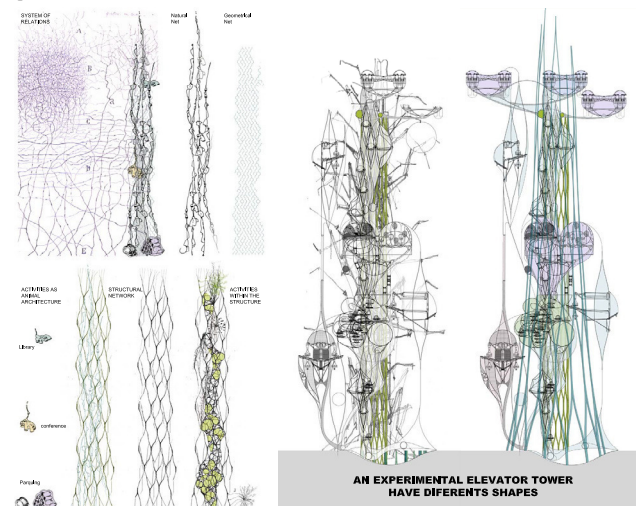
6 CLIMATIC PARAMETERS

AMMAN

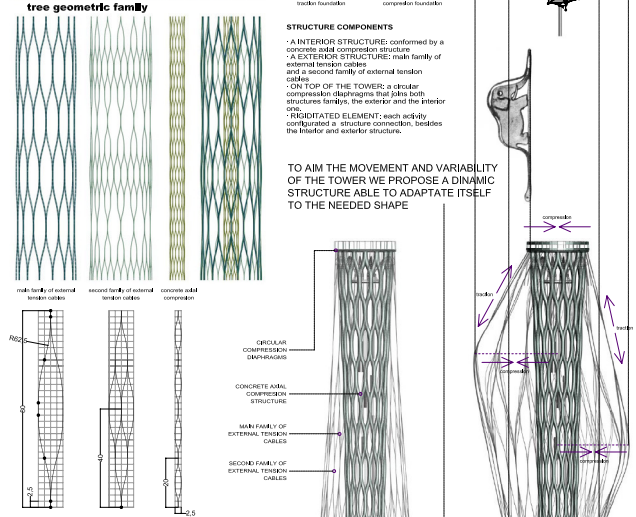
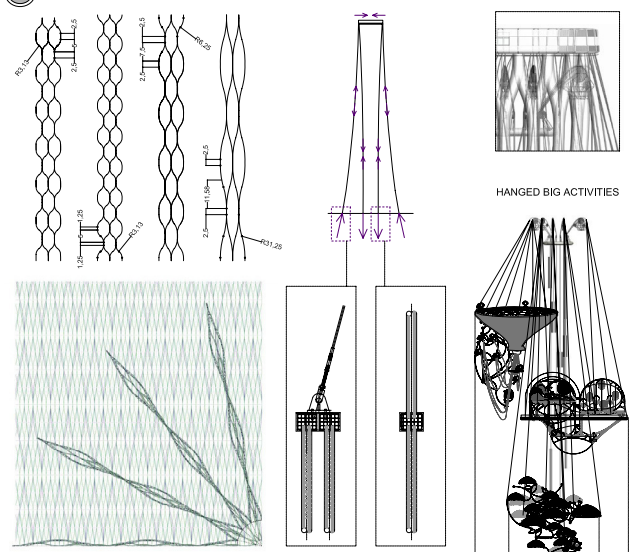
AVERAGE AND TOTAL TEMPERATURES

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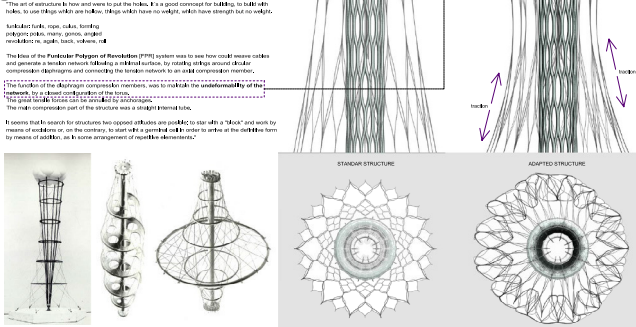
PRODUCTION SEEDS



LOOKING FOR THE GEOMETRY



ROBERT LE RICOLAIS



ThyssenKrupp Elevators

Oscillator - Type 1 CAFETERIA.

It serves for the passengers' changeable transport and goods.

2 EXTERNAL ELEVATOR LARGELY TOWER

ThyssenKrupp

MACHINES DETAILS

ELEVATION

DETAIL ELEVATION

PLAN

DETAIL PLAN

Electric hoist

CAPACITY	ACCES	VEL.	SUSP.	CABIN	CB	CA	CB	HOLLOW	HA	HB	R.L.S.	PH	DOORS
Kg	Prop.	m/s		CA	CB	Height	HA	HB	HA	HB	R.L.S.	PH	P
1000 13	Un-embague	0.5	1.2	11500	1750	2570	6000	3000	2800	0	900		
1000 13	Doble a 180°	0.5	1.2	11500	1750	2570	6000	3000	2800	0	900		
1000 13	Banco Duplex	0.5	1.2	11500	1750	2570	6000	3000	2800	0	900		
1000 20	Un-embague	0.5	1.2	11500	1750	2570	6000	3000	2800	0	1200		
1500 20	Doble a 180°	0.5	1.2	11500	1750	2570	6000	3000	2800	0	1200		
1500 20	Banco Duplex	0.5	1.2	11500	1750	2570	6000	3000	2800	0	1200		
2000 28	Un-embague	0.5	1.2	12100	1750	2570	6000	3000	2800	0	1800		
2000 28	Doble a 180°	0.5	1.2	12100	1750	2570	6000	3000	2800	0	1800		

ThyssenKrupp Elevators

Elevator - Type 2 CONFERENCE ROOMS

It serves for the passengers' changeable transport and goods.

ThyssenKrupp

MACHINES DETAILS

DETAIL SECTION

DETAIL PLAN

DETAIL SECTION

DETAIL ELEVATION

PLAN

ELEVATION

Electric hoist

CAPACITY	ACCES	VEL.	SUSP.	CABIN	CB	CA	CB	HOLLOW	HA	HB	R.L.S.	PH	DOORS
Kg	Prop.	m/s		CA	CB	Height	HA	HB	HA	HB	R.L.S.	PH	P
400 5	Un-embague	0.5	1.2	3000	1750	4000	6000	12100	20500	0	900		
400 5	Doble a 180°	0.5	1.2	3000	1750	4000	6000	12100	20500	0	900		
400 5	Banco Duplex	0.5	1.2	3000	1750	4000	6000	12100	20500	0	900		
1000 20	Un-embague	0.5	1.2	6250	1750	6000	6000	12100	20500	0	1200		
1000 20	Doble a 180°	0.5	1.2	6250	1750	6000	6000	12100	20500	0	1200		
1000 20	Banco Duplex	0.5	1.2	6250	1750	6000	6000	12100	20500	0	1200		
3600 44	Un-embague	0.5	1.2	8960	1750	17000	17000	12100	20500	0	1800		
3600 44	Doble a 180°	0.5	1.2	8960	1750	17000	17000	12100	20500	0	1800		

ThyssenKrupp Elevators

Elevator - Types 3 and 4 INFRESTRUCTURE

It serves for changeable transport and goods.

ThyssenKrupp

MACHINES DETAILS

DETAIL SECTION

DETAIL PLAN

DETAIL SECTION

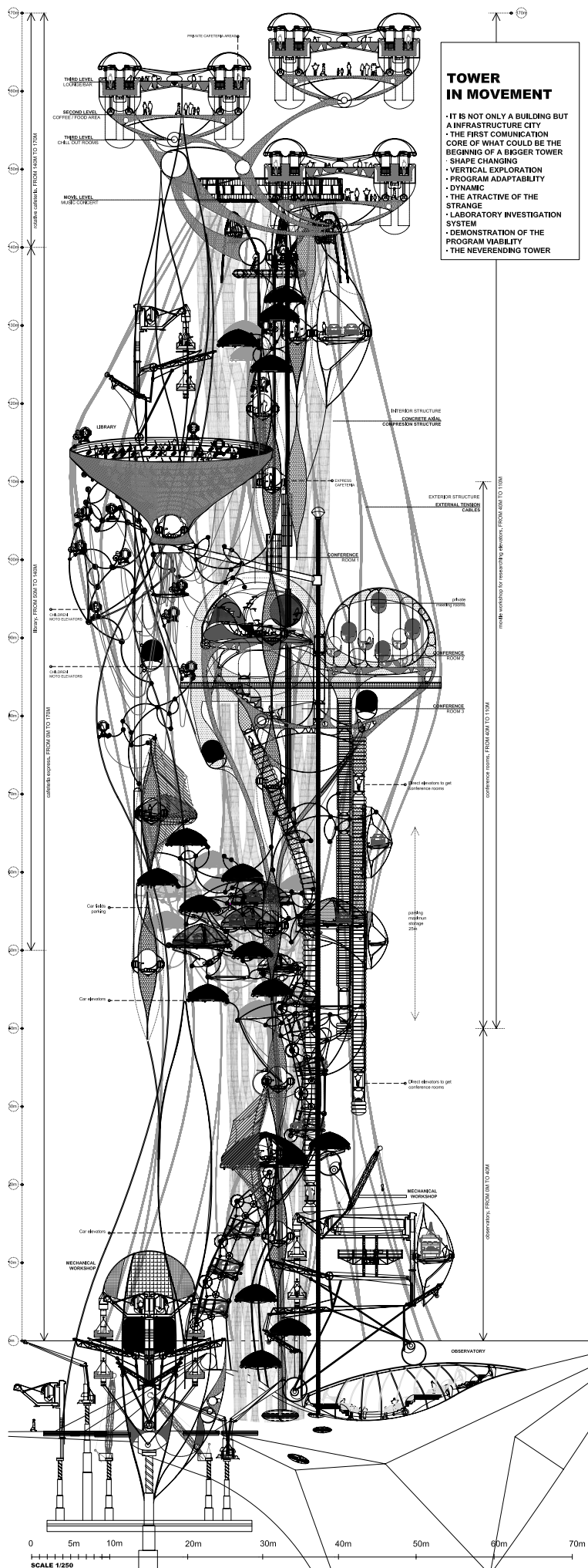
DETAIL ELEVATION

PLAN

ELEVATION

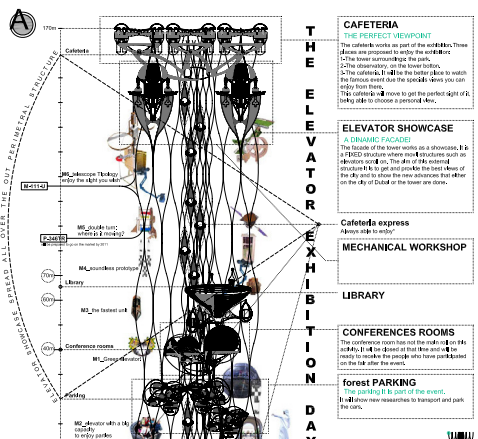
Electric hoist

CAPACITY	ACCES	VEL.	SUSP.	CABIN	CB	CA	CB	HOLLOW	HA	HB	R.L.S.	PH	DOORS
Kg	Prop.	m/s		CA	CB	Height	HA	HB	HA	HB	R.L.S.	PH	P
1000 13	platform	0.5	1.2	20000	1000	1000	21945	7410	9200	0			
2000 28	platform	0.8	1.0	30010	800	1000	21945	7410	8200	0			
2000 28	platform	0.5	1.2	30010	800	1000	21945	7410	9200	0			
1000 13	platform	0.5	1.2	17870	17870	24250	24250	5200	5410	7600			
1000 13	platform	0.5	1.2	17870	17870	24250	24250	5200	5410	7600			
1000 13	platform	0.5	1.2	17870	17870	24250	24250	5200	5410	7600			



TOWER IN MOVEMENT

- IT IS NOT ONLY A BUILDING BUT AN INFRASTRUCTURE CITY
- THE FIRST COMMUNICATION CORE OF WHAT COULD BE THE BEGINNING OF A BIGGER TOWER
- SHAPE CHANGING
- VERTICAL EXPLORATION
- PROGRAM ADAPTABILITY
- DYNAMIC
- THE ATTRACTIVE OF THE STRANGE
- LABORATORY INVESTIGATION SYSTEM
- DEMONSTRATION OF THE PROGRAM VIABILITY
- THE NEVERENDING TOWER



THE ELEVATOR EXHIBITION DAY

CAFETERIA THE PERFECT VIEWPOINT
The cafeteria works as part of the exhibition. Three floors are proposed to enjoy the exhibition. The tower surrounds the park. The cafeteria will be the main attraction. The cafeteria will be the main attraction. The cafeteria will be the main attraction.

ELEVATOR SHOWCASE A DYNAMIC FACADE
The facade of the tower will be a dynamic facade. It will be a dynamic facade. It will be a dynamic facade.

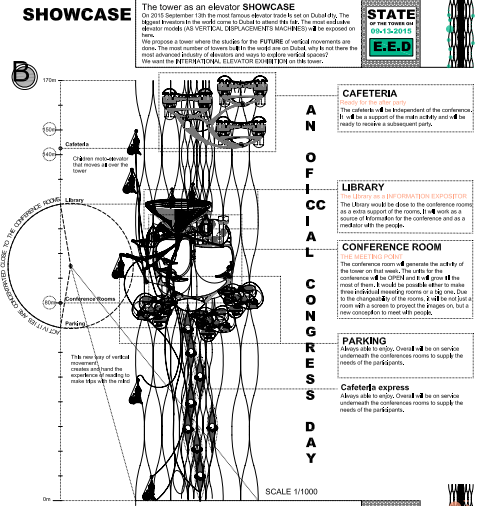
CAFETERIA EXPRESS
Allowable to enjoy the exhibition.

MECHANICAL WORKSHOP
Providing the necessary infrastructure and water to maintain the tower.

LIBRARY
Providing the necessary infrastructure and water to maintain the tower.

CONFERENCE ROOMS
The conference rooms will be a dynamic facade. It will be a dynamic facade. It will be a dynamic facade.

FOREST PARKING
The parking lot will be a dynamic facade. It will be a dynamic facade. It will be a dynamic facade.



SHOWCASE

The tower as an elevator showcase. On 20th September 2010 the most famous elevator showcase in Dubai. The tower will be a dynamic facade. It will be a dynamic facade. It will be a dynamic facade.

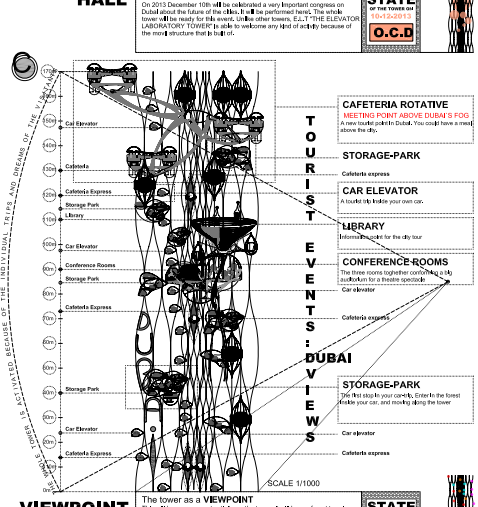
CAFETERIA
The cafeteria will be a dynamic facade. It will be a dynamic facade. It will be a dynamic facade.

LIBRARY
Providing the necessary infrastructure and water to maintain the tower.

CONFERENCE ROOM
The conference rooms will be a dynamic facade. It will be a dynamic facade. It will be a dynamic facade.

PARKING
The parking lot will be a dynamic facade. It will be a dynamic facade. It will be a dynamic facade.

CAFETERIA EXPRESS
Allowable to enjoy the exhibition.



HALL

The tower as a hall. On 20th September 2010 the most famous hall showcase in Dubai. The tower will be a dynamic facade. It will be a dynamic facade. It will be a dynamic facade.

CAFETERIA ROTATIVE
The cafeteria will be a dynamic facade. It will be a dynamic facade. It will be a dynamic facade.

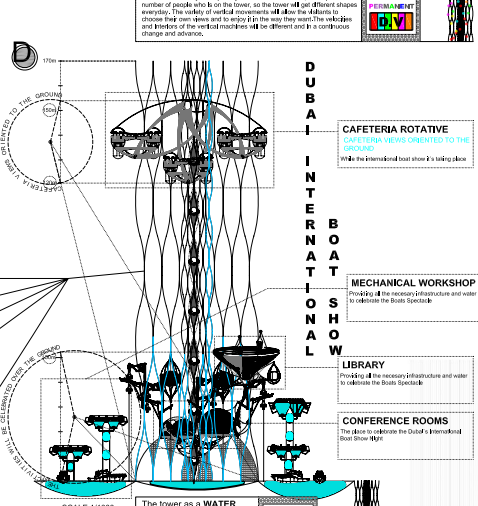
STORAGE-PARK
The storage park will be a dynamic facade. It will be a dynamic facade. It will be a dynamic facade.

CAR ELEVATOR
A car elevator will be a dynamic facade. It will be a dynamic facade. It will be a dynamic facade.

LIBRARY
Providing the necessary infrastructure and water to maintain the tower.

CONFERENCE ROOMS
The conference rooms will be a dynamic facade. It will be a dynamic facade. It will be a dynamic facade.

STORAGE-PARK
The storage park will be a dynamic facade. It will be a dynamic facade. It will be a dynamic facade.



VIEWPOINT

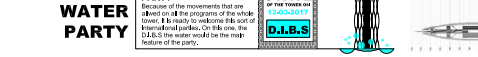
The tower as a viewpoint. This will be a permanent facility on the tower. It will be a permanent facility on the tower. It will be a permanent facility on the tower.

CAFETERIA ROTATIVE
The cafeteria will be a dynamic facade. It will be a dynamic facade. It will be a dynamic facade.

MECHANICAL WORKSHOP
Providing the necessary infrastructure and water to maintain the tower.

LIBRARY
Providing the necessary infrastructure and water to maintain the tower.

CONFERENCE ROOMS
The conference rooms will be a dynamic facade. It will be a dynamic facade. It will be a dynamic facade.



WATER PARTY

The tower as a water party. This will be a permanent facility on the tower. It will be a permanent facility on the tower. It will be a permanent facility on the tower.

CAFETERIA ROTATIVE
The cafeteria will be a dynamic facade. It will be a dynamic facade. It will be a dynamic facade.

MECHANICAL WORKSHOP
Providing the necessary infrastructure and water to maintain the tower.

LIBRARY
Providing the necessary infrastructure and water to maintain the tower.

CONFERENCE ROOMS
The conference rooms will be a dynamic facade. It will be a dynamic facade. It will be a dynamic facade.

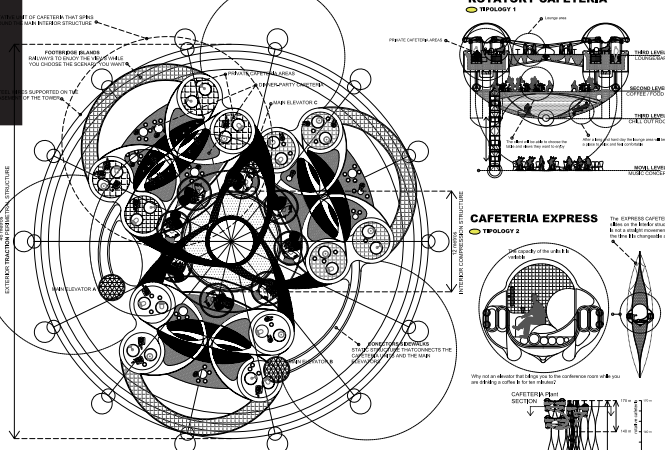


3 EXPERIMENTAL FINANCE LABORATORY TOWER

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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VIEWPOINT CAFETERIA

A MOVIE STRUCTURE WHICH ALLOWS TO ENJOY THE BEST VIEWS!
What if all the tables have the best views and you can choose what you want to look at?

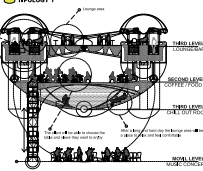


TP01 ROTATORY CAFETERIA TP02 CAFETERIA EXPRESS

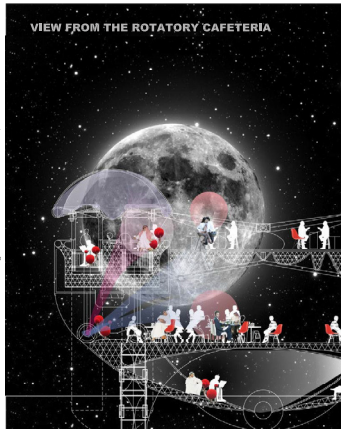
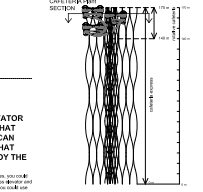
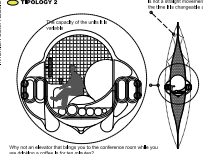
OUR CHANCES AND ADVANTAGES:

- WHAT IF... YOU CAN CHOOSE YOUR FAVORITE VIEWS OF DUBAI FROM YOUR OWN TABLE?** The program is a circular structure with a central core and multiple levels of seating. Each table is positioned to offer a unique view of the city or the tower itself.
- WHAT IF... YOU CAN ENJOY A QUIET MEAL OR A BIG EVENT MEAL IN THE SAME CAFETERIA?** The design allows for flexible seating arrangements, from intimate tables to large communal areas.
- WHAT IF... YOU CAN HAVE A TEA WHILE YOU ARE GOING UP IN THE TOWER?** The cafeteria is integrated with the tower's vertical circulation, allowing for a dining experience during the ascent.
- WHAT IF... THE ELEVATOR ROUTE IS THE ONE THAT YOU SELECT? YOU CAN CHOOSE THE TIME THAT YOU WANT TO ENJOY THE VIEW?** The program is designed to be accessed via different elevator shafts, offering varying views and experiences.

ROTATORY CAFETERIA



CAFETERIA EXPRESS



CHILDREN LIBRARY



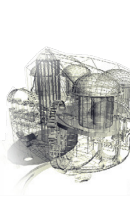
CONFERENCE ROOM



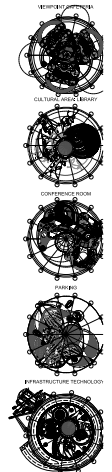
ELEVATOR TOOLBOX



ROTATORY CAFETERIA



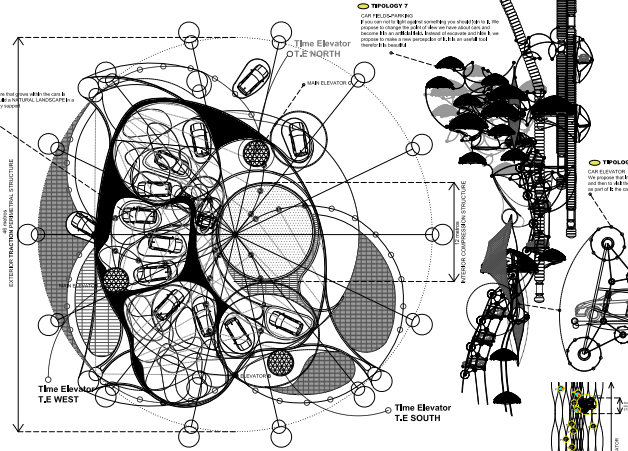
4 EXPERIMENTAL ELEVATOR TECHNOLOGIES



PROGRAMS IN AN AUTO & PARKING

A "GREEN" WAY TO ENJOY AND LOOK AT THE CARS

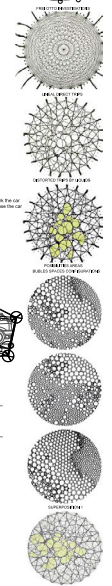
What if a car would be a nice part of the program instead of something to hide?



TP06 CAR ELEVATOR TP07 STORAGE-PARK

OUR CHANCES AND ADVANTAGES:

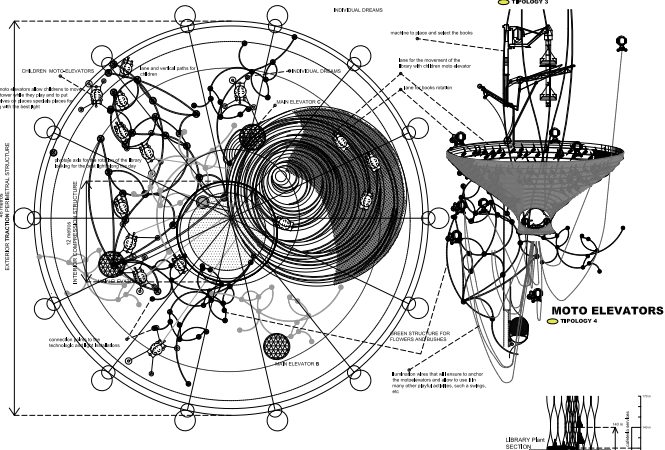
- WHAT IF... YOU CAN MOVE ALONG THE TOWER INSIDE YOUR OWN CAR?** The program allows for a car to be used as a mobile office or living space, moving up and down the tower.
- WHAT IF... A CAR WOULD BE A NICE PART OF THE PROGRAM INSTEAD OF SOMETHING TO HIDE?** The design integrates cars into the tower's structure, making them a central part of the experience.



CULTURAL AREA: LIBRARY

A LIBRARY THAT MOVES FOLLOWING THE SUN LIGHT

What if the library is always where the light and environment is NATURAL? = do not waste energy!

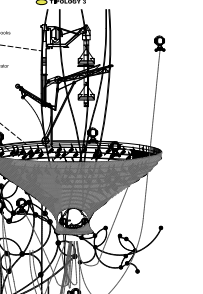


TP03 ROTATORY LIBRARY TP04 KYDS ELEVATORS

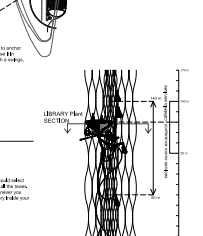
OUR CHANCES AND ADVANTAGES:

- WHAT IF... THE LIBRARY COULD ROTATE AUTOMATICALLY LOOKING FOR THE PERFECT NATURAL SUNLIGHT?** The library is designed to rotate and move vertically to always be in the best position to receive natural light.
- WHAT IF... YOU COULD SELECT YOUR BOOK AND READ IT INSIDE YOUR CABIN, IN THE PART OF THE TOWER THAT YOU SELECT?** The program allows for a personalized reading experience, with books and reading areas integrated into the tower's structure.

CHILDREN LIBRARY



MOTO ELEVATORS

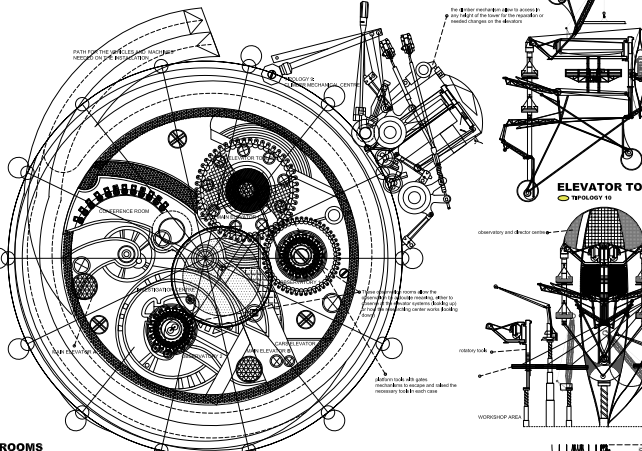


INFRASTRUCTURE TECHNOLOGY

A RESEARCH AREA

A SHOWCASE TO DISPLAY THE FUTURE TECHNOLOGIES AND THE MOST ADVANCED ELEVATOR DESIGNS

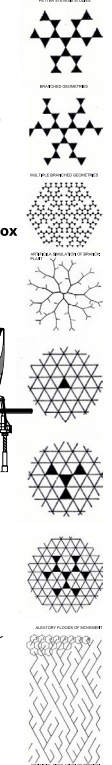
CLIMBER MECHANICAL CENTRE



TP08 MECHANICAL WORKSHOP TP09 OBSERVATORY

OUR CHANCES AND ADVANTAGES:

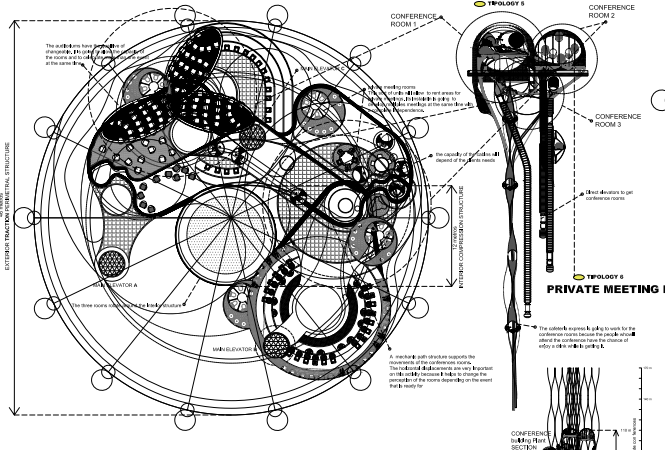
- WHAT IF... THE ELEVATOR INFRASTRUCTURE PERMITS THE FUTURE DEVELOPMENT OF ALL ELEVATORS TYPES?** The program is designed to showcase and test various elevator technologies, from traditional to futuristic.
- WHAT IF... YOU COULD OBSERVE THE ELEVATORS SHOW FROM THE BASEMENT OF THE TOWER?** The program allows for a unique viewing experience, showing the inner workings of the tower's vertical transport system.



CONFERENCE ROOM

A MEETING POINT EQUIPED AND ABLE FOR ANY KIND OF EVENT

What if an ALL-PURPOSE is not only to move walls, but MOVE THE ROOMS?

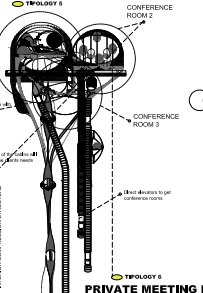


TP05 CONFERENCE ROOMS

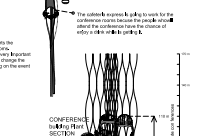
OUR CHANCES AND ADVANTAGES:

- WHAT IF... YOU COULD SELECT THE KIND OF MEETING YOU NEED?** The program allows for different meeting configurations, from formal boardrooms to casual meeting areas.
- WHAT IF... YOU COULD CONNECT YOUR CONFERENCE HALL WITH ANOTHER PROGRAM THAT YOU NEED, INSIDE THE TOWER?** The program is designed to be integrated with other tower programs, allowing for a seamless experience.

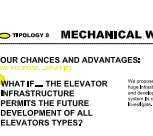
CONFERENCE ROOM



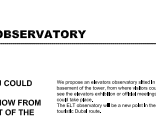
PRIVATE MEETING ROOMS



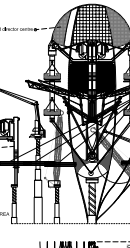
MECHANICAL WORKSHOP



OBSERVATORY



ELEVATOR TOOLBOX



FLOOR PLANTS SCALE 1/300

>The image of the elevator tower is a symbol of the most advanced technologies. Shows its internal mechanisms to amazed dubaities with the new possibilities that technology can bring us to live in the new skyscrapers. New systems of vertical displacement, new types of movements, and new unexplored programs. Progress in these areas will be tested in the tower in view of all citizens as a major research center capable of generating a new and surprising landscape.



5 EXPERIMENTAL
PREPARATION
ELEVATOR TOWER

06 | DISEÑO

