



AVIS CONSTRUCTION BUDGET
GLOBAL ENERGY



SPAIN



Turks and Caicos Islands

Cayman Islands

Jamaica

Puerto Rico

Montserrat

Dominica

St Lucia

Grenada

Aruba

Curaçao



AVIS has been offered 85km x 48km land for the construction of a green nano high-tech industrial smart city for up to 10 million peoples

The AVIS Team will consider for entering into the construction with the authorization from the Central Bank of repatriate €500bln off-balance capital

COLOMBIA



BRAZIL

GLOBAL BUDGED FOR CONSTRUCTIONS UNDER DEVELOPMENT FOR 65 COUNTRIES

Corporation Project Name	Location	Project short	2005-2023 Status	Project Budget
AVIS Capital Limited (ACAP)	London	Group Treasurer Capital Manager	Fully paid and under production	26.000.000.000 €
AVIS Global Green Energy Fund Limited	London	Group Treasurer Capital Manager	HSBC Capital deposit 2017 until 2027 plus 3.5% interest rate	22.000.000.000 €
AVIS Fintech PLC	London Canada	Group IT Developer, Owner of the AVISPay Core Banking. Owner of the AVIS Marketplace metaverse software and IT Infrastructure	Operative in Part	500.000.000 €
AVIS Congress Hotel PLC	London	London Management Tower, London Crown Hotel, Spain Congress Hotel, Divers Real Estates	Under development	1.000.000.000 €
AVIS Vortex PLC	London	2000 Waste Millings VORTEX	Under development	300.000.000 €
AVIS NucTron PLC	London	Next Generation Atom Reactors, Russian Team	Under development	50.000.000 €
AVIS Atom Thread PLC	London	Graphene Production	Under development	2.050.000.000 €
AVIS Simmtronics Tech Corporation	USA	A-Pad Hologram Computer	Under development	45.000.000 €
AVIS Magnetic Technologies PLC	London	Heavy Water Reactor Ring Prototyping & Production	Under development	10.000.000 €
AVIS Logistic LTD	London	AVIS. Global Franchise, general world acquisition logistic	Operative in full	500.000.000 €
AVIS Project for the 3D printing robots	Australia	AVIS. Global Franchise, equipment manufacturing	Operative in full	100.000.000 €
AVIS Hotels PLC AVIS for high-tech paradise leaving a university city for 500.000 people and 3D printing prototyping of futuristic technologies	UK	Several GB High-tech Industrial Projects in different locations in the UK	Under development	25.000.000.000 €
AVIS NoAge PLC	London	Biodrux NoAge Production and 4000 Cancer treatment Products & Patents	Under development	6.000.000.000 €
Canada Construction	Canada	Construction of the Colombia high-tech green city with the 2x20.000.000 waste facilities Harbour and 3D printed high-tech paradise green city for 5.000.000 people	Completed and in development of extension infrastructure in Canada	85.000.000.000 €
Brazil high-tech paradise and university city for 20 Million people and 3D printing prototyping of futuristic technologies	Brazil	Construction of the Brazil high-tech green city with the 5x20.000.000 waste facilities Harbour and 3D printed high-tech paradise green city for 20.000.000 people	In the development of extension Infrastructure in Brazil	300.000.000.000 €
Rwanda, high-tech paradise and university city for 10 Million people and 3D printing prototyping of futuristic technologies	Africa	Construction of the Colombia high-tech green city with the 2x20.000.000 waste facilities Harbour and 3D printed high-tech paradise green city for 10.000.000 people	Completed and in development of extension infrastructure in Africa	85.000.000.000 €
AVIS Securities	Colombia	Creation of internal trading platform for the AVIS Group derivative trading	Completed and in development of extension infrastructure in Colombia, Spain, London	230.000.000 €
HJK ArtMedia Industry	London	The first graphene fashion 3D printed project with 47.000 styles	Under development	10.000.000.000 €
AFRA 100 Facility Construction	Africa Continent	100 Construction Development Contracts in the African territories contracted with the Africa Central Bank	Ready for start of construction and paid by digital currency	250.000.000.000 €
130 Green Facilities Construction Project	Globally	120 Construction Development Contracts with governments between 2005 until 2023	Ready for start of construction	350.000.000.000 €
AVIS Shipping	Grupo Meridial	10 Floating Waste2NanoPowder facilities, The University Prototyping Vessel. The Experimental eVessel	Under development	10.000.000.000 €
AVIS eCar Industry	Germany	AVIS Reverse-Tesla Engine & 3DGraphene eCars production and distribution	M&A negotiating's with several international German Car manufacturer	5.000.000.000 €
AVIS Construction	Spain	M&A of Grupo Meridial	Under development	80.000.000.000 €
AVIS TV	Spain	M&A of several small and middle-sized media centres	Under Development	500.000.000 €
AVIS Cartagena, Spain high-tech paradise and university city for 5 Million people and 3D printing prototyping of futuristic technologies	Spain	Construction of the Spain high-tech green city with the 3x20.000.000 waste facilities Harbour and 3D printed high-tech paradise green city for 5.000.000 people	Under Development	180.000.000.000 €
AVIS Colombia high tech paradise and university city for 20 Million people and 3D printing prototyping of futuristic technologies	Colombia	Construction of the Colombia high-tech green city with the 5x20.000.000 waste facilities Harbour and 3D printed high-tech paradise green city for 20.000.000 people	Under Development	500.000.000.000 €
Project Value developed between 2005 up to 2023, contracted and valid for completion	All required capitals have been reserved or fully paid in. Part are off balance franchise payments effected between 2018 to 2023		Total EUR Capital Value	898.036.000.000 €
AVIS Bank LTD development	Africa, USA, CH, UK	June 2021 agreements with LOI are accepted by the board and shareholders	Under development	1.000.000.000 €
AVIS Franchise develops a number of projects that are not valued	World	2005 - 2023 onwards	Ongoing developments	500.000.000.000 €

BUDGET REQUIREMENTS cash for construction we need about **€3.500.000.000.000** between 2024 up to 2040

RESERVES cash **€10.000.000.000.000**

INCOMING OF THE PROJECT Waste management, nanopowder handling, energy production, food production and industrial equipment sales **€100.000.000.000** each year

WORKING SPACE CREATION 10.000.000 jobs

STOCK EXCHANGE BLOCKCHAIN 1.000.000 corporations' participation (High- and Green-tech)

Budget value required during 15 years

3.338.321.000.000 €

Reserves

10.000.000.000.000 €

20.000.000 MT GARBAGE RECYCLING FACILITY
TO NANO POWDER FOR THE 3D PRINTING INDUSTRY
HIGH-TECH & GRAPHENE INDUSTRY
GREEN CITY INFRASTRUCTURE



PROJECT FOR THE COLOMBIA DEVELOPMENT FOR INTERNATIONAL REFERENCE

The technology for processing household and industrial waste
and converting into powder for the 3D printing industry
high-tech laboratories & production industrial park
Green Paradise City

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1. DESCRIPTION OF THE PROJECT

PHASE 1

Adapting existing 100,000m² Industrial Facilities for the manufacture of High-tech electronic products, Graphene research and industrial production and VORTEX Nano Powder mills 3D printing in graphene and titanium.

University installation together with <https://www.hanyang.ac.kr/web/eng/home/Research>

And production of 3 different types of generators for the generation of free electricity.

3D printer valuation test department with TITOMIC and prototyping production center including robot printer test center.

General generation of green energy technology research Centre units.

Adapting the existing topographic infrastructure for the discharge of garbage import of up to 20,000.000 metric tons.

and Installing 250, *15 MT-Vortex mill units for the waste conversion into 3D Nano Powder.

and Installing 100, 3D Printer processing units for Industrial Products.

PHASE 2

5 Units 10.0 Ha "State of the Art" – high-tech tropical glass greenhouse and the Installation in cooperation with a Combined Heat and cooling Power station.

and 2500 Mt organic fish production unit and a zero-energy input building for packing vegetables and fish.

and 2GW electro generators technology – Hydrogen Magnetic Dynamo.

and Start Tax-Free Zone, Corporate Register.

and Start a Large Shipp Register.

and Start Bank Quantum Server Centre.

Waste Conversion Capacity: >20.000.000 metric tons (phase I plus phase II)

PHASE 3

3D Paradise City Construction for 500.000 to 1.000.000 people

1. THE DEVELOPER

The Corporation AVIS Global Energy Limited
Address 102 Parc Lane, SW25QN London, UK

Share capital GBP 5.000.000.000,00

Subsidiary AVIS Capital (ACAP)
UAE- Abu Dhabi, OFFICE NO B31,
Marina Royal Compound,
United Arab Emirates;

Subsidiary AVIS VORTEX PLC
Polígono Industrial Oeste C\ Venezuela, Parcela 10-11
30820 Alcantarilla – Murcia, Spain

Subsidiary Avis Atom Threads PLC
Polígono Industrial Oeste C\ Venezuela, Parcela 10-11
30820 Alcantarilla – Murcia, Spain

Location in Colombia COLOMBIA
New Harbor installation

Tel +44 2392 16 2001

Tel +1 903 669 1660

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Skype avisglobal2

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2. DESCRIPTION OF THE INITIAL START-UP INFRASTRUCTURE

Renting & leasing or purchase of the existing municipal glass building for the initial management of the development at 23000 Northwest Lake Drive

Personal requirements: 25 in administration
sourced from the local market

40 Engineers and scientist sourced form AVIS Members and local universities

The US franchise team will negotiate all requirements for the initial start-up of the project

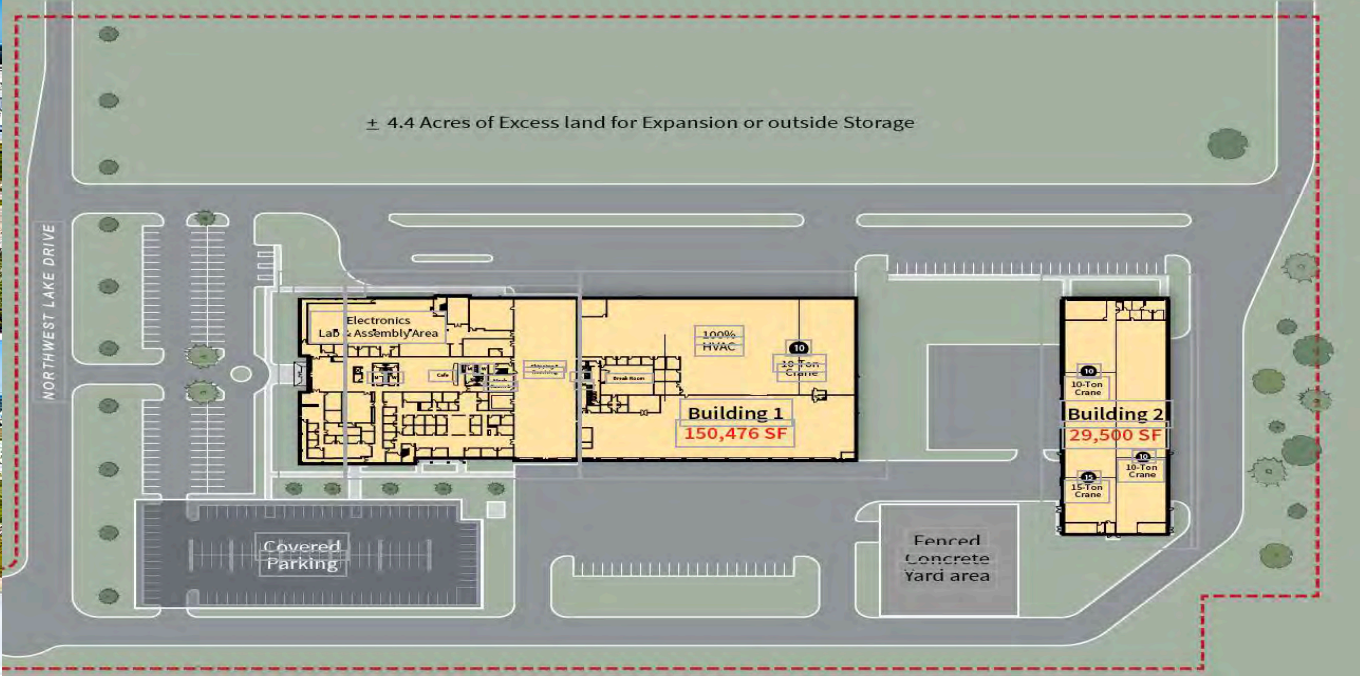
The principal inventors and engineers will arrive with their infrastructure for the prototyping of the technologies required for the industrial development

The AVIS Construction department will arrive with about 100 team members for start of development



3. ACQUISITION AND/OR RENTING OF EXITING INDUSTRIAL BUILDINGS

The AVIS Team will rent and/or purchase at least 100,000 m² exiting buildings for the adapting into production facilities for prototyping of VORTEX Mills and Generators and Graphene



4. ACQUISITION OF APARTMENT BUILDING INFRASTRUCTURE

The AVIS Team will acquire apartments and buildings/hotels for the ongoing development. At least 500 apartments are required to leave space for the different teams, participating in the project

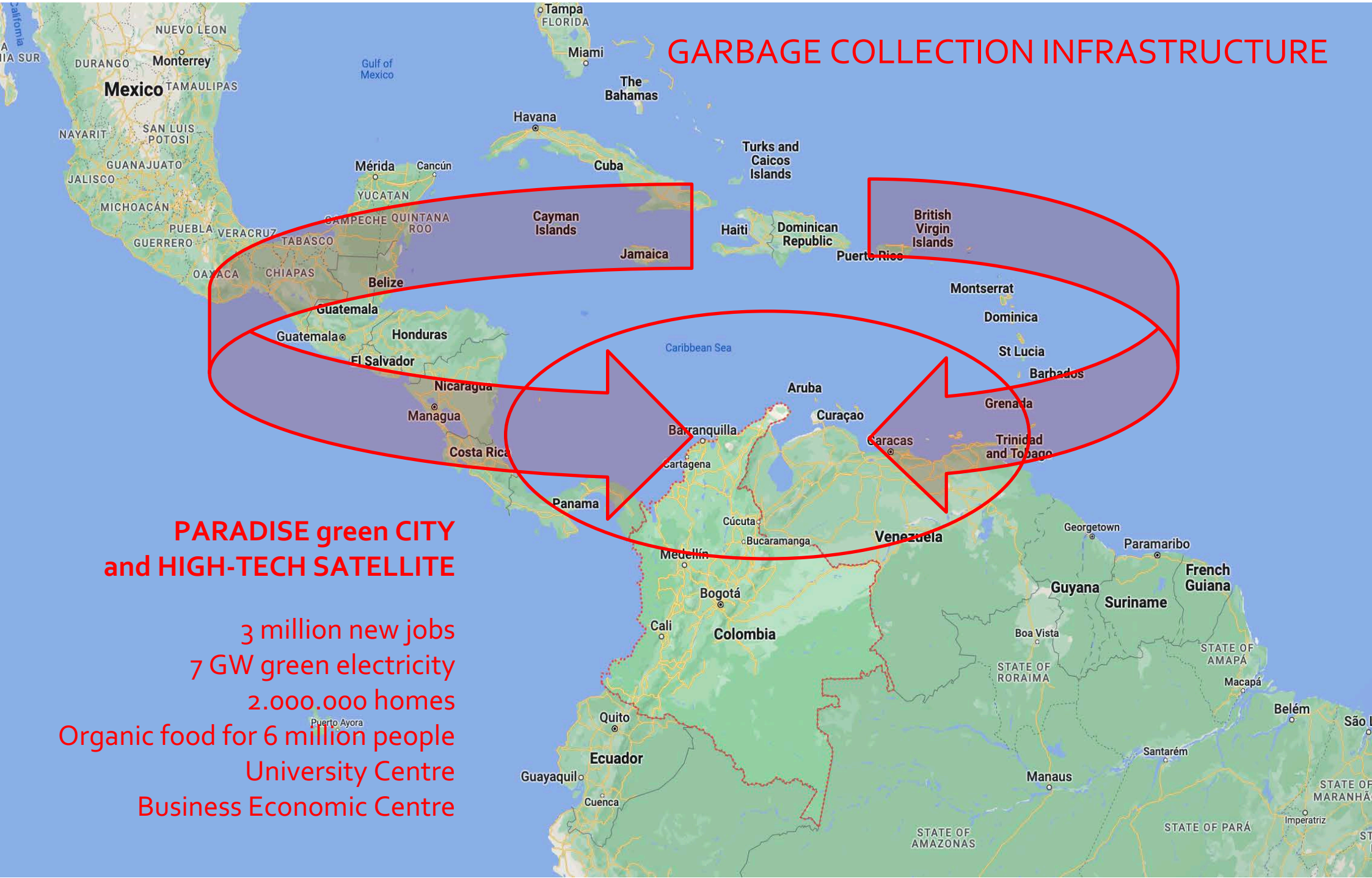


5. 3D PRINTING OF PARADISE APARTMENT BUILDINGS AND INFRASTRUCTURE WITH NO TRAFIC AND NO ELECTRIC GRID FOR +500.000 PEOPLES



6. LOCATION HOST TRANSPORT ROUTING LOGISTICS (TO BE SELECTED AT THE HOST LOCATION WITH CHARACTERISTIC AS INDICATED BELOW)

GARBAGE COLLECTION INFRASTRUCTURE



**PARADISE green CITY
and HIGH-TECH SATELLITE**

3 million new jobs

7 GW green electricity

2.000.000 homes

Organic food for 6 million people

University Centre

Business Economic Centre



AVIS has been offered 85km x 48km land for the construction of a green nano high tech industrial smart city for up to 10 million peoples



The AVIS Team will consider for entering into the construction with the authorization from the Central Bank of repatriate €500bln off-balance capital

Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat / Copernicus

Google Earth

9°12'47.42" N 60°37'31.13" W elev -2 m eye alt 2056.62 km

7. LOCATION INFRASTRUCTURE

GEOGRAPHICAL LOCATION	Latitude: 12°02'49.11" N / Longitude: -71°44'08.65" W
Address	Colombia Caribe
Surface area "A" approximately	20000HA
Distance to the embarkation/disembarkation pier	Minimum meters as possible
Wharf face	+600 m
Occupancy rate	Provided for by law, article 173 and following of the Revised Text of the Law of State Ports, and maximum applicable bonuses
Activity Fee	Minimum foreseen according to Law, article 183 and following of the Revised Text of the State Ports Law
Surface area container handling approximately	200,000 m2
Maximum container delivery each day	1500
Each container	26,50 mt to 30,00 mt
Per year	20,000,000 mt
40Fuss Containers per year	540.000
Container carrier frequency	+2 each week each 15.000 containers
IMPORT SOURCE	
INPUT MATERIAL	
Municipal waste	3.000.000 mt
Industrial waste	3.000.000 mt
Toxic waste	1.000.000 mt
Organic waste	3.000.000 mt
Construction Waste	3.000.000 mt
Electro Waste	2.000.000 mt
EXPORT	
Nano Powder	15.000.000
3D printed industrial and consumer goods	MT TBA
Organic food	90.000.000 kg
High Sea fish	2500 MT
Electric Power	2GW hours



Garbage of 100 Million peoples
delivered in containers
equal to 80 Million MT
equal to
\$4.000.000.000 gatefee

De Umakaha

Cabo de La Vela

Piyohureka

San José

Inosu

Manaure

Juts

Puerto Estrella

Parque Nacional Natural Macuira

Chamohu

Porchina

Nazareth

Siapana

CAO

90

Moyojoy

Cuatrobocas

Paraguaipoa

Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat / Copernicus

12°02'49.11" N & 71°44'08.65" W







8. Colombia LOCATION GENERAL GROUND PLAN FOR REFERENCE ONLY

The construction location and the layout of the plant uses land at the cost side towards Caribe of Colombia. The topographic nature of the large plot invites the construction of a futuristic green tech city for millions of people.

GREEN SMART CITY

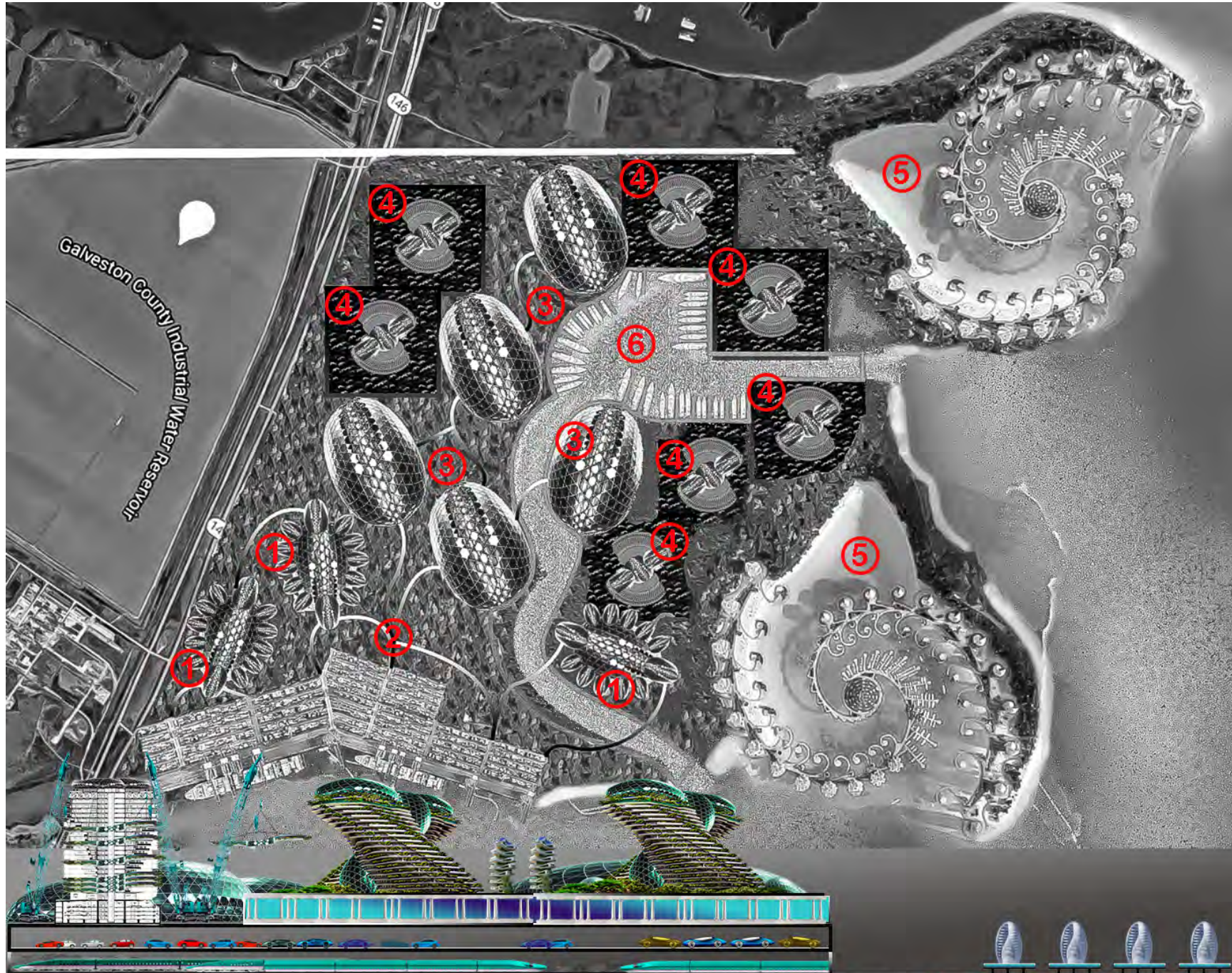
Underground traffic center & car park for +500.000 peoples
Car park logistic in the underground

- 1) Graphene – Carbon GLASS DOME VORTEX milling plant 91,000 square meters
- 2) Direct access from the port docks to the waste plant with suspended monorail train
- 3) 63,000 square meters 3D-printed Graphene-Carbon GLASS greenhouses for vegetables, always-fresh fruit, and alternative meat-vegetable plants
- 4) "AVIS Tower" Several +30-storey escrow buildings built with 3D printer system Carbon Graphene composite +200 flats for 1000 engineers and/other staff of the the High-Tech City - Waste Plant

Offices satellites, laboratories and services for +5000 jobs

- 5) Paradis City Waterfront "TORTUGA"

- 6) Yacht moorings for 6 to 200m yachts



9. DISPATCH LOGISTIC OF CONTAINER SHIPS AND HANDELING 1500 CONTAINER / DAY



10 Megamax Liebherr container cranes 65 t twin and 100 t tandem outreach 30-40m, hosting speed, 50 – 125 m/min, Trolley speed 180 m/min, travel speed 100 – 140 m/min

10. DESCRIPTION OF CONTAINER INTERIMS STORAGE AND CHARGING WITH EXPORT GOODS



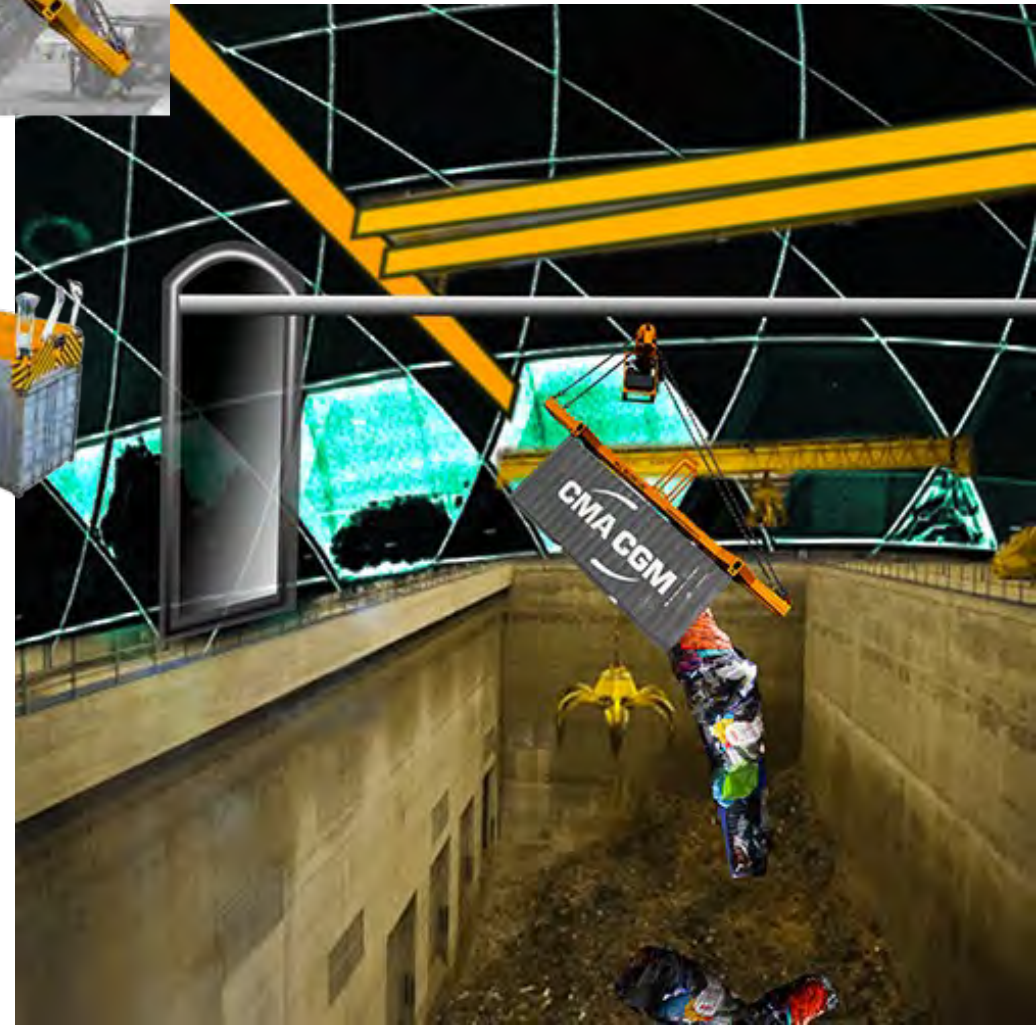
The interims deposit handling 15.000 containers.
After dispatching will be loaded with Nano Powder or other products of the facility for export and trade

11. DESCRIPTION OF THE SUSPENDED TRAIN TRANSPORT FROM VESSEL TO FACILITY DISCHARGE AND BACKLOADING TO CARGO VESSEL



The automatic container transport and unloading system to the processing dome handles up to 15,000 metric tons every day / 30 containers every hour.

The hermetic sealed Glass dome maintain negative air pressure for **ZERRO** outdoor



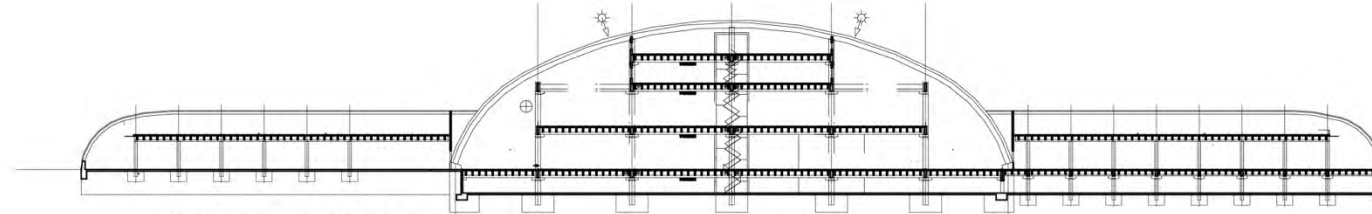
Constantly negative air pressure guarantees **NO** outdoor

VIP

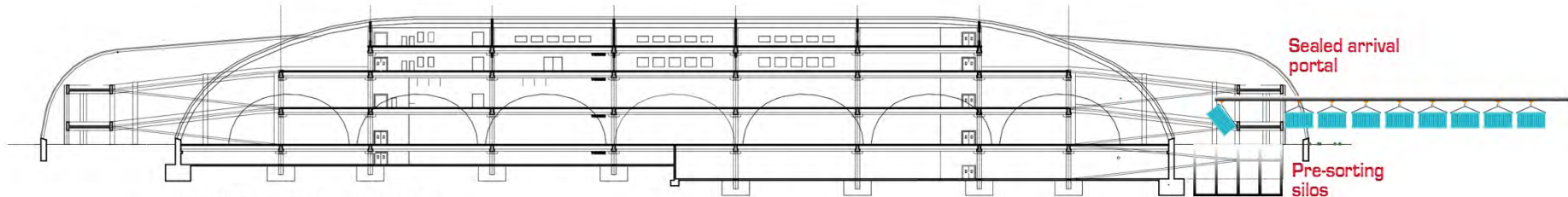
PRESIÓN DE AIRE NEGATIVA



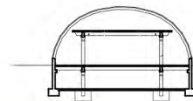
06



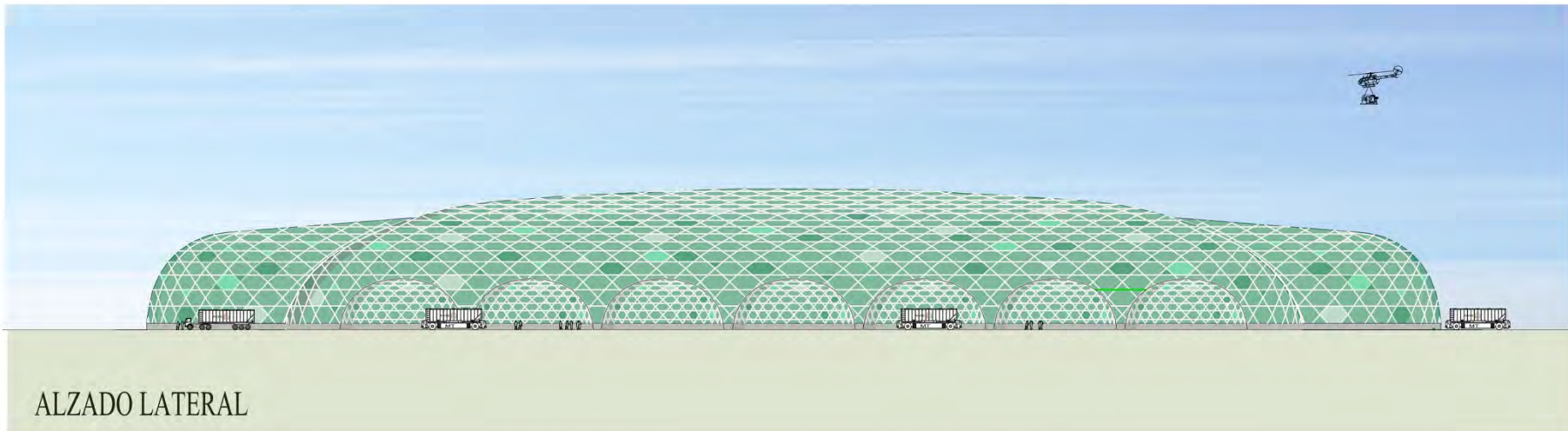
SECCIÓN TRANSVERSAL



SECCIÓN LONGITUDINAL

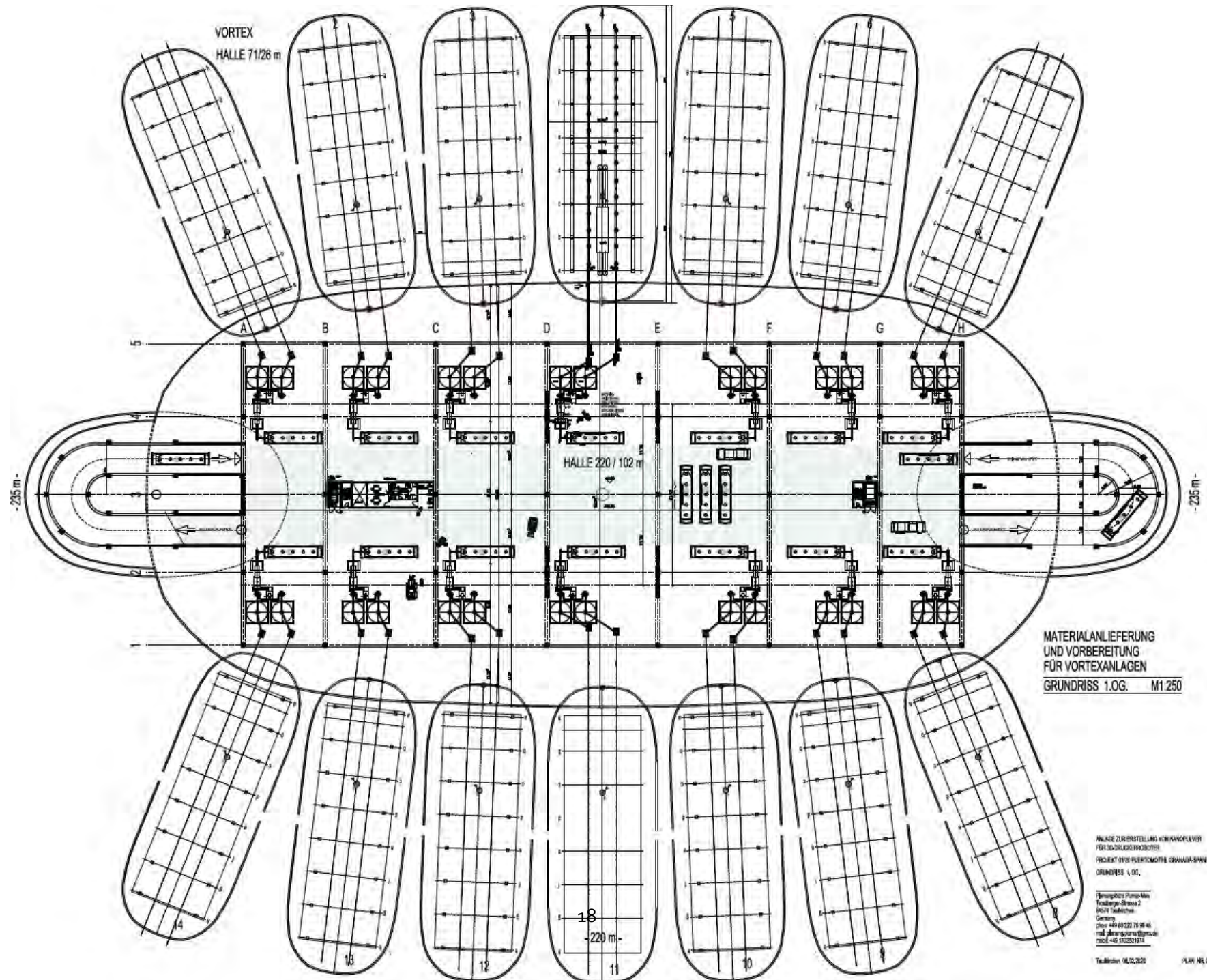


SECCIÓN NAVE LATERAL



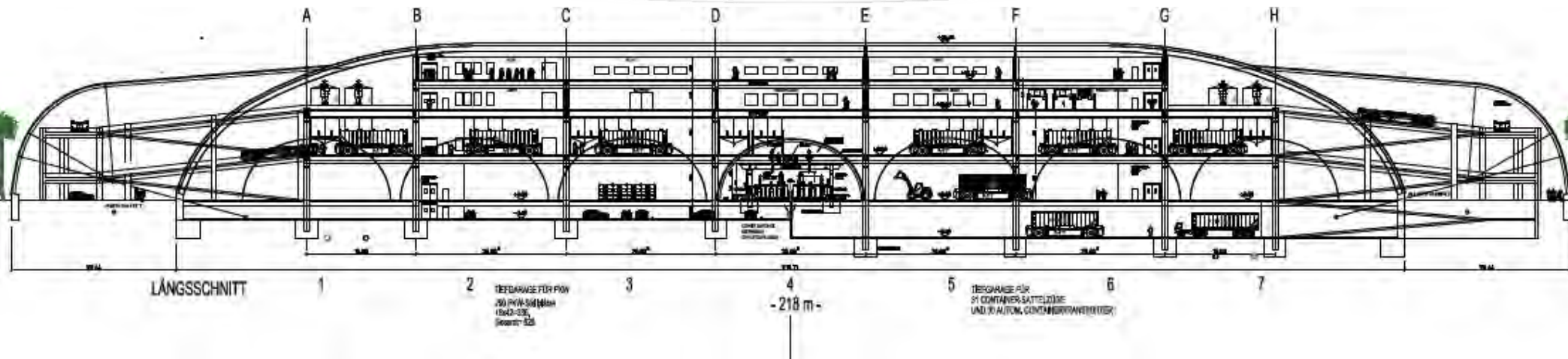
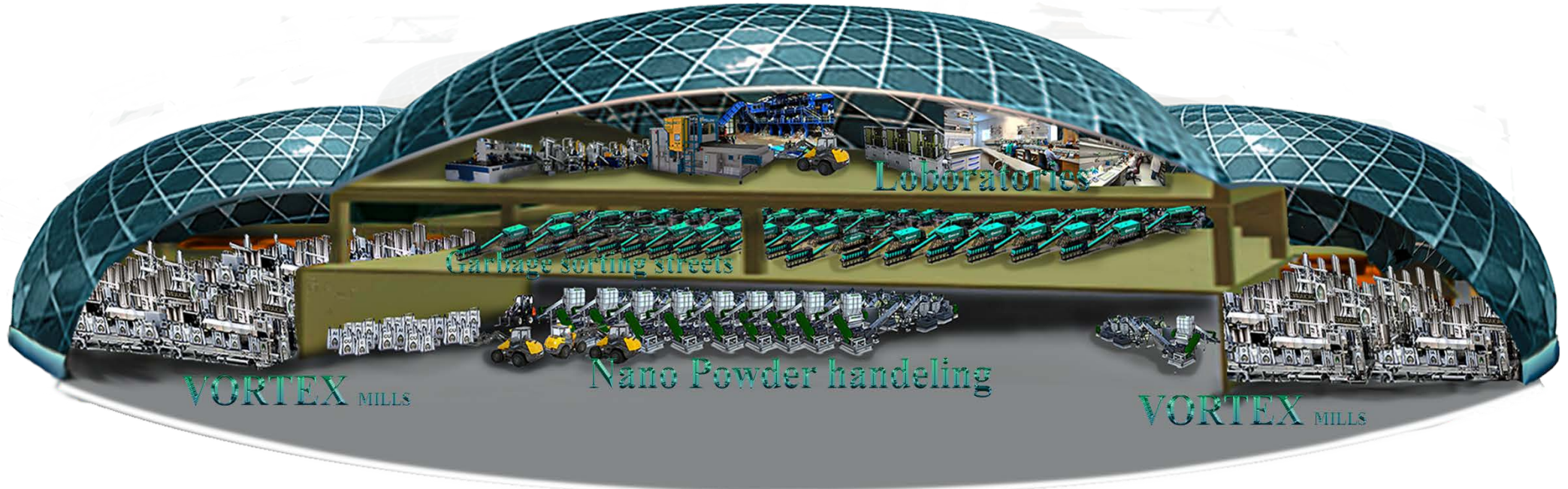
ALZADO LATERAL

13. WASTE MANAGEMENT FACILITY GROUND PLAN



14. DEPARTMENT
DESIGNATION

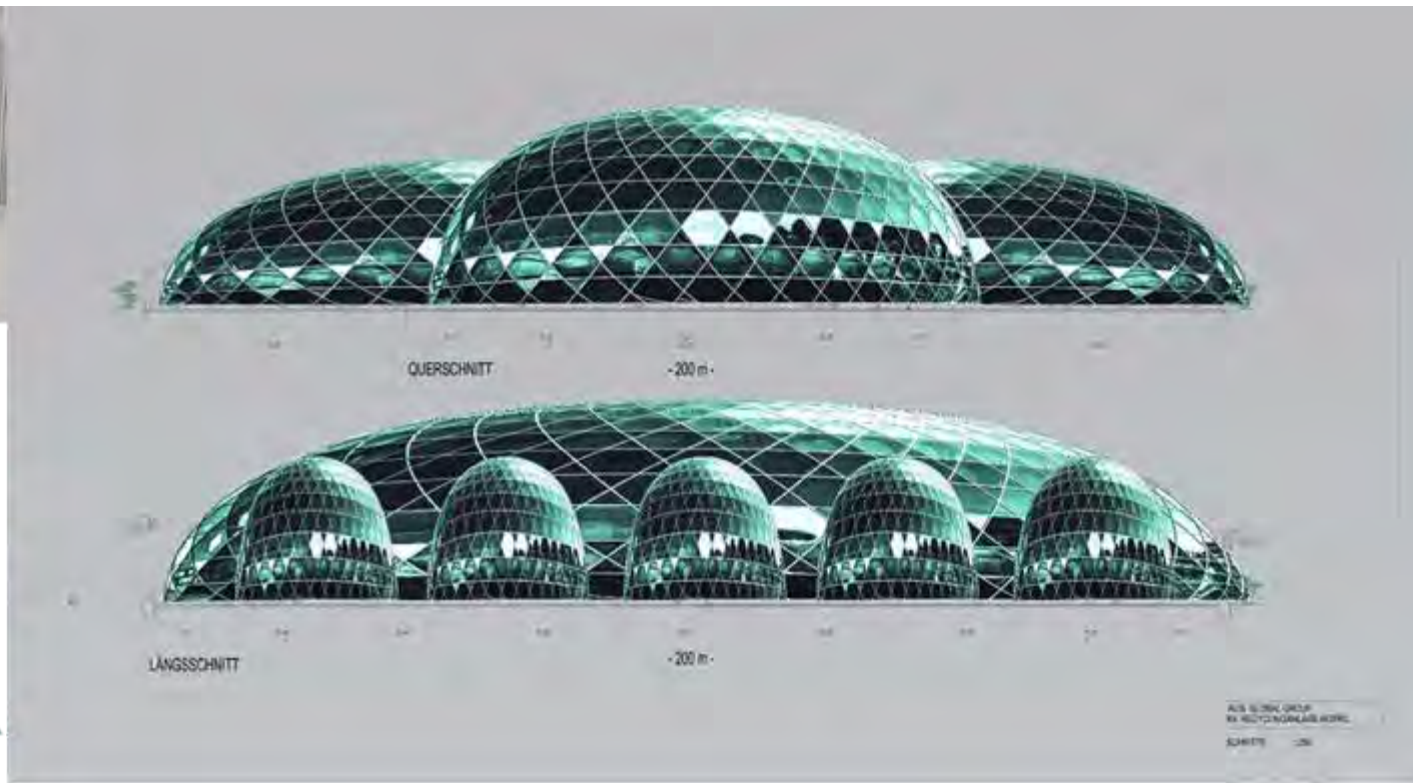
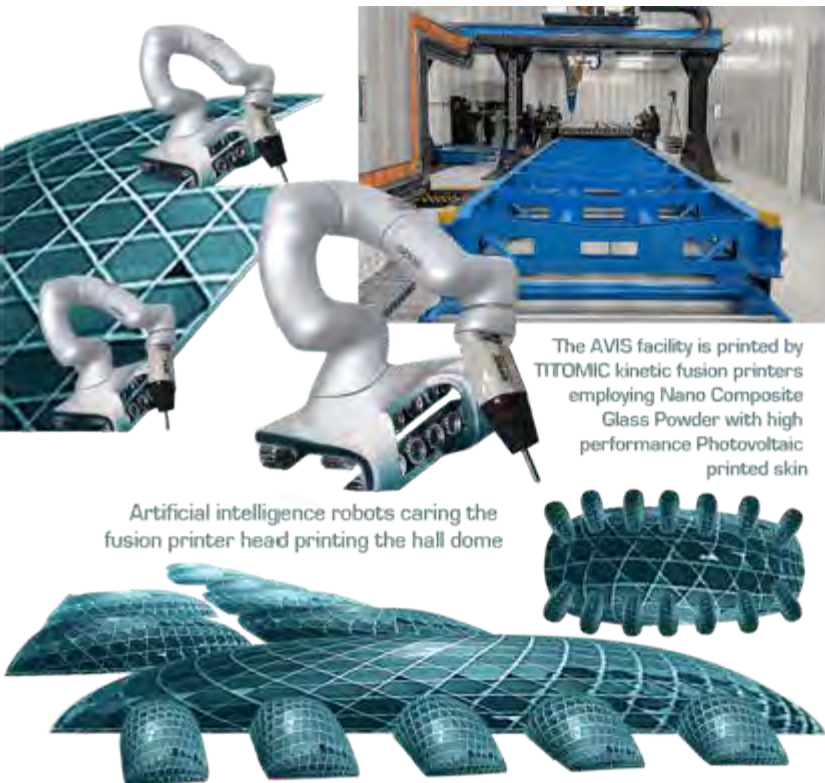
<i>Main Building</i>	
<i>BLP</i>	220x243m (around 5 Ha)
<i>GBA</i>	53.460 sq.m.
<i>Floors GBA</i>	
underground floor	102.424 sq.m.
o floor	21.900 sq.m. high 3.30 m
1-st floor	21.900 sq.m. high 8.06 m
2-nd floor	21.900 sq.m. high 8.06 m
3-d floor	6.100 sq.m. high 5.45 m
14 high secured and sealed Nano Powder	4.788 sq.m. high 4.50 m
Processing arms	1.846 sq.m. high 12 m each one
	25.844 sq.m. totally



15. 3D PRINTED GLASS CARBON DOME CONSTRUCTION

The solar skin description and its power description

3D Printed dome Ceiling: 3D printed composite glass // Roof glass cover: photovoltaic cover printed on 3D // Ventilation windows: no, hermetic closed / Area:± 91,000.50m² including service area // Technology: artificial intelligence robots that carry the head Fusion Printer Printing 3D // Material quality: AVIS installation is printed by TITOMIC kinetic fusion printers using powder nano composite glass with high photovoltaic skin performance // Ceiling - transparent solar panels for conversion into electrical energy // Material glass, metal, glass-plastic, plastic stretch film 3D printed production // Bearing structures - reinforced concrete with protection against aggressive fluids.

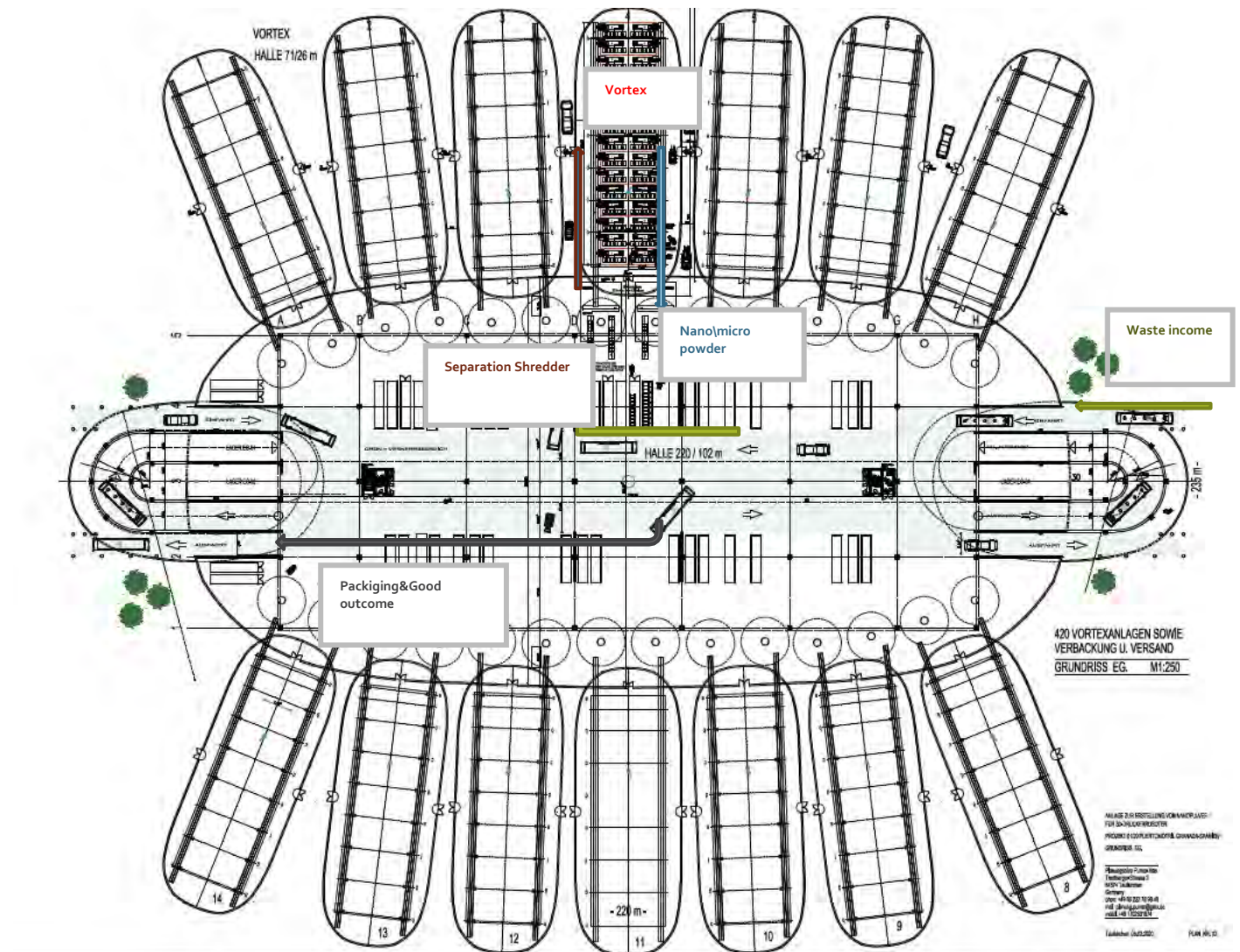


17. BASEMENT

All POWDERS managed in hermetic closed shipping pipes from VORTEX to packing line and to TITOMIC & other printers

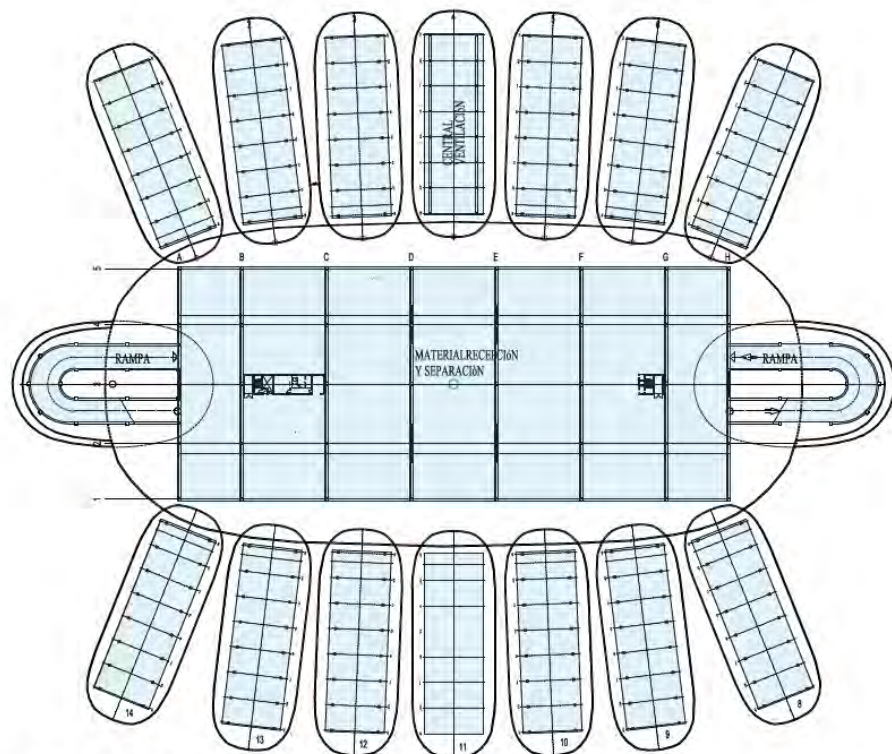
- a. Radiation and dosimetry control, disinfection barrier at the site of the entrance enterprise
- b. Weighting on a truck scale
- c. Unloading at the receiving site of the sorting unit with the help of a mechanical unpacker
- d. Unloaded trucks - for re-weighing (for containers)
- e. Selection by a lifting device (manipulator-separator) bulky waste not subject to further processing (parts machines, refrigerators, household appliances) that are loaded into storage bins with sorting
- f. Oversized wood waste moved to chopper, and then to production
- g. Undergoes UV disinfection and is fed by conveyors to sorting line
- h. Sorted and shredded waste goes to storage bins and to the Vortex production facility

! All POWDERS delivered in hermetic closed shipping pipes from VORTEX to packing line and to 3D printers



18. GROUND FLOOR

Product handling department



03



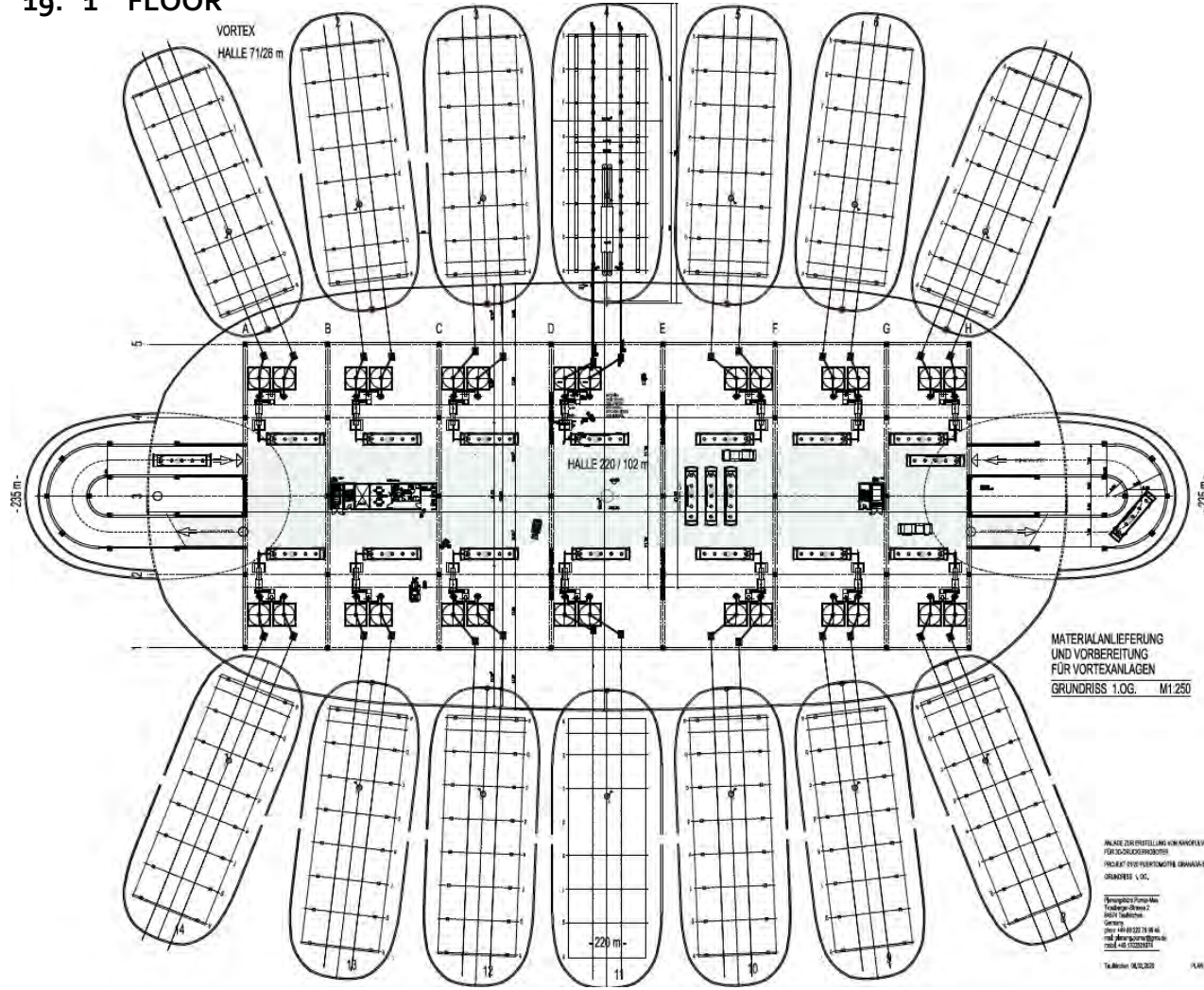
AVIS GLOBAL ENERGY PUERTOMOTRIL Mo-01/2020 PLANTA PARA LA PRODUCCION DE NANOPOLVO

PRIMER PISO

Vortex POWDER production
Packing lines
loading of goods NANO/MICRO powders
Trucks and containers delivery



19. 1ST FLOOR



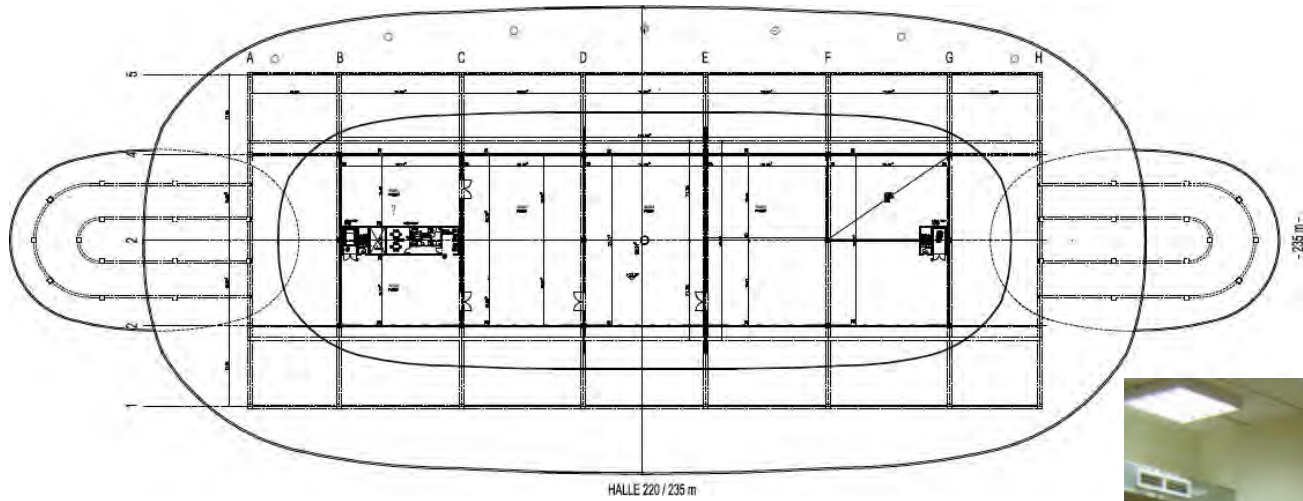
Arrival of waste in containers, trucks, trains



Receiving department, Uploading, Radiation control system
Weighting on scale system, Presorting,
Shredding, Fine sorting, VORTEX feeding



20. 2ND AND 3RD FLOOR

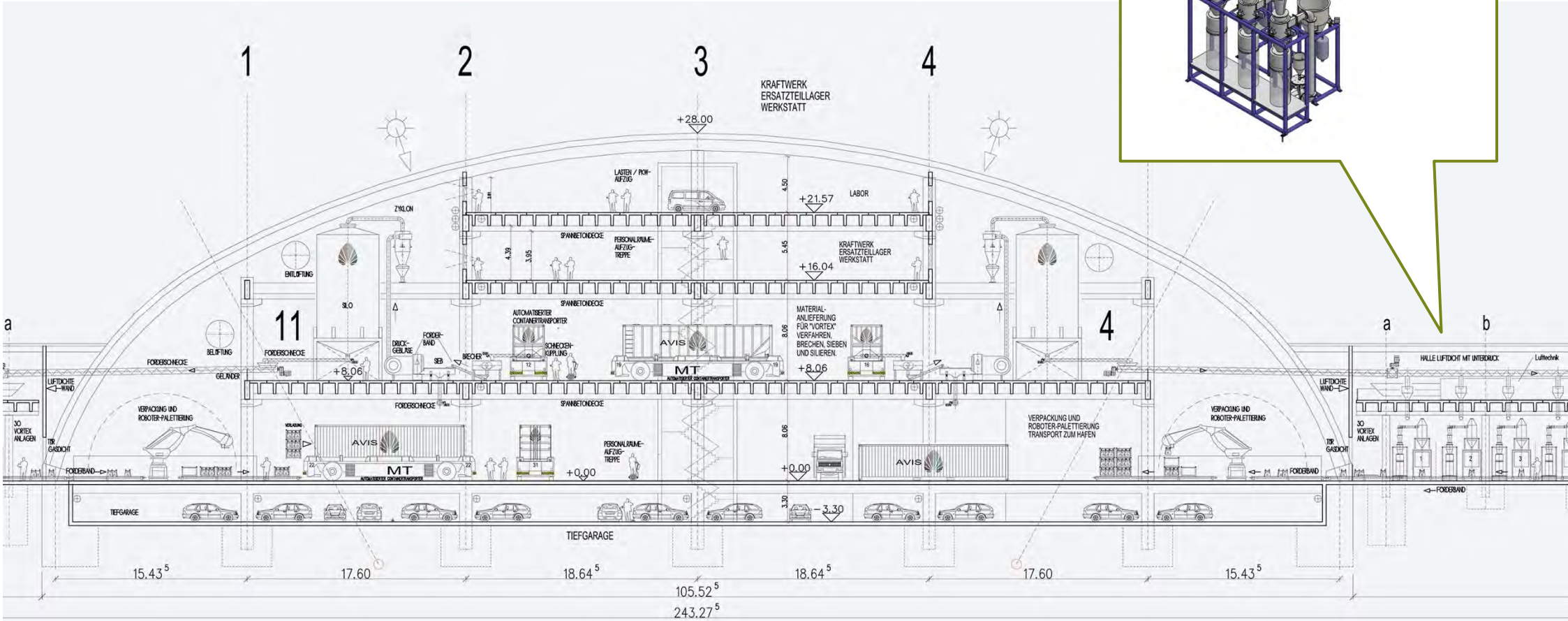
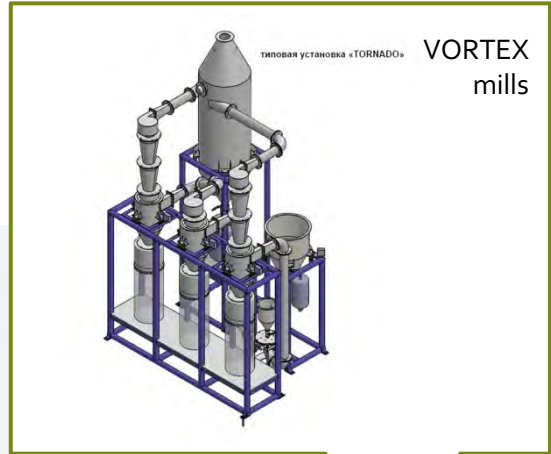


- Social Infrastructure
- Fine separation of powders
- IT and management center for facility logistic
- Spare part warehouse
- Technical service
- Car service
- Repairing compartments
- Laboratories



21. BUILDING DEPARTMENTS

The waste receiving logistic and pre-sorting



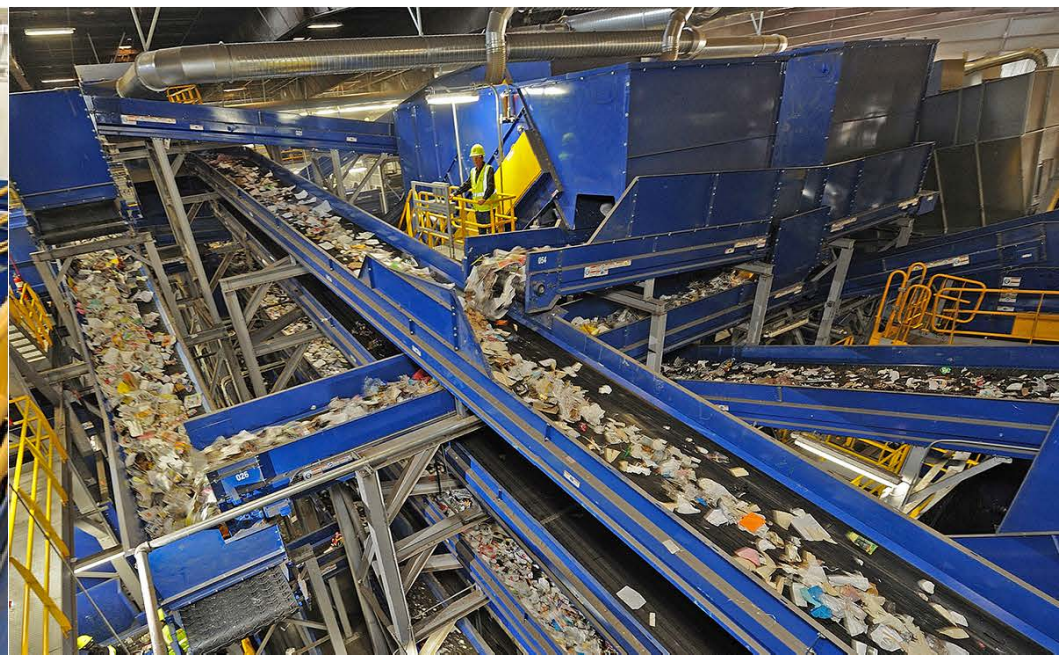
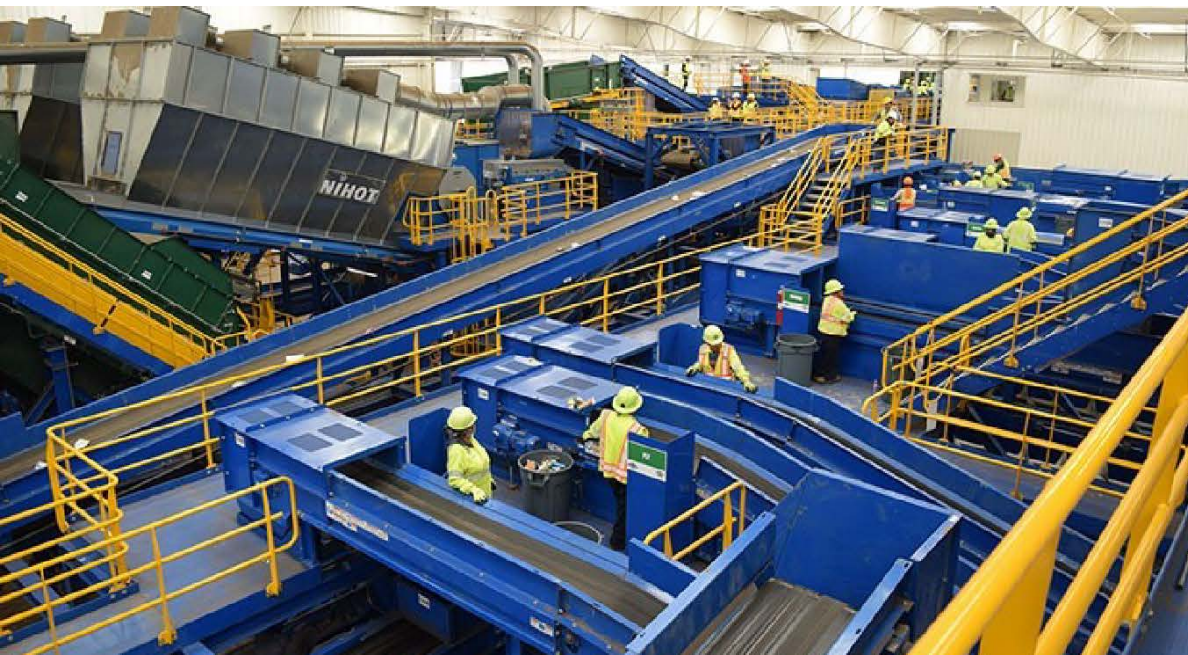
QUERSCHNITT

- 243 m -

22. WASTE DELIVERY DEPARTMENT AND PREPARATORY WORK

Dry waste comes mainly from the ships of the port of AVIS in 40-foot sea containers. The waste delivered is sorted according to the classification defined in USA/ EU Directive No. 2000/532 / EC. The waste is distributed by type and packed in rolls covered with plastic film.

<i>Containers delivery</i>	Directly to the production premises, on the 2nd
<i>Type of delivery from uploaded transport</i>	floor Cableway, air-railway from coming ships
<i>inside the workshop</i>	Rubber conveyor belt with brackets
<i>Unloading</i>	Mechanical robotic unloaders, universal unpacker with roller shutters
<i>Numbers of conveyors</i>	9
<i>Type of waste for one conveyor</i>	Metal, glass, paper, plastic, electronic, electrical waste, construction, toxic, household
<i>Numbers of unloaders and shredders</i>	18 each
<i>Numbers of sorting lines</i>	36
<i>(Automatic material sorting system) *</i>	
<i>Numbers of separators **</i>	9
<i>Environment control system***</i>	Laser lidar control system



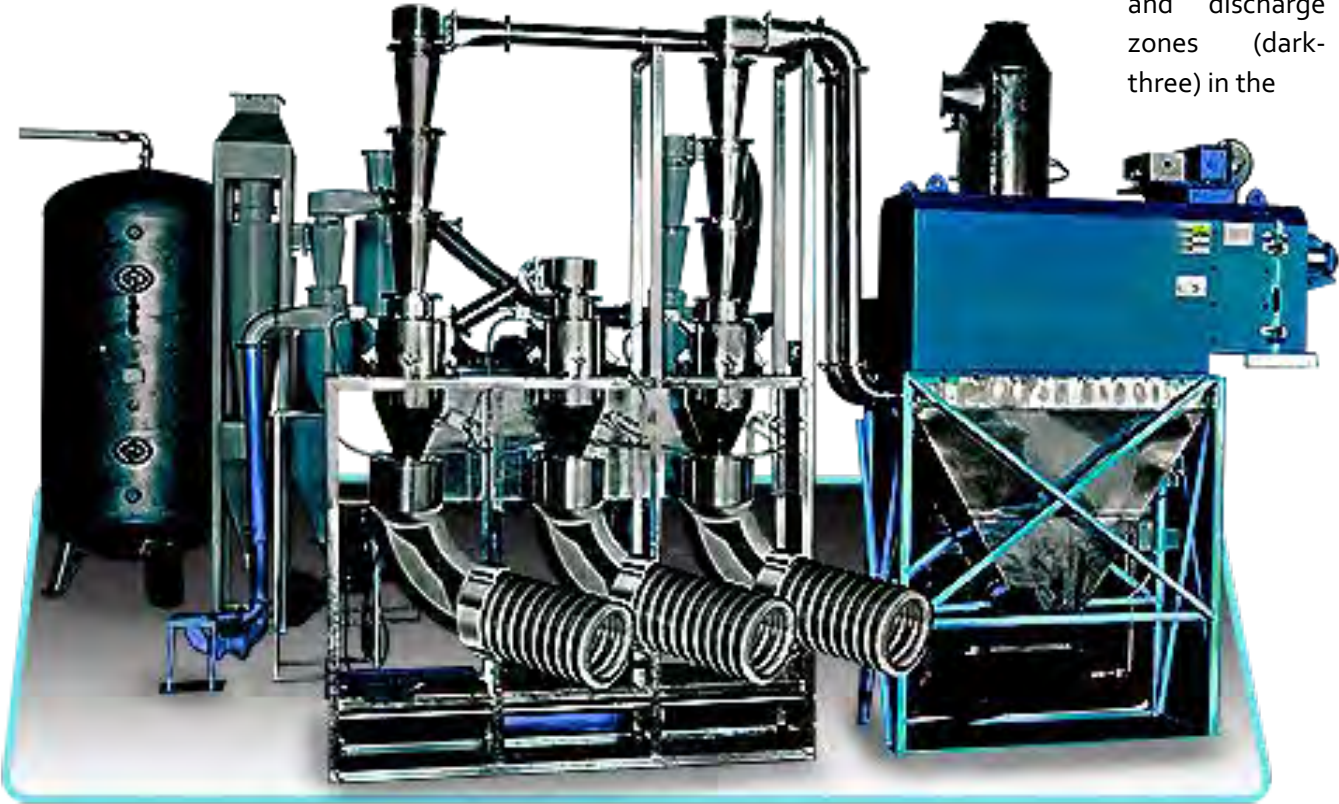
23. VORTEX MILLING TECHNOLOGY

Functionality

The equipment is based on the resonance vortex grinding technology, which allows the grinding of any material, from wheat grain to diamonds. The phenomenon of crushing materials of any hardness is possible due to the occurring of pressure gradient zones in the vortex mill that amount up to hundreds of thousands of Bars, where the generation of multi-stage resonance, and the impact of particles occur.



Photo of the vortices (four) and discharge zones (dark-three) in the



The resonant vortex "TORNADO" installation is a gas-dynamic mill in which the technology of cascaded adiabatic resonance impact grinding is implemented, impact velocities of which are close to a breakdown threshold. When the material is injected into such area of pressure differential, a rupture of the material's structure and clusters occurs. Such mechanism can be compared to the mechanism of material's sample destruction, which is done in order to determine its strength characteristics at tensile test plants. That is, the grinding occurs not due to the friction or any other mechanic force, but by "air" and resonances, which provide a high and efficient performance, great flow rate of raw material as well as inexpensive exploitation (no rubbing parts) with low power consumption.

VORTEX technology accompanied by a change of the physical state, chemical properties and composition of the grinded material. Ultrafine grinding is accompanied by a change of defects of the crystalline structure, up to the complete amorphization substance. This creates an «aftereffect» due to the fact that the grinded material possesses «excess» energy that was accumulated during the grinding process. These processes facilitate the functionalization of homogeneous and carbon structures, such as metal inoculation.

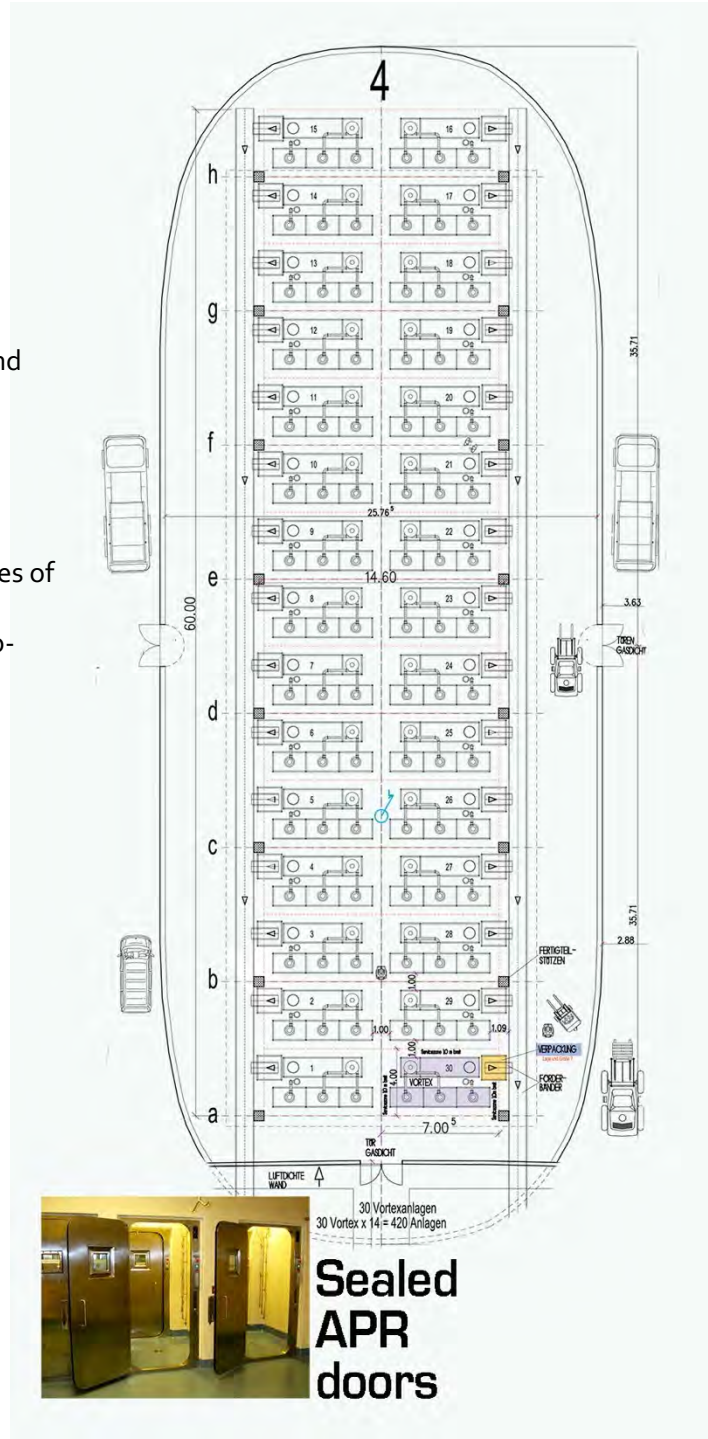
The technology of grinding rocks in the air-vortex flow of «Tornado» has been created specifically for the detection of crystals and aggregates, more efficient enrichment by the «dry method».



24. VORTEX PRODUCTION EQUIPMENT & CAPACITY

Production area of VORTEX* machines o2

<i>Location Machines VORTEX</i>	lateral (arm) compartments of the building
<i>Numbers of arms</i>	14 7 - on each side
<i>Dimensions of one arm</i>	6x14m; 1.464 sq.m. working area 30 in each compartment, closed from the rest of the main and auxiliary workshops and premises
<i>Numbers of Machines</i>	420
<i>Pressure in Vortex premises</i>	0,9 Bar, sealed doors
<i>Income material</i>	10-20 mm
<i>Outcome material</i>	10-0,001 mcm
<i>Preliminary separation of outcome</i>	cyclones and scrubbers in accordance with the types and sizes of powders.
<i>Classification of outcome</i>	2-4 machines (Classifiers) for the precise separation of micro- and nano-powders
<i>Numbers of classifiers</i>	100
<i>Working body (carrier)</i>	compressed air, argon, nitrogen, carbon dioxide
<i>Consumption of Working body</i>	10m ³ per minute per machine
<i>Total Consumption of Working body</i>	4200 m ³ per minute
<i>Pressure</i>	10 Bar
<i>Return the working body of the machine</i>	after cleaning - back to compressor
<i>Noise level</i>	dB 60-70
<i>Power electro consumption</i>	200W per machine
<i>Totally electro consumption</i>	84 kW
<i>Environmental damage\ harmful emission</i>	ZERO



25. 3D PRINTER PRODUCTION DEPARTMENT TITOMIC

The production area of TITOMIC 3D* printers is located on the third floor of the building and is shown in drawing o3-AVIS-1. OG-08.02.

There are 100 printers in the zone.

*Brief description of the principle of operation of TITOMIC:

Micro - and nano-powder comes to printers by means of tight pipes (product lines) and moves to a printer nozzle. The TITOMIC 3D printer is based on the CSIRO principle of the process of applying cold gas-dynamic spraying of particles of titanium or a titanium alloy or other substances based on the deposition of supersonic particles of metal powders to create large-scale parts and complex surface coatings.

When using a 3D printer, nitrogen is used with a pressure of 5.5 bar. In the process, nitrogen is heated (not burning) to + 6000C, which is then diverted out through the ventilation.

Nitrogen enters the printer from a gas storage tank with a capacity of 10,000 m³. A nitrogen generator is provided to fill the storage tank.

Finished products are removed from the frame and transferred to the finished goods warehouse located on this floor. From the warehouse of finished products are shipped to consumers.

In the production area of 3D printers, supply and exhaust ventilation are provided. The main technical characteristics of the TITOMIC 3D printer are given in table 4.

No.	Name Unit.	Measurement	Quantity
1	<i>Pressure of Nitrogen</i>	Bar	5,5
2	<i>Consumption of nitrogen</i>	m ³ per min.	0,014
3	<i>Pressure of air</i>	Bar	6
4	<i>Consumption of air</i>	m ³ per min.	0,27
5	<i>Noise level</i>	dB	64
6	<i>Electro current</i>	A	420
7	<i>Electro voltage</i>	V	220
8	<i>Electro power</i>	KVA	137
9	<i>Totally electro power for 100 items</i>	MW	15
10	<i>Environmental damage\harmful emission</i>		ZERO

26. 3D PRINTING DEPARTMENT - (TITOMIC AND OTHERS)

To produce VORTEX mills

How it works-To additively manufacture metal parts, TITOMIC Kinetic Fusion® begins by accelerating metal particles to supersonic speeds by injecting them into a jet stream. The particles exit the spray nozzle, and upon colliding with the surface, they plastically deform, sticking to the surface and each other. The build-up of these particles rapidly develops into near-net-shape metal parts.



27. 3D PRINTER MIXED BATTERIES



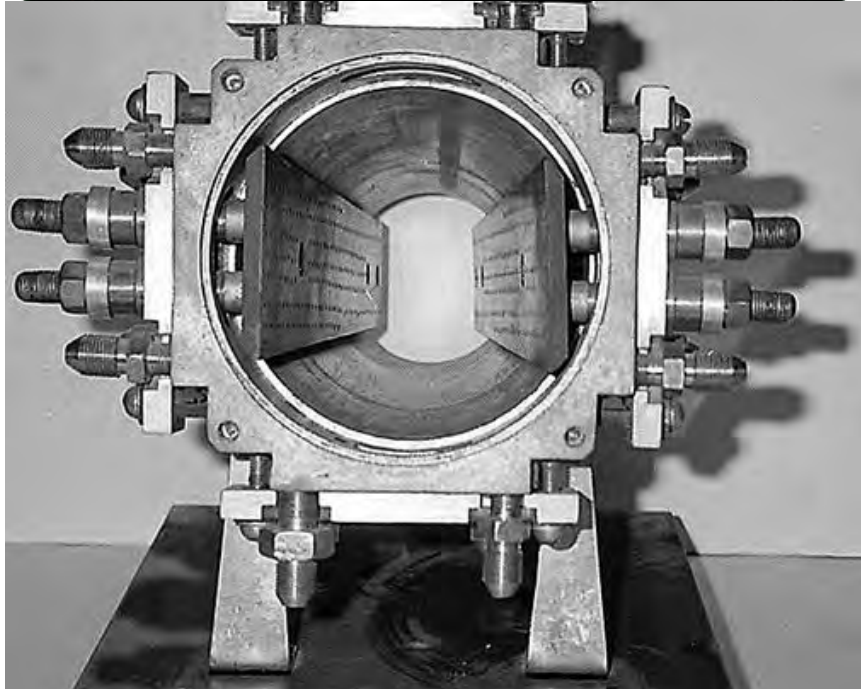
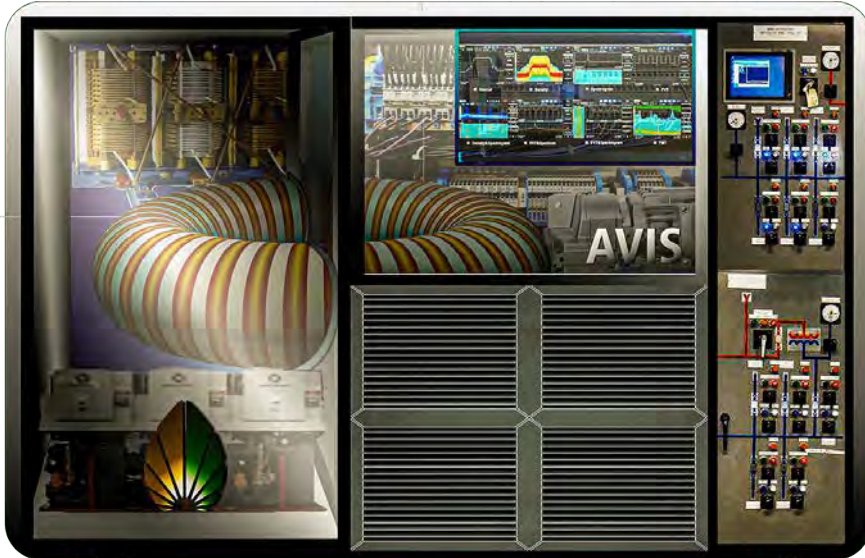
28. TURBINE COMPRESSOR DEPARTMENT

All pipes from compressor maintained to VORTEX machines under pressure approx. 10 Bars

In 3D Printed high pressure 1,00 diameter pipelines for interim air storage, total 10.000 m³ to secure air flow



29. HMD POWER DEPARTMENT AND LOGISTIC



The technology description and output production

The active working weight of the prototype dynamo (torus + water) is about 900 kg. The diameter of the torus is approximately 2 meters. Thor - impact - durable optical polystyrene from two halves.

Single crystal barium titanate (BaTiO_3) is sprayed onto the inner channel of the torus.

Water was purified to a specific resistance of 18 M Ohm / cm.

To start the dynamo, 2 capacitor banks with a capacity of 10 F each were used. The total capacity is 20 kilojoules.

The energy of the starter battery is to provide the initial movement of water (acceleration and excitation) - 20 kJ, voltage of 100,000 volts. Partially ionized water is ionized by a high-voltage discharge through 32 electrodes (2 kilograms of palladium). The electrodes are made of palladium tubes with a diameter of about 5 mm. Using these electrodes, the dynamo "ignites". 32 electrodes are mounted evenly in the torus of the generator.

Through the field windings, an alternating magnetic field is created that moves water in one direction inside the toroid. Electromotive force is created by electromagnetic induction in individual windings. The cooling system of the generator housing was a closed circuit with circulating purified water. The torus temperature was maintained no higher than 55 degrees Celsius using a heat exchanger. The average output power under load was 220 volts x 6800 amperes = 1490 kilowatts. The current is constant. Periodically, it rose to 2,500 kilowatts. Depends on the cooling of the generator.

30. PRODUCTION ENERGY SERVICE & MANAGEMENT DEPARTMENT

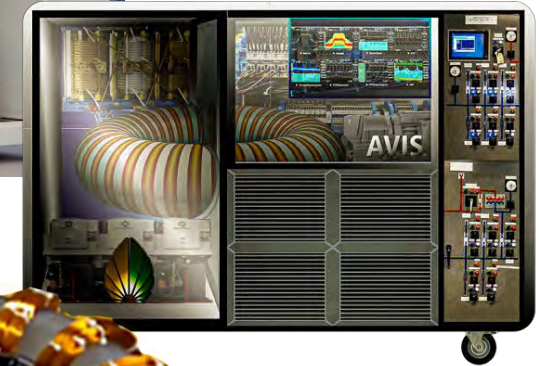
Plan 01-1. OG, 08.02.
central air compressor 1 item 4500.0 m³ per min.

HMD hydraulic generator of dynamic electric power* 2.8MWh
100 Generators totally 280MWh *102.200MWh year
Industrial HMD Generators 20MWh
50 Generators totally 1000MWh*365.000MWh Year
 Volt 440

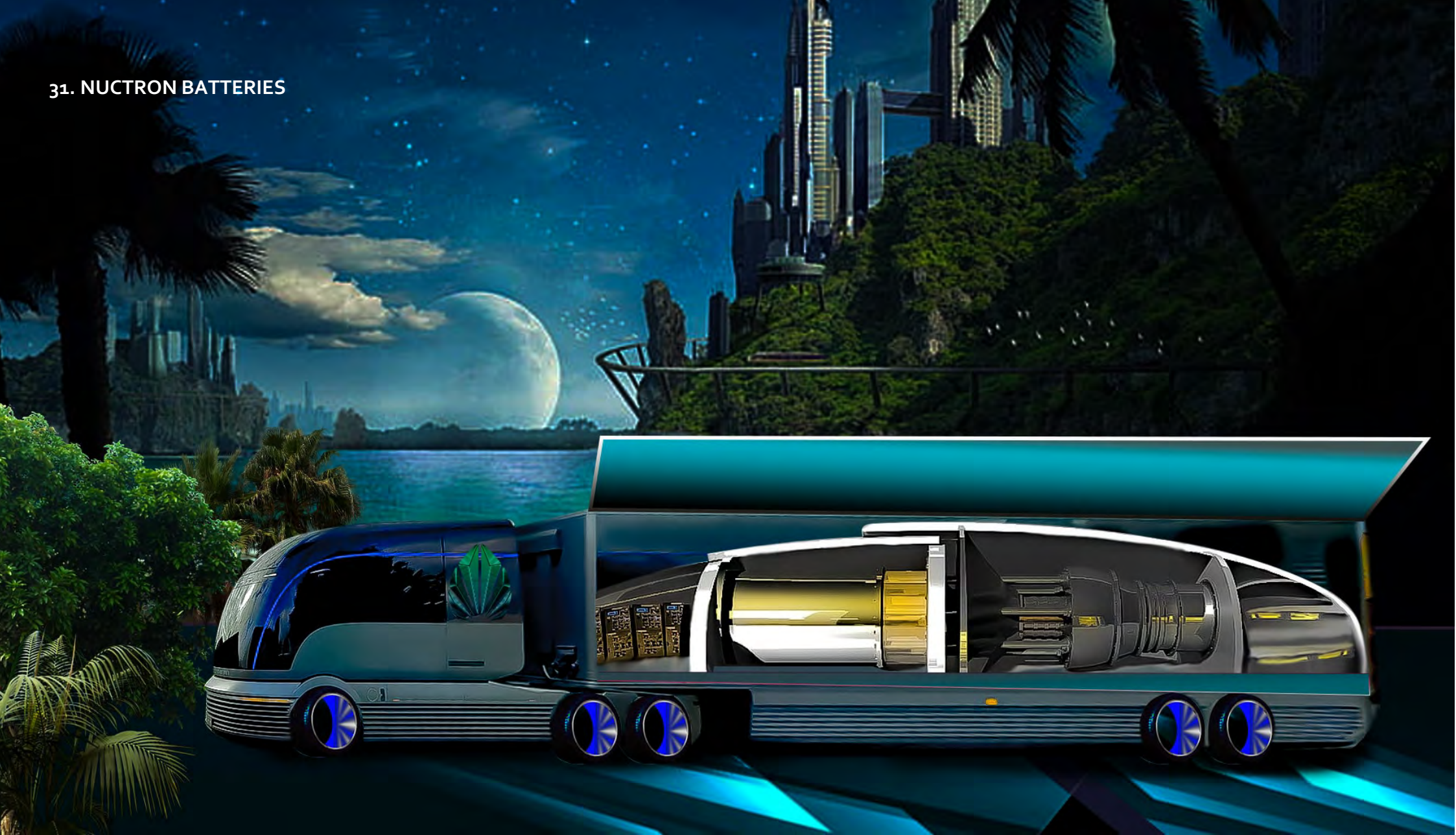
transformer substation 1 Siemens
consumption from the city (port) external electric network (emergency) 0 available on standby

100 HMD Generators 2,80 MWh
50 Generators totally 1000MWh
Total 280 MWH

*HMD operates on heavy water (D₃O) circulated in and ring reactor is not a source of harmful radiation and waste emission "ZERO"



31. NUCTRON BATTERIES



**POWERFULL NON-TOXIC NUC_TRON BATTERIES TO BE DELIVERED INSTANTLY
TO WHEREVER NEEDED FOR CITIES & INDUSTRY**

32. LABORATORIES DEPARTMENT

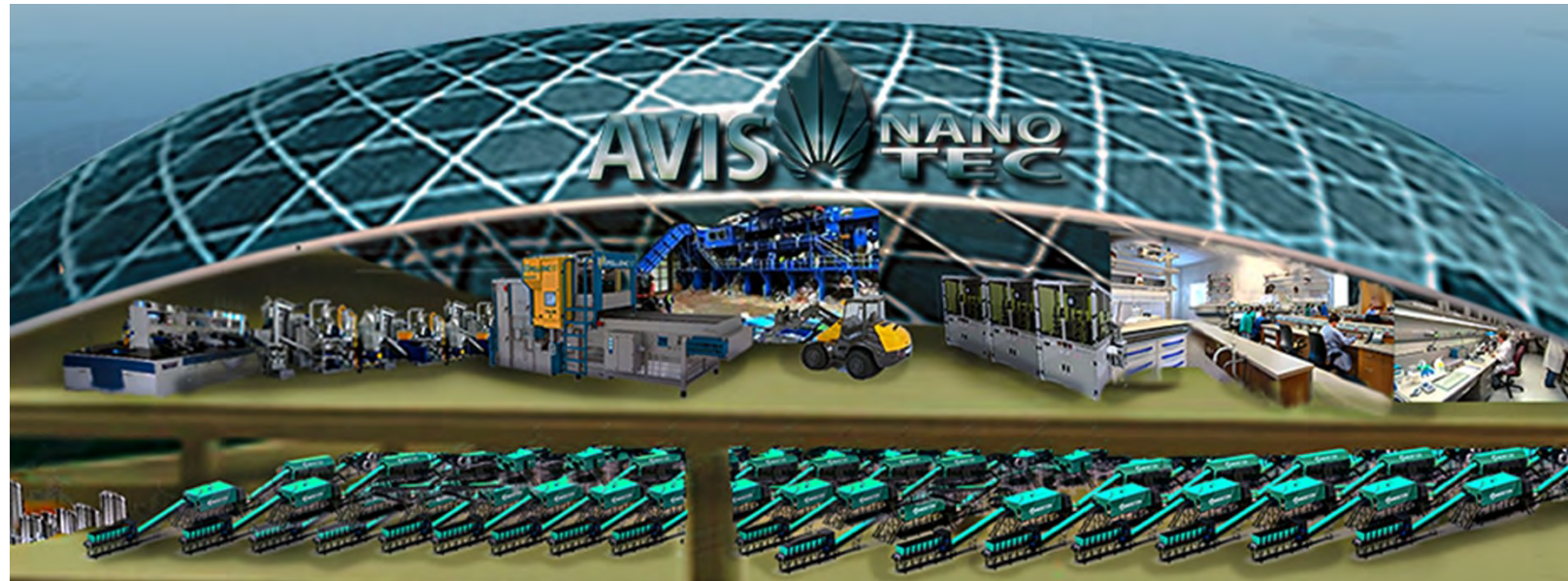
Waste input material controlling
Valuation and electronic distribution

Nano Powder output material
controlling
electronic switchboard for distribution

Composite experimental laboratories

University interaction for new composite
materials research

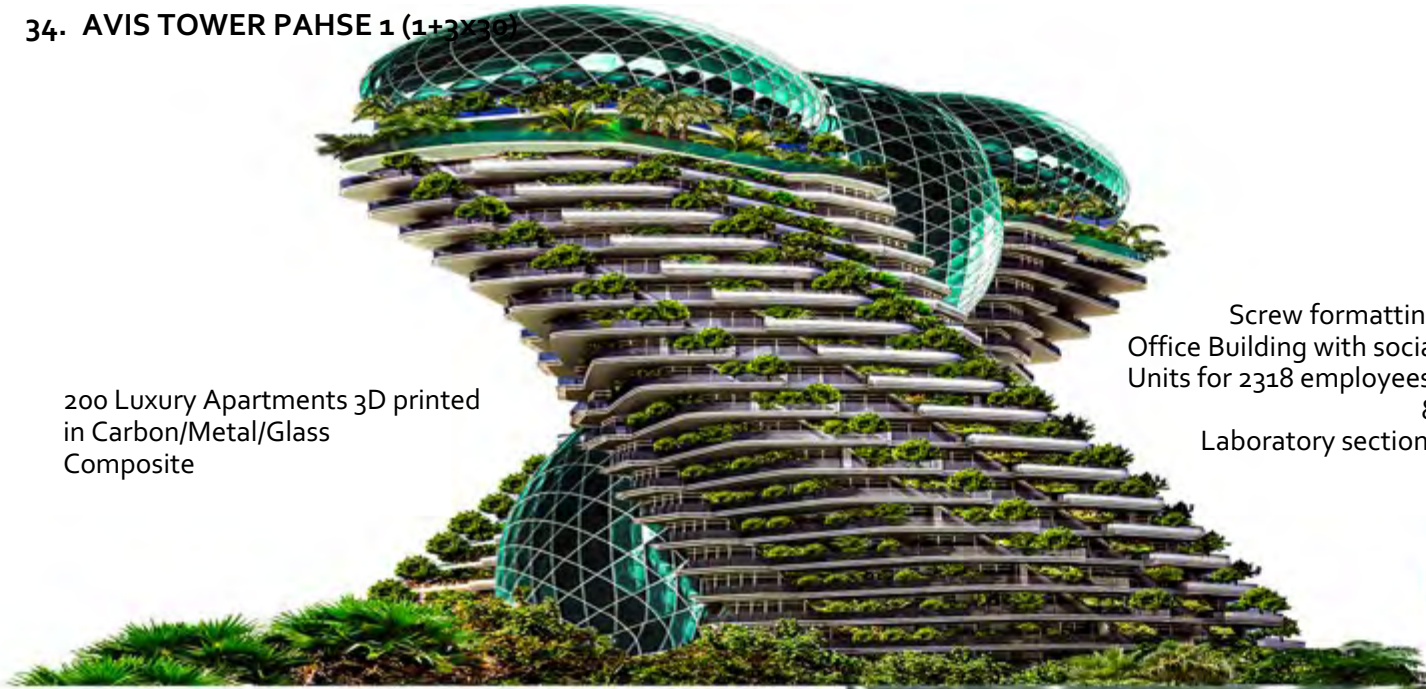
Selection laboratory for 3D kinetic fusion
printers



33. FIRE SAFETY

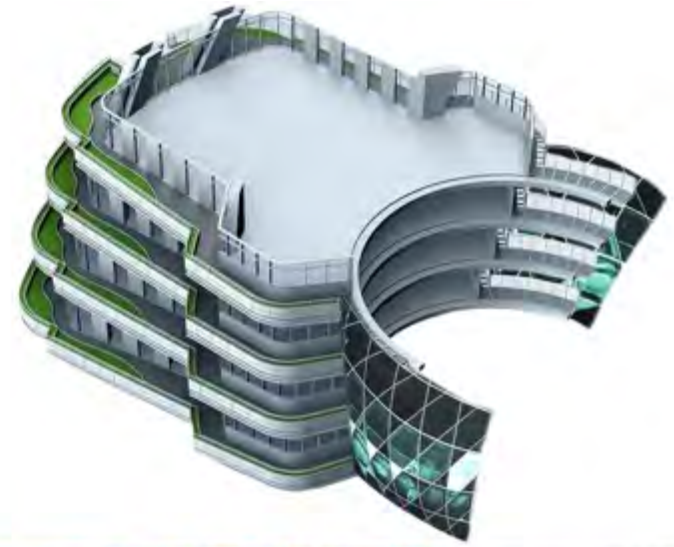
Generally, fire measurements Taking care off	Structural fire protection is a preventive fire protection measure. It aims at preventing the further propagation of fires. Its maxim is "divide and conquer" ("divide et impera"): Accessibility for the fire brigade, protection intervals between buildings and installations, fire walls between adjacent buildings, construction materials and construction parts made of hardly combustible material, high fire resistance of girders and load-bearing parts, creation of fire compartments to limit smoke and heat propagation sealing off installation ducts and channels, short and safe escape routes and emergency exits, if possible, separate ignition sources from combustible materials, lightning protection systems Manufacturing a door with a predefined fire resistance value. But making sure that the fire door will indeed be locked tight in case of fire.
Installations	Safety Systems Gas Warning Systems Fire Detection Systems Alarm and Evacuation Systems Escape Routes and Emergency Lighting Smoke Protection Systems Fire-Fighting Systems Fire Extinguishing Systems Organizational Fire Protection
Fire Protection Concept taking care of	Fire protection regulations construction rules environment protection laws statutory orders on hazardous incidents accident prevention provisions.
Technology	https://www.downloads.siemens.com/download-center/Download.aspx?pos=download&fct=getasset&id1=A6V10430678

34. AVIS TOWER PAHSE 1 (1+3x36)

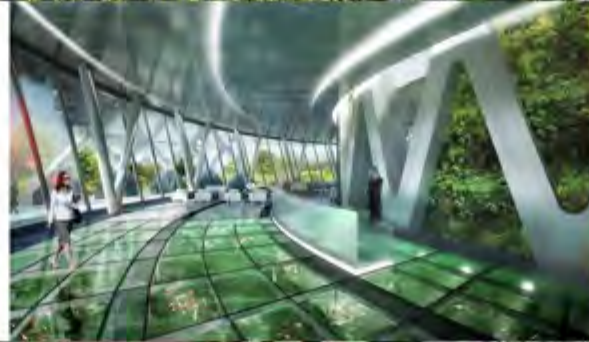
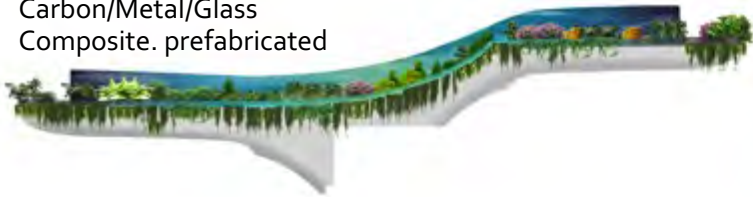


200 Luxury Apartments 3D printed in Carbon/Metal/Glass Composite

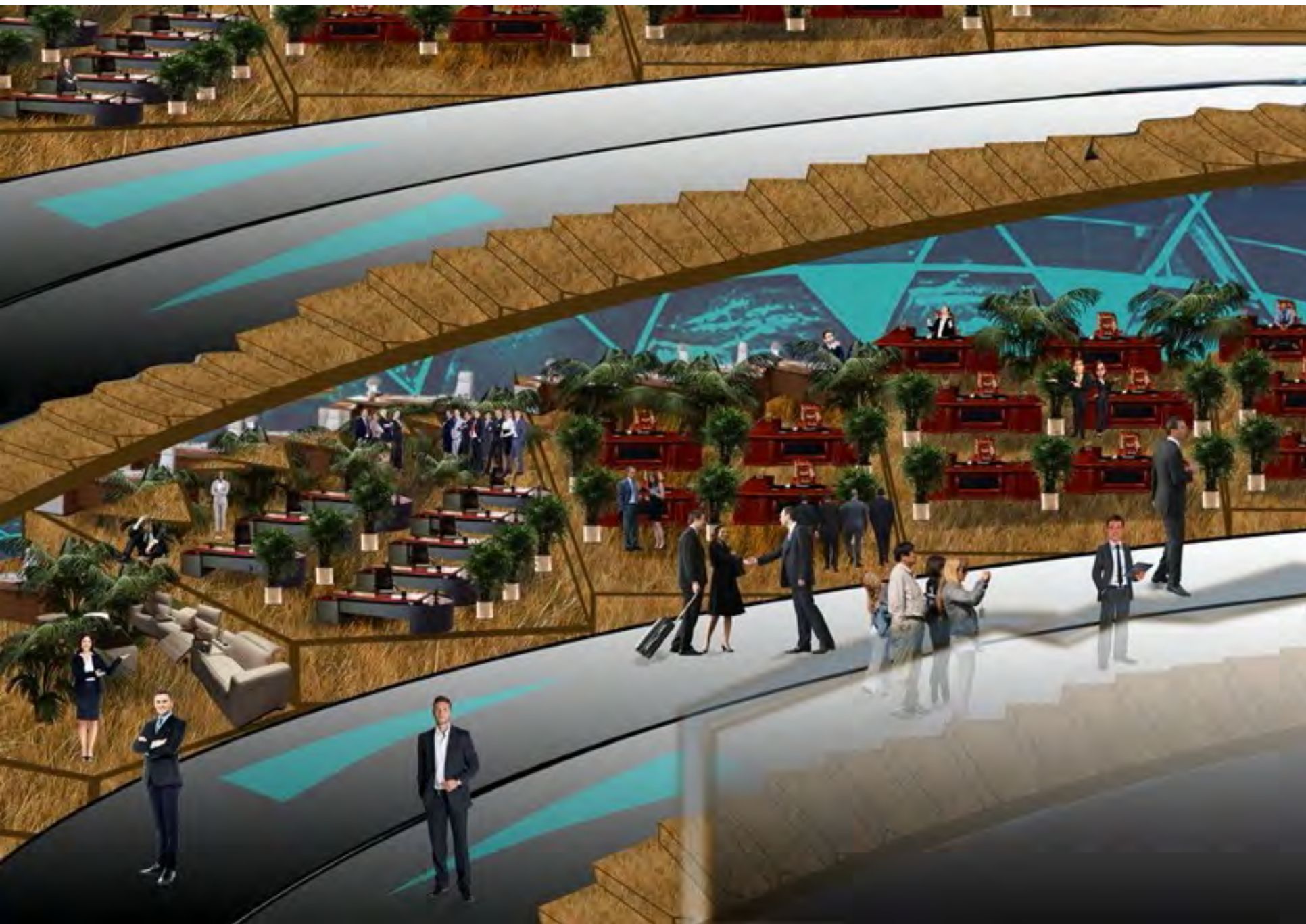
Screw formatting Office Building with social Units for 2318 employees & Laboratory sections



Apartments floor 3D printed in Carbon/Metal/Glass Composite. prefabricated



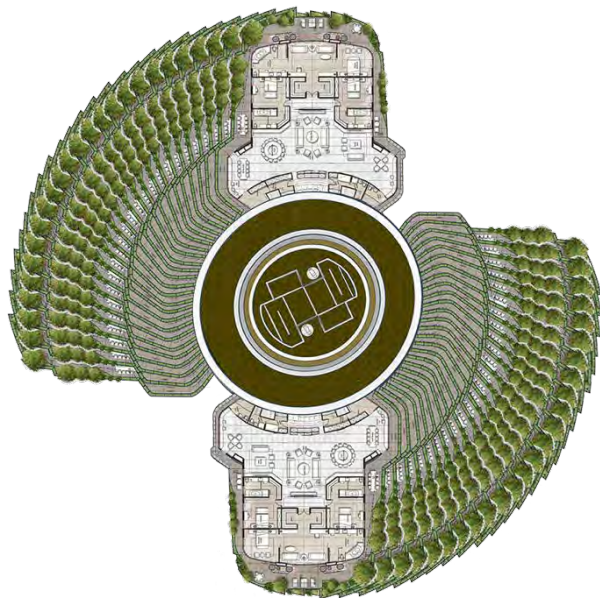
35. OFFICE SPIRAL FOR 2800 AVIS TEAM MEMBERS



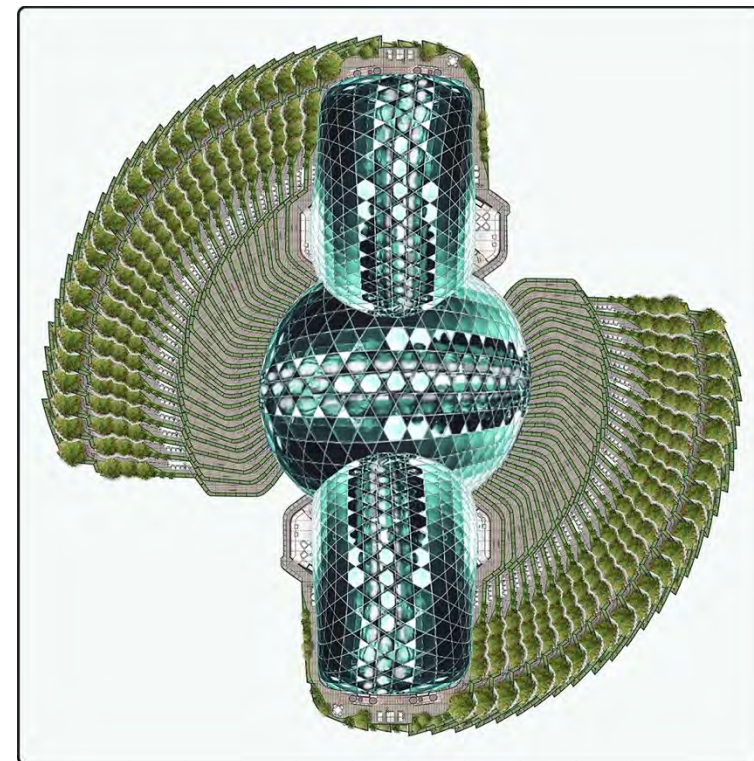
As AVIS Team member you have liberty working from home at your convenient time or you meet your colleagues somewhere at the building. Or maybe at your own working satellite in the tower.

Design criteria and typologies of space adapt to the new working modalities derived of technological development and the information society, in the usual concepts such as the Internet, horizontal organizations, work by processes, causing the ways of working of people in institutions are modified, and the development of new Work spaces.

36. AVIS TOWER OFFICE AND LUXURY APARTMENTS - 3D COMPOSITE CARBON - GLASS - METAL CONSTRUCTION



- 200 Apartments between 85 to 600 m2 plus garden.
- 2318 Working satellites
- 45 Laboratories high secured
- 2 Server Centre
- 12 Restaurants
- 15 Coffee Shops
- Indoor Pool
- Social leaving area 10.000 m2
- 1000 parking spaces
- Space 110 x110 direct construction area plus garden
- 12.100m2 plus 4800m2 garden



3D Kinetic Fusion Print of Nono Powder Composite



25 Floors with room high of 4 m
Apartment wing b40 x l30 m
1200m2

Central tube 27 m diameter
572m2

Office screw tower ring 50m diameter
25 floors office 34.775m2
1391m2 each floor offices 15m2
for each person
2300 working satellites

3 Basement laboratories each
16.900 m2

Heavy working laboratories
50.700m2





Each wing 1200m2 3D printed in bionic format

10% of weight and 100times stronger than conventional construction formatting

Automatic tropical garden system

Earthquake secured

90 days construction time

Own electric power production

Fire resistant

8 lifts person 2 lifts material

2m person traveling band in screw up

2m person traveling band in screw down

3D kinetic fusion robot printers using carbon ceramic-glass-metal composite sourced from garbage

Printing facility up to 200m long and 50m wide

Movable swimming platform

Multifunction

For ship printing

Floor printing

Large construction use



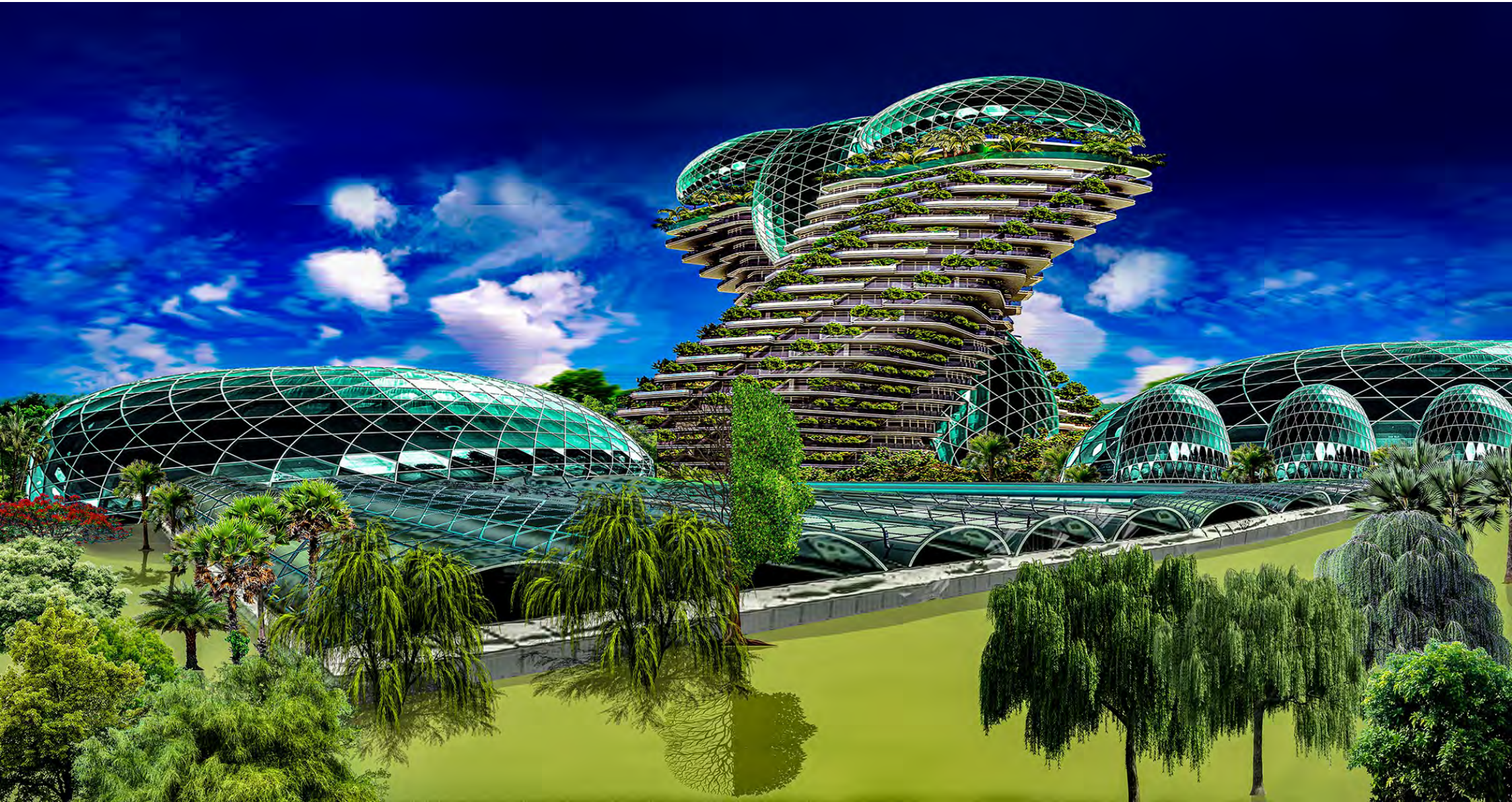
37. AGRICULTURE DEPARTMENT

Type of greenhouse	5 Ha tropical doom formatted glass composite 3D printed
Roof glass skin	3 D printed Photovoltaic skin, hermetic closed
Area	±50.000 ² including service area
Ventilation	NON, hermetic closed
Technology	High performance Photovoltaic printed skin
Temperature	Permanent 40°+/- tropical temperature
Humidity	95%
Agriculture products	Jackfruits & vegetables and technologies are capable to replace the animal farming industry
Quantity	30.000.000 kg/year



38. AQUACULTURE DEPARTMENT

Fish growing basin	Carbon composite 3D printed
Roof glass skin	3 D printed Photovoltaic skin
Dimension	±140x6x6
Growing lines	10
Capacity	10x250 mt/y
Temperature	Permanent 20° to 22°
Quality	High sea fish growing free of chemical products



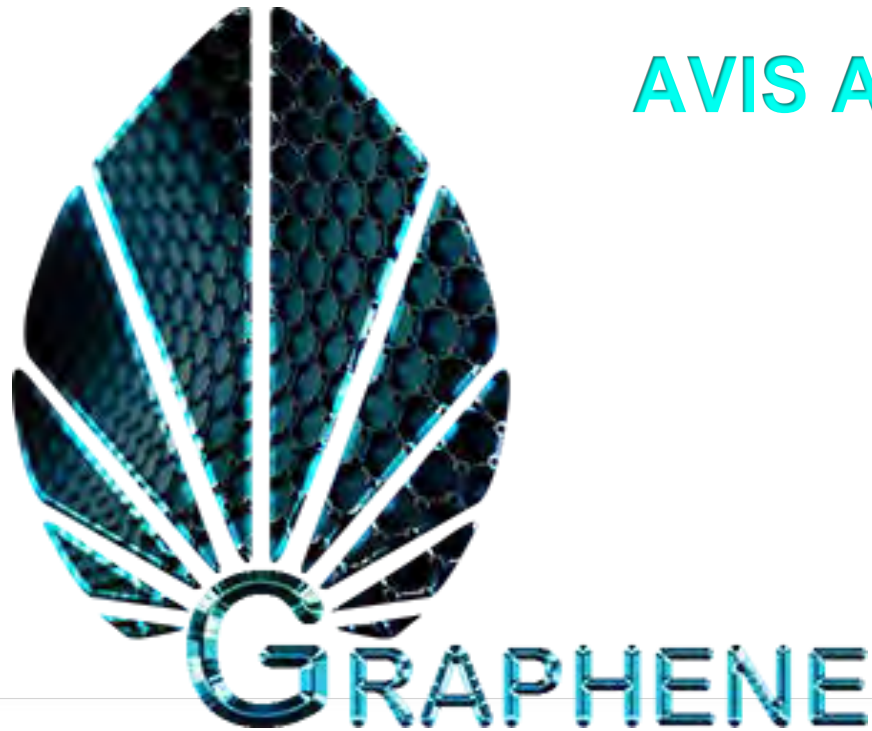


ATOMTHREADS
THE WORLDWIDE LEADER IN GRAPHENE THREADS

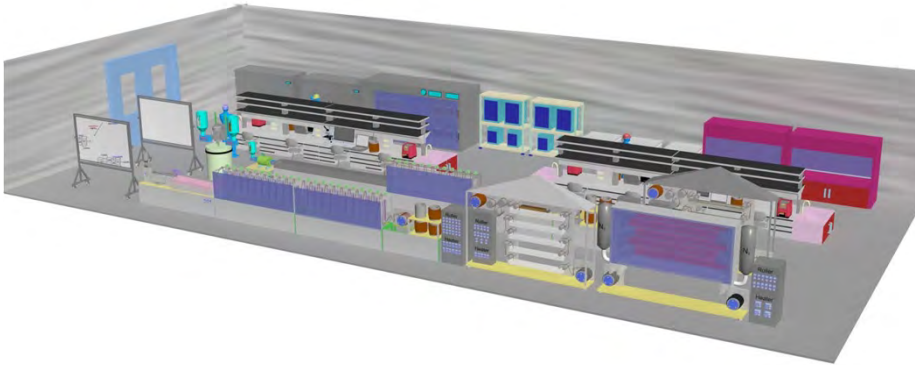


Design for Pilot-Scale Lab in COLOMBIA

AVIS ATOM THREADS PLC



Design for Pilot-Scale Lab for ATC in HYU, Korea [Series A]

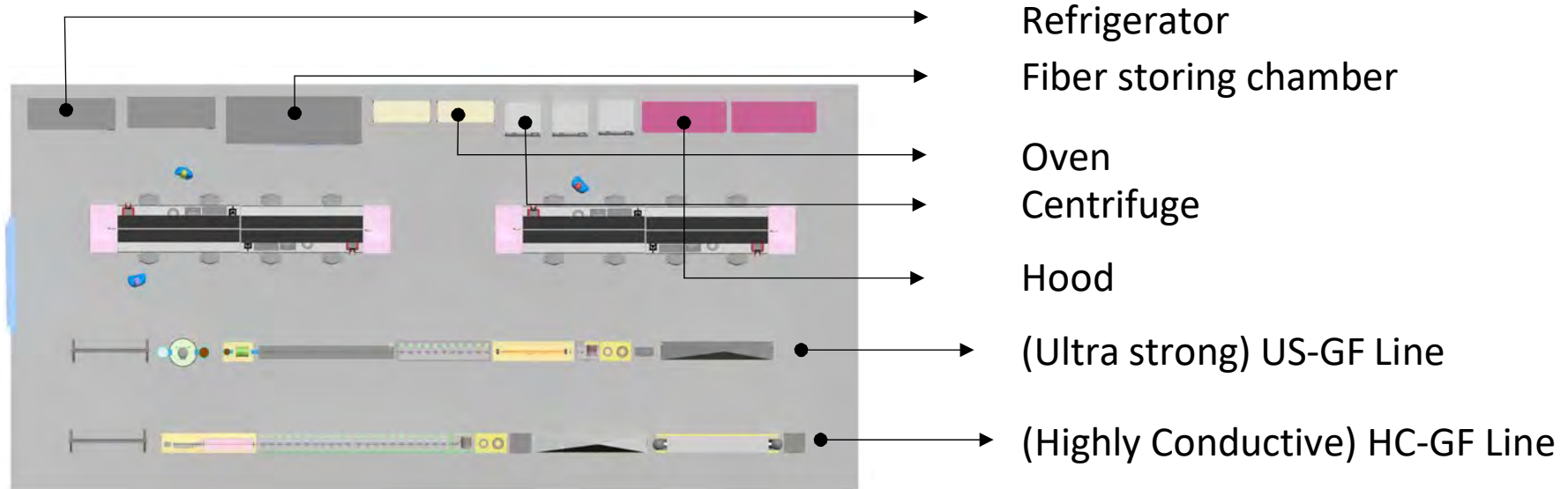


Size : = 12 x 25 m²

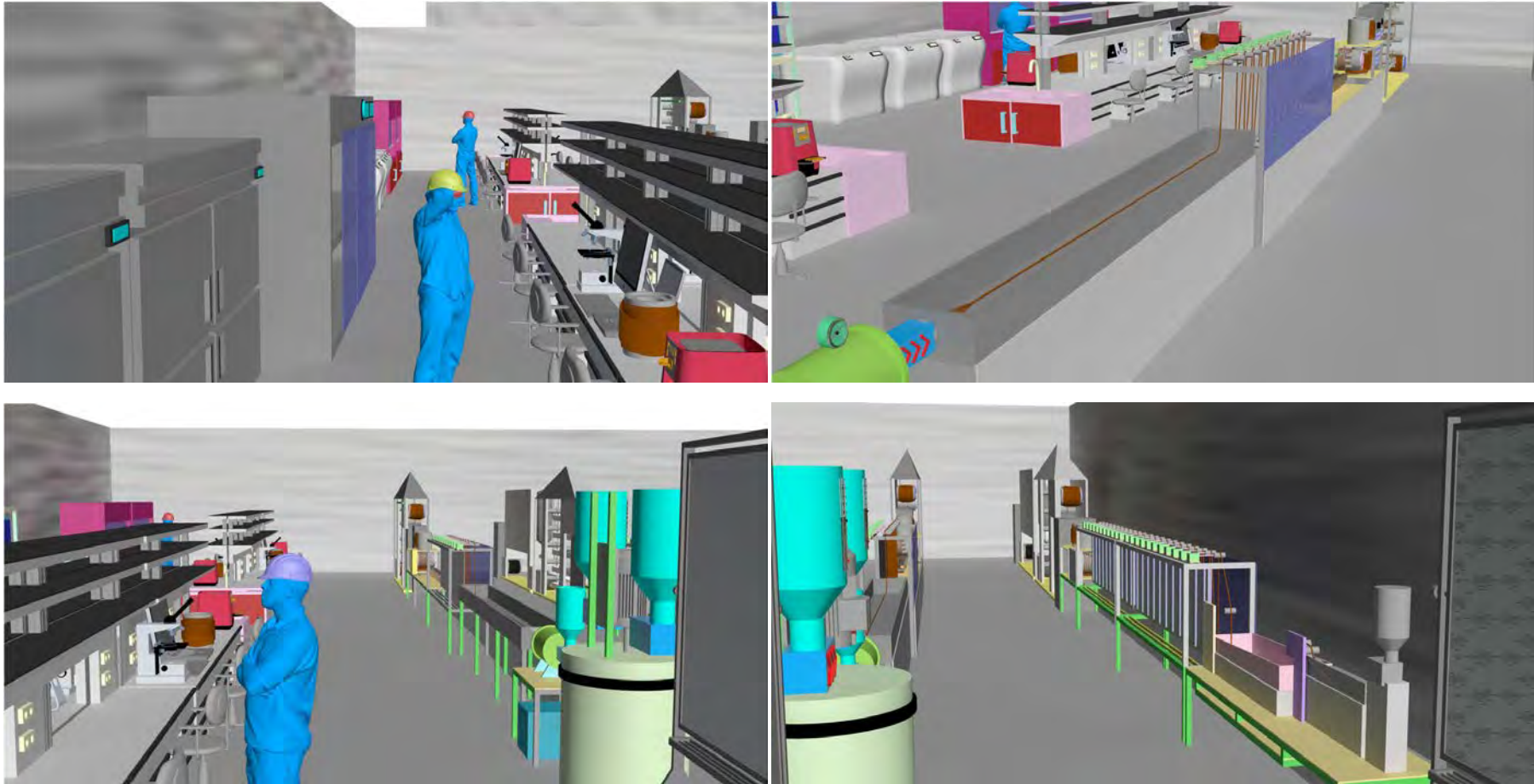
= 39 x 82 ft²

= 3230 ft²

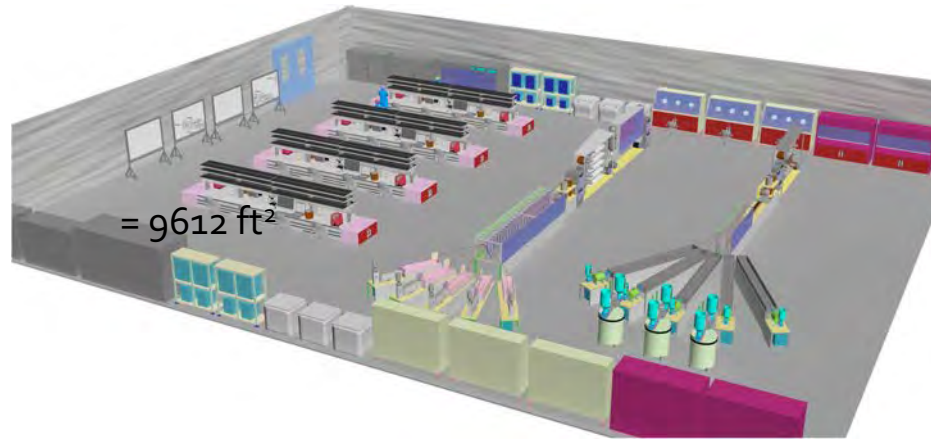
Productivity Scale: 0.5 ~ 1.0 km long fiber



Design for Pilot-Scale Lab for ATC in HYU, Korea [Series A]



Design for Pilot-Scale Lab for ATC in COLOMBIA

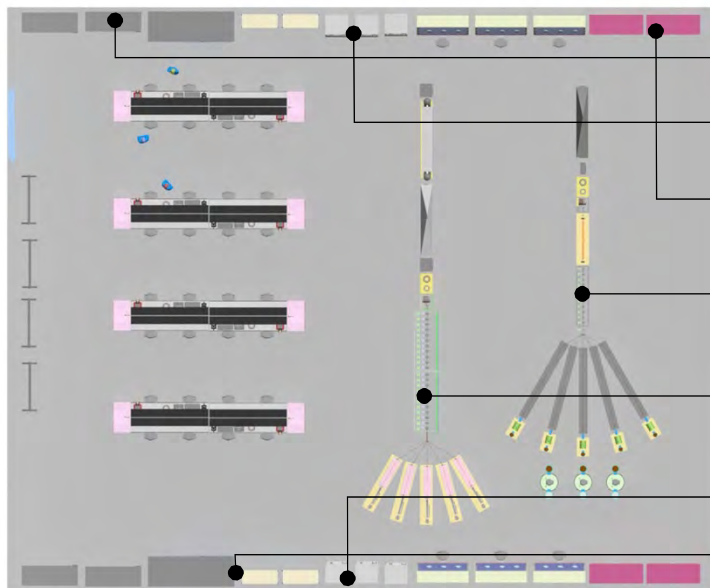


Size : = 27 x 33 m²

= 89 x 108 ft²

Productivity

Scale : 1.0 ~ 3.0 km long fibre



Refrigerator

Centrifuge

Hood

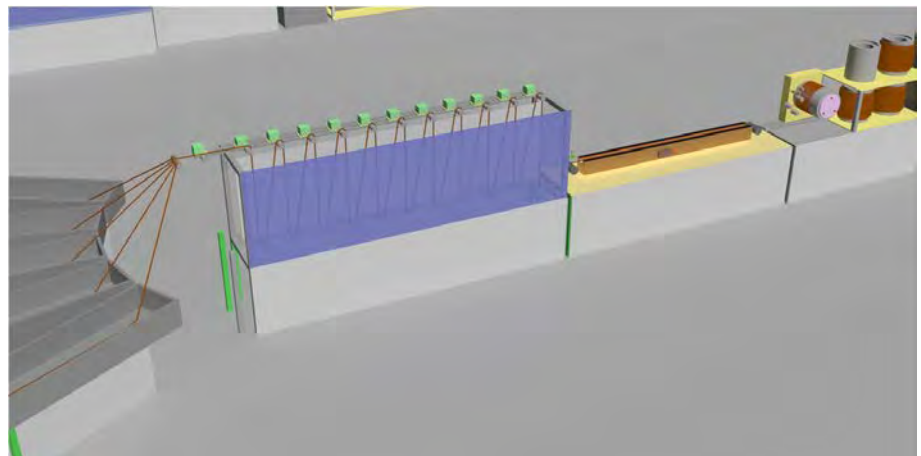
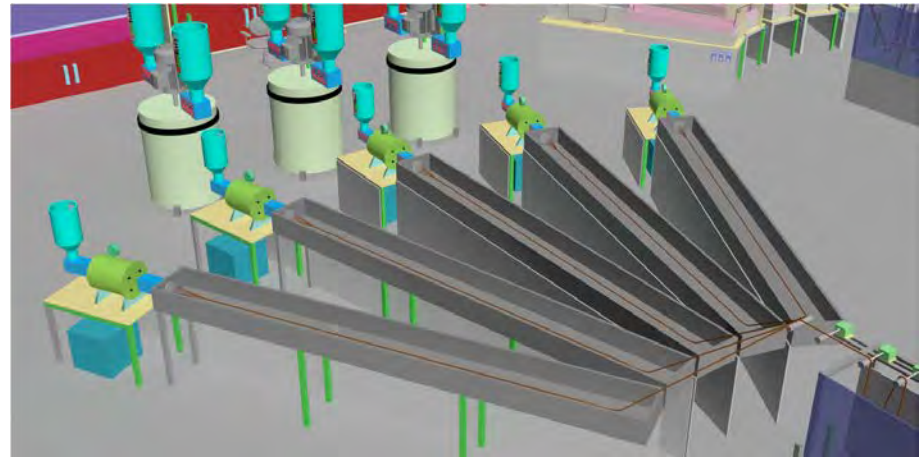
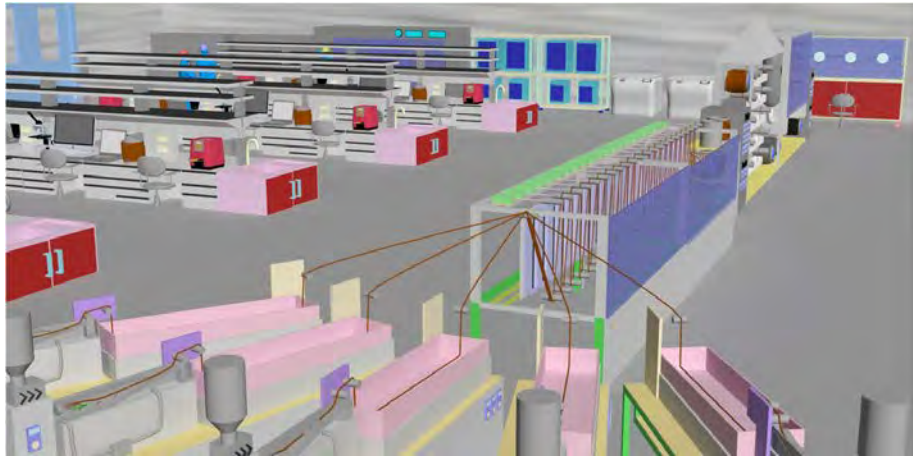
(Ultra strong) US-GF Line

(Highly Conductive) HC-GF Line

Oven

Fiber storing chamber

Design for Pilot-Scale Lab for ATC in COLOMBIA



40. HOST LOCAL TECHNOLOGY DELIVERY FOR THE POPULATION AND LOCAL INDUSTRY

Mining technologies for organic non harmful save and health mineral extraction & for recycling of old landfills and toxic waste dumps



GOLD 3D PRINTING TECHNOLOGY



PURED OUTPUT PRODUCTS

TITAN + a plant for the production of metal powders and micro powders and ceramic metal magnetic powders and powders for special 3D-Printing.

BIO + a plant for biotechnology, focused on the production of biologically active substances (BAS) from vegetable raw materials, biological crop protection and nutritional supplements.

POLIMER + a plant for deep processing of lignin-containing raw material, production of new polymer materials, BAS and biofuels.

CERAMIC + a plant for production of mineral micron powders, pigments, metallic powders for 3D-Printing, activated and functionalized building mixes, additives in concrete.

PRECIOUSES METALS like gold, silver extracted direct from the mining. The gold containing rocks must be cut in 8 cm diameter and treated with the industrial Vortex. 15 metric tons each hour applications available.

UNSORTED WASTE treatment plant for municipal, industrial and toxic waste is a reach source of prime material for new composite structures for 3D-Printing.

INTERIMS FACILITIES DISTRIBUTION BASED ON CONTAINER MUDULES



TO BE USED AS PRIME MATERIAL FOR
NANO POWDER FOR THE NEXT GENERATION OF 3D PRINTED PRODUCTS



4.1. ECONOMIC BUDGET

N°	Name	Unit	Summary
1	The total area occupied by the plant	thousand m2	91.000
2	Volume of powders produced, per year	million tons	15
3	Volume of products by 100 TITOMIC 3D printers, per year	thousand t / year	TBA
4	The total number of employees, people	men	2500
	Including working people	women	1000
5	Energy carrier's consumption		
	Compressed air	thousand m3 per year	2.365.200,00
	Nitrogen	thousand m3 per year	728,00
	Technical water consumption	thousand m3 / year	10.00
	Electricity consumption	MWh / year	113.880,00
7	Cost of production facility	€	50.000.000,00
8	Cost of harbor installation	€	25.000.000,00
9	Cost of Green house facility	€	45.000.000,00
10	Cost of Algaculture facility	€	28.000.000,00
11	Cost of AVIS Tower	€	260.000.000,00
13	Cost of Infrastructure	€	20.000.000,00
14	Budget Construction cost Phase 1	€	418.000.000,00
a	Budget Simmtronics facilities	€	500.000.000,00
b	Budget Graphene installation and Laboratories	€	500.000.000,00
15	Cost of production Equipment	€	300.000.000,00
16	Cost of laboratories	€	25.000.000,00
17	Software & Hardware	€	150.000.000,00
18	Cost of Prototyping 3D printer streets	€	150.000.000,00
19	Selling and marketing	€	10.000.000,00
20	Budget Equipment Phase 2	€	635.000.000,00
21	Gate fee income	€	1.500.000.000,00
22	Trades of nano powder 15.000.000mt price range €50,00 to €300,00 per kg	€	1.000.000.000,00
23	Trades of industrial products	€	50.000.000,00
24	Trades of power production surplus (353.320.000KWh x€1,25)	€	416.000.000,00
25	Trades of organic food 30.000.000,00 kg	€	13.000.000,00
26	Trades of high sea fish 2500mt	€	8.500.000,00
27	Cross income	€	3.087.500.000,00
28	Cross expenses	€	179.250.000,00
29	Cost finance & Banking	€	70.000.000,00
30	Net Benefit	€	2.838.250.000,00
31	Budget Construction Phase 3	€	15.000.000.000.000

42. REGULATORY DOCUMENTS

All works at the plant are organized in accordance with the main EU directives when dealing with waste:

The Waste Framework Directive (2006/12 / EC).

On the protection of the environment and soil when using sewage sludge in agriculture (86/278 / EEC).

On hazardous substances in batteries and accumulators (91/157 / EEC).

Hazardous waste (91/689 / EEC, 94/31 EU).

Supervision and control of transboundary movement of waste (Regulation 259/93 / EEC).

On the waste of electrical and electronic equipment (2002/96 / EC).

Landfills (199 9/31 / EC).

Waste incineration (2000/76 / EC).

Incineration of hazardous waste (94/67 / EC)

Waste statistics (2150/2002 / EU).

On the disposal of used oils (75/439 / EEC).

On the limitation of the emission of certain pollutants into the air by large combustion plants (2001/80 / EC).

Reporting (91/692 / EEC)

Technology basics: <https://www.downloads.siemens.com/download-center/Download.aspx?pos=download&fct=getasset&id1=A6V10430678>