



THE GREEN HUB

AN ENVIRONMENTALLY FRIENDLY RESIDENTIAL, EDUCATIONAL AND LEISURE COMPLEX IN SAINT-DENIS





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ANALYSIS 柬

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LOCATION DIAGRAM

IMPORTANT PLACES

AREA ANALYSIS





LOCATION DIAGRAM

THE AREA IS WELL CONNECTED TO THE CENTER OF PARIS

RIGHT NEXT TO IT IS THE RER-B RAILWAY LINE CONNECTING SUBURBAN AREAS WITH CHARLES DE GAULLE AIRPORT

IMPORTANT PLACES

INDUSTRIAL AREAS AND HEADQUARTERS OF LARGE COMPANIES

GARE DE SAINT-DENIS







IMPORTANT PLACES

BASILICA AND HISTORIC CENTER OF SAINT-DENIS A FILM STUDIO LOCATED IN A RESTORED ELECTRONICA







IMPORTANT PLACES

STADE DE FRANCE - OLYMPIC GAMES 2024 Pleyel Tower - Viewpoint











LOCATION DIAGRAM

THE MOST IMPORTANT PLACES IN THE DESIGN CONTEXT ARE THE STADE DE FRANCE AND THE HISTORIC CENTER







RAILWAY LINE RER-B







THE GREEN PLATFORMCONNECTSTHERESIDENTIAL COMPLEXWITH THE SCHOOL

RESIDENT PARK WITH EDUCATIONAL GARDEN, CITY FARMS AND COMMON AREAS



COMMUNICATION

THE AREA PREVIOUSLY FUNCTIONED AS AN AREA OF INDUSTRIAL HALLS

NO INTEGRATED COMMUNICATION SYSTEM

ROADS NOT ADAPTED TO PEDESTRIANS AND CYCLERS



CONCEPT

PROJECT

CLEAR COMMUNICATION SYSTEM

INTEGRATION OF CURRENT ROADS AND CONNECTION WITH OTHER PARTS OF THE CITY

BICYCLE PATHS AND A WIDE ROAD WITH PEDESTRIAN PRIORITY





BARRIERS

COMMUNICATIONBARRIERSON BOTH SIDES OF THE PLOT

WESTERN BORDER - THE SEINE

EASTERN BORDER - RAILWAY TRACKS



CONCEPT

PROJECT

A FOOTBRIDGE CONNECTING THE DESIGNED AREA WITH THE HISTORIC CENTER OF SAINT-DENIS AND ADJACENT DISTRICTS

EDUCATIONAL PATH WITH OBSERVATION POINTS (NATURE DOCUMENTATION STANDS, VIEWPOINT ON THE SEINE, SAINT-DENIS MUSEUM, ST. DIONYSIUS BASILICA)





LANDSCAPE

UNORGANIZED GREEN AREAS

DIVERSE CITY PARK FOR RESIDENTS AND VISITORS

INSULATING GREENERY NEXT To railway tracks



CONCEPT

PROJECT

INTEGRATING GREEN AREAS

INTEGRATION OF CURRENT ROADS AND CONNECTION WITH OTHER PARTS OF THE CITY

BICYCLE PATHS AND A WIDE ROAD WITH PEDESTRIAN PRIORITY



CONCEPT URBAN CONCEPT



CONCEPT URBAN CONCEPT

1. PLACING EDUCATIONAL AND RECREATION FUNCTION IN THE TERRAIN



URBAN CONCEPT

1. PLACING EDUCATIONAL AND RECREATION FUNCTION IN THE TERRAIN 2. ADDING THE MAIN ROAD CONNECTING ADJACENT PLOTS



CONCEPT

URBAN CONCEPT

PLACING EDUCATIONAL AND RECREATION FUNCTION IN THE TERRAIN
ADDING THE MAIN ROAD CONNECTING ADJACENT PLOTS
CREATING THE INTERNAL SEMI-PUBLIC SQUARE

A CONTRACTOR OF THE OWNER OWNE



CONCEPT SITE PLAN



MAISON COIGNET As a new cultural center and Museum of Saint-Denis

CONCEPT SITE PLAN



FORMER INDUSTRIAL HALL As a New Sport and Leisure Center





RESIDENTIAL AREA

TYPOLOGY OF THE APARTMENTS

CAGE BUILDING





LEVEL O

STRUCTURES ON A MODULAR GRID, WHICH ALLOWS THE SPACE TO BE FREELY ADAPTED TO THE NEEDS OF THE CLASSES.

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GREEN ROOF

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FLATROOFSTRUCTUREBLENDSSEAMLESSLYWITHTHEADJOININGPARK.THEREAREGREENHOUSES,URBANFARMSANDFORESTNURSERIES IN ITS AREA.

IT ALLOWS STUDENTS TO CONTACT NATURE.

LEVEL 1

CUBES AND OVERGROUND PASSAGE TO THE LEISURE CENTER MADE OF STEEL CONSTRUCTION

EDUCATIONAL & LEISURE

Jim

A Jet

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LEVEL 1

TRANSPARENTFACADEDESIGNEDWITHTHEUSEOFISOVERSOLARCONTROLGLASS:SGGCOOL-LITEEXTREME

EDUCATIONAL & LEISUR

Jim

A Jet

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See.

EDUCATIONAL & LEISURE CENTER



EDUCATIONAL & LEISURE CENTER

NURSERY SCHOOL

LEISURE CENTER

CANTEEN ENTRY AREAS

PRIMARY SCHOO







HEAR

AN ORIGINALLY DESIGNED **ACOUSTIC WALL** TO PROTECT AGAINST ACOUSTIC EMISSIONS FROM THE RAILWAY TRACKS

GREENERY USED AS NOISE INSULATION

USING SOUND-ABSORBING MATERIALS

PARTIAL EMBEDDING OF THE BUILDING IN THE GROUND, WHICH DAMPENS NOISE FROM THE NEARBY STREET

FEEL

COMFORTABLE TEMPERATURE ENSURED BOTH IN SUMMER AND IN WINTER THROUGH **APPROPRIATE THERMAL INSULATION** AND A PARTIAL FOUNDATION OF THE BUILDING IN THE GROUND

ADDITION OF **GREEN ROOFS**, **ADJUSTABLE SUN SHADES** AND "PLANT PANELS" TO PREVENT THE BUILDINGS FROM OVERHEATING

A FACADE WITH **PHOTOVOLTAIC PANELS**, TO POWER THE AIR-CONDITIONING SYSTEM

SEE

NATURAL LIGHTING ACHIEVED THROUGH THE APPROPRIATE **ORIENTATION OF THE BUILDING**, LIGHT ATRIUMS, LIGHT SHELF SYSTEMS, SUN WELLS AND SKYLIGHTS.

EXTERNAL BLINDS ON THE FACADE TO DIFFUSE THE SUNLIGHT

VIEW OF DIVERSE GREENERY - GREEN ROOFS, PARK, BIOSWALES, ARTIFICIAL WETLANDS, URBAN FARMS, GLASSHOUSES. **NATURAL MATERIALS.**

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HIGH AIR QUALITY ACHIEVED THROUGH: USING **NIGHT-TIME BUILDING COOLING SYSTEMS, NATURAL VENTILATION** AND ENSURING ADEQUATE AIR EXCHANGE

ADEQUATE AIR HUMIDITY IN THE BUILDING HEALTHY MICROCLIMATE IN THE WHOLE COMPLEX

SMOOTH BUILDING FORM SUPPORTING NATURAL VENTILATION AND PROTECTS AGAINST DRAUGHTS



FUNCTIONAL SCHEME OF RESIDENTIAL AREA

LEVEL 1

SHARING SPACES TECHNICAL AREAS GYM OFFICES CONFERECE ROOMS READING ROOM COMUNICATION GREEN ATRIUM

FUNCTIONAL SCHEME OF RESIDENTIAL AREA

LEVEL 2

SERVICES Comunication

FUNCTIONAL SCHEME OF RESIDENTIAL AREA

LEVEL 3 Residential areas

GREEN TERRACES GREEN ROOFS ECO WALL

SAINT GOBAIN ECO WALL

NEW GENERATION LOW-EMISSION SAINT-GOBAIN GLASS FOR ACOUSTIC VENTILATED SOLAR PANEL WALLS

THE ECO-WALL FUNCTIONS AS AN **ACOUSTIC BARRIER** INSULATING THE BUILDING FROM THE SOUNDS OF THE RAILWAY LINE

THANKS TO THE USE OF SOLAR GLASS, IT PROVIDES ENERGY TO THE RESIDENTIAL COMPLEX

THE PANEL MODULES ARE MOUNTED ON A SPECIAL HINGE AT 1/3 OF THEIR HEIGHT, SO THAT THE WIND MOVES THE GLASS ELEMENTS, PROVIDING ADDITIONAL VENTILATION.

MULTI COMFORT HOUSE

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MATERIAL SOLUTIONS

MULTI COMFORT HOUSE

MATERIAL SOLUTIONS

ISOVER SILATHERM WVP 1 - 035 STYRODUR CS ISOVER AKUSTIC EP 3 ISOVER AKUSTIC TP 1 TRIPLE-GLAZED WINDOWS IN APARTMENT BUILDINGS **SOLAR CONTROL GLASS SGG COOL-LITE EXTREME** IN THE SCHOOL

BEFORE

INDUSTRIAL AND STORAGE AREAS, NO SOCIAL INFRASTRUCTURE, SPORT AND RECREATION AREAS

AFTER

A SAFE AND USER-FRIENDLY SPACE, EQUIPPED WITH VARIOUS SERVICES, PUBLIC ZONES, GREEN SPACES, AND WELL-CONNECTED WITH OTHER PARTS OF THE CITY

