ENABLING SUSTAINABLE FUTURE
**CORE CONCEPT** is a new venture of dynamic, well trained, focused and experienced professionals.

**VISION**
To be part of the mid and long term growth and development of emerging nations providing state of the art infrastructure design.

**MISSION**
In close contact with emerging world powers, provide growth tools in the shape of consulting services focused on urban and territorial planning and general construction.

**CORE CONCEPT** imparts feasibility studies as well as provides advisory & design services for public & private infrastructure projects that will landmark the future. Our team has broad experience in countries such as Angola, Mozambique, Libya, USA, Ghana, Brasil and Portugal and it’s fueled by a passion to deliver solutions for architecture and engineering challenges that significantly improve the quality of life for the users and become icons for generations to come.

The team includes architects, landscapers, civil, mechanical and electrical engineers providing end-to-end customizable services that will not only surpass your needs but also your expectations. We are confident of our work because our designs are earmarked by three value pillars:

**QUALITY | AWARENESS | DILIGENCE**
QUALITY
Ensuring highest quality work, regardless of the design field, is guaranteed. Our track record suggests that your investment will pay off during its lifespan by efficient use and reduced maintenance. Our careful design results in an economically and environmentally conscious product, achieved with the depth of experience that our team relies upon.

AWARENESS
Meeting the needs of future users and their integration with the existing culture is key for success and economic balance. Our awareness is guaranteed by the international exposure, and the extended experience that CORE CONCEPT’s team possesses.

DILIGENCE
Fast designs and adaptive response to changing needs during the development of a project are crucial elements for a successful venture. The suite of technological tools we put to use as well as our high mobility spirit ensures that you have our expertise readily accessible all along the project’s life cycle.
INFRASTRUCTURE
- Roads
- General Drainages
- Transport Planning
- Structural Design

PLANNING AND URBANISM
- Master Plans
- Urban Plans
- Strategic Plans
- Allotments

LANDSCAPING
- Parks and Squares
- Large Plans Over Land Development
- Small Gardens

ARCHITECTURE
- Housing
- Equipments and Services
- Commercial
- Interior Design
INFRASTRUCTURE

1 | ROADS

All our road designs adhere to the local regulations and we also add some European considerations that are vital to the mid and long term use, such as “aquaplaning” avoidance design and super elevation. The concepts and intense care we place into the safety of users helps reduce the number and severity of accidents in the long run. We balance between cost constraints, construction method limitations and safety considerations.

Our designs include:

• Planning, feasibility study, sizing and traffic quantification
• Geometry
• Pavement
• Bridges and tunnels
• Drainage
• Road Signs
• Accident reduction and mitigation measures

Our team has designed several hundred kilometers of roads for various purposes (highway, freeway, urban, local), using several technologies (bituminous, concrete, improved soil), at different locations (urban and rural Africa and Europe) and for disparate clients (central and local government, large private investors).

2 | GENERAL DRAINAGES

In massive developing countries, drainage of both rainwater and sewers is a crucial factor for the development and the improvement of living conditions. We provide consulting services that will help you plan not only at macro level but also provide local or micro solutions.

• Assessment, feasibility studies and cost analysis
• General Planning
  - Macro Drainage system
  - Block-level planning
  - Street-level planning
• Urban engagement
Our team’s years of experience in Macro drainage planning in several African and European countries gives us the confidence to provide safe, efficient and low cost solutions that can revolutionize the living standards of big and small communities alike.

3 | TRANSPORT PLANNING

The transport network of any country, region or city defines the mobility and hence directly impacts living standard of the population. Our recommendations stem from efficient assessment of your needs and cognizance of current trends that are sure to lead you on the path to modernization and success.

“A developed country is not a place where the poor have cars. It’s where the rich use public transport”
Enrique Penalosa, former Mayor of Bogotá, Colombia

CORE CONCEPT provides consulting services that consider the growth trends, local and national specifications, future development needs and expected demographic shifts to determine what transport infrastructure(s) should be planned with timeline and investment/return analysis.

4 | STRUCTURAL DESIGN

Structural design is the core piece of any building project, regardless of the use. At CORE CONCEPT, we have a highly experienced team with broad knowledge of state of the art solutions that provide maximum safety and performance with the best cost-ratios.

In strict cooperation with all the regulatory departments, we provide services, including buildings design and analysis, using a wide range of construction methods such as concrete, steel, masonry and timber. We provide foundation design and analysis for retaining walls and even underground structures and bridges.

CORE CONCEPT expertise also includes rehabilitation and therefore, we provide solutions to reinforce and improve the performance of existing structures.

All our designs follow local regulations and consider the surroundings, taking into account the natural changes in environment and the climate.
Urbanism is the most important decision making tool in regards to changes in territory. It solves organizational issues and limitations, improving the way human activities operate and interact while implementing public policies concerning social development. Urbanism improves life standards for cities, neighborhoods, streets and housing complexes.

The increasing complexity of contemporary societies leverages the relevance of Urban Planning as a tool for compliance of strategies founded on sustainable and balanced development of a territory.

In order to create good urban planning, it is essential to be aware of what makes a community vibrant & cohesive, while simultaneously respecting the traditions. We create concepts that are perpetual by designing and facilitating adaptability for generations to follow.

Territorial Planning encompasses range of engagements and clients such as public bodies (local and central governments) and private investors, providing the following services:

• Master Plans
• Urban Plans
• Strategic Plans
• Allotments

CORE CONCEPT has an experienced team in territorial designs, complemented with thorough understanding of communities and their needs.
LANDSCAPING

Landscaping shapes nature, complementing Urban Planning by merging it with construction in a multidisciplinary science. What displays more comfort, growth and civilization than beautifully planned and conceived green areas amongst intensely populated areas? That’s the purpose and value of Landscaping as comfortable locations in a city are a core equipment to guarantee good living standards of any population.

Landscaping reaches out and compiles different knowledge areas such as:

- Botany
- Biology
- Agriculture
- Math
- Sociology
- Climate and soil specifications

**CORE CONCEPT** Landscape department works on different projects with a broad range of use and scale:

- Small, intimate gardens in residential compounds
- Parks and Squares
- Large plans covering acres of land development

Landscaping creates designs that should endure for many years and adapt for each season, considering a sustainable environment. **CORE CONCEPT** provides Landscaping services either as stand-alone designs or as complement to another service.

**CORE CONCEPT** never views the designs exclusively as a landscape project but instead, in cooperation with other departments, assures a perfect fit with the surroundings and timeless performance.
Architecture goes beyond mere construction; it is a culture, an alliance between art and science. It defines the representation of an urban or rural area. Its designs become the landmarks for future. Functional efficiency and comfort are the fundamental pillars of any successful building.

With an internationally experienced team, CORE CONCEPT provides solutions and concepts considering different types of influences and styles uniquely blended with local traditions.

Cities are not only defined by their infrastructure but also by the people that inhabit them. With this in mind, we devote ourselves to capturing the needs, desires and usability that locals require from the buildings we design.

With Public or Private clients, CORE CONCEPT is able to design different typologies: Housing, Equipments, Commerce, Services, Industries and Interior Design.

1 | HOUSING

Residential Architecture is probably the one that entails more knowledge of the deep-rooted local culture. Every resident is connected with the architecture of their property, one way or another, and this connection is felt and lived everyday.

CORE CONCEPT designs all kinds of Residential buildings, aware of one’s budget and distinct purpose (public and private):

- Single-family houses
  - Separated Houses
  - Semi-Detached Houses
- Apartment Buildings
2 | EQUIPMENTS AND SERVICES

Combining the experience of our team from previous engagements, we cover all the service buildings such as gas stations, hospitals and theaters.

CORE CONCEPT understands the specific needs and constraints. Always considering the client’s needs and ideas, we provide unique designs that last and justify the investment, as the buildings become landmarks for the future.

3 | COMMERCIAL

The most important part of a business is the client. Therefore, in an “open door” business, occupancy management, the appearance, and client’s experience must be efficient, pristine, and irreprehensible respectively. We have stylish and trendy solutions that are easy to maintain and effective in projecting quality semblance to the client.

We have worked with franchises, large store chains as well as exclusive and high-end restaurants and bars.

4 | INTERIOR DESIGN

All our work is complemented with our interior design services. We provide entire gamut of services ranging from introductory guidelines to full scale design. We have a team with experience in interior design of residential and social buildings such as trendy bars and restaurants.

Sometimes architectural perfection is not enough and small details define the unique ambience that clients seek. We can customize your silverware, furniture and even art pieces to create that perfect mise-en-scene.
ARTUR CASTRO  MANAGING PARTNER

Artur is a Civil Engineer with broad design and consulting experience amongst future world powers. He has extensive knowledge of the European and African reality and a passion about leaving a mark on the development trends.

MBA graduate from Hult International Business School in the United States, he founded and cochaired an African Business Club promoting business relations between countries towards Africa.

He’s the face and soul of CORE CONCEPT’s expansion plans, being the number one responsible for the guarantee of the three pillars: Quality, Awareness and Diligence.

All his technical knowledge is challenged daily as he accumulates academic activities as a Professor of subjects related with construction including: Construction Planning, Project Management, Construction Methods and Construction Materials. Due to his renown experience and academic background, he often works as a consultant to Portuguese construction companies and he’s PMP certified.

His experience in construction design and project management is extremely broad, including different countries (Portugal, USA, Angola, Mozambique), different roles (project manager on site and design), different clients (Local and central governments, large private companies, state owned companies and small startup ventures) and various uses (factories, roads, urban planning, service buildings, rehabilitations, major public equipments and residential buildings).

Main Projects:

Highway Design including geometry, pavement, drainage, intersections and road signs in excess of 300 Km:

• Dange - Muxaluando, Angola (70 Km)
• Quimaria - Bessa, Angola (110 Km)
• Cabinda - Landana, Angola (intersections in a 2x2 highway)
• Yabi's, Angola (16 Km)
• Cabinda Semi-beltway, Angola (22 Km - 2x2)

Urban Planning including feasibility studies, master plan, geometry, power and water supply infrastructure, drainage, pavement and road signs:

• Panguila’s Industrial Park, Panguila, Angola (2 ha)
• Kilamba Kiaxi, Luanda, Angola (130 ha)
• Cacuaco, Luanda, Angola (230 ha)

Other designs such as Luanda’s Arbor (Angola) Master Plan, pavement, drainage, road signs and power and water supply grids and public lightning.
JOANA PINHO ARCHITECTURE AND URBANISM

Joana is an experienced Architect with vast knowledge and experience in urban planning and development consulting. Her work process reflects the care she puts into everything she does and the search for optimal integration and sense of community.

On her previous work experiences she had the opportunity to collaborate in very different urban and architectural typologies and scales: from single-family houses to urban parks, equipments, industrial parks, urban and master plans.

The most relevant Urban Plans are:

- Chongoroi’s Master Plan, (3900 ha), Benguela, Angola
- Kilamba Kiaxi’s Urban Plan (130 ha), Luanda, Angola
- Chongoroi’s Urban Plan (25 ha), Benguela, Angola
- Chongoroi’s Urban Plan (50 ha), Benguela, Angola
- Caniçada’s Neighborhood Detail Plan (16 ha), Terras de Bouro, Portugal
- Panguila’s Industrial Park (2 ha), Luanda, Angola
- Ribeiro das Gordairas’s Urban Park, Terras de Bouro, Portugal

The most relevant Architectural Projects are:

- Ilídio Pinho Auditorium’s Alteration, Universidade Católica Portuguesa, Porto, Portugal
- Single-Family House, Arouca, Portugal
- Single-Family House in Fão, Esposende, Portugal

RITA CUNHA HYDRO RESOURCES AND ENVIRONMENT

Rita is a true force of nature devoting her life to water related issues. She has a Master in Civil Engineering with specialization on Hydraulics, Water Resources and Environment.

She is currently taking a graduate diploma course in Integrated Management Systems for Quality, Environment and Safety.

She worked extensively with the public sector developing the Water Supply Network in the city of Porto, Portugal and has vast experience in water supply systems and general drainage, always with a usability and environmental focus.

Her work focused important topics such as reducing water supply losses and the integration and rehabilitation of natural water streams and rivers (66 Km) in existing densely populated areas. Rita played an important role in redefining/restructuring processes allowing energy and internal costs reduction and the increase of reliability and efficiency, through the implementation of better environmental, management and safety practices in the companies she worked with.

Amongst others, she has been involved in the following projects:

- Porto’s Water Supply losses reduction project (500 000 inhabitants), Porto, Portugal
- Wastewater treatment planning, Boa Vista Island (3 000 inhabitants), Cape Verde
- Wastewater treatment and reintegration (Capiberibe River-Basin 5 880 km²) Pernambuco, Brasil
- Involved in the IEMANJÁ Project - Improving water yield through environmental management strategies to promote food security in Latin America.

QUALITY | AWARENESS | DILIGENCE
PEDRO ALMEIDA  MACRO HYDRO PLANNER

Pedro Almeida has a Masters degree in Civil Engineering, with a specialization in Hydraulics. He has massive experience in major development projects in Africa, especially in Angola and focused in water distribution and wastewater drainage systems. His work includes, for example, several public schools, shopping centers and many allotments for residential and service purposes.

In regards to buildings he has been involved in the design of all hydro infrastructures including waste and water supply using economic and environmentally stable solutions that play a relevant role in the long run. He’s a fully trained professional when it comes to urban planning and development. He has worked extensively both with private and public clients developing intelligent and sustainable solutions for macro water supply systems including water treatment infrastructures and wastewater treatment facilities.

The most relevant projects in this field are:

- Cazenga’s Elementary School (3 000 sqm), Luanda, Angola
- Cazenga’s Highschool, Luanda (4 500 sqm), Angola
- “Atrium” Shopping Center, Benguela (6 floors x 3 000 sqm), Angola
- Camama I Urban Planning (12 ha), Luanda, Angola
- Camama II Urban Planning (33 ha), Luanda, Angola 33ha
- Restructuring and improvement of the maritimun shore (4 ha), Viana do Castelo, Portugal

JOSÉ LOUREIRO  PROJECT PLANNING AND SUPPORT DEPARTMENT

José is the head of the “on site” support of the team. He focus his activity on providing the necessary technical support to the client, ensuring cost control and planning of all constructions.

He’s a Civil Engineer with massive experience in Budgeting, Project Planning and Control. He’s a valuable asset as he fully and naturally understands the needs, constraints and challenges of building in different countries. He worked in countries such as Lybia, Ghana, Argelia and Angola.

- SONAREF Refinary Project - Construction Management Camp, Angola
- Land’s Commission Headquarters (3 storey office bulding 60 000 sqm), Accra, Ghana
- Royal Tulip Residences (82 luxury apartments), Accra, Ghana
- Bolsa do Pescado Hotel (3 000 sqm), Porto, Portugal
- Industrial Park (10 ha), Paços de Ferreira, Portugal
- Barcelos HighSchool (10 000 sqm), Barcelos, Portugal

NUNO SOUSA  POWER AND TELECOM PLANNER

Nuno Sousa is the holder of a Master degree in Electrotechnical and Computers Engineering, specialized in Automation and Systems. He develops it’s activity in the academic community complemented with the private design field. He possesses a high sense of organization, management and responsibility.

His interests rest in the development of custom solutions in effective and sometimes inventive ways. He has been involved in several designs in Portugal and overseas, mostly in the residential area.

With a diverse and solid knowledge background, he is able to set requirements, budget and design power and telecommunications infra-structure starting from the single house to the large neighborhoods.
CARLOS FERNANDES  POWER GRID DEVELOPER

Carlos has a power mind and is struggling to electrify the world!

Master from Porto’s University in electrical engineering has a specialization in the area of energy and electrical installations.

He worked for the Distribution System Operator in Portugal particularly in economic management and regulation of the electric system. The main tasks involved contributing to the regulation and control of network expansion and exploration.

More recently he is working in investment planning and project analysis, and works extensively in project management.

From small projects design to more complex ventures, he is always eager to apply is knowledge and to develop optimized solutions with sustainability and efficiency in mind.

JOÃO ALMEIDA  GEOTECHNICAL SPECIALIST

João worked as an “on site” and design soil specialist for many years. As soil is a cornerstone of any design, João is also a cornerstone at CORE CONCEPT as he’s involved in all the designs, ensuring the structure will perform as planned for years to come.

He has a Masters in Civil Engineering - Geotechnical Studies and he’s been involved in major projects in Portugal and Africa, giving him the necessary knowledge to correctly evaluate foundation constraints in all kinds of soils.

João was involved in major Service Buildings such as Hotels, Casinos, Hospitals and Port buildings. He was focused on developing and implementing special solutions for foundations that played a critical role in:

- Portuguese-French School (500 m Bauer Ductile Piles), Porto, Portugal
- Melia Hotel (500 m Bauer Ductile Piles), Braga, Portugal
- Hotel and Casino Troia (500 m Bauer Ductile Piles), Troia, Portugal
- Dynamic Building (500 m Bauer Ductile Piles), Braga, Portugal
- Santa Maria Hospital (500 m Bauer Ductile Piles), Porto, Portugal
- Cruise Ship Terminal at Leixões Harbor (2 275 sqm CSM+ 87 000 Kg JetGrounting), Porto, Portugal

He’s also been involved in hearthworks stabilization and massive slope studies in Highway and general transport infrastructure projects such as:

- A4 Freeway from Amarante to Vila Real (2 000 sqm CSM + 775 m JetGrounting), Portugal
- A8 Freeway expansion and improvements (300 sqm CSM), Loures, Portugal
- N224 “talude” stabilization (300 sqm CSM), Castelo de Paiva, Portugal
- N222 Highway improvement and “talude” stabilizations (425 m Geodrain + 5 250 m Ground Anchor), Armamar, Portugal
- Areosa Market Parking lot (700 m Micropiles + 1 000 m Ground Anchor), Porto, Portugal.

CSM stands for the execution of soil-cement panels performed through Cutter Soil Mixing (CSM) technology.
**CORE CONCEPT** delivers fully integrated solutions, on time and with quality, from start to finish of any construction endeavor. To guarantee this, **CORE CONCEPT** has the necessary state of the art tools, qualified and motivated professionals and a network of consultants and external collaborators that ensure that all requests are met.

Our team incorporates specialists with all sorts of Engineering softwares such as:

- Autodesk AutoCAD
- Autodesk AutoCAD Civil 3D
- Autodesk 3Ds Max Design
- Microsoft Project
- Microsoft Office suite
- CSS Estimation Software

All our designs are accompanied by complementary material such as 3D images of the final product in all the design stages, ensuring the client is fully aware of the final results.

Our team keeps itself on top of the technological developments by attending frequent courses, conferences and with close cooperation with universities and research groups, sometimes, leading the way to innovation due to our experience and knowledge of the reality of developing countries.