



BETLIUM Group

ENGINEERING YOUR VISION INTO REALITY



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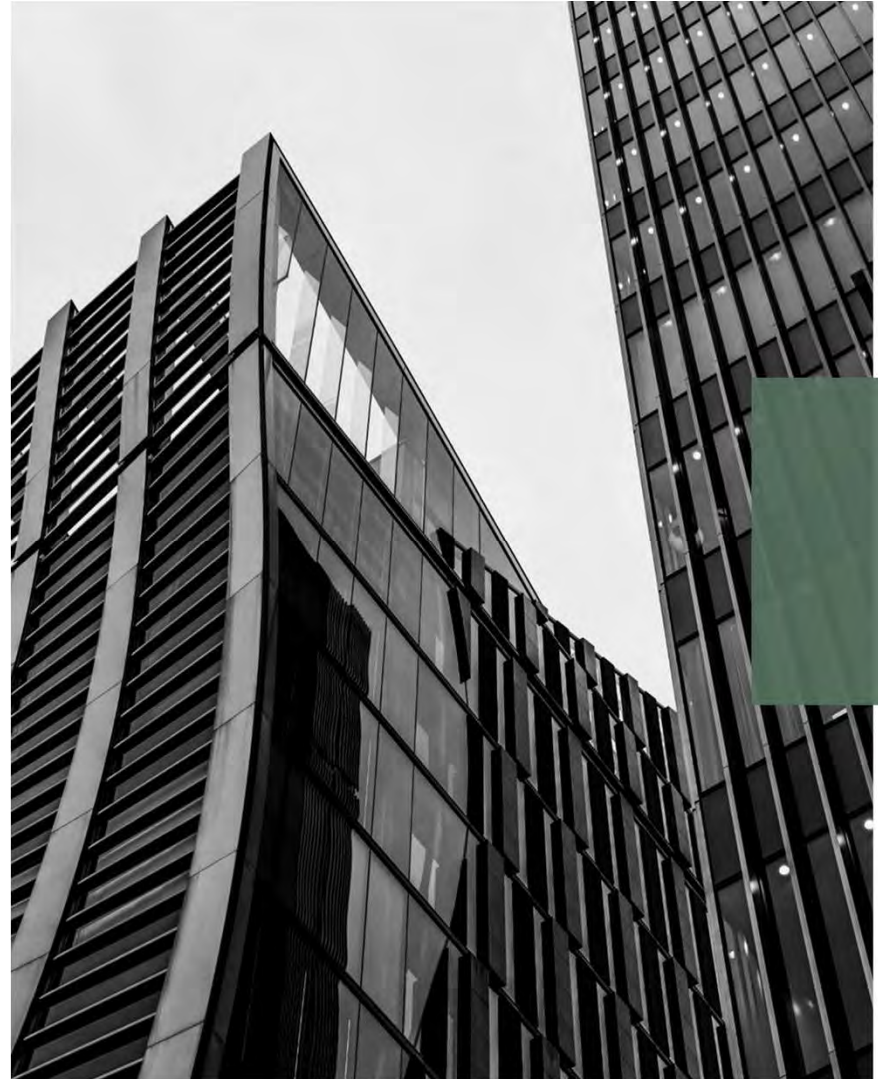
An abstract architectural composition featuring a dark, textured wall on the left with a protruding rectangular block. To the right, a light-colored wall with a grid pattern is visible. A dark green horizontal bar is positioned at the top right, and a dark green square containing the number '01' is centered below the grid wall.

01

ABOUT OUR COMPANY

ABOUT US

At Betlium, we provide comprehensive structural engineering, project management, and construction supervision services for civil engineering, infrastructure and building projects. Our experienced team combines technical expertise and practical know-how to deliver BIM integrated, efficient, sustainable, and high-quality solutions from concept to completion. We work closely with our clients to ensure seamless coordination, timely delivery, and successful project outcomes tailored to meet their unique needs.



OUR TEAM



ROGER KARAM, PMP

CIVIL ENGINEER
PROJECT MANAGER



RAYAN FADDOUL

STRUCTURAL ENGINEER
BIM SPECIALIST

OUR PHILOSOPHY



MISSION

To deliver innovative, efficient, and sustainable engineering and project management solutions that exceed client expectations.



VISION

To be a leading engineering partner recognized globally for transforming complex challenges into lasting outcomes.



VALUES

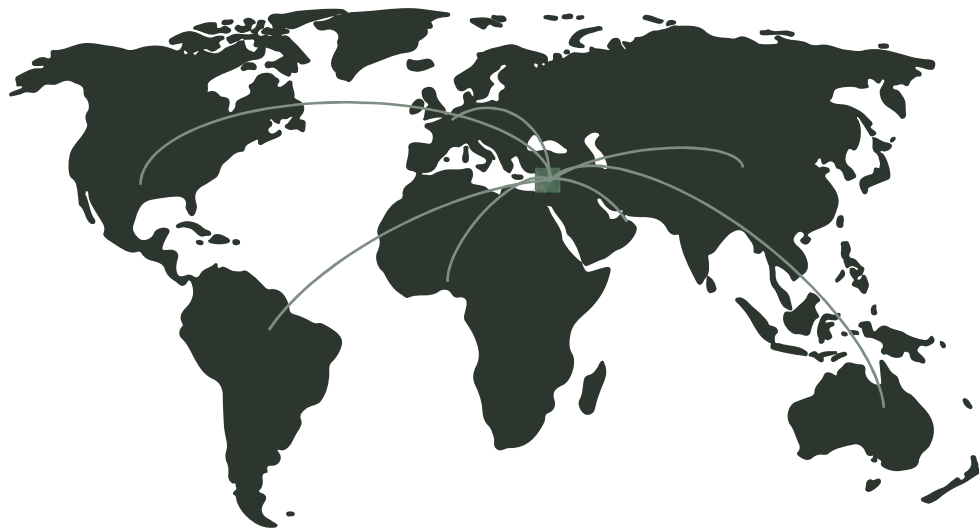
We are committed to integrity, collaborative partnerships, sustainability and innovation to deliver exceptional results.

“The ideal engineer is a composite ... He is not a scientist, he is not a mathematician, he is not a sociologist or a writer; but he may use the knowledge and techniques of any or all of these disciplines in solving engineering problems.”



—N. W. Dougherty

OUR LOCATION



LEBANON

Rooted in Lebanon, our team proudly partners with clients across the globe to bring innovative engineering solutions to every corner.





02

OUR SERVICES



OUR SERVICES

Structural design

Concrete and Steel
Structural Design

BIM Management

3D modeling, Structural
model integration and
clash analysis

Consultancy

Conceptual design,
business plans, real
estate management

Supervision


Quality control and
Quality assurance

Shopdrawings and quantity survey

Detailed construction
drawings, quantity
surveys and BOQs

Project Management

Management of full project
lifecycle and stakeholders
coordination





03

PROJECTS



Residential sector

LA JOYA

La Joya is a luxurious residential complex consisting of 6 villas of 3 stories each located in Valle de Bravo in Mexico.

- **Scope:** Our team was responsible of the Structural design and BIM modeling of the project.
- **Challenges:** complex architectural requirements, and long span cantilevers.



GAIA Residences

GAIA is a residential complex consisting of 5 buildings, located 700 m away from the sea in Limassol, Cyprus

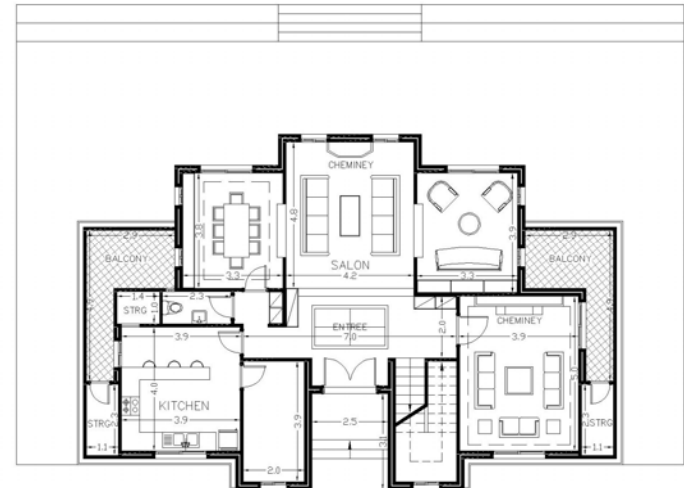
- **Scope:** Our team was responsible of the Structural shopdrawings, quantity survey and BIM modeling.
- **Challenges:** tight construction schedules, complex coordination between different engineering disciplines and large amount of deliverables.



NAJEM Villa

This two-story project, located in Mashmoushe, Lebanon, blends the charm of traditional Lebanese architecture with the elegance and functionality of modern design, creating a harmonious fusion of heritage and contemporary living.

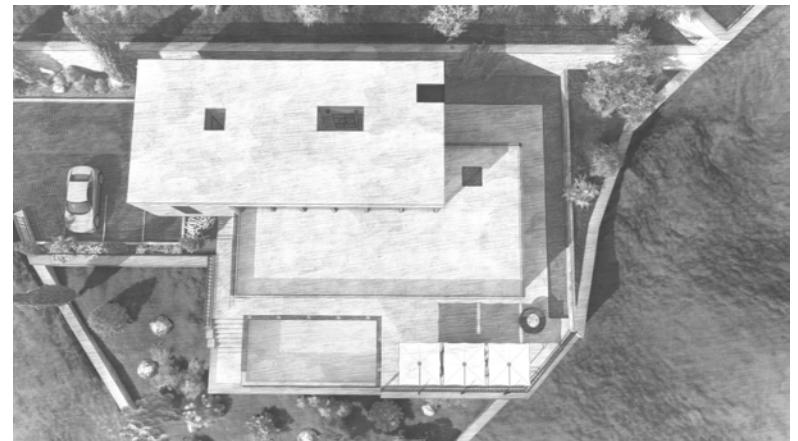
- **Scope:** Our team managed the end-to-end delivery of the project, overseeing all phases from concept and architectural development, structural design and permitting.
- **Challenges:** Meeting the client's complex requirements and diverse functionalities while navigating stringent constraints.



FADDOUL Villa

This two-story project, located in Jezzine, Lebanon, showcases a completely modern architectural style, featuring clean lines, minimalist forms, and exposed concrete finishes that emphasize both strength and contemporary elegance.

- **Scope:** Our team managed the complete delivery of the project, covering all phases from concept development and architectural design to structural engineering, permitting, landscaping, and full construction supervision and management.
- **Challenges:** Overcoming the site's complex topography with cost-effective solutions



RIZK Villa

This modern architectural project, located in Jezzine Lebanon, features geometric forms, cantilevered volumes, multiple interconnected pavilions, floor-to-ceiling glazing, and expansive wooden decks and facades, that blur the line between indoors and outdoors.

- **Scope:** Our team managed the complete delivery of the project, overseeing concept architectural development, and structural design.
- **Challenges:** Achieving a seamless integration of bold aesthetics and functional requirements while ensuring structural feasibility, site harmony, and high energy efficiency.



AOUN Villa

Located in Maknounye, Lebanon, this two-story residence embraces a modern architectural style with a natural earthy-toned palette and a strong emphasis on outdoor living spaces.

- **Scope:** Our team managed the end-to-end delivery of the project, overseeing all phases from concept and architectural development, structural design and permitting.
- **Challenges:** Seamlessly integrating the project into the surrounding landscape and natural environment.



FAKIH Apartment

Situated in the heart of Beirut, this project involved the complete rehabilitation and interior design of a luxurious apartment.

- **Scope:** Our scope encompassed the interior design and construction management of the luxurious apartment.
- **Challenges:** Executing a high-end interior design within an existing structure while ensuring quality finishes and balancing the client's budget with their quality expectations.





Businesses sector

MEDIKACARE Offices

Medikacare is a comprehensive, six-story facility that integrates multiple functions, including a medical equipment storage area, refrigeration unit, maintenance workshop, office spaces, and four distinct types of residential apartments, located in Bamako, Mali

- **Scope:** Our team was responsible for the complete delivery of the project, covering all phases including concept development, architectural and structural design.
- **Challenges:** the seamless integration of the building's diverse functions, ensuring each component met its specific operational and regulatory requirements.



HORSECAVE Club

Horsecave is an exclusive lifestyle destination, blending the thrill of horse-riding with the art of relaxation. The project features a horse stable and horseback riding school, alongside a luxurious cigar lounge, a coffee shop, and a fine-dining restaurant, located in Kfarfalous, Jezzine

- **Scope:** Our team oversaw the complete delivery of the project, acting as the lead consultancy from inception to completion. This encompassed business planning and feasibility studies, concept development, and full architectural and structural design.
- **Challenges:** complex stakeholders management and regulatory requirements.



Lebaa Resto-cafe

This hospitality project combines a Lebanese restaurant, a coffee shop, and a rooftop bar. The venue is complemented by thoughtfully designed indoor and outdoor entertainment areas for children, located in Lebaa, Lebanon

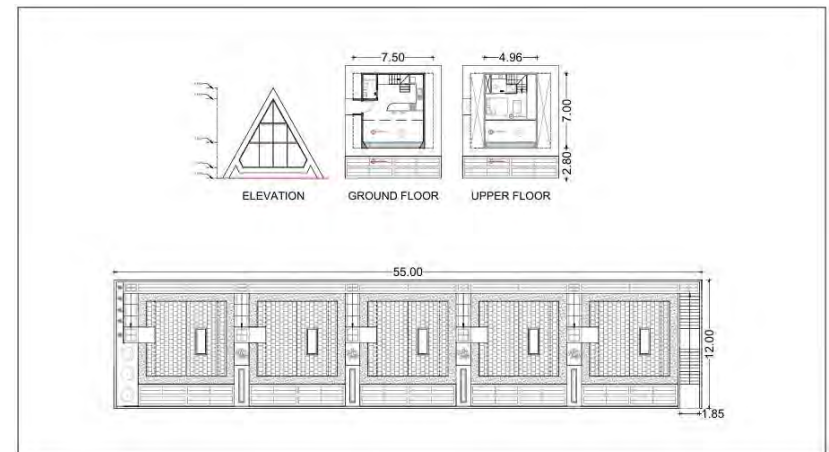
- **Scope:** Our team was responsible for the complete delivery of the project, covering all phases including concept development, architectural and structural design.
- **Challenges:** the seamless integration of the building's diverse functions, ensuring each component met its specific operational and regulatory requirements.



AJABRE bungalows

Located in the Jezzine Mountains, this project features five A-shaped, two-story bungalows designed for all-season vacation retreats, seamlessly integrating indoor and outdoor living spaces.

- **Scope:** Our team managed the complete delivery of the project, overseeing all phases from concept and architectural development, structural design and permitting.
- **Challenges:** Coordinating building materials and navigating site area constraints while maximizing the project's business value.





Infrastructure sector

Aitanit WWTP

Aitanit Wastewater treatment plant accommodates and treats 5000m³/day of wastewater loads, the project consisted of the rehabilitation and upgrade of the plant.

- **Scope:** As part of the supervision team, our role involved overseeing the construction and upgrade of the plant, ensuring compliance with quality standards and requirements, while providing structural integrity design when necessary.
- **Challenges:** Effectively managing and coordinating contractors, ensuring clear communication, timely execution, and adherence to contractual obligations under complex project conditions.



Roum WWTP

Roum Wastewater treatment plant accommodates and treats 565 m³/day of wastewater loads, the project consisted of the construction of the constructed Wetland WWTP.

- **Scope:** As part of the supervision team, our role involved overseeing the construction and upgrade of the plant, ensuring compliance with quality standards and requirements, while providing structural integrity design when necessary.
- **Challenges:** Effectively managing and coordinating contractors, ensuring clear communication, timely execution, and adherence to contractual obligations under complex project conditions.

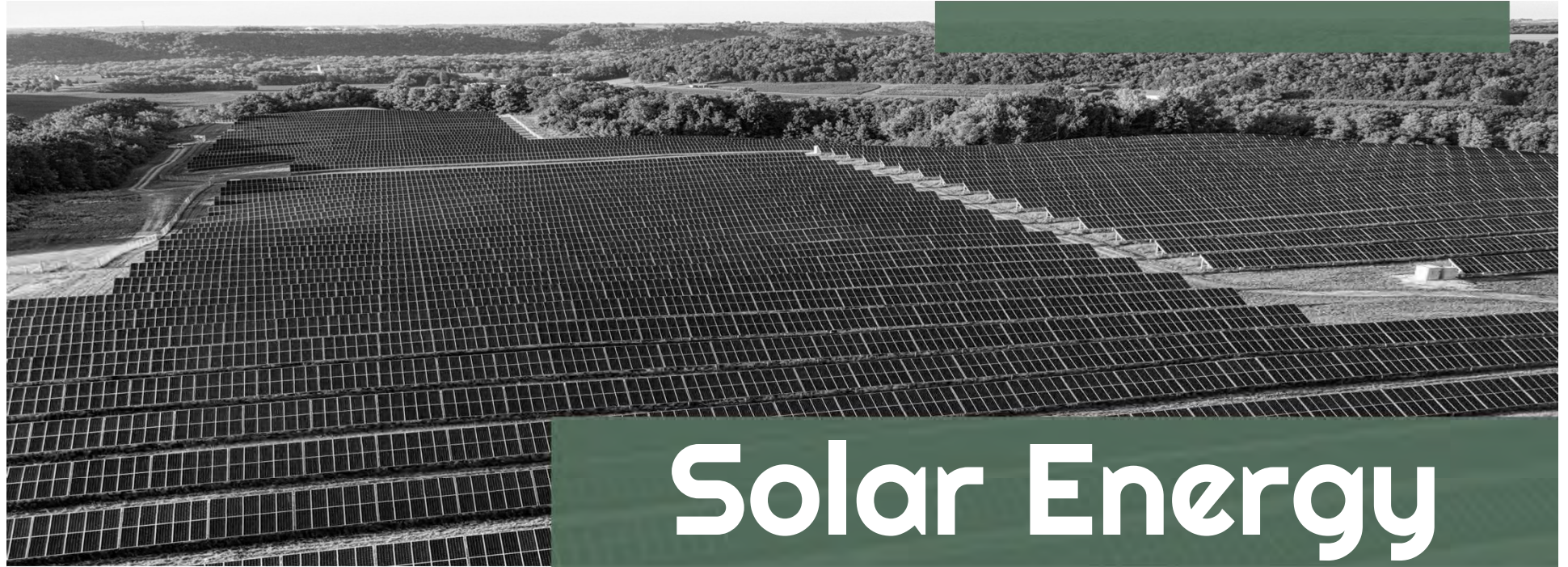


Ghazzeh PARK

Located in Lebanon's West Bekaa region, Ghazze Park provides a vibrant leisure and relaxation space for the local community, offering areas for sports, recreation, and social gatherings.

- **Scope:** The project included full design of the restoration works needed for the football and basketball courts, restrooms and the implementation of PV lighting, along with implementing solutions to address water ponding and flooding across the 60,000 m² park during the wet season.
- **Challenges:** Developing complete solutions that prevent vandalism while designing the intervention, all within strict budget constraints.



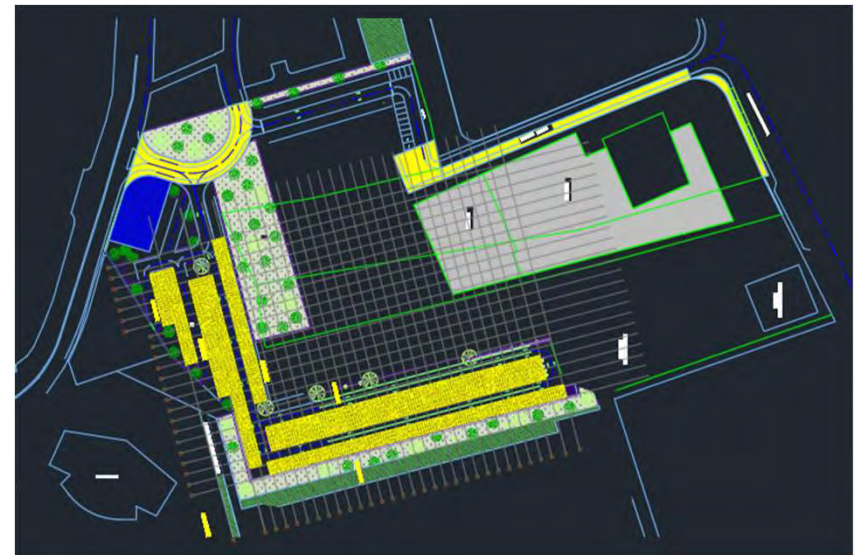
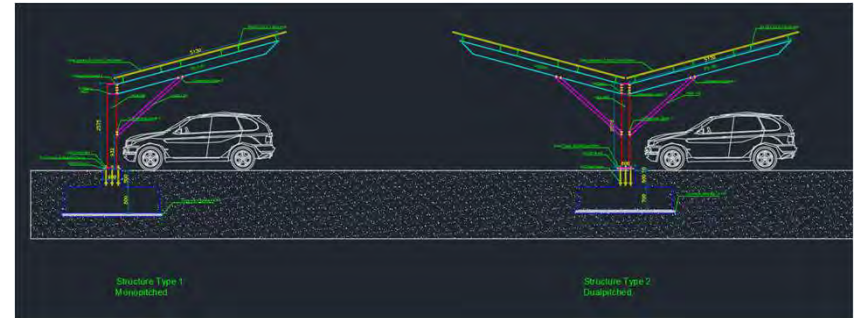


Solar Energy sector

Solar PV parking

Located in the heart of Limassol, Cyprus, this solar PV parking project features 1,773 panels generating 824 kWp, providing sustainable energy for the Ritz-Carlton Hotel.

- **Scope:** Our team was responsible for the structural design of the steel structure and its foundation, as well as preparing the structural and excavation shop drawings for execution.
- **Challenges:** Integrating a cost-optimized steel structure within the parking area while maintaining circulation and preserving parking capacity.



Solar Energy

Various solar energy projects across Lebanon, supplying power for water pumping stations, residential, and commercial facilities.

- **Scope:** Our team was responsible for the structural design of the steel structure and its foundation, PV power generation and electrical system design including single-line diagrams (SLDs), as well as preparing all necessary shopdrawings and permits for execution.
- **Challenges:** Navigating a fast-paced industry while continuously keeping up with emerging technologies.





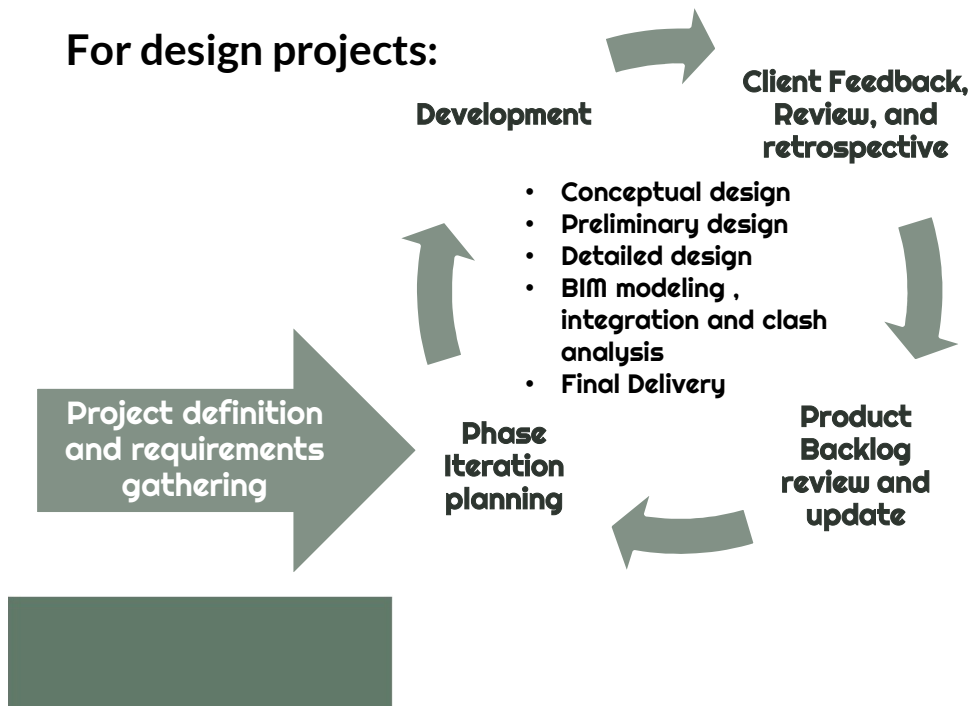
04

Workflow

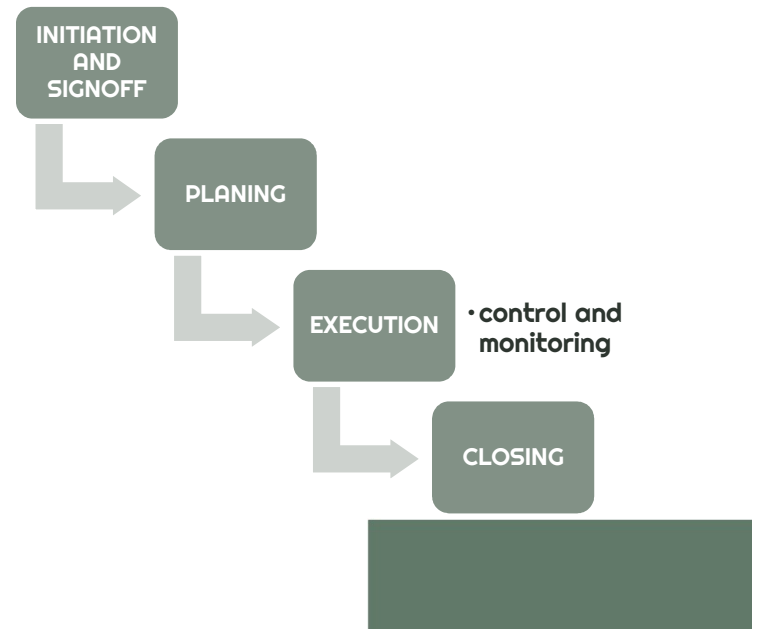
Projects Workflow

At Betlium Group, we prioritize efficient workflows by selecting the most suitable development approach for each project, ranging from adaptable Agile methods to hybrid and Waterfall project lifecycles.

For design projects:



For construction projects:





05

Contact us

Contact Information

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A black and white photograph of a modern building facade. The building features a grid of windows on the left and a large, curved, metallic-looking section on the right. A dark green rectangular overlay is positioned in the center, containing the text "THANK YOU!" in white, bold, sans-serif capital letters. Another smaller dark green rectangular overlay is visible at the top of the image.

THANK YOU!