CAPABILITY STATEMENT

Reinforced Concrete Designs

As part of our complete design suite, we offer comprehensive solutions for reinforced concrete structures. Our experienced team of engineers specialises in creating robust and efficent designs that meet the highest industry standards. Leveraging advanced software and innovative techniques, we design and optimse concrete structures for durability, Load-bearing capacity, and resistance to the environmental factors. We ensure that our reinforced concrete designs are structurally sound, cost-effective, and tailored to our client's needs. With our expertise, we deliver reliable and sustainable solutions for a wide range of projects.

The Team Leaders

ET-Global's leadership team, Mark Hewitson and Dario Arpesella collectively boast an extensive background exceeding 55 years in engineering design and on-site management, encompassing a broad spectrum of projects within the mining, industrial, commercial, and residential sectors.

Mark and Dario's educational accolades include obtaining their National Certificate in Civil Engineering, Bachelor of Technology Degree, Professional Technologist Certification, and Anglo-American Structural Inspection (SIMM) certification.

Both have undergone specialized training conducted by the Anglo-American Group's Asset Integrity Lead, equipping them with advanced skills in conducting structural and safety audits to assess the condition and health of as-built structures.

Their engineering expertise spans the design of an array of reinforced concrete structures, including but not limited to substantial monolithic foundations (exceeding 800m³), stockpile tunnels (exceeding 1300m³), and jaw crusher supports. Their portfolio includes designing and developing commercial office blocks and premium residential housing, showcasing their versatility and commitment to engineering excellence across diverse project types.

Their combined core competencies include and are not limited to:

- Optimised designs for ease of formwork erection and construction
- Monolithic structures supporting dynamics loads.
- Structural safety audits & SIMM services
- Root cause investigations

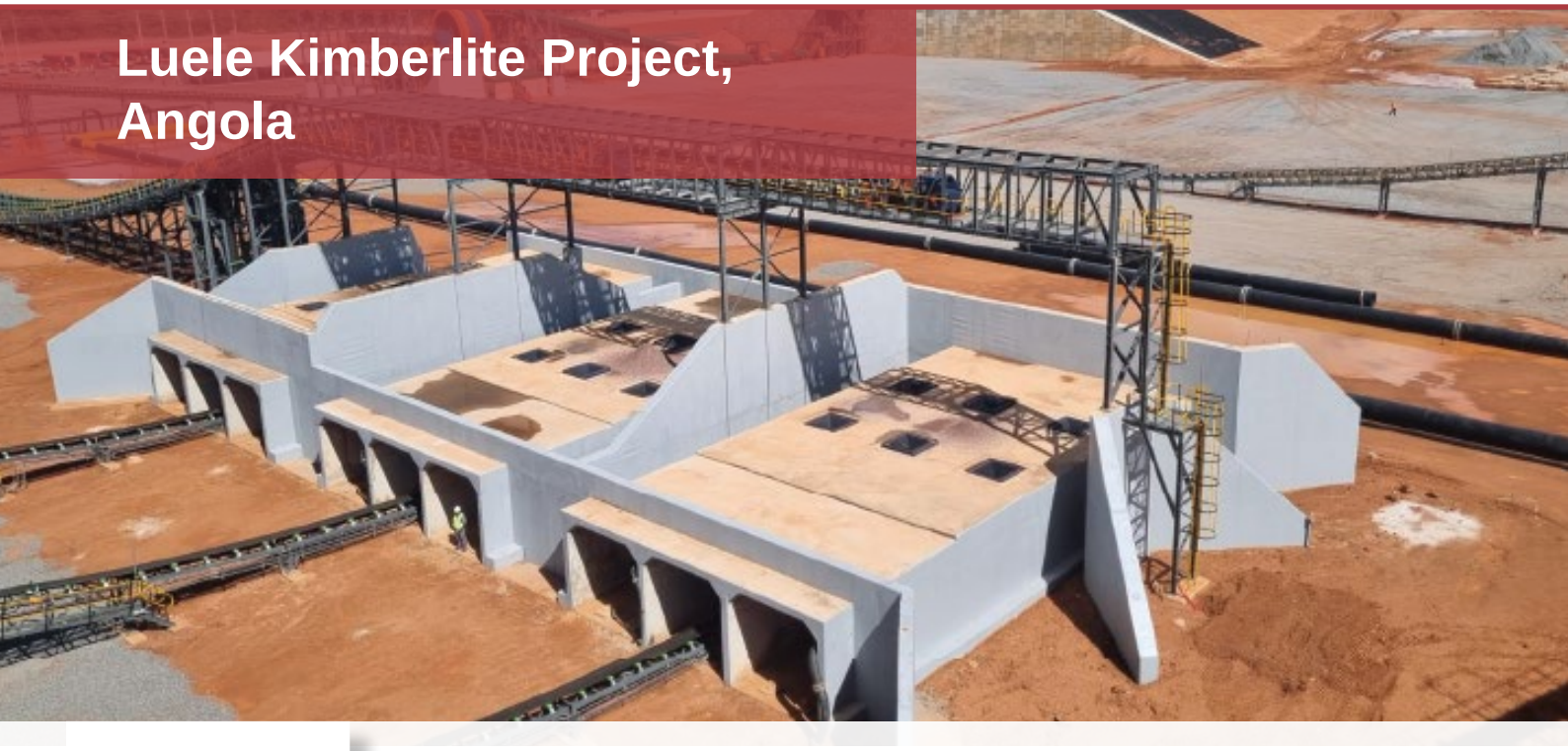
Structural Steelwork Design Project Success

- Luele Kimberlite Project, Angola
- Murowa Diamond Mine Extension, Zimbabwe

Reinforced Concrete design competencies

- Multi-storey buildings
- Suspended slab, beam & column systems
- Earth & water-retaining structures
- Stockpile tunnels
- Cantilever conveyor support trestles
- Raft slabs & surface beds
- Strip & pad footings

Luele Kimberlite Project, Angola



Project Overview:	Luele Kimberlite Project, Angola
Client:	Consulmet
Location:	Angola
Completion Date:	2024
Capacity:	Phase 1 - 500 tons per hour

Scope:

ET-Global provided structural engineering for the Luele Kimberlite Project, supporting Consulmet. We designed all major structures, including multiple ROM structures, DMS (Dense Media Separation) structures, milling and screening areas, and conveyors. The designed incorporated a 3 phased modular approach allowing operations to commence while an additional 1000tph is brought online, decreasing the time required for a return on investment.

Key Contributions:

- Structural steel and reinforced concrete designs for major processing structures.
- Design capacity: 500 tons per hour in Phase 1.
- Phased conveyor designs capable of varying capacity needed for Phases 1 through 3.
- Collaborative efforts with Consulmet for seamless project execution.

Murowa Diamond Mine Extension, Zimbabwe

Project Overview:	Murowa Diamond Mine Extension, Zimbabwe
Client:	Consulmet
Location:	Zimbabwe
Completion Date:	2022
Capacity:	Extension - 500 tons per hour

Scope:

ET-Global was pivotal in the structural engineering for the Murowa Diamond Mine extension, in collaboration with Consulmet. Our work encompassed the design of key infrastructure components necessary for expanding the plant's capacity.

Key Contributions:

- Provided structural designs for front ends, thickeners, stockpile tunnels, screening and crushing steel structures, and conveyors.
- Ensured design compliance and integration for a 500 tph capacity extension.
- Worked closely with Consulmet to deliver engineering solutions tailored for the mining industry's demands.