



What Builds a Nation: Cement and Iron

31 JULY 2025



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Competent Person's Statement

Statements contained in this announcement relating to Mineral Resources and Ore Reserves estimates for the Central Cement and Lime Project are based on, and fairly represents, information and supporting documentation prepared by Mr. Rod Huntley, who is a member of the Australian Institute of Geoscientists. Mr. Huntley has sufficient and relevant experience that specifically relate to the style of mineralisation. Mr Huntley qualifies as a Competent Person as defined in the Australian Code for Reporting of Identified Mineral Resources and Ore Reserves (JORC) Code 2012. Mr Huntley is an employee of Groundworks Pty Ltd contracted as a consultant to PLC Resources and consents to the use of the matters based on his information in the form and context in which it appears. As a competent person Mr Huntley takes responsibility for the form and context in which this Ore Reserves Estimate prepared for the Central Cement and Lime Project appears.

What Builds a Nation?

Strategic Importance of Cement and Iron

Importance

Countries with **abundant access to cement and iron resources** are better positioned to:

- Industrialize quickly
- Support large-scale housing and infrastructure development
- Ensure national resilience against disasters
- Lower construction costs and improve timelines

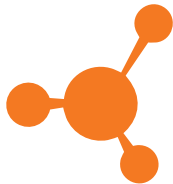
Essential Infrastructure Powered by Cement and Iron



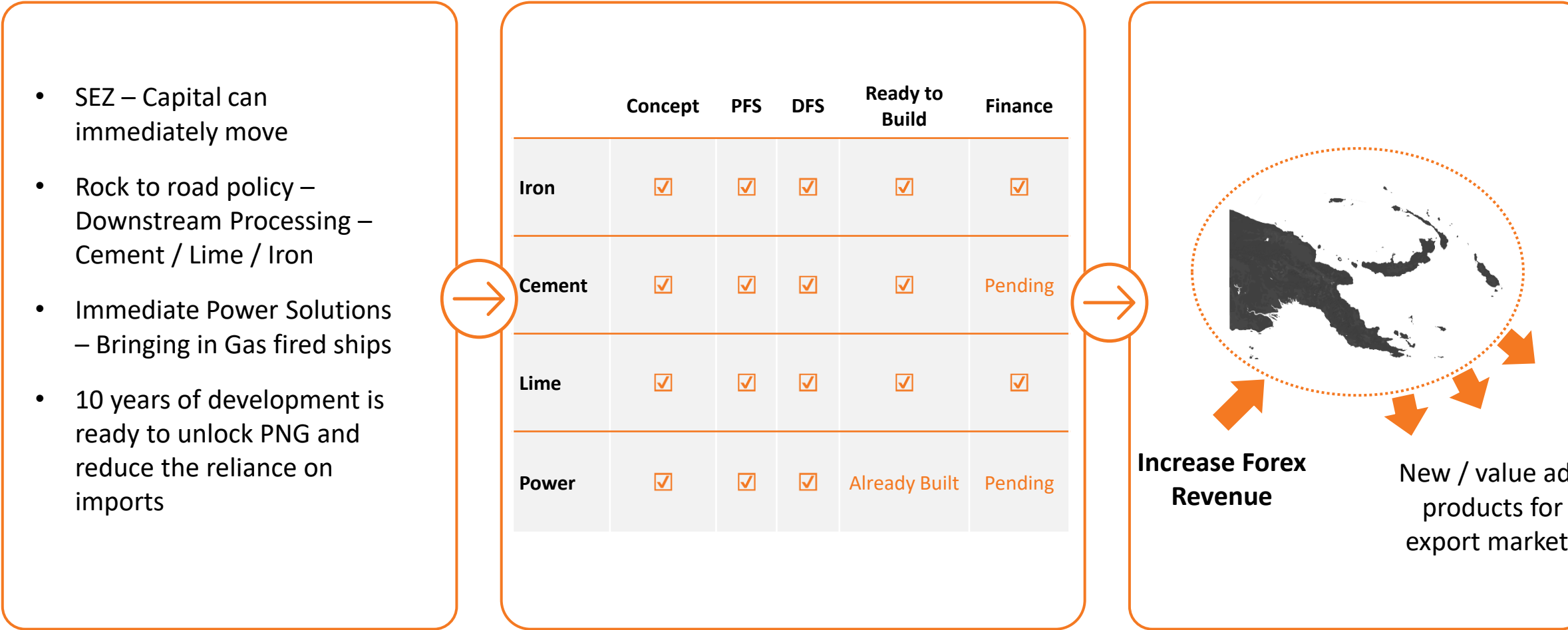
What Builds Nations – PNG Scorecard

	Local Production	Imported
Iron/Steel	Nil	100%
Cement	Nil	100%
Power	16%	84%

PLC Nation Building Partnership

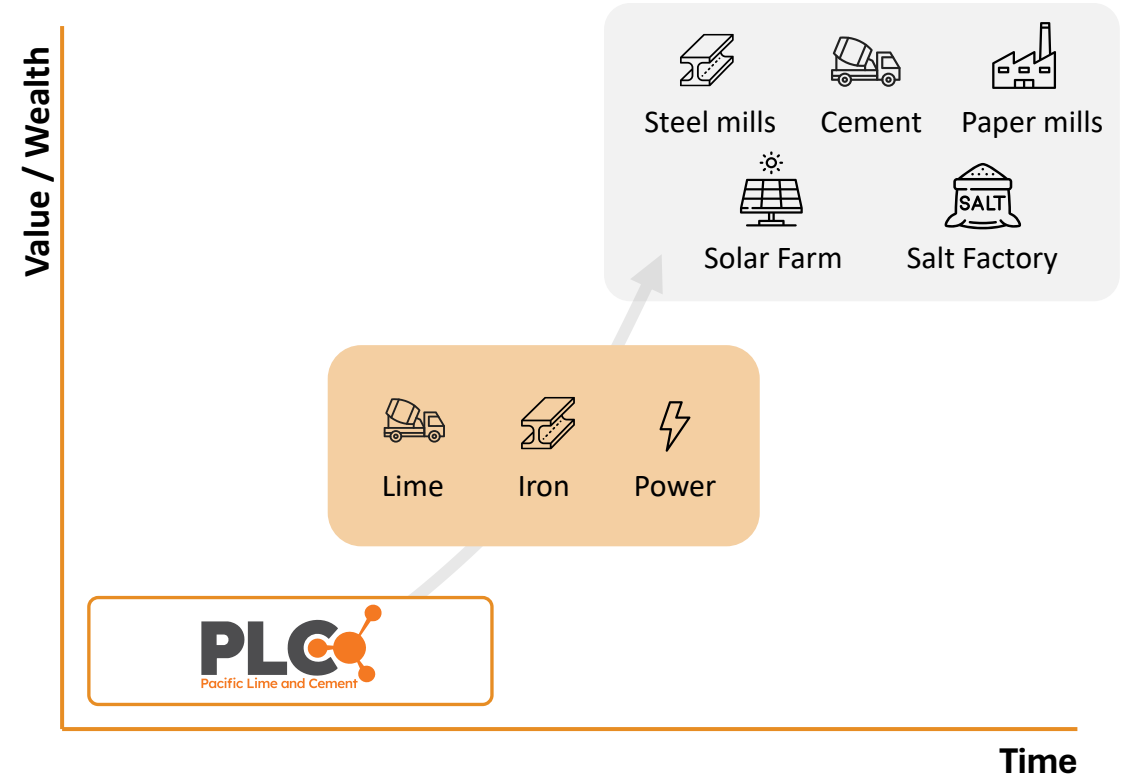
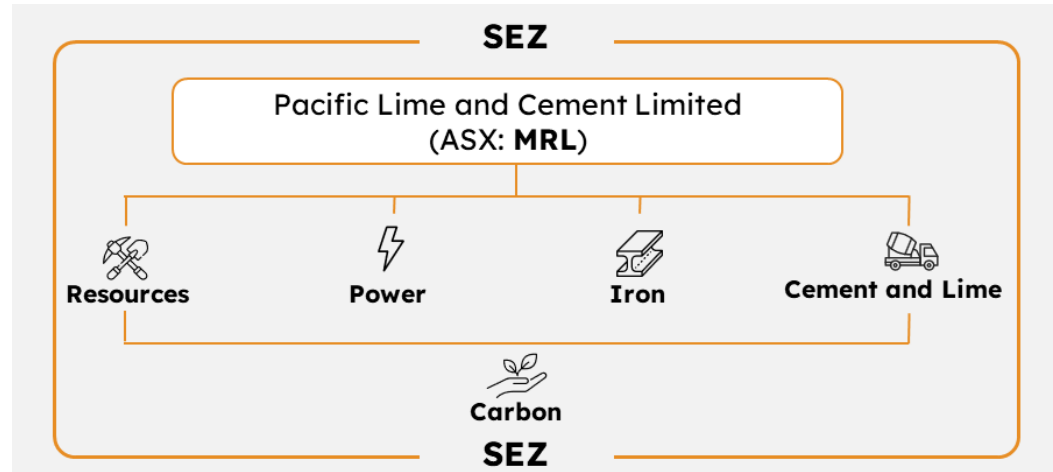
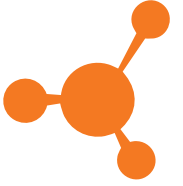


Marape/Rosso Government supporting PNG Future with solutions



Our SEZ – Central Cement and Lime Project

SEZ-Driven Investment in Primary Industries



1. Develop the building blocks for nation building
2. Increase in value add to primary industry

PLC Highlights

Construction-ready nation building infrastructure



Construction-ready lime and cement project with robust economics

Funding of debt and equity for Stage 1 conditionally secured

Rapidly scalable lime project with attractive return on capital for expansion kilns

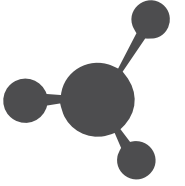
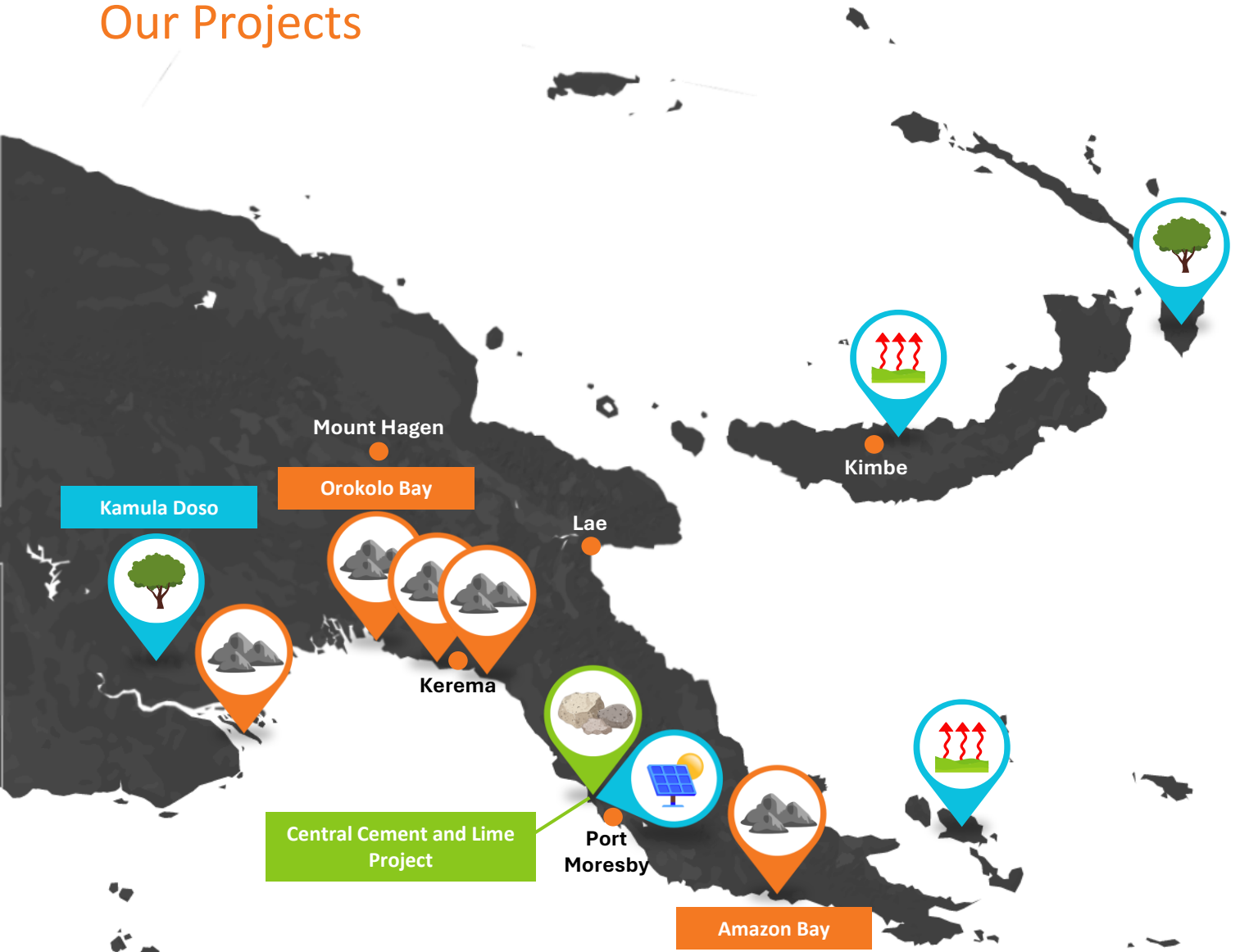
Strategic location drives a significant cost advantage relative to existing supply from Asia

Supportive jurisdiction and strong relationships in country highlighted by exclusive SEZ

Highly experience Board and Management team with proven track record of large-scale project delivery

Project Portfolio Snapshot

Our Projects



Cement and Lime

Low carbon products to aid the decarbonisation of the mining and building sectors



Industrial Sands

A portfolio of Industrial Sands projects from pre-production to exploration



Renewables

A portfolio of carbon credit and renewable energy projects to deliver environmental & economic value to PNG.



Central Cement And Lime Project



Central Lime Project – Stage 1

PNG's First Quicklime Facility



Phase 1 includes 2 lime kilns
and hydration **operations**
supplying 400ktpa+

**PLC is committed to
sustainable energy,**
integrating solar power
infrastructure

International wharf **supports
Handymax vessels** for direct
delivery across Australia and
Pacific

Wharf Development

2023-2025



12/2023



Wharf Development Stage 1 Construction

10/2024



Wharf Development Stage 1 Complete

3/2025



Wharf Development Stage 2 Construction

When Completed



Why Lime?



It is a critical industrial mineral to enable the global energy transition

Fundamental to value chains

- ✓ One of the earliest known industrial commodities and fundamental raw material for industry.
- ✓ Limited economically viable substitutes – in most applications cost of replacement with synthetic material is prohibitive. This would increase the price of virtually all consumer goods.
- ✓ Facilitates the production of transitional metals while minimising the environmental footprint of any waste materials.

Critical for production of battery minerals/metals:



Common Forms:



Limestone



Quicklime



Hydrated Lime

Applications:



Water Treatment

Absorbs and removes pollutants from drinking water, wastewater, sewerage and industrial sludge



Mineral and Metallurgical Processing

Removes impurities in ferrous and non-ferrous metals processing, while neutralising pollutants from tailings



Construction and Civil Engineering

Stabilises soil for construction of roads, buildings and dams



Chemical and Industrial Manufacturing

Used in the chemical process for paper, paint, ink and plastic



Agriculture and Crop Management

Effects soil pH to improve growing conditions and increase crop yields

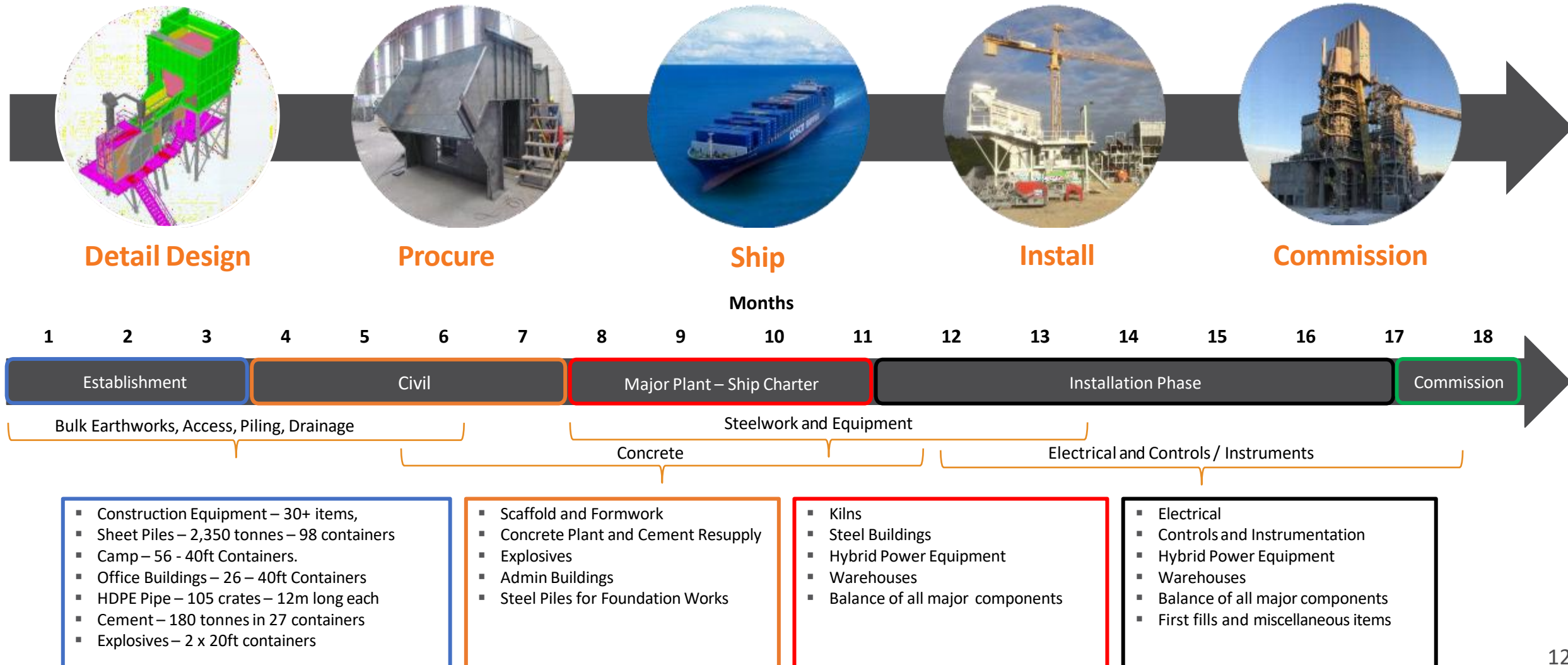


Global Decarbonisation

Acts as a natural carbon sink capturing ambient CO₂ - most prevalent when used in construction

Central Lime Project Development Timeline

Materials sourced globally with major packages from China and Vietnam



What CCL Means for PNG

Economic Transformation via Export Creation and Import Replacement



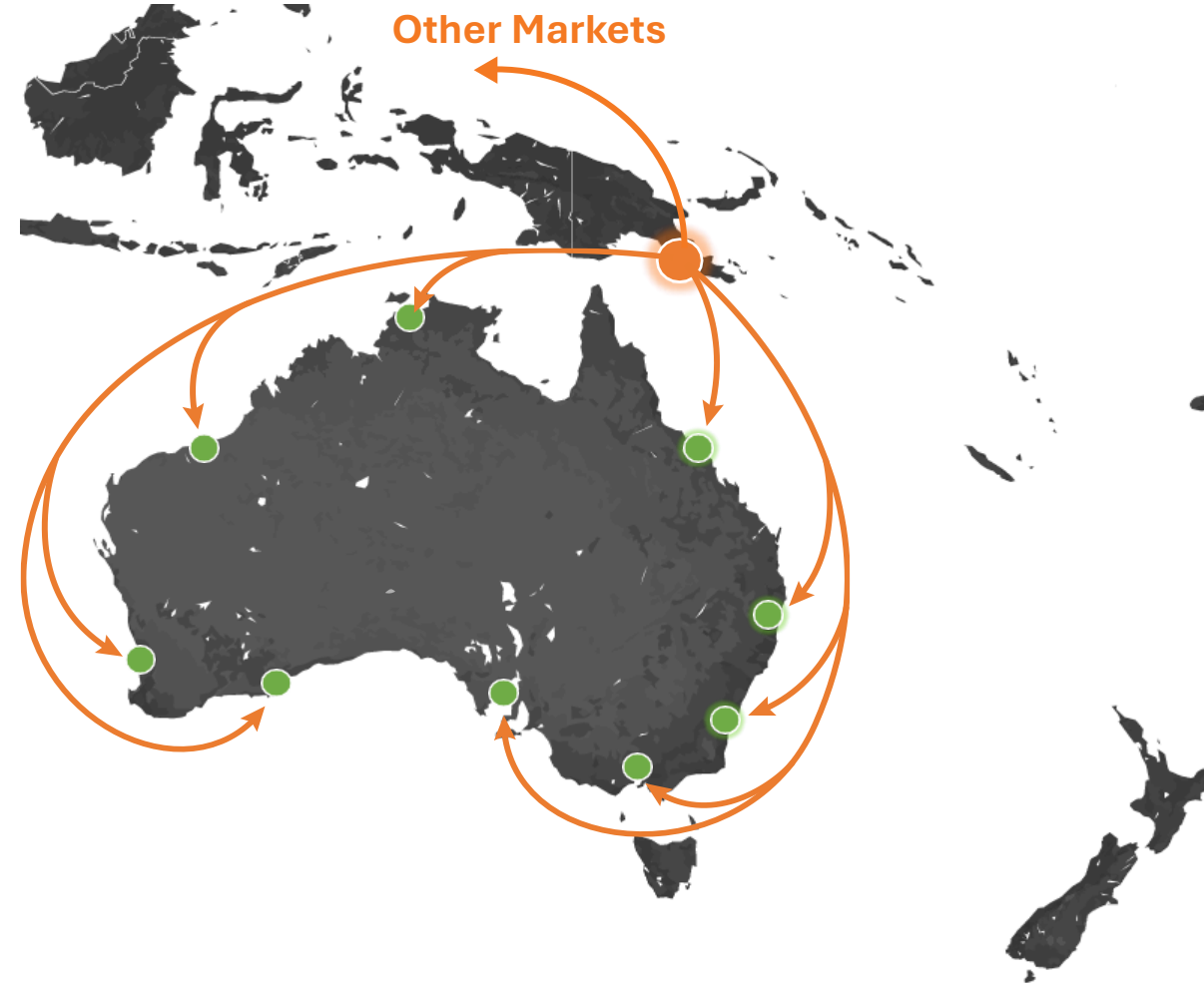
Import Replacement

What Builds Nations – PNG's Current Scorecard

	CCL Capacity (T/Yr)	Potential for Import Substitute ¹
Limestone	700,000	100%
Quicklime	400,000	100%
Cement/Clinker	1,600,000	100%

Economic Transformation

- ✓ PLC's analysis indicates **Australia's demand to be 4.3 million tonnes of cement¹**
- ✓ **Australia imports ~50% of cement** with local producers shutting down amid limited continued investment into cement production
- ✓ PLC will be the closest offshore source of cement and lime with a **significant logistical advantage** (2 days sailing to Townsville)
- ✓ Demand in PNG is currently estimated to be **0.3-0.4 million tonnes per annum¹**
- ✓ PNG is one of the lowest per capita cement consumers – representing **significant potential for growth** in line with PNG's nation building initiatives³

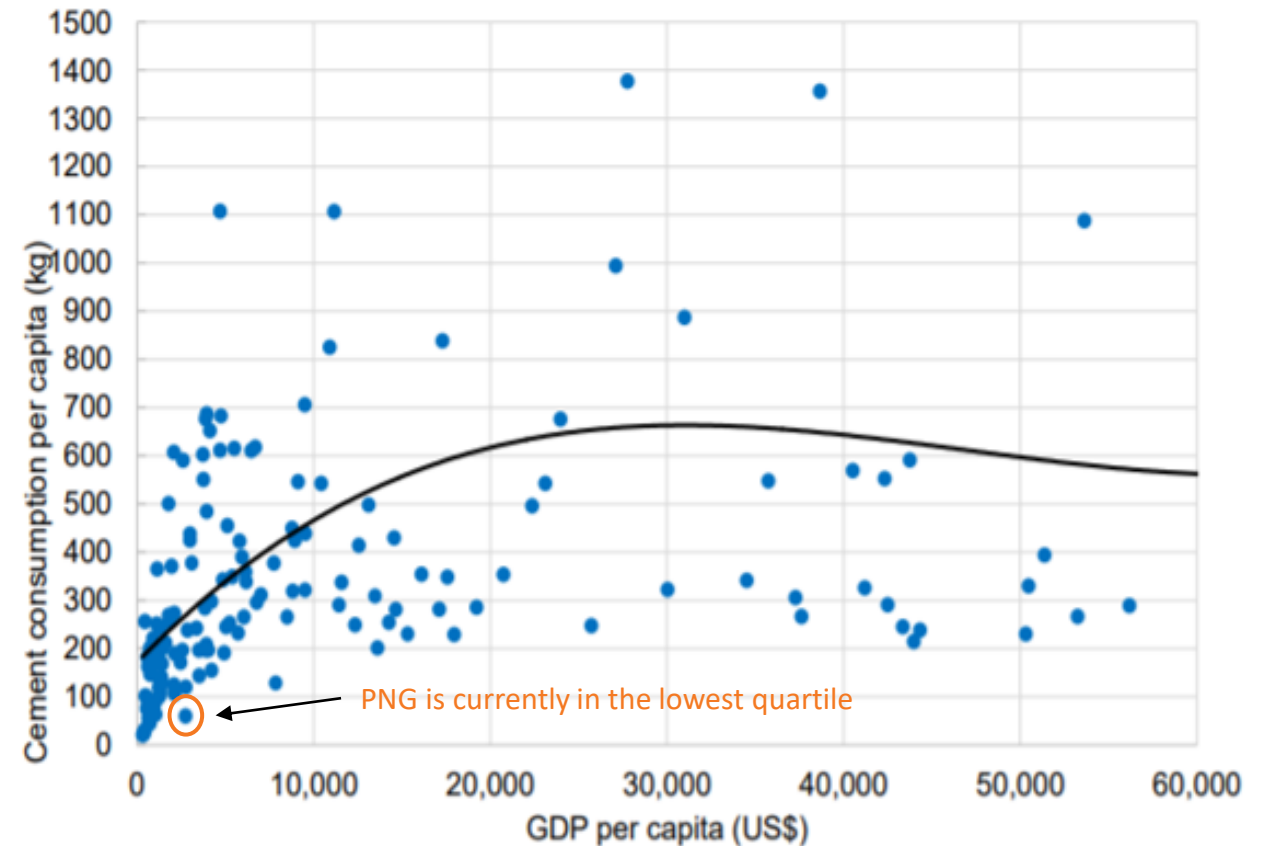


Cement Consumption

Enabling Infrastructure Growth

- ✓ PNG's cement consumption per capita is **significantly lower than global averages²**, estimated at approximately 50 kg per capita per year compared to the global average of 500 kg and 800 – 1,000 kg in developed nations.
- ✓ This **places PNG among the lowest ranked countries for cement consumption globally**, highlighting immense growth potential.
- ✓ **The Connect PNG initiative**, a multi-billion-dollar infrastructure plan, is set to revolutionise the country's connectivity through road, bridge, and port development.
- ✓ **This massive investment in infrastructure** will drive exponential growth in cement demand for both government-led and private-sector projects.
- ✓ A **local production facility** would reduce dependence on imported cement, **cutting costs and ensuring a stable supply for the growing domestic market**

Note: Graph is pulled directly from a 2018 CEMNET report;



The Central Lime Project will have the capacity to meet PNG's total current cement consumption

Community Impact

Delivering real outcomes



Infrastructure and economic activity generated to improve living standards of local community



Road constructed to Port Moresby saving lives through connectivity to health services



Improved access to schools and learning through new roads and electricity



Commitment to equal opportunity employment and promoting female leadership



Potable water to be provided to the village of Kido through new facilities

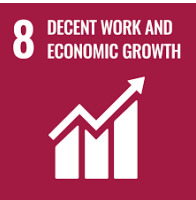


Community Impact

Delivering real outcomes



Solar farm to provide sustainable renewable energy for generations to come



Local job opportunities empowering Kido community to develop wealth and skills



Investment to provide facilities that are taken for granted in urban areas



Irrigation establishment facilities, CCL will use Nature Based REDD+ carbon Credits that saves forests and helps prevent logging



Benefits to Landowners

Royalties and Employment



Land Co Opportunities

Direct and Indirect Community Benefits



If the Landco's perform with A



Then increased opportunities with B

Business Options A

Possible Business Opportunities – “Landowner Representative Company”

- Possible Joint Ventures or Fully Owned Ventures
- Road construction and maintenance
- Building and Construction – small work and maintenance
- Catering
- Guest house accommodation management
- Laundry
- Garbage collection
- Cleaning
- Canteens
- Garden and Ground Maintenance
- Grass cutting
- Fresh seafood
- Labour hire Service
- Bus Transportation – Public / Project Workers
- General Maintenance – plumbing, refrigeration, painting, carpentry, electrical
- Agriculture – vegetables and fruit (both Project and Port Moresby)

Upskill

Business Options B

Possible Business Opportunities – “Independent Businesses”

- Dry Hire of vehicles – Project
- Livestock Production – poultry/eggs, beef, pork
- Revegetation and Nursery
- Gabion Basket Making
- Uniform Manufacture
- Transport Company – drivers
- Shutdown / Maintenance Workers (non-full time)
- Quarry (aggregates local market)

Jobs and Skills

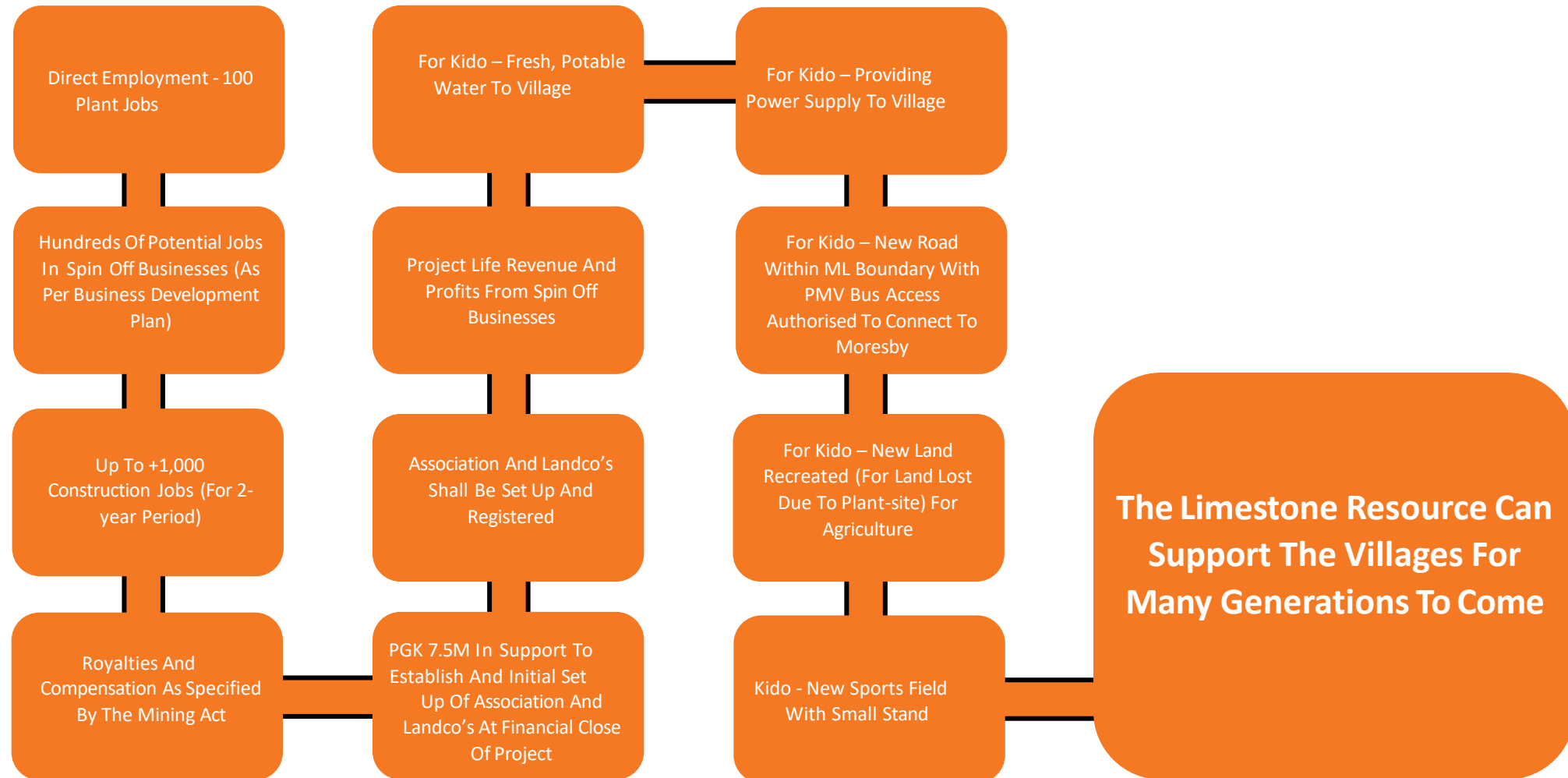
Delivering real outcomes

- First graduates of the Australia Pacific Training Coalition.
- 1800 jobs during construction.
- Lime direct plant jobs - approx. 100 jobs with 4 time multiplier.
- Cement direct plant jobs - approx. 160 jobs. With 4 time multiplier.
- Employment will also encompass training to enable staff to perform the jobs adequately.
- Over 95% of the workforce are intended to be Local people.



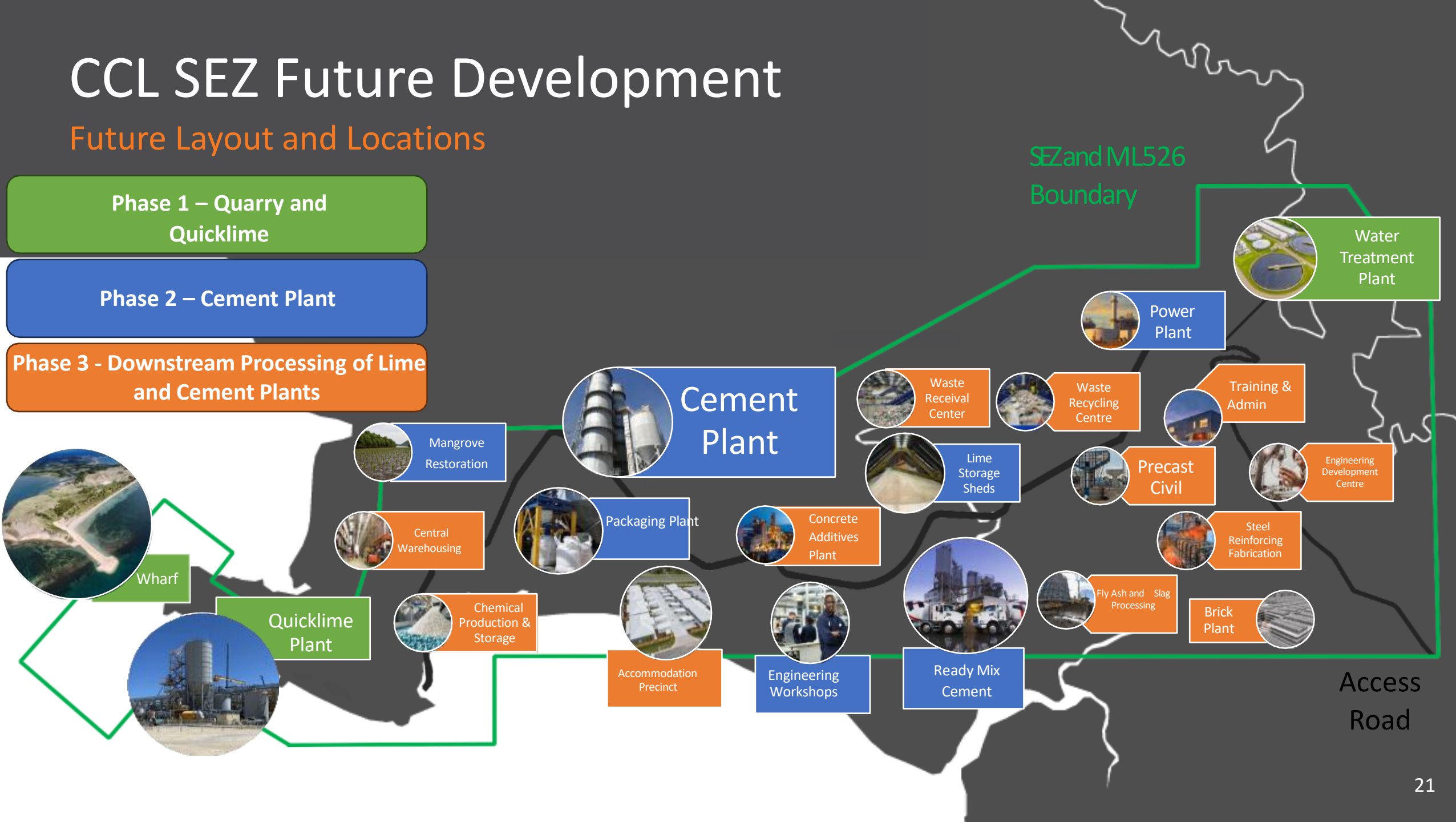
Summary of Opportunities

Direct and Indirect Community Benefits



CCL SEZ Future Development

Future Layout and Locations



Importance of Downstream Processing

Downstream Opportunities Created by the CCL



Drives Industrial Growth and Job Creation

Enables local production of building materials, chemicals, and components, creating skilled employment and supporting new industries.

Maximises Value from Local Resources

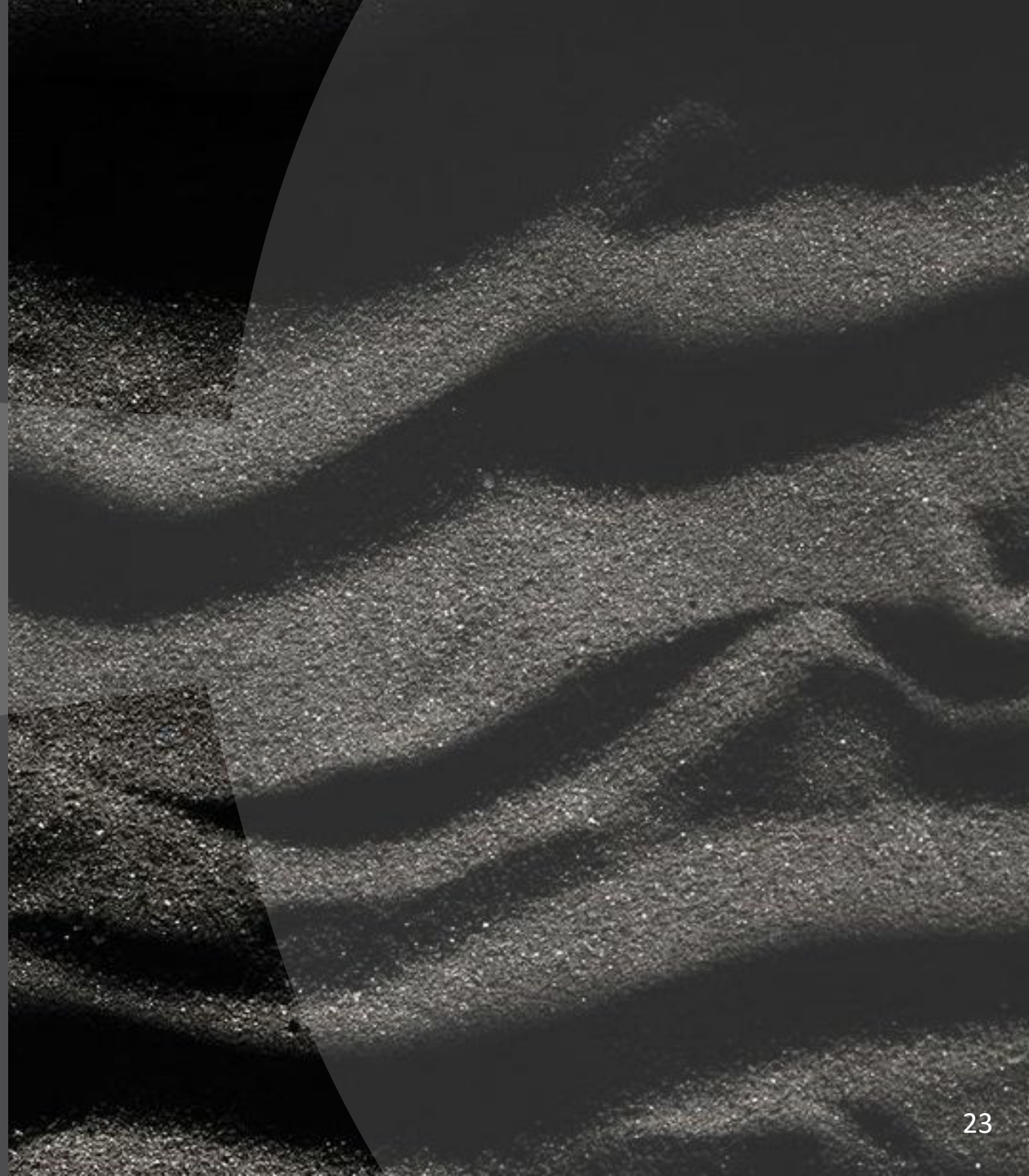
Transforms limestone into a wide range of products like cement, bricks, and precast elements, keeping more economic value in PNG.

Supports National Infrastructure and Sustainability

Facilitates the delivery of housing, roads, and utilities while integrating recycling, waste management, and clean-tech solutions.

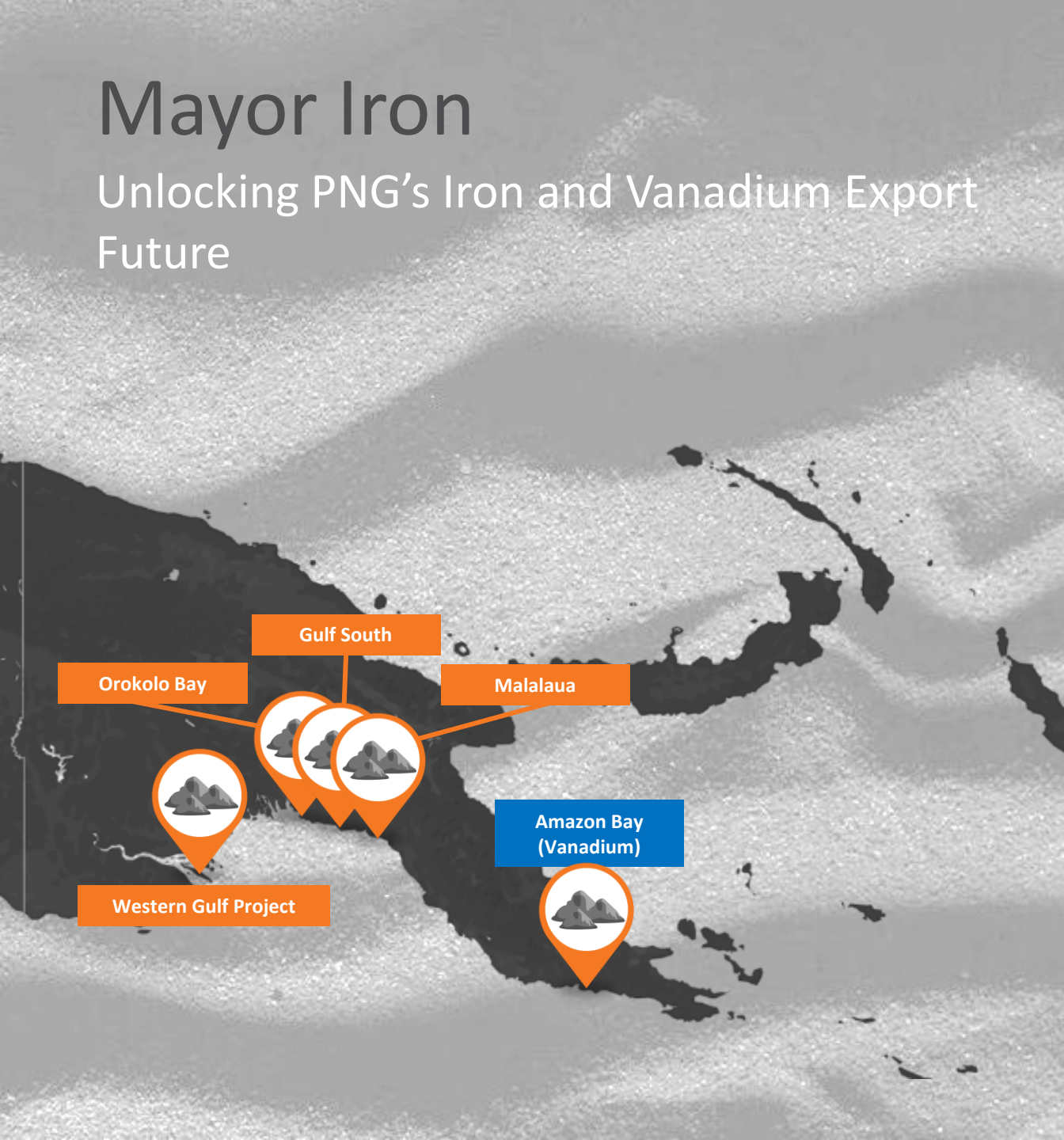


Industrial Sands



Mayor Iron

Unlocking PNG's Iron and Vanadium Export Future



A portfolio of Iron and Industrial projects for development

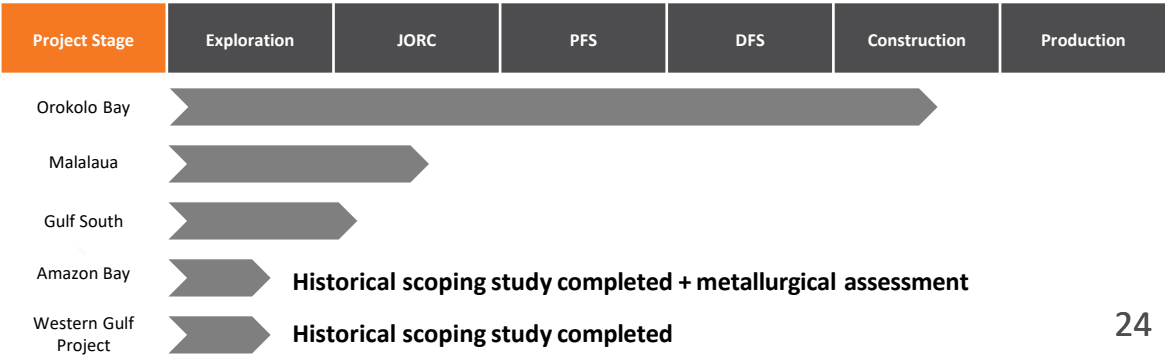


- Gulf Project Precinct includes 2 other projects near to Orokolo Bay (Gulf South and Malalaua) offering **potential for future expansion** together with delivery and operational synergies
- Other projects in the pipeline include Amazon Bay (with Vanadium potential) and Western Gulf
- **All projects are coastal**, facilitating access for development and **for supply of products to future seaborne markets**.

Forecasted Annual Production

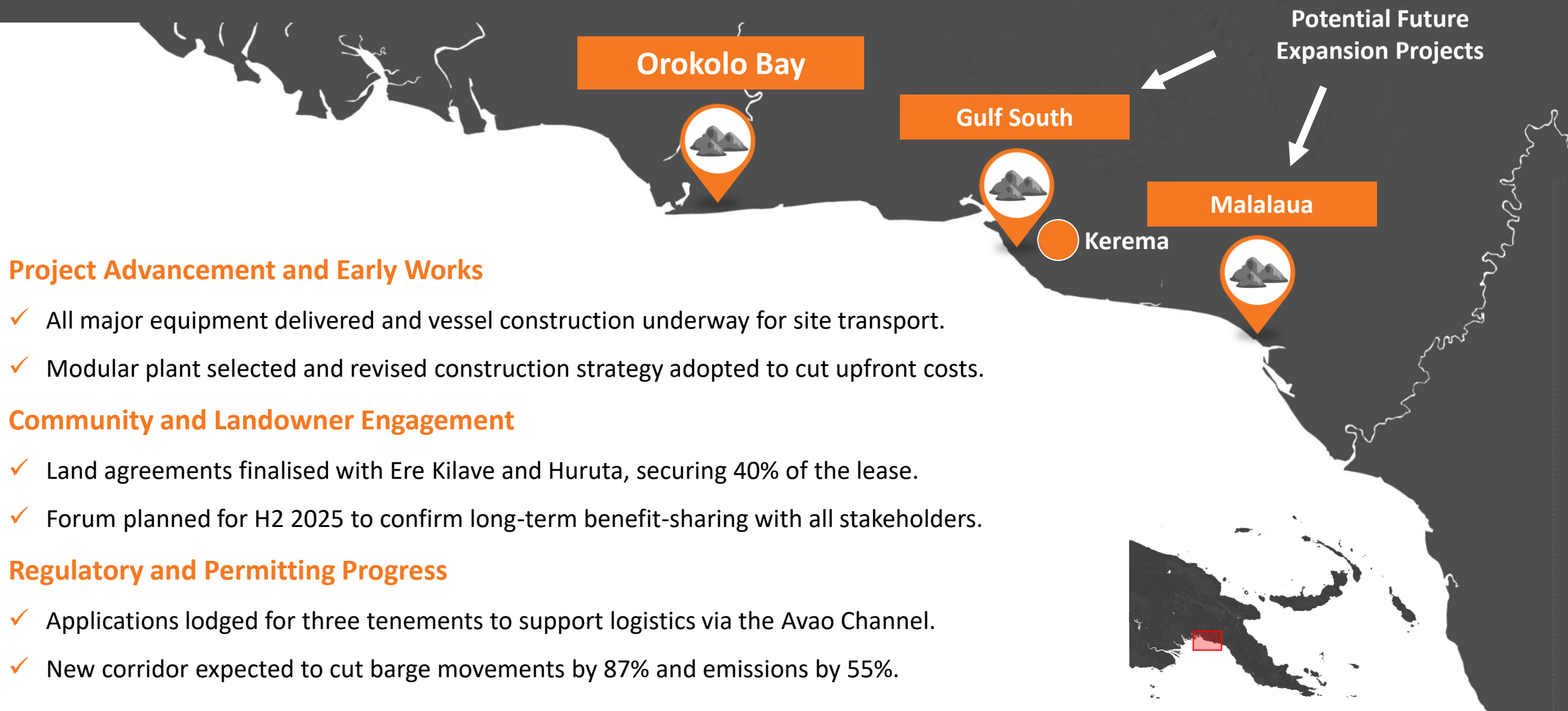


Project Status



Orokolo Bay

PNG Has the Potential to Produce its Own Iron



Project Advancement and Early Works

- ✓ All major equipment delivered and vessel construction underway for site transport.
- ✓ Modular plant selected and revised construction strategy adopted to cut upfront costs.

Community and Landowner Engagement

- ✓ Land agreements finalised with Ere Kilave and Huruta, securing 40% of the lease.
- ✓ Forum planned for H2 2025 to confirm long-term benefit-sharing with all stakeholders.

Regulatory and Permitting Progress

- ✓ Applications lodged for three tenements to support logistics via the Avao Channel.
- ✓ New corridor expected to cut barge movements by 87% and emissions by 55%.

Renewables



Green Initiatives

Potential for Major Carbon Inventory



Carbon Credits



Opportunity to provide high quality carbon credits or sale into the global carbon markets

- Total of 3 granted projects, comprising over 4m⁴ HA of forestry
- Potential yield per annum of 450,000 tonnes of CO₂e per hectare
- Voluntary Carbon Market price is US\$8/t

Solar Farms



Integration of solar power infrastructure, reducing operational emissions and enhancing long-term efficiency

- PLC is committed to sustainable energy practices and is utilising solar energy in phase 1 of the Central Lime Project.

Geothermal Energy



Exploring Geothermal Power to further industrialise PNG

- 2 locations have been identified for further investigation
- PLC is still awaiting the implementation of the geothermal act

Conclusion

Alignment with Marape/Rosso Vision

What Builds Nations – PNG Scorecard³

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Downstream
processing lime plant



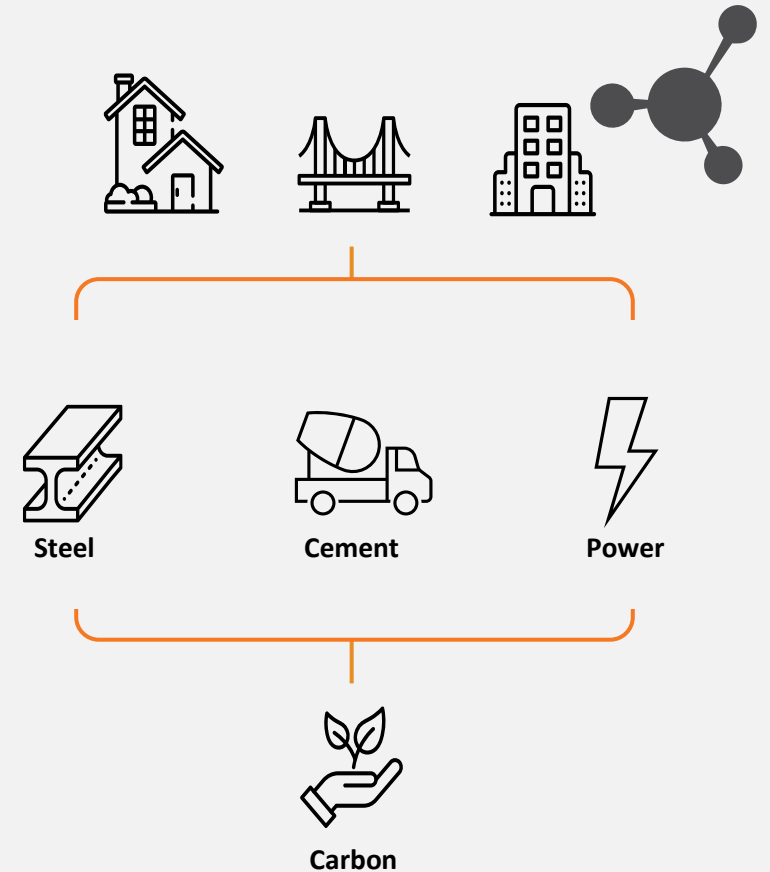
Cement production
facility



Power ships
power generation



Iron Sands
Projects



**PNG has the projects to
underpin the building of a
nation.**

Let's Build
PNG Together.





Building Progress, Building Tomorrow

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