CRITICAL CHAINS INTELLIGENCE SERIES · WHITE PAPER V — 2026 EDITION

From Corridors to Contracts

Why de-risking at one layer of the critical minerals pipeline is not enough — and how the Critical Chains Intelligence Desk turns corridor geopolitics and ESG disorder into decision instruments.

Calibrated for DFI credit teams, MDB portfolio managers, export-credit institutions, and institutional investor IC processes navigating corridor-level political risk and ESG co-governance in Africa and Latin America.

PUBLISHER
NM Advisory

INTELLIGENCE PLATFORM
Critical Chains

REGION FOCUS
Africa & Latin America Corridors

YEAR
Summer 2026

SERIES
White Paper V

CLASSIFICATION
Strategic Intelligence

The Bankability Gap Is a System Failure

> *Why the pipeline stalls is not capital scarcity — it is the absence of a corridor-level diagnostic calibrated for DFI credit teams and investment committees.*

At the 2026 G7 Critical Minerals Ministerial, 54 nations named the same binding constraint: bankability — not capital scarcity, not resource endowment.

The pipeline of technically sound projects unable to reach financial close is growing because the diagnostic tools DFIs and investment committees deploy were designed for project-level review, not corridor-level system failure. This paper provides the missing framework and the intelligence products that operationalise it for IC teams.

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NATIONS · G7 MINISTERIAL — BANKABILITY NAMED PRIMARY BARRIER, 2026

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BINDING CONSTRAINT LAYERS — CORRIDOR · EXECUTION · BANKABILITY

4
IC-CALIBRATED PRODUCTS — MONITOR · BRIEF · PRE-INVESTMENT · DASHBOARD

The IC Diagnostic Gap

DFI credit teams and investment committees reviewing critical-minerals exposure — across the DRC–Zambia copper belt, Francophone West Africa's graphite and bauxite routes, or North American battery-mineral corridors — receive extensive project-level documentation and almost no structured corridor-level analysis. The result: false positives (corridors that look investable at announcement but cannot sustain financial close) and false negatives (viable deals declined because corridor risks were misread).

The binding constraint is not capital. It is the absence of a systematic diagnostic that identifies which of three distinct system layers is preventing bankability — and which instruments, deployed at which layer, will actually move the deal.

What Critical Chains Delivers

A specialised Intelligence Desk that produces corridor monitors, stakeholder briefs, pre-investment analyses, and cross-corridor dashboards — written in the decision language of credit committees and investment boards. The goal is operationally precise: fewer false positives and fewer false negatives.

THE OPERATING PRINCIPLE FOR INVESTMENT COMMITTEES

Critical Chains does not contextualise corridors. It **diagnoses** which layer is the binding bankability constraint, **translates** that diagnosis into go / no-go / conditional-go instruments, and **equips** your team with analysis that survives IC scrutiny.

The Three-Layer Diagnostic

> *Where the bankability system breaks down — and why instruments deployed at the wrong layer produce announcements, not transactions.*

The dominant institutional framing treats critical-minerals bankability as a capital allocation problem. This framing is partially correct and structurally insufficient. For DFI credit teams and investment committees, the more consequential question is not "is there capital available?" but "at which layer is the system preventing this project from reaching financial close?"

> *"For DFI credit teams, the decisive capability is not access to capital. It is the ability to diagnose all three layers simultaneously — and deploy the right instrument at the right level."*
>
> NM ADVISORY / CRITICAL CHAINS INTELLIGENCE DESK, MAY 2026

LAYER 01 — FOCUS

Corridor Governance

The physical, institutional, and geopolitical system. Breaks when governance is weak, ESG legitimacy is absent, or geopolitical contest is unresolved. Political risk insurance deployed here before Layers 02–03 are addressed will not produce bankable assets.

LAYER 02 — DEPENDENCY

Industrial Execution

Processing capacity, logistics, OEM qualification cycles, and energy availability. TC/RC compression and declining ore grades are Layer 02 signals with direct implications for DSCR modelling and lender exposure.

LAYER 03 — DEPENDENCY

Bankability Architecture

Risk-allocation structures, ownership models, offtake visibility, and warranty frameworks. Credit committees approving at Layer 03 without a structured Layer 01–02 read are approving on incomplete information.

THE LAYER DEPENDENCY RULE — IC APPLICATION

Corridor de-risking at Layer 01 raises execution reliability at Layer 02. Execution reliability reduces supply-chain risk at Layer 03, enabling lenders to model revenue without large execution-failure premia. **DFI instruments that pull on one layer while leaving the other two unaddressed produce large announcements and persistently thin bankable project pipelines.**

Recent DFI Signals — What Your Peers Are Flagging

— **G7 DFI Position Paper on Critical Minerals (August 2025):** explicitly asks how DFIs should address project-level challenges — but does not provide a framework for identifying which layer is binding.

— **World Bank/MDB Joint Statement (April 2026):** calls for better corridor infrastructure, governance, and private investment mobilisation — treating these as parallel rather than sequentially dependent.

— **Peterson Institute Bankability Analysis (February 2026):** identifies three de-risking actors — government, DFIs, and industry — with misaligned definitions of bankability.

— **World Economic Forum (May 2026):** "Critical minerals need more than capital." The gap between diplomatic announcement and financial close is the gap between the layers.

Four Products for the DFI & IC Cycle

> *Each product maps to a distinct point in the decision cycle — from continuous corridor monitoring through to credit-committee-ready pre-investment analysis.*

Together they form an integrated intelligence stack that eliminates the gap between corridor-level information and bankability-level decision-making.

PRODUCT	IC FUNCTION	DFI USE CASE	FORMAT	CADENCE
Corridor Monitor	Continuous diagnostic sorting instrument. Answers: what is moving, what is blocking bankability, which signals require attention at the next decision point?	DFI portfolio teams maintaining a standing corridor read across active and prospective exposures.	Top sheet + matrix, lift-ready for board memos	MONTHLY
Stakeholder / ESG Briefs	Structured actor and co-governance mapping — who gains, who loses, and the ESG-conditionality implications for DFI defensibility.	Engagement with host-government ministries, SOEs, communities, or DFI co-lenders. Risk- and reputation-committee briefings.	Structured brief, 6–10 pages	ON-DEMAND
Pre-Investment Brief	Converts corridor and ESG information into a go / no-go / conditional-go recommendation with explicit bankability consequences — at credit-committee discipline.	Specific transactions — mine, JV, Eurobond, project finance, offtake-backed lending — where the credit question is whether conditions support the exposure structure.	IC-ready brief with corridor scorecard	BESPOKE
Cross-Corridor Dashboards	Shifts from scattered single notes to an allocation logic across corridors or deals — the instrument for portfolio-level arbitrage.	DFI institutions managing a portfolio of exposures who must arbitrate between corridors on allocation, timing, and instrument type.	Matrix + comparative dashboard	QUARTERLY

PRE-INVESTMENT BRIEF — WHAT THE IC RECEIVES

Every Pre-Investment Brief is built on three analytical pillars: **Corridor Architecture** (route, node, and bloc alignment); **Stakeholder Power Map** (who gains, who loses, and what the power dynamics mean for execution reliability and ESG conditionality); and **ESG Co-Governance Assessment** (social licence status, regulatory trajectory, and DFI defensibility threshold). The output is a structured go / no-go / conditional-go recommendation with an explicit bankability consequence.

Case Study — EDC & Matawinie

> *What a DFI-anchored close looks like when all three layers align — and how Critical Chains would have equipped the credit team.*

IC-RELEVANT SUMMARY

Nouveau Monde Graphite's Matawinie mine reached fully funded financial close at **US$633 million** in April 2026, anchored by Export Development Canada (EDC), the Canada Infrastructure Bank, the Canada Growth Fund, Eni, and Investissement Québec. This is the most recent public illustration of what a DFI-anchored close looks like when all three layers are co-designed — not evaluated in sequence.

For EDC's credit committee, the deal required a defensible position on three dimensions simultaneously: political designation (Major Project of National Interest) confirming Layer 01 stability; demonstrated ability to produce battery-anode-grade spherical graphite confirming Layer 02 execution viability; and a bankability structure in which public-sector instruments — CGF, EDC, CIB — translated directly into credit-committee-ready term sheet language at Layer 03.

HOW CRITICAL CHAINS WOULD HAVE EQUIPPED THE EDC CREDIT TEAM

A Corridor Monitor tracking the graphite–battery anode supply corridor would have flagged Matawinie as a *high-bankability signal corridor* eighteen months before close: Major Project designation visible, CGF/EDC framing confirmed, ESG governance architecture advancing. A Pre-Investment Brief would have delivered the credit team a corridor scorecard, stakeholder power map, and conditional-go recommendation with explicit bankability consequences — reducing internal preparation time and shortening the path to committee approval.

LAYER 01 · CORRIDOR

Major Project of National Interest designation + dual CGF/EDC framing provided instrument-backed de-risking. Quebec ESG and community governance architecture met DFI defensibility threshold.

LAYER 02 · EXECUTION

Demonstrated ability to produce battery-anode-grade spherical graphite — not merely ore — was the decisive execution qualifier. OEM qualification pathway confirmed; energy and processing infrastructure aligned to support DSCR modelling.

LAYER 03 · BANKABILITY

Offtake agreements, strategic-investor equity, and ESG governance translated public-sector support into a credit-committee-ready term sheet. Remove any one layer and the deal does not close at this scale or speed.

REPLICATING THE MATAWINIE LOGIC — PRACTICAL STEPS FOR EDC-TYPE INSTITUTIONS

EDC operates across both development-finance and export-credit modalities — requiring simultaneous evaluation of corridor bankability and export-finance viability. A Critical Chains Intelligence Desk mandate delivers a standing corridor read — monthly monitoring across DRC–Zambia, Francophone West Africa, and North American battery-mineral routes — with bespoke Pre-Investment Briefs deployable at transaction inflection points.

Case Study — IFC & the DRC Copper Corridor

Layer misalignment and its credit consequences — why corridor progress alone does not resolve project-level bankability.

THE CREDIT COMMITTEE DIAGNOSTIC

The DRC produces roughly three-quarters of global cobalt and ranks among the world's largest copper producers. The IFC and MIGA maintain active exposure across the DRC copper belt — yet project-level bankability remains persistently constrained. The gap is not capital. It is unresolved layer misalignment.

The Lobito Atlantic Railway aims to transform the DRC–Zambia corridor into a governed, reliable mineral route. It addresses Layer 01 — corridor infrastructure and political anchoring. But Layer 01 progress does not automatically resolve execution risk at Layer 02 (declining ore grades, constrained processing, TC/RC compression) or credit concerns at Layer 03.

GEOPOLITICAL RISK ALERT — AES / ECOWAS FRACTURE

The ECOWAS Mining Code and its directives no longer apply as harmonised frameworks in AES member states. Mali, Burkina Faso, and Niger have each introduced or renegotiated national mining codes increasing state ownership, taxation, and local-content requirements. Any DFI exposure in Francophone West Africa requires explicit corridor-level governance mapping.

TRANSLATING COMPOUND RISK FOR THE IFC CREDIT COMMITTEE

IFC credit teams face stacked, interdependent risk: corridor stability improving but uneven (Layer 01); processing capacity constrained (Layer 02); lender security structures complicated by residual ownership uncertainty (Layer 03). A Critical Chains Pre-Investment Brief makes explicit the distinction between addressable and structural risk.

LAYER 01 · CORRIDOR

Improving but uneven. Lobito Atlantic Railway advancing. Co-governance tensions between national ownership frameworks and DFI conditionality remain active. ESG legitimacy contested at community level.

LAYER 02 · EXECUTION

Declining ore grades at key DRC operations. Constrained refining depth compresses local returns. Energy bottlenecks affect throughput reliability — directly impacting DSCR assumptions in project finance models.

LAYER 03 · BANKABILITY

Lenders face stacked, interdependent risk. Without a structured three-layer diagnostic, credit committees are as likely to exit sound deals as to advance fragile ones. Both outcomes carry institutional cost.

THE MATAWINIE–DRC CONTRAST: IC ALLOCATION LOGIC IN PRACTICE

Matawinie closed in months once all three layers aligned. The DRC corridor has absorbed years of DFI engagement with persistent bankability gaps — because Layer 01 progress has not been matched by execution depth at Layer 02 or contract architecture at Layer 03. A Critical Chains cross-corridor dashboard gives an IFC portfolio team the allocation logic it requires — a structured, layer-by-layer comparative read calibrated for portfolio-level decision-making.

Industrial Gravity & Five Steps

> *The strategic asymmetry DFI boards must price — and five steps credit teams can act on now.*

THE STRATEGIC CONTEXT DFI BOARDS MUST PRICE

China's structural advantage in critical minerals was built not through resource ownership alone, but through deep value-chain integration — from ore to processing to OEM qualification to battery production — creating *industrial gravity*: a self-reinforcing position across all three layers simultaneously. The Western institutional response deploys instruments at individual layers without equivalent integration. DFI boards must price this asymmetry explicitly.

The most consequential near-term stress test is no longer whether the ore exists. It is whether the system can sustain synchronised industrial throughput as AI data-centre load growth, grid reinforcement, and defence manufacturing compete for the same copper, equipment, and processing capacity.

Five Steps DFI Teams Can Act On Now

1 **Diagnose before deploying instruments.**

Identify which layer is the binding constraint before committing political risk insurance, concessional finance, or first-loss capital.

2 **Design corridor programmes with bankability translation plans.**

Every corridor investment must specify — in credit-committee language — how Layer 01 de-risking translates into measurable changes at Layers 02 and 03.

3 **Build joint corridor–execution–bankability tasking.**

Combine corridor-governance specialists, execution analysts, and project-finance structurers in the same diagnostic — not sequential hand-offs.

4 **Prioritise pilots where all three layers align.**

Use bankability architecture — not announcement — as the corridor selection criterion. Select 2–3 priority corridors demonstrating simultaneous three-layer alignment.

5 **Anchor on bankability architecture, not milestones.**

Ownership structures, warranty frameworks, and revenue-visibility mechanisms must be designed before project finance is attempted.

CRITICAL CHAINS PRODUCT MAPPING AGAINST THE FIVE STEPS

Step 1 → Corridor Monitor as the diagnostic sorting instrument. **Step 2** → Pre-Investment Brief with explicit bankability translation language. **Step 3** → Stakeholder / ESG Brief equipping the joint internal team. **Step 4** → Cross-Corridor Dashboard mapping layer-by-layer bankability status. **Step 5** → Ongoing monitoring with alert flags when bankability conditions shift.

Critical Chains is not a substitute for DFI internal analysis. It is the layer-reading capability that makes internal analysis faster, more defensible, and better aligned across teams.

The Investment Committee Mandate

> *From corridor announcement to financial close — the capability that separates corridors that close from corridors that stall.*

The energy transition will be won or lost at the execution layer — and the execution layer is where DFIs and institutional investors bear the most direct institutional risk. The system is not failing at the level of political will or capital availability. It is failing at the level of integrated diagnosis: the inability to identify which layer is the binding constraint for a specific corridor, and to deploy the right instrument at the right level in response.

The three-layer framework — corridor governance, industrial execution, bankability architecture — is not a new taxonomy. All three layers already exist, in fragments, across DFI thinking. What is missing is the institutional habit of treating them as an integrated stack, the analytical capability to diagnose which layer is binding, and the intelligence products that enable an investment committee to act with confidence.

> *"The question an investment committee must answer is not whether the ore exists. It is whether the system connecting the ore to a financed, operating clean-energy asset is coherent enough — across all three layers — for institutional capital to commit, defend, and hold."*
>
> **NM ADVISORY — CRITICAL CHAINS INTELLIGENCE DESK, MAY 2026**

NM Advisory — Critical Chains Capability for DFI & IC Teams

Corridor Governance Intelligence

Political, regulatory, ESG, and geopolitical risk mapping along resource corridors — a structured assessment of whether a route is sound for institutional capital, and which conditions must change before it is.

Pre-Investment & Bankability Briefs

Ownership structures, warranty frameworks, and risk-allocation analysis — translating corridor and execution intelligence into go / no-go / conditional-go recommendations at credit-committee discipline.

Board & DFI Strategic Briefings

Concise three-layer intelligence products — formatted for board and IC consumption — connecting corridor reality to capital allocation, partner selection, and transaction timing.

About NM Advisory

A Montreal-based strategic intelligence firm specialising in critical minerals corridors, ESG governance, and corridor-level risk for mining operators, DFIs, export-credit institutions, and institutional investors.

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CRITICAL CHAINS INTELLIGENCE SERIES

NM Advisory's flagship intelligence product — a series that transforms corridor geopolitics and ESG disorder into decision-ready analysis for boards, investment committees, and DFI teams operating in critical minerals markets across Africa and Latin America.

WP I Unlocking Capital for African Mining Juniors · **WP II** ECOWAS Mining Code: West Africa's Fractured Landscape · **WP III** Powering Sustainable Growth · **WP IV** China's Mineral State Doctrine · **WP V** From Corridors to Contracts (this paper)

MANDATE SUBSCRIPTIONS & PRE-INVESTMENT BRIEF ENGAGEMENTS

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White Paper V · Summer 2026