

TRA V2 全球透明度、黃金基礎設施 與 AI 礦業智能升級公告

TRA V2 GLOBAL TRANSPARENCY, GOLD INFRASTRUCTURE & AI MINING INTELLIGENCE CORPORATE UPDATE

企業級資訊披露與驗證框架 | Corporate Disclosure & Verification Framework

發布日期 | 11 August 2026

核心定位	CORE POSITIONING
從資訊發布走向可驗證基礎設施。TRA V2 將企業治理、礦業文件、生產資料、黃金儲備、鏈上紀錄及 AI 證據核對納入同一套可追溯架。	From information disclosure to verifiable infrastructure. TRA V2 is bringing corporate governance, mining documentation, production data, gold reserves, on-chain records and AI-assisted evidence verification into one traceable framework.

執行摘要 | Executive Summary

TRA 正式推進 V2 下一階段企業級升級。本次升級的核心並非增加宣傳密度，而是建立一套更成熟的資訊治理、資料核對、鏈上透明及黃金業智能架。項目將把「已驗證」「待驗證」「資料延遲」「歷史資料」及「規劃中」清楚區分，並逐步提高重要資料的可追溯性與第三方核驗能力。	TRA is advancing the next institutional phase of V2. The objective is not to increase promotional volume, but to establish a more mature framework for information governance, data verification, on-chain transparency and gold-industry intelligence. Verified, pending, delayed, historical and planned information will be clearly distinguished, with progressively stronger traceability and independent verification.
• 官方通訊逐步統一至 TRA 官方域名體系。	• Formal corporate communications will progressively migrate to TRA-controlled domain infrastructure.
• 歷史礦業文件、現行有效許可及續期／重新申請狀態分開管理。	• Historical mining documents, currently valid permits and renewal/reapplication status will be managed separately.
• 日常生披露由單一數字升級具有明確驗證狀態的資訊制度。	• Daily production disclosure will move from isolated figures to a status-based verification framework.
• 10% 黃金產量儲備政策逐步建立可追蹤的資料鏈與核驗狀態。	• The 10% gold-production reserve policy will progressively gain a traceable data trail and verification status.
• 鏈上合約、交易、事件及版本變更逐步建立清晰核驗路徑。	• On-chain contracts, transactions, events and version changes will progressively gain clear verification paths.
• AI 聚焦場數字生、生證據核對、業營運智能、透明驗證及全球黃金產業資料。	• AI will focus on mine digital twins, production-evidence verification, mining intelligence, transparency verification and global gold-industry data.

一、企業治理與官方通訊標準化 | 1. Corporate Governance & Official Communications

TRA 早期跨境協作曾使用 Gmail 作為部分行政及備援通訊工具。進入 V2 後，正式商務、技術、合規及重要行政通知將逐步統一至 TRA 官方域名通訊體系。涉及合約地址、財庫、重大系統操作及重要項目公告的資訊，將以官方網站、官方域名渠道及可核驗鏈上資料為主要依據。歷史 Gmail 通訊可保留作歷史紀錄或必要備援，但不作長期企業身驗證的核心。

During TRA's earlier cross-border development phase, Gmail was used for certain administrative and contingency communications. Under V2, formal business, technical, compliance and material administrative communications will progressively migrate to TRA-controlled domain infrastructure. Contract addresses, treasury information, material system instructions and major corporate announcements will be referenced primarily through official web properties, corporate-domain channels and independently verifiable on-chain data. Historical Gmail correspondence may remain as archival or contingency records, but will not serve as the long-term basis of corporate identity verification.

二、業許可與文件有效性治理 | 2. Mining Permits & Document Validity Governance

礦業文件的價值取決於其在特定時間、司法管轄區及營運活動下是否有效。TRA V2 將歷史礦業文件、現行有效許可、續期／重新申請狀態及合作方權利分開管理。已屆滿的歷史文件不描述為現行有效採礦授權；任何恢復、擴張或新增營運，均以當地當期有效法律、許可、合作協議及現場條件為前提。

The relevance of a mining document depends on whether it remains valid for a specific activity, jurisdiction and period. TRA V2 will separately manage historical documentation, currently valid permits, renewal/reapplication status and counterparties' rights. Expired historical documents will not be represented as current operating authorisations. Any resumption, expansion or new operation will remain subject to applicable law, valid permits, contractual arrangements and actual site conditions.

三、生資訊披露制度 | 3. Production Disclosure Framework

TRA 將逐步建立常態化營運披露機制。產量只有在日期、礦區、批次、重量及資料來源具備足夠核對條件時，才作為已核實產量發布。當資料仍在核對、現場傳輸延遲，或作業因許可、安全、設備、天氣及供應鏈因素暫停時，將直接標示資料狀態，而不以算數據補空白。

TRA will progressively implement a recurring operating-disclosure framework. Production figures will be classified as verified only when date, mine site, batch, weight and source information provide a sufficient basis for verification. Where data remains under review, transmission is delayed, or operations are paused due to permitting, security, equipment, weather or supply-chain conditions, the status will be disclosed directly rather than replaced with estimated figures.

四、10% 黃金量儲備：由政策走向可追紀錄 | 4. 10% Gold-Production Reserve: From Policy to Traceable Records

按照 TRA 現行白皮書所述的儲備原則，符合條件並完成確認的黃金產量，按既定機制配置其中 10% 作為項目儲備。V2 將逐步把這項政策轉化為可核對的資料框架，包括適用日期、符合條件的產量基數、當期新增儲備、必要調整、期末儲備，以及在條件成熟時加入保管或第三方核驗狀態。

Under the reserve principle stated in TRA's current white paper, 10% of qualifying and confirmed gold production is allocated to project reserves under the applicable mechanism. V2 will progressively translate this policy into a traceable data framework covering applicable dates, qualifying production base, additions, adjustments, closing reserve balances and, where appropriate, custody or independent verification status.

五、上透明與可核驗紀錄 | 5. On-Chain Transparency & Verifiable Records

TRA V2 的技術方向不是以介面取代鏈上證據，而是讓重要資料更容易與上證據對照。核心智能合約地址、網絡、重要版本變

TRA V2 is not designed to replace on-chain evidence with interface presentation. Instead, material system information will become easier to reconcile with blockchain evidence. Core

更、關鍵交易及事件將逐步建立清楚的版本與核驗紀錄；重大合約升級亦將以原始碼、測試、鏈上 getter、交易與事件交叉驗證，而非只以單一前端畫面作為完成依據。

contract addresses, networks, version changes, material transactions and events will progressively receive clearer version and verification records. Major contract upgrades will be assessed through source code, testing, on-chain getters, transactions and events rather than a single user-interface representation.

六、AI 黃金生產證據核對 | 6. AI-Assisted Gold Production Evidence Verification

TRA V2 的 AI 路線以資料驗證與礦業營運為核心，而不是以價格預測或交易訊號主要用途。AI 將用於整理及交叉比對生產紀錄、煉金資料、庫存、文件、影像、設備資料與鏈上紀錄，協助識別資料缺口、不一致與異常。AI 輸出保留人工覆核與例外處理，不把模型判斷描述為獨立審計結論。

TRA V2's AI roadmap is centred on data verification and mining operations rather than price prediction or trading signals. AI will be used to organise and cross-check production records, refining data, inventory, documents, imagery, equipment data and on-chain records to identify gaps, inconsistencies and anomalies. AI outputs will remain subject to human review and exception handling and will not be represented as independent audit conclusions.

七、AI 礦場數字孿生與礦業營運智能 | 7. AI Mine Digital Twins & Mining Operations Intelligence

在取得足夠現場資料及合法使用權限後，TRA 規劃把礦場、生產線、設備、流程、產量與能耗逐步數字化，建立可視化營運模型。AI 礦業營運智能將聚焦設備維護、產能效率、能耗、供應鏈及營運異常，把分散的現場數據轉化為可管理、可追蹤的企業資料資產。

Subject to sufficient site data and lawful access rights, TRA plans to progressively digitise mine sites, production lines, equipment, processes, output and energy consumption into visual operating models. AI mining intelligence will focus on maintenance, capacity efficiency, energy use, supply chains and operational anomalies, transforming fragmented site data into manageable and traceable enterprise information assets.

八、AI 透明驗證引擎與全球黃金生產智能地圖 | 8. AI Transparency Verification & Global Gold Intelligence Map

TRA 規劃建立將「已驗證」「待驗證」「公開來源」「項目方提供」「發現差異」清楚分層的透明驗證介面，並逐步延伸至全球黃金產業資料入口。資料範圍包括主要產區、公開產量、政策變化、能源成本、供應鏈事件、產業新聞與區域安全風險，並保留來源與更新日期。

TRA plans to develop a transparency interface that clearly separates verified, pending, public-source, project-provided and discrepancy-flagged information, progressively extending into a broader global gold-industry intelligence layer. Data categories are expected to include major producing regions, public production data, policy developments, energy costs, supply-chain events, industry news and regional security risks, with source and update-date attribution.

九、日常公開資訊狀態 | 9. Daily Public Information Status

• Verified Production | 已核實產量：具備足以支持公開披露的生產紀錄。

• Verified Production: production records provide a sufficient basis for public disclosure.

• Pending Verification | 待核實：已取得資料，但交叉核對尚未完成。

• Pending Verification: data has been received, but cross-checking is not yet complete.

• Data Delayed | 資料延遲：現場、傳輸或文件尚未完整。

• Data Delayed: site, transmission or documentation is incomplete.

• Operations Paused | 作業暫停：因許可、安全、設備、天氣、供應鏈或其他營運因素暫停。

• Operations Paused: operations are paused due to permitting, security, equipment, weather, supply-chain or other operational factors.

• No Verified Figure Published | 當日無經核實數字可公布：不以估算或未核對數字替代實際資料。

• No Verified Figure Published: estimates or unverified figures will not substitute for confirmed data.

X 平台將逐步成為日常營運資訊窗口之一；官網則承載較完整的企業公告、政策背景、技術更新與驗證資料。

X will progressively serve as one channel for recurring operating updates, while the official website will carry more complete corporate announcements, policy context, technical updates and verification information.

十、2026 年西非黃金業監管環境 | 10. West African Gold Regulatory Environment in 2026

截至 2026 年 8 月 10 日，加納正推進對《Minerals and Mining Act, 2006 (Act 703)》的全面改革。加納土地與自然資源部於 2026 年 7 月 15 日公布，內閣已通過改革方案並提交國會。改革方向包括許可制度、社區發展協議、本地參與與監管框架。TRA 對外披露將把「已公布改革方案」與「已全面生效法律」清楚區分。

As of 10 August 2026, Ghana is advancing a comprehensive reform of the Minerals and Mining Act, 2006 (Act 703). On 15 July 2026, the Ministry of Lands and Natural Resources announced that Cabinet had endorsed the reform package and forwarded it to Parliament. The proposed reforms address licensing, community development agreements, local participation and regulatory structure. TRA will distinguish clearly between announced reform proposals and legislation that has fully entered into force.

2026 年 6 月 23 日，Ghana Gold Board (GoldBod) 公布自 7 月 1 日起實施新的官方黃金定價制度，採用 LBMA Gold Price AM / PM 作為官方本地黃金購買價格的主要基準，並要求持牌市場參與者遵守相關價格及合規要求。6 月 25 日，GoldBod 亦公布與大型礦商達成 30% 黃金產量本地 offtake 安排，自 7 月 1 日起生效。

On 23 June 2026, the Ghana Gold Board (GoldBod) announced a new official gold-pricing regime effective 1 July, using the LBMA Gold Price AM and PM as the principal benchmarks for official local gold purchase prices and requiring licensed market participants to comply with the applicable pricing framework. On 25 June, GoldBod also announced a 30% local gold-offtake arrangement with large-scale mining companies, effective 1 July.

馬里方面，2023 年礦業法改革後，政府持續加強對礦業收入與產業的控制。2026 年 7 月公開的礦業部 2026-2029 規劃顯示，工業黃金產量預計約為 2026 年 43.2 噸、2027 年 51.2 噸，2028 年約 57 噸；政策爭議及投資環境仍是產業的重要變數。

In Mali, the government has continued to strengthen control over mining revenues and the sector following the 2023 mining-code reform. A 2026-2029 mines-ministry plan reported in July 2026 projects industrial gold output of approximately 43.2 tonnes in 2026, 51.2 tonnes in 2027 and 57 tonnes in 2028. Policy disputes and the investment environment remain material industry variables.

十一、區域安全與供應風險治理 | 11. Regional Security & Supply-Chain Risk Governance

西非與薩赫勒地區的安全風險不能被用作所有營運問題的通用解釋。不同國家、區與運輸路線的風險程度不同。TRA 將把安全事件、營運中斷、資料延遲及許可狀態分開披露，把人員安全、燃料、設備、物流、通訊與保險納入礦業營運評估。

Security risk across West Africa and the Sahel cannot be used as a blanket explanation for all operational issues. Risk levels differ by country, mine site and transport corridor. TRA will distinguish security events, operating interruptions, data delays and permit status, while incorporating personnel security, fuel, equipment, logistics, communications and insurance into mining-operational assessments.

十二、2026 Q4 - 2027 Q1 自有黃金生體系規劃 | 12. Planned Proprietary Gold Production System, Q4 2026 - Q1 2027

按照 TRA V2 現階段規劃，項目預計於 2026 年第四季度至 2027 年第一季度推進非洲自有黃金生產體系及相關生產線建設，目標是提高對生產資料、設備流程、批次證據及營運透明度的直接掌握能力。實際投產日期、產能與規模取決於有效礦業許可、法律合規、地質條件、設備交付、基礎設施、合作協議、安全環境及現場驗收。在條件未完成前，規劃產能不會被描述為已實現產量。	Under the current TRA V2 roadmap, the project plans to advance a proprietary African gold-production system and related production-line development between Q4 2026 and Q1 2027, with the objective of increasing direct control over production data, equipment processes, batch evidence and operating transparency. Actual commissioning dates, capacity and scale remain subject to valid permits, legal compliance, geology, equipment delivery, infrastructure, contractual arrangements, security conditions and site acceptance. Planned capacity will not be represented as realised production before these conditions are satisfied.
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十三、第三方驗證與技術安全路線 | 13. Independent Verification & Technical Assurance

• 智能合約及關鍵 Web3 模組逐步引入獨立安全審查／審計。	• Core smart contracts and material Web3 modules will progressively undergo independent security review/audit.
• 重要黃金儲備、保管或生產證據，在條件成熟時引入適當第三方核驗。	• Material gold reserve, custody or production evidence will, where appropriate, be subject to suitable independent verification.
• 重要政策、礦業許可及法律狀態以主管機關或正式法律文件為主要依據。	• Material regulatory, permit and legal status will be referenced primarily to competent authorities or formal legal documentation.
• 第三方尚未完成驗證的資料，不使用『已審計』『已證明』等表述。	• Information not yet independently verified will not be described as audited or independently proven.

十四、全球透明度與驗證矩陣 | 14. Global Transparency & Verification Matrix

範疇 / Area	狀態 / Status	主要證據 / Evidence	核驗 / Verification	公開方向 / Disclosure
礦業許可 Mining Permits	Current / Pending / Historical	主管機關文件 Authority documents	法律／主管機關 Legal / authority	Transparency Center
黃金產量 Gold Production	Verified / Pending / Delayed	批次、生產、庫存 Batch / production / inventory	內部＋適當第三方 Internal + independent	Daily Disclosure
10% 儲備 10% Reserve	Recorded / Verification Pending	產量基數、儲備台帳 Production base / reserve ledger	保管／第三方逐步導入 Custody / independent	Reserve Dashboard
智能合約 Smart Contracts	Deployed / Versioned	地址、交易、事件、原始碼 Address / tx / events / source	上核驗／安全審 On-chain / security review	Contract Center
AI 驗證 AI Verification	Development / Live by module	方法、來源、狀態 Method / source / status	系統紀錄＋人工覆核 System + human review	AI Transparency
政策資料 Policy Data	Public-source verified	主管機關、監管公告 Authorities / notices	來源交叉核對 Source cross-check	Gold Intelligence

十五、建立可驗證、可持續的市場信任機制 | 15. Building Verifiable and Sustainable Market Confidence

TRA V2 將市場信任建立在持續、可核對的制度與資料之上。對一般市場參與者，重要資訊應清楚易懂；對專業投資者，資產、營運、風險、儲備與驗證狀態應具備足夠資料基礎；對機構合作方，關鍵資料應具備來源、責任邊界及核驗路徑。市場信任不依賴單一宣傳內容，而來自長期一致的治理、資料與執行紀錄。	TRA V2 seeks to build market confidence on consistent, reviewable systems and data. For general market participants, material information should be clear and understandable. For professional investors, assets, operations, risks, reserves and verification status should have an adequate evidentiary basis. For institutional counterparties, material information should have clear sources, accountability boundaries and verification paths. Market confidence is not built on a single promotional message, but on consistent governance, data and execution over time.
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十六、V2 透明度路線圖 | 16. V2 Transparency Roadmap

• Phase 1 企業通訊、公告與版本資訊標準化。	• Phase 1 Standardise corporate communications, announcements and version information.
• Phase 2 礦業文件、產量及 10% 儲備資料狀態化披露。	• Phase 2 Introduce status-based disclosure for mining documents, production and the 10% reserve.
• Phase 3 鏈上資料、會員系統與核心合約狀態一致性提升。	• Phase 3 Improve consistency across on-chain data, member systems and core contract states.
• Phase 4 AI 生產證據核對、透明驗證與礦場數字孿生。	• Phase 4 Deploy AI-assisted production-evidence verification, transparency verification and mine digital twins.
• Phase 5 全球黃金產業智能地圖與更完整的第三方驗證體系。	• Phase 5 Expand the global gold-intelligence map and independent verification framework.

結語 | Closing Statement

從承諾走向證據	FROM COMMITMENT TO EVIDENCE
TRA V2 的長期價值不建立在單一宣傳語上，而建立在有效許可、可追蹤產量、清楚儲備、可查鏈上紀錄、持續披露及清楚區分第一方資料與第三方驗證的制度之上。V2 將以可驗證取代要求相信，以持續披露取代選擇性更新，以系統化治理取代單點說明。	TRA V2's long-term value is not intended to rest on a single promotional statement. It is intended to rest on valid authorisations, traceable production, clear reserve records, reviewable on-chain data, recurring disclosure and a clear distinction between first-party information and independent verification. V2 will prioritise verifiability over assertions of trust, recurring disclosure over selective updates, and systematic governance over isolated explanations.

公開監管資料參考 | Public Regulatory References

• 加納土地與自然資源部，2026-07-15：公布 Minerals and Mining Act 改革方案已獲內閣通過並提交國會。	• Ghana Ministry of Lands and Natural Resources, 15 Jul 2026: Cabinet-endorsed Minerals and Mining Act reform package forwarded to Parliament.
• Ghana Gold Board，2026-06-23：公布自 2026-07-01 起實施 LBMA AM / PM 官方黃金定價制度。	• Ghana Gold Board, 23 Jun 2026: new official LBMA AM/PM gold-pricing regime effective 1 Jul 2026.

• Ghana Gold Board，2026-06-25：公布大型礦商 30% 黃金產量本地 offtake 安排，自 2026-07-01 起生效。	• Ghana Gold Board, 25 Jun 2026: 30% local gold-offtake arrangement with large-scale mines effective 1 Jul 2026.
• Reuters，2026-07-24：馬里礦業部 2026-2029 工業黃金產量規劃及礦業改革背景。	• Reuters, 24 Jul 2026: Mali mines-ministry 2026-2029 industrial gold-output plan and mining-reform context.

重要聲明 | Important Notice

本公告用於說明 TRA 的企業治理、技術方向、資訊披露原則及發展規劃，不構成投資建議、證券要約、收益承諾、價格保證、資產保本承諾或實體黃金即時贖回承諾。任何未來礦場、自有黃金生產線、AI 系統、儲備驗證、第三方審計或其他規劃，均須視適用法律、政府審批、有效許可、安全條件、合作協議、資料取得、第三方驗證及實際建設進度而定。	This announcement describes TRA's corporate governance, technical direction, disclosure principles and development roadmap. It does not constitute investment advice, an offer of securities, a promise of returns, a price guarantee, capital protection or an immediate physical-gold redemption undertaking. Any future mine, proprietary production line, AI system, reserve verification, independent audit or other planned initiative remains subject to applicable law, governmental approvals, valid permits, security conditions, contractual arrangements, data availability, independent verification and actual development progress.
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