

KION

Global Metal Logistic Hub

International metals
logistics center

Santiago Vila Airport
Flandes, Tolima



An integrated platform for metals

A connected operation

Receipt, control, analysis, classification, storage and dispatch of metal concentrates.

International connections

A link between KION's mining operations, KION Refinery in Panama and global markets.



Conceptual project visual

Flandes connects production and logistics

Santiago Vila Airport

Planned development near the airport, integrating air infrastructure and road transport corridors.

Central location in Colombia

Connections to mining regions, space for industrial development and modular expansion.

A platform for development

Potential for a free trade zone, MRO, laboratory, security and business services.



Conceptual project visual

Designed to grow with demand

1.000

tonnes / day

Target capacity of the logistics center

A modular concept to expand capacity progressively as demand grows.



Conceptual project visual

≈ 30.000 tonnes/month

≈ 365.000 tonnes/year

One integrated value chain

ORIGIN

FLANDES

03 / PANAMÁ

DESTINATION

01 →

02 →

03 →

Mining Production

Preconcentration and
transport

Logistics Center

Receipt · Laboratory
Classification · Storage

KION Refinery

International logistics and
refined metals

Global market

Precious and
strategic metals

The hub will connect mining operations with the refinery.

Control from the moment each lot arrives

Receipt and verification

Receipt, document verification, certified weighing and unique lot identification.

Material validation

Inspection, sampling, laboratory testing and classification.

Traceability

A unique identity will follow each lot throughout the process.



Conceptual project visual

Precision for every decision



Conceptual project visual

Characterize

Sample preparation, moisture, chemistry and mineralogical characterization.

Verify

Quality control, retained samples and analytical reconciliation.

Validate

Certified results and mineralogical databases to support commercialization.

Understanding each concentrate's composition



Precious metals

Gold · Silver · Platinum · Palladium · Rhodium



Industrial metals

Copper · Nickel · Tin · Cobalt · Molybdenum



Strategic metals

Tantalum · Niobium · Titanium · Vanadium ·
Zirconium



Rare earths

Identification and characterization of elements of
strategic interest

Secure storage with control and traceability

Every lot under control

Identified, classified, segregated, controlled and monitored until dispatch.

Digital management

Real-time inventory, lot locations, reports, audits, alerts and cloud backup.

Continuous protection

24/7 surveillance, biometric access and fire protection systems



Conceptual project visual

An integrated mining and energy ecosystem

Logistics and industry

Logistics operators, mining and energy companies, industrial suppliers and storage.

Expertise and services

Laboratories, technology, specialist services, international trade and business services.

Planned development

The project includes a free trade zone and an industrial park as core components.



Conceptual project visual

Protecting high-value materials



Conceptual project visual

Physical security

Perimeter control, 24/7 video surveillance, access control and biometrics.

Chain of custody

Digital traceability and verifiable records throughout the operation.

Vaults

High-security infrastructure, certification and audits are planned as part of the project.

Operations connected in real time



Conceptual project visual

ERP + WMS

Enterprise and warehouse management

LIMS + CMMS

Laboratory and maintenance management

BI + IoT

Business intelligence and connected sensors

IA + gemelo digital

Analysis, automation and optimization

Data supporting operational decisions

Plan

Logistics optimization, resources, inventory, demand and laboratory planning.

Anticipate

Predictive maintenance and anomaly detection.

Control

Document analysis, KPI tracking, cost control and operational decision support.



Conceptual project visual

Specialized aviation capabilities

MRO Services

Maintenance, repair and overhaul. Inspections and technical storage.

Planned infrastructure

Workshops and aircraft positions for wide-body, single-aisle and business aircraft.

Operational support

Qualified personnel, quality and safety standards, and 24/7 availability.



Conceptual project visual

Business aviation and corporate services



Conceptual project visual

Comprehensive support

Private aircraft, flight coordination, crew support and ground services.

Corporate experience

VIP lounges, executive services, offices and business facilities.

Secure operations

Specialist security, confidentiality and 24/7 support

Projected investment across the ecosystem

USD 2.200 million

Logistics, industrial, technology and residential ecosystem

Scope excludes runway expansion and an international cargo terminal.

Seven budget components

COMPONENT	USD MILLION	SHARE
Airport infrastructure and FBO	550	25,0%
Logistics center, collection and classification	350	15,9%
Industry, processing and refinery	650	29,5%
Technology, automation and AI	180	8,2%
MRO, hangars and specialist workshops	220	10,0%
KION City: residential development	150	6,8%
Security, services and integrated management	100	4,6%

Total: USD 2.200 million

Pending reconciliation: this allocation assigns USD 150 million to KION City; the original's dedicated chapter and summary state USD 500 million.

Housing and well-being close to work



Conceptual project visual

2.500

homes

USD 500 million

400 million for housing 100
million for urban and social
infrastructure

A residential and social development for KION employees and their families

A complete community

Living and community

Homes, parks, playgrounds, sports facilities and a community center.

Everyday services

Education, childcare, a medical center, supermarket, restaurants and retail.

Connectivity and sustainability

Transport to the hub, 24/7 security, digital infrastructure, renewables and water management.



Conceptual project visual

New opportunities for Tolima

Logistics · Laboratory · Technology · Maintenance · Security

MRO · Free trade zone · Administration · Services · Trade · KION City

8.500–13.500

direct jobs in the reference project

Local training · Regional suppliers · Family well-being

Estimate at maturity for the earlier integrated airport project, including all its components

Staffing for this reduced scope must be recalculated during engineering and recruitment planning.

Responsible growth by design



Visual conceptual del proyecto

Energy and resources

Energy efficiency, renewables, efficient lighting and responsible water management.

Operations and environment

Dust and waste control, circularity, digitalization and efficient mobility

People and governance

Sustainable construction, local talent, regional suppliers and corporate governance.

One platform, multiple capabilities

**Mining
operations**

Production and origin



**Flandes logistics
center**

Laboratory
Classification Storage



**KION Refinery
Panamá**

Refined metals



Global markets

International logistics

CROSS-FUNCTIONAL CAPABILITIES

Free trade zone · Security and vaults · Technology and AI

MRO · FBO · KION City

The scale of the project

USD 2.200

million in projected investment

1.000 t/día

target hub capacity

2.500

homes in KION City

USD 500

million proposed for KION City

Colombia + Panamá / Logistics and industrial integration

Connecting natural resources with global markets

Flandes · Panamá · World

