



Navigating Uncertainty with VCOM

Smarter Decisions for a Complex World

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External



Your roadmap to resilient mineral valuation

Smarter
Decisions
for a
Complex
World

- 01** **Setting the scene: Why change was needed**
Understanding the challenges that shaped VCOM
- 02** **How VCOM works: From data to decisions**
Turning complexity into clarity
- 03** **Challenges & evolution: The journey so far**
Continuous improvement for lasting impact
- 04** **Key takeaways: Navigating uncertainty with VCOM**

01

Setting the Scene: Why Change Was Needed

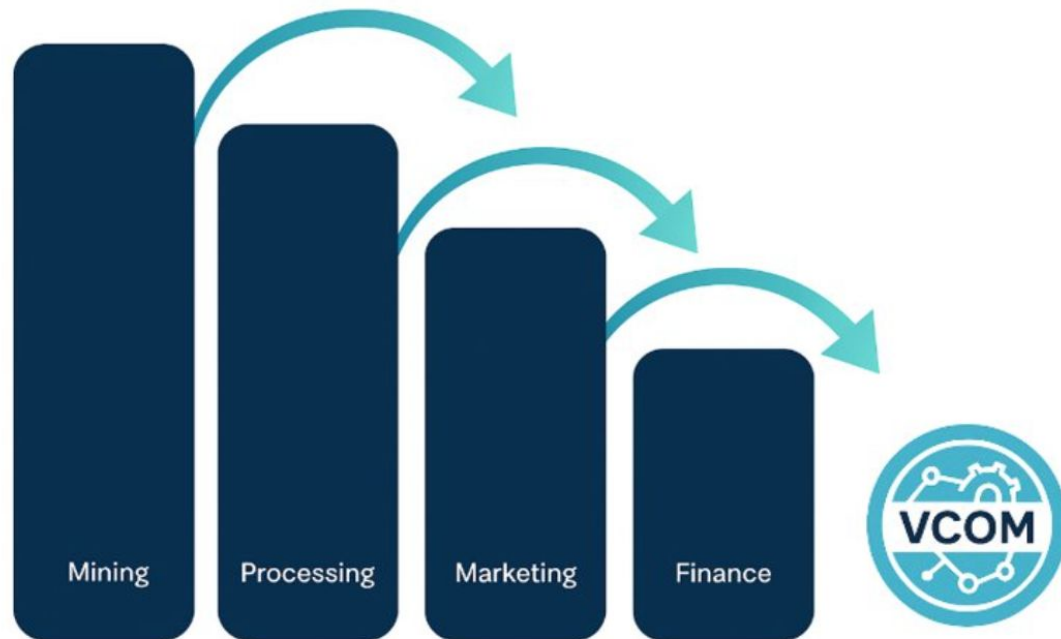
Understanding the challenges that shaped VCOM

Setting the scene: Why change was needed

Breaking silos: The case for integrated planning

Why traditional frameworks no longer suffice

BREAKING SILOS



Centralized Strategic Planning

Valterra Platinum has a tradition of centralized, data-driven strategic planning to manage complex operations effectively.

Lack of Integration in Traditional Frameworks

Traditional planning at Valterra Platinum focused mainly on mining, neglecting processing and downstream value chains.

Need for Alignment

Increasing operational complexity required bridging tactical and strategic planning for better alignment and execution.

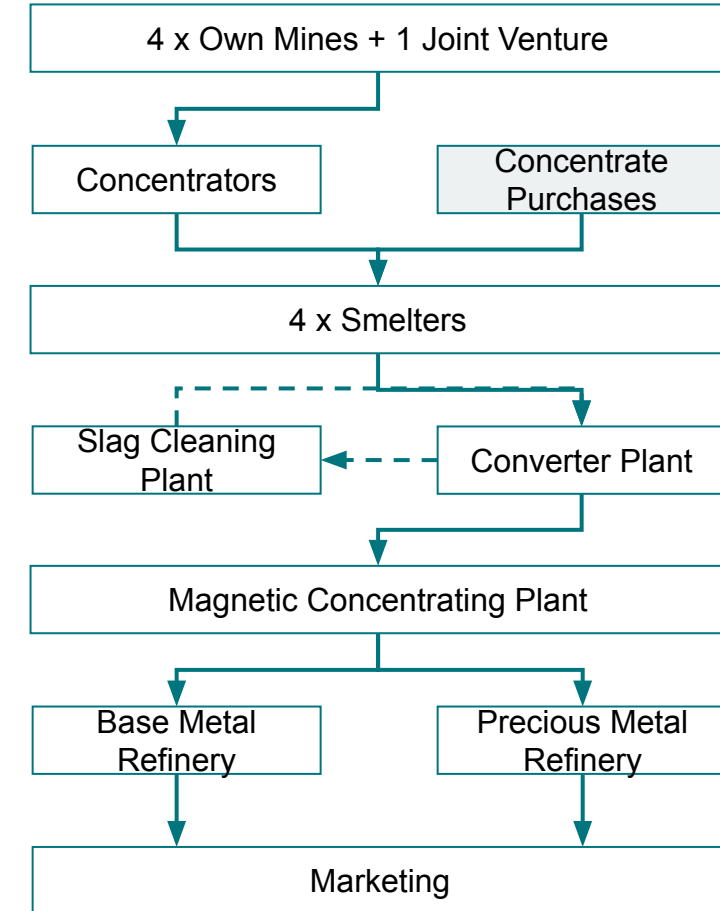
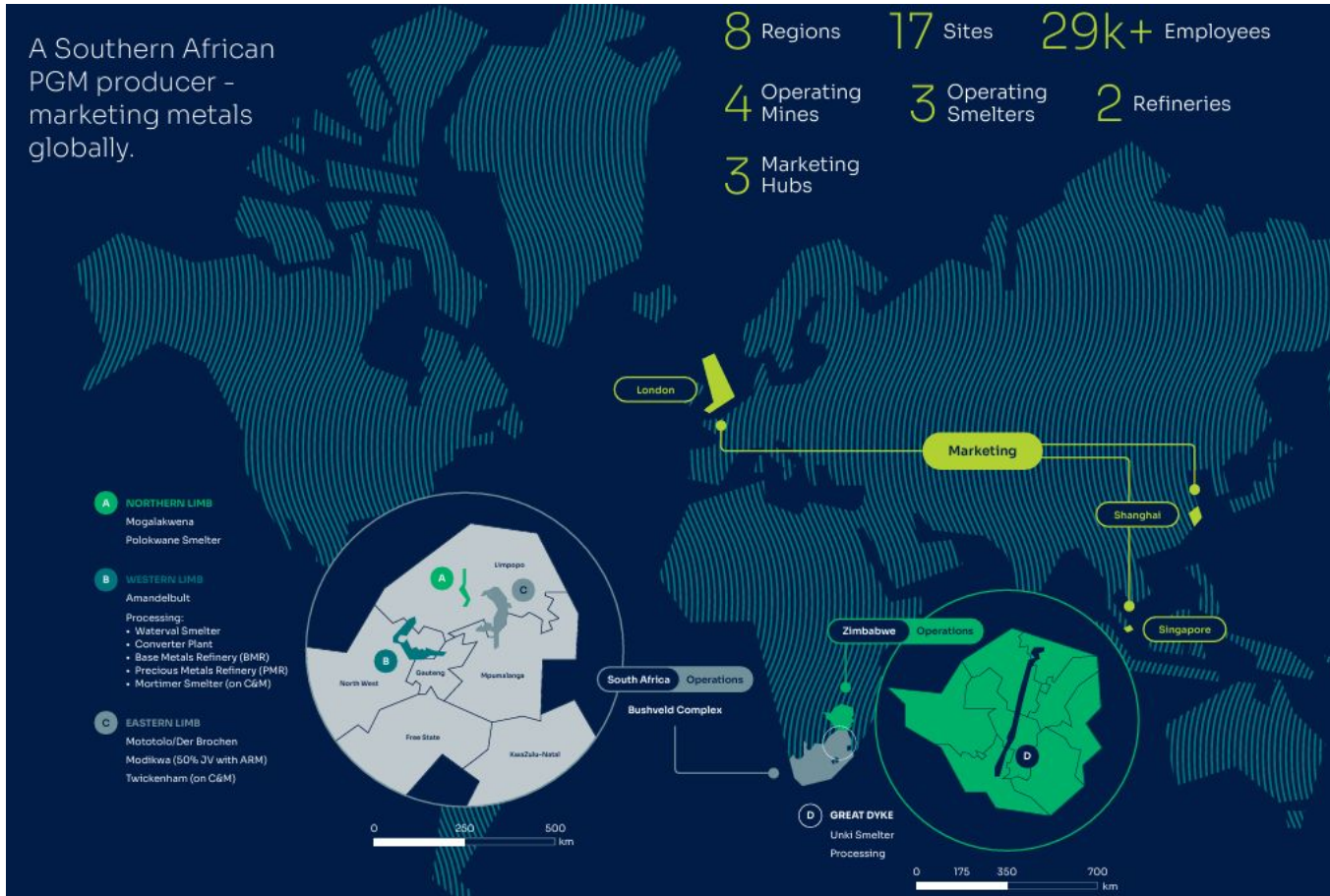
Alignment with Industry Recommendations

The model follows expert recommendations to incorporate full business complexity into dedicated planning tools

Setting the scene: Why change was needed

Valterra Platinum – *Unearthing value to better our world*

Driving excellence across the entire value chain



Setting the scene: Why change was needed

From precious metals to future technologies

Enabling innovation in energy, mobility, and beyond

Our Products



PRECIOUS METALS

Platinum, Palladium,
Gold, Rhodium



BASE METALS

Nickel,
Copper, Cobalt



BY-PRODUCTS

Silver, Osmium
Sodium Sulphate



Their Impact



AUTOCATALYSTS



JEWELLERY



ELECTRONICS



MEDICAL DEVICES



FOOD
TECHNOLOGY

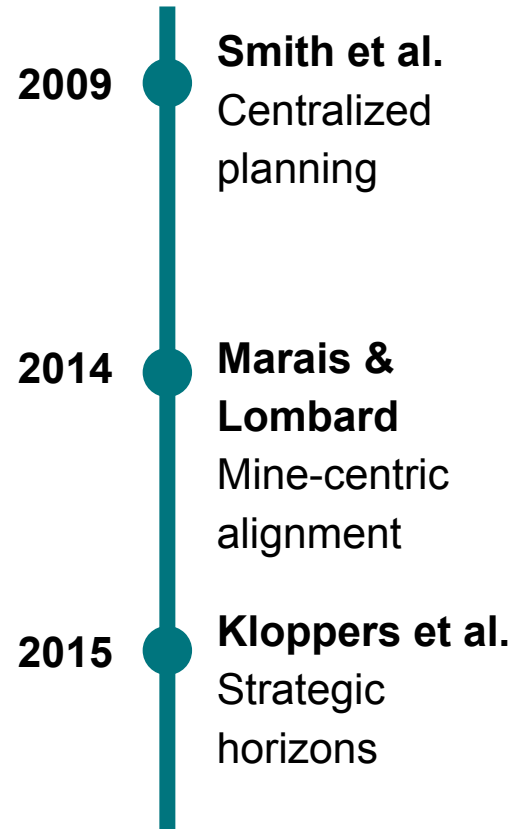
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HYDROGEN
ECONOMY

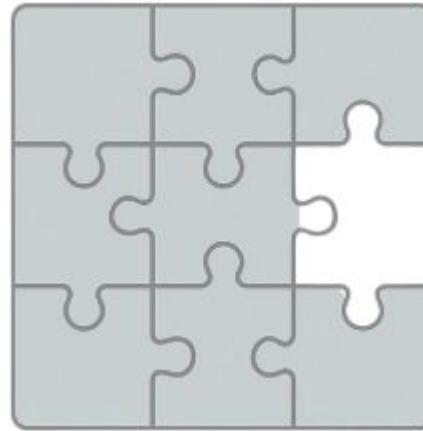
Setting the scene: Why change was needed

Bridging the gap

VCOM in the context of industry literature



The Gap



Limited focus on the integrated processing value chain

The Solution

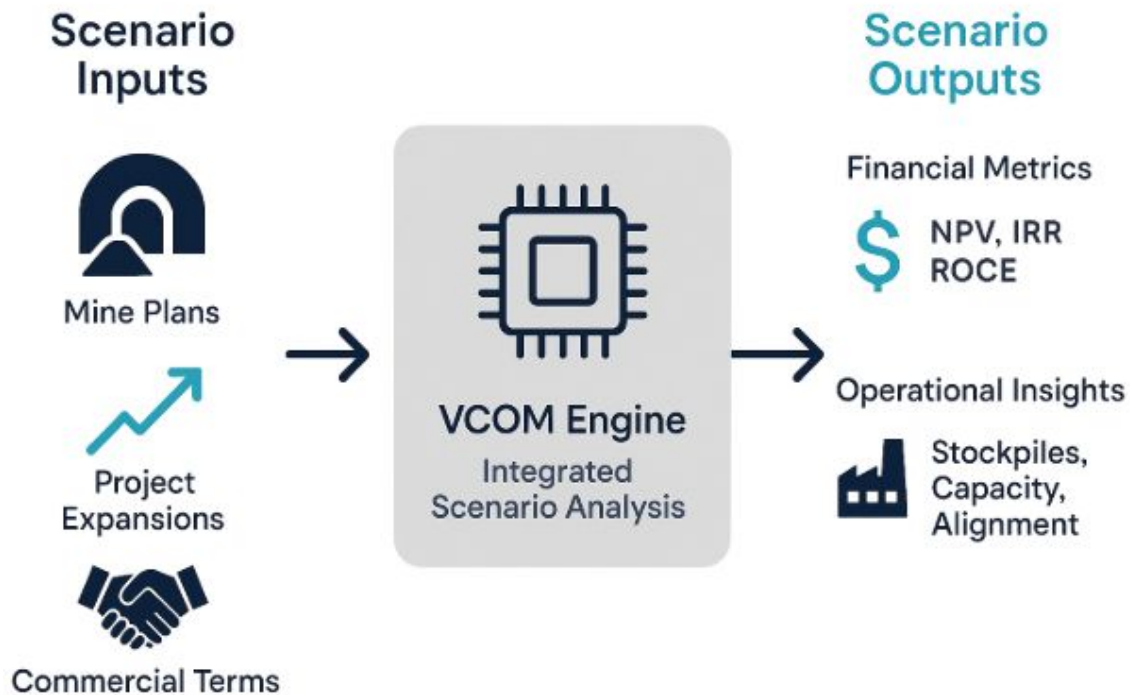


VCOM's Contribution
A holistic model integrating the entire mine-to-market process, as advocated by Lane et al. (2010)

Setting the scene: Why change was needed

VCOM explained: The engine behind smarter planning

Value Chain Optimisation Model (VCOM)



VCOM Modelling

The model integrates the planning information from mining, processing, finance and marketing into a singular tool.

Implementation of process logic

The platform enables scenario simulations for data-driven decisions on ownership, capacity, and pricing strategies.

Sensitivity Analyses

VCOM has the ability to apply different inputs for sensitivity analyses on pricing,, assumptions and inputs

Reporting Consistency

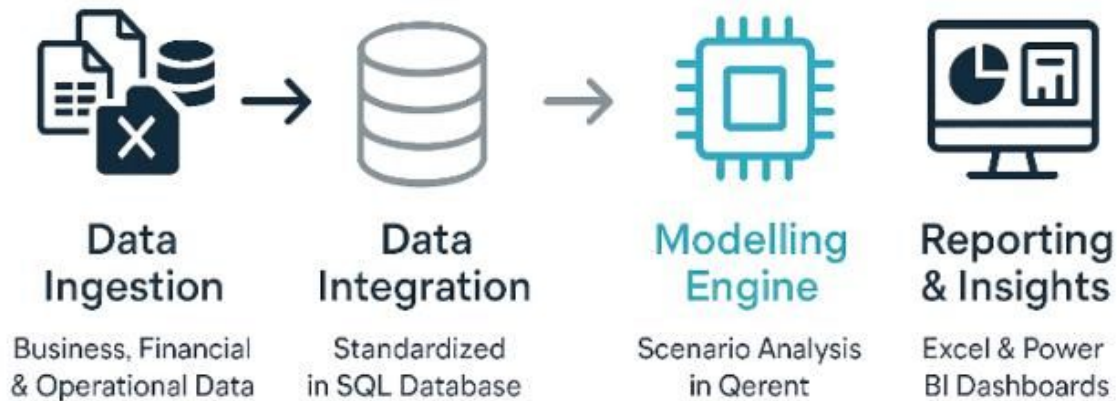
VCOM reports a consistent set of information to allow for the consistent reporting and analysis of data

Setting the scene: Why change was needed

VCOM in action: Bridging the mine-to-market divide

Unifying strategy, operations, and finance

Data Architecture Flow



Value Chain Optimisation Model (VCOM)

VCOM integrates mining, processing, marketing, and finance to overcome siloed planning and foster data-driven decisions.

Agile and Responsive Planning

VCOM supports an agile planning environment to navigate uncertainties in mineral asset valuation effectively.

Development of VCOM Solution

VCOM bridges the gap by extending integrated planning principles into processing and unifying the mine-to-market value chain.

Enhanced Decision-Making

VCOM enables scenario-based decisions and produces consistent, auditable outputs, improving strategic planning accuracy.

02

How VCOM Works: From Data to Decisions

Turning complexity into clarity

How VCOM works: From data to decisions

Inside VCOM: Architecture for agility

Built for scale, speed, and scenario flexibility



Structured Modular Architecture

VCOM's architecture includes data ingestion, libraries, a modular engine, scenario library, and reporting features for efficient operation.

Long-Term Forecasting

Supports a 60-year forecast horizon enabling tactical and strategic business decision-making across value chains.

Financial and Operational Metrics

Integrates financial and operational data to calculate metrics like NPV, IRR, ROCE, and AISC for capital allocation decisions.

Scenario Testing Flexibility

Allows rapid scenario testing for ownership, capacity, and pricing decisions enhancing responsiveness to market dynamics.

What is new knowledge?

VCOM's contribution



Holistic Value Chain Integration

We extend integrated planning rigor beyond the mine into the full processing value chain - so constraints, WIP, and stock build-ups are part of valuation.



Strategic Capital Allocation

We use portfolio-level, scenario-based planning to inform disciplined capital allocation - not just project-by-project.



A Single Source of Truth

We standardized data and reporting, so stakeholders trust and reuse results - driving adoption.

Driving value: VCOM's role in valuation & strategy

Empowering decisions that shape the future



Core Valuation Tool

VCOM is essential for asset and investment valuations at Valterra Platinum, and streamlining commercial transaction evaluations.



Portfolio-Level Modeling

VCOM supports portfolio optionality analysis and strategic pathway decisions in complex mining environments.



Operational Insights

The model identifies bottlenecks, evaluates contracts, and assesses strategic levers for informed decision-making.



Data-Driven Decisions

Insights from VCOM enable decisions aligned with corporate goals and enhance stakeholder trust.

03

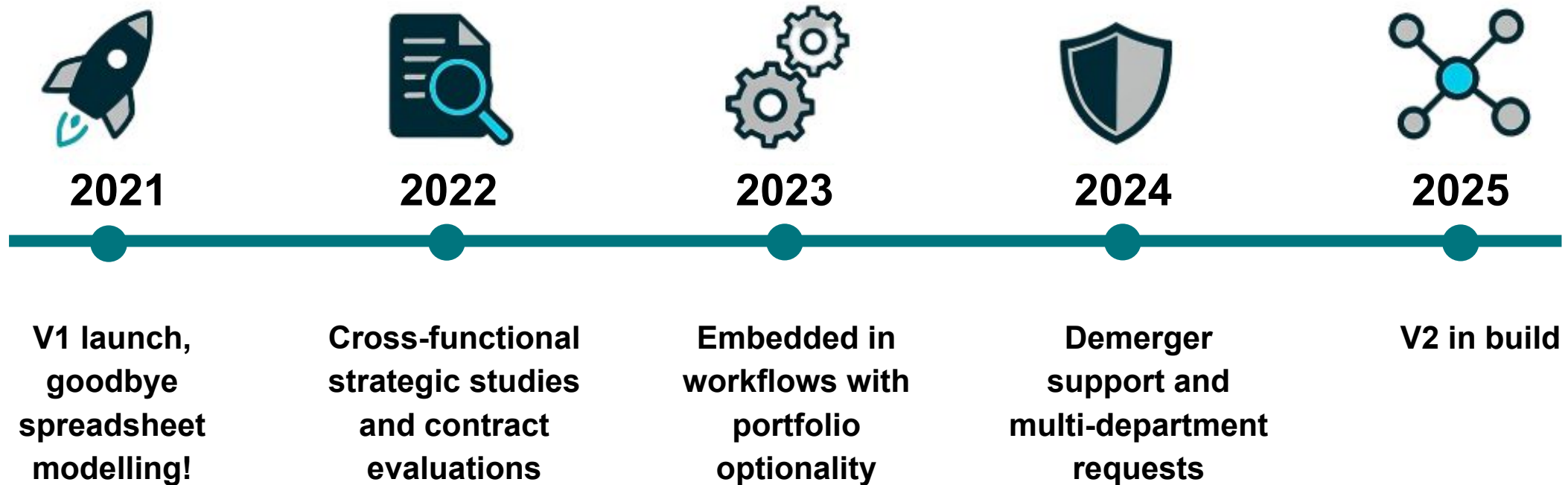
Challenges & Evolution: The Journey So Far

Continuous improvement for lasting impact

Challenges & evolution: The journey so far

VCOM's rapid transformation

Scaling capabilities to meet growing demands



Challenges & evolution: The journey so far

What's next: AI, real-time insights & industry leadership

Pioneering the next era of mineral valuation



Web-based Platform

Enabling real-time, multi-user collaboration across the business.



AI-powered Insights

Accelerating data analysis and generating deeper strategic insights.



Enhanced Dashboards

Providing tailored, interactive reports for all stakeholders.

04 Key Takeaways: Navigating Uncertainty with VCOM

The VCOM advantage: Turning uncertainty into opportunity



1

Integrated planning is non-negotiable

Traditional silos can't keep up with today's complexity



4

Future-ready with AI and real-time collaboration

Next-gen enhancements will redefine mineral valuation



2

VCOM delivers agility and insight

Scenario modeling and data-driven decisions enable resilience



5

Leadership through innovation

Valterra Platinum is setting the benchmark for the industry



3

Proven impact, growing adoption

From 850 scenarios in 2023 to 3,600+ in 2025

Let's shape the future together, collaboration is the key to resilience



Thank you

External

