



VERTEX Decision Intelligence Platform (VDIP)

VDIP PRODUCT OVERVIEW

Simulate the Future.

Make Smarter Decisions.

Simulation-driven decision intelligence for governments, central banks, institutions and enterprises.

VDIP IN BRIEF

VDIP lets leaders test what a decision could set in motion, across every sector it touches, before they make it.

VDIP empowers governments, central banks and enterprises to simulate big decisions, a new policy, an investment, an operational change, before they're made, not after. It replaces guesswork and after-the-fact reporting with a clear, evidence-based view of consequences: who is affected, which sectors feel it, and what the likely outcome is. What follows covers how it works, what it takes to deploy, and where it applies.

“ VERTEX built VDIP to answer one question before it's too late to ask: what happens next?

In plain terms: VDIP builds a live model of your organization, economy or sector. Feed it a decision and it shows what may happen next, how the effects spread to connected areas, and which option leaves you best off, all before you commit. ”

THE INSTITUTIONAL PROBLEM

Built for reporting.

Not for consequence-testing.

Governments, institutions and enterprises are expected to make faster decisions in increasingly connected and complex environments. Yet many still rely on systems designed to report what has already happened, not to simulate consequences, model downstream effects or reveal cross-sector impact before a decision is made.

THE MISSING CAPABILITIES



What could happen next?

NO SIMULATION



Who or what is affected downstream?

NO PROPAGATION MODEL



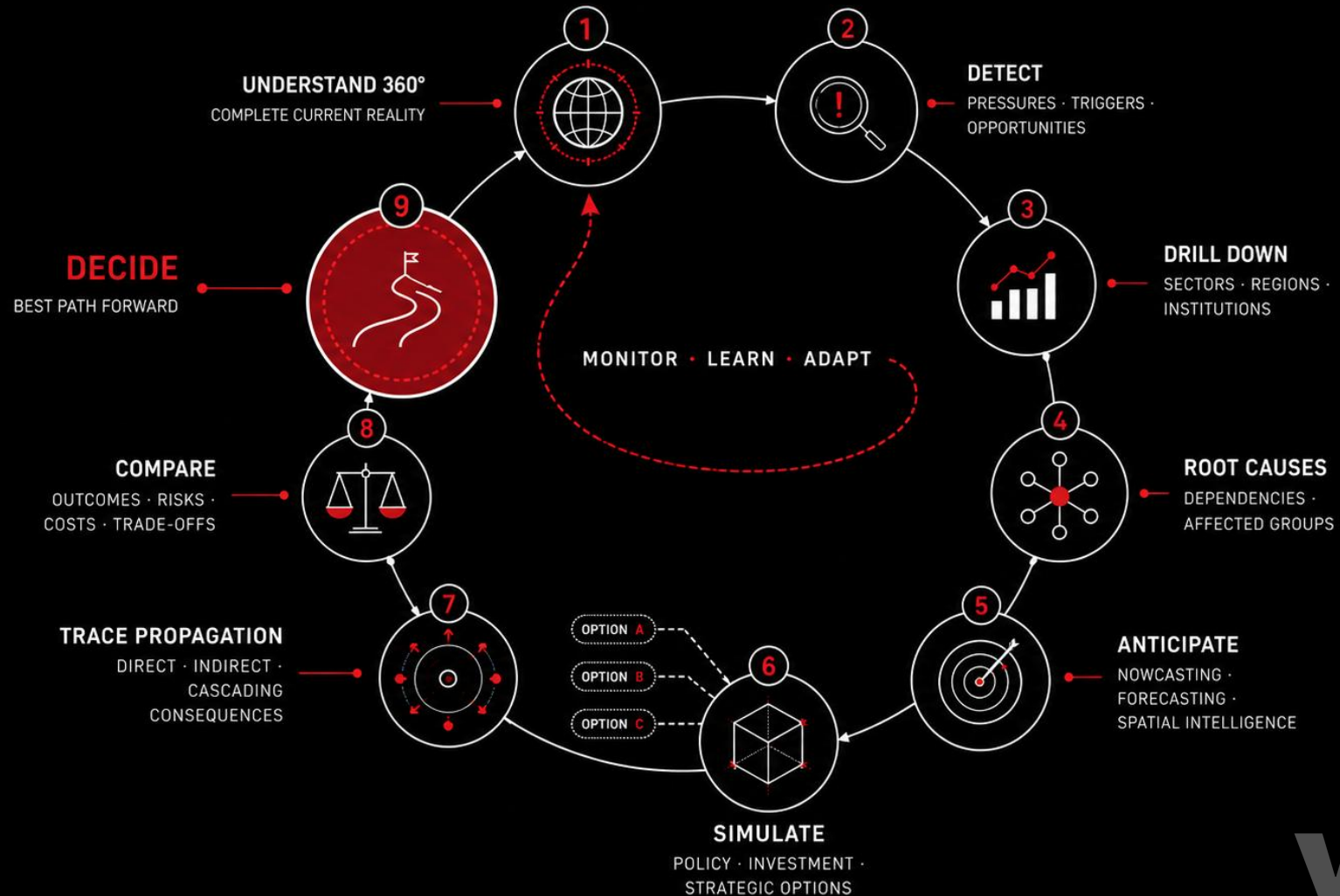
How does one sector affect another?

NO CROSS-SECTOR VISIBILITY

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THE VDIP DECISION JOURNEY

From a 360° understanding of today to a confident decision about tomorrow.



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VDIP IN ACTION

A decision environment that guides leaders from understanding today's reality to testing options, tracing consequences and making better decisions.

1. UNDERSTAND

See the current reality across sectors, layers and conditions.

2. INVESTIGATE

Drill into the variables, locations and drivers behind the issue.

4. SIMULATE

Test policy, investment and strategic options before action is taken.

6. COMPARE & DECIDE

Compare outcomes, trade-offs and scenario paths to choose the strongest way forward.

5. TRACE IMPACT

Reveal direct, indirect and cross-sector consequences of each choice.

3. ANTICIPATE

See what may happen next through projected trajectories and emerging risks.



THE VDIP PLATFORM

One horizontal platform. Four institutional capabilities.

1

SIMULATION ENGINE

Tests scenarios using configurable policy, market, operational and infrastructure variables.

2

DIGITAL TWIN LAYER

Creates dynamic representations of the systems an institution needs to understand and govern.

3

PROPAGATION MODELLING

Maps how decisions, shocks and signals may move through connected sectors and systems.

4

CROSS-SECTOR INTELLIGENCE

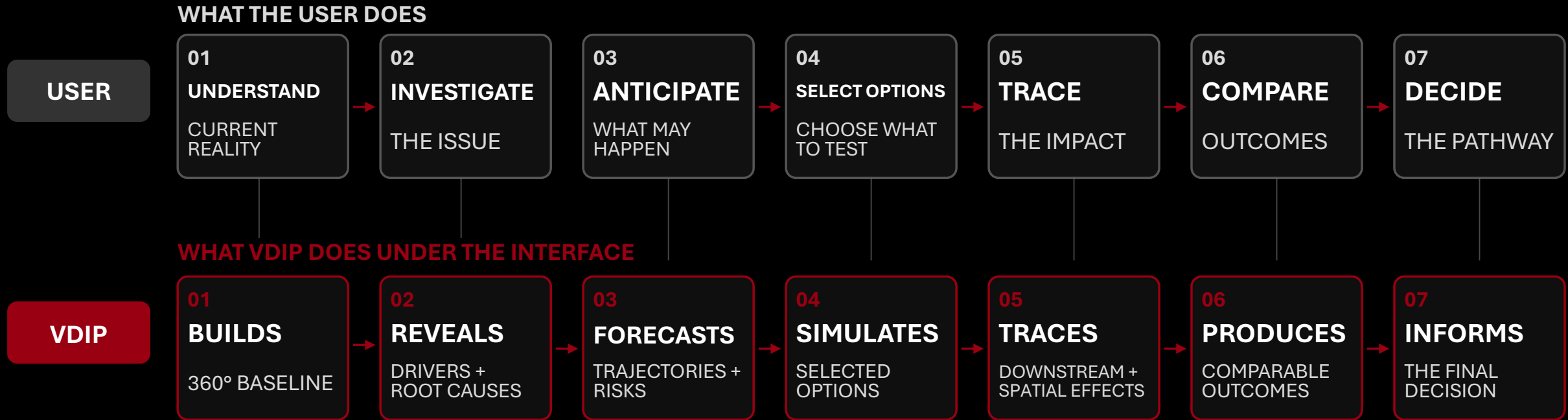
Shows how a change in one domain may affect outcomes in others.

Together, these capabilities help institutions test decisions before execution.

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HOW VDIP POWERS THE DECISION

The user moves through the decision journey. VDIP generates the intelligence that makes each step testable.



VDIP builds the evidence, baseline, projections and simulations.
The user retains judgement, authority and accountability.

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OUR PARTNER ECOSYSTEM

VDIP is being built within a partner ecosystem supporting development, deployment, advanced AI reasoning and high-performance simulation.

SIEMENS

TECHNOLOGY FOUNDATION

VERTEX is an SIEMENS ISV Partner. SIEMENS technology supports configurable application, workflow and deployment foundations for institutional environments.

NVIDIA

ACCELERATED COMPUTE

VERTEX participates in the NVIDIA Connect Program, supporting access to the GPU and AI ecosystem for simulation and advanced modelling.

ANTHROPIC

INSTITUTIONAL-GRADE AI REASONING

VERTEX is currently progressing through the Anthropic Partner Network process to support secure, explainable and institutional-grade AI reasoning.

Ecosystem references reflect program participation, partner status or technical alignment as applicable and do not imply commercial endorsement unless separately confirmed.

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VDIP USE CASES

Where could the ability to test decisions before acting create the greatest strategic advantage?

VDIP can be configured around any consequential decision environment where leaders need to understand current conditions, explore possible futures, trace downstream effects and compare outcomes before committing capital, policy or operational capacity.

SAMPLE USE CASES — NOT LIMITED TO THESE



ECONOMIC DIGITAL TWINS

Growth, inflation and fiscal choices are connected. Simulate policy and investment effects before national trade-offs become costly.



SOVEREIGN INVESTMENT

Capital must deliver return and national impact. Compare exposure, strategic value and downstream economic effects before allocating funds.



TRANSPORTATION & AVIATION

Routes, capacity and disruption affect the whole network. Simulate demand, delays, pricing and operational resilience before changes go live.



LOGISTICS & SUPPLY CHAINS

Bottlenecks and shocks spread fast. Model flows, costs, infrastructure pressure and resilience options before supply chains fail.



HOUSING & URBAN SYSTEMS

Affordability, supply and infrastructure collide. Test housing, land-use and mobility choices before cities lock in risk.



HEALTHCARE SYSTEMS

Demand, workforce and capacity pressure build early. Forecast stress points and test interventions before services break.



SPORTS & MAJOR EVENTS

Crowds, security, mobility and legacy are high stakes. Simulate event operations, revenue and infrastructure demand before delivery.



ENERGY & UTILITIES

Prices, supply and transition choices affect every sector. Model shocks, investment needs and resilience pathways before disruption hits.



CLIMATE & RESILIENCE

Climate risk cascades across infrastructure, finance and communities. Test adaptation choices and emergency capacity before crises hit.



ENTERPRISE OPERATIONS

Markets, workforce, capital and capacity shift together. Test strategic moves before execution exposes the business to risk.

One platform. Multiple decision environments.

THE INSTITUTIONAL VALUE OF VDIP

VDIP strengthens the quality, speed and defensibility of consequential decisions.

SEE EARLIER

- Detect emerging pressure and risk sooner
- Understand changing conditions across connected systems
- Reveal consequences before they become operationally visible

DECIDE BETTER

- Test alternatives before committing resources
- Compare risks, trade-offs and outcomes
- Reduce unintended downstream effects

ACT WITH CONFIDENCE

- Create shared visibility across departments
- Support executive, board and policy decisions
- Improve transparency and decision traceability

LEARN CONTINUOUSLY

- Monitor actual outcomes
- Compare expected and observed results
- Improve future models and decisions

FROM REACTIVE TO ANTICIPATORY

VDIP changes how institutions understand uncertainty, evaluate options and respond to emerging conditions.

REACTIVE DECISION-MAKING

- Fragmented data
- Retrospective reporting
- Static dashboards
- Siloed functions
- Options debated without simulation
- Effects discovered after implementation
- Delayed response



ANTICIPATORY DECISION-MAKING

- Connected evidence
- Continuous understanding
- Simulated scenarios
- Cross-sector visibility
- Options tested before commitment
- Consequences traced in advance
- Earlier, more confident action

REPORT THE PAST → UNDERSTAND THE PRESENT → SIMULATE WHAT MAY COME NEXT

HIGH-LEVEL DEPLOYMENT OPTIONS

VDIP can be configured to align with institutional data, governance, security and operational requirements.

1

PRIVATE CLOUD

Dedicated institutional environment with controlled access and configuration.

2

SOVEREIGN CLOUD

Deployment designed around national or institutional data-residency requirements.

3

ON-PREMISES

Deployment within the institution's own controlled infrastructure.

4

HYBRID

A combination of institutional and cloud infrastructure based on sensitivity and need.

ROLE-BASED ACCESS · DATA SEGREGATION · CONFIGURABLE GOVERNANCE · AUDIT TRAILS · SYSTEM INTEGRATION

Deployment configuration is determined during institutional assessment and depends on technical, data-governance and security requirements.

WHY VERTEX

VDIP is being built around the realities of consequential institutional decision-making.

1

DECISION-CENTRED

Begins with the decision to be made, not merely the data available.

2

SYSTEMS-BASED

Reveals relationships, feedback loops and cross-sector consequences.

3

INSTITUTIONAL

Designed for government, central bank, enterprise and public-sector environments.

4

CONFIGURABLE

Built around the institution, decision domain and deployment context.

5

PURPOSE-DRIVEN

Strengthens institutional foresight, resilience and long-term decision capacity.

VERTEX BUILDS THE INTELLIGENCE INFRASTRUCTURE INSTITUTIONS NEED TO GOVERN THE FUTURE.

*“ The future should not be
discovered after the decision is made.*

*It should be understood before the
decision is taken. ”*

VDIP FOUNDING PRINCIPLE

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Start with **one consequential decision.**

REQUEST AN INSTITUTIONAL DEMONSTRATION

THE VERTEX DECISION INTELLIGENCE PLATFORM

VERTEX

Global Headquarters
Dubai World Trade Center
One Central
9th Floor, Offices 4
United Arab Emirates

T: +971 (0)4 289 1348
E: info@vertexadvisory.co
W: www.vertexadvisory.co