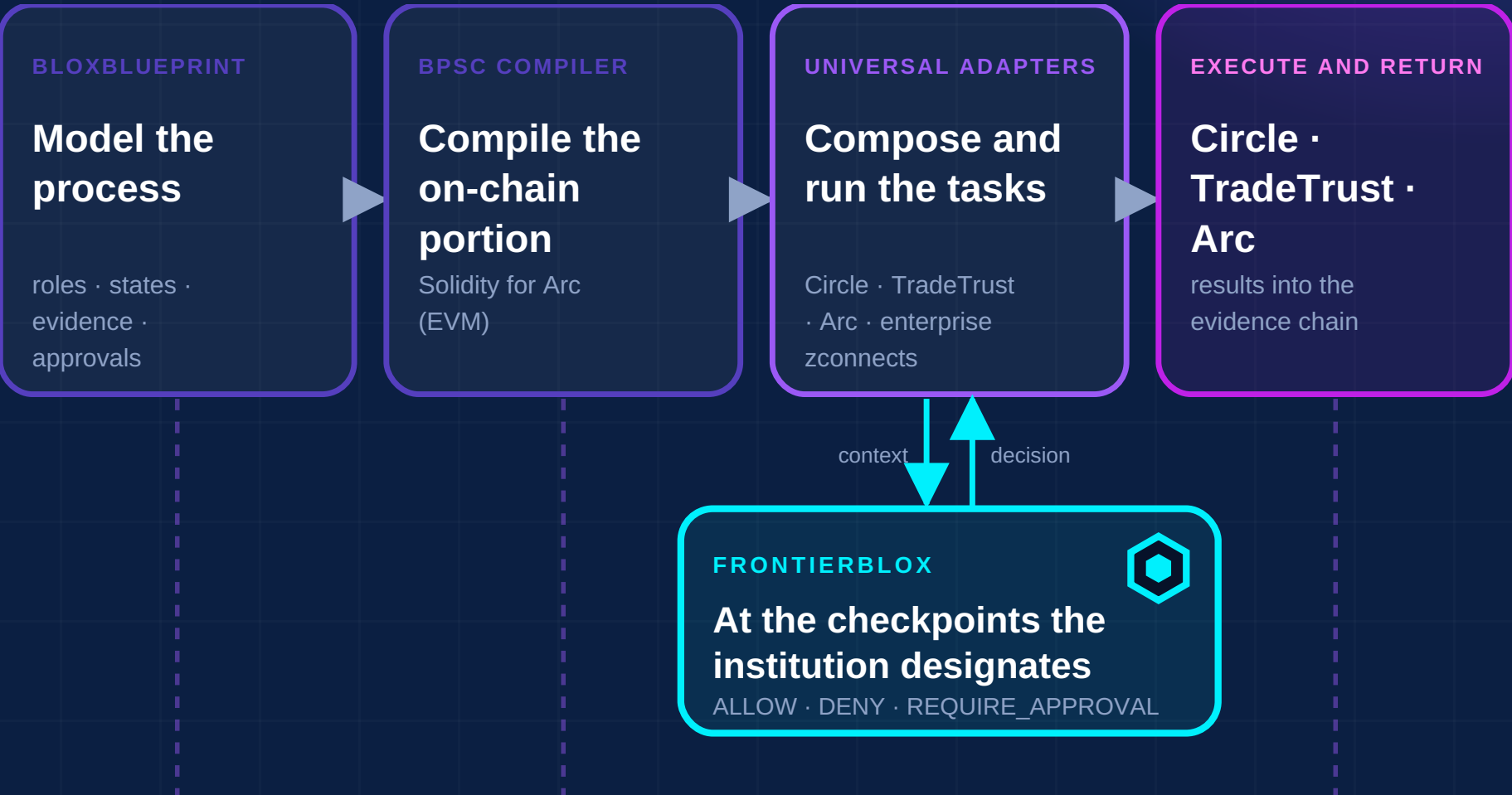


Arc is live. Govern the whole process — not just the payment.

One workflow can combine process design, institution-defined governance, Circle services, TradeTrust documents and Arc execution — modeled in BloxBlueprint, compiled by the BPSC Compiler, run by Universal Adapters, authorized by FrontierBlox where the institution places it.



ARC · CIRCLE'S EVM-COMPATIBLE LAYER 1 · MAINNET LIVE 16 SEPT 2026

TradeTrust documents · BPSC-compiled contracts · USDC settlement

One network. One evidence chain.

ZenithBlox validation remains Arc Testnet-scoped · mainnet migration and validation come next

Live network. Built components. A clear next gate.

The build covers service APIs, EVM contracts, digital trade documents and workflow-to-Solidity generation. Arc's launch expands the deployment horizon; it does not change what has been validated.

10

CIRCLE + ARC ZCONNECTS

Payment intents, bank-account visibility, direct minting and payout, transfers, transaction events, allowances, swaps and cross-network USDC movement.

04

EVM CONNECTOR FUNCTIONS

Contract reads, writes, live events and event history on Arc — the same family connects BPSC-generated process contracts.

TT

TRADETRUST V2 ON ARC TESTNET

Deployed for document issuance, verification, ownership and holdership lifecycle events.

SC

WEB3 PROCESS COMPILATION

BloxBlueprint models the process; the BPSC Compiler generates Solidity for the eligible on-chain portion.

READINESS BOUNDARY

Arc public mainnet launched on 16 September 2026 (per Circle). ZenithBlox's documented integration evidence remains Testnet-scoped. Mainnet migration, testing and evidence are the next technical gate.

Mainnet availability is a network fact. Production readiness is an integration-evidence claim.

Each component has one responsibility.

01

PROCESS

BloxBlueprint

Models roles, states, evidence, approvals and exceptions in BPMN 2.0 with Web3 constructs — and simulates the process before anything is deployed.

Review before code

02

COMPILE

BPSC Compiler

Compiles the eligible on-chain portion of the approved model into Solidity for EVM-compatible Arc. BPSC generates process logic; dynamic policy stays with FrontierBlox where the workflow calls it.

Traceable Web3 build

03

POLICY

FrontierBlox Engine

Evaluates the actions the institution designates as governed — standard controls plus its own workflow- and jurisdiction-specific rules — before execution. Decision retained.



Accountable authorization

04

COMPOSITION

Universal Adapters

Runs enterprise, Circle, TradeTrust and Arc tasks, calls FrontierBlox at the designated checkpoints, and carries every output forward as the next task's input.

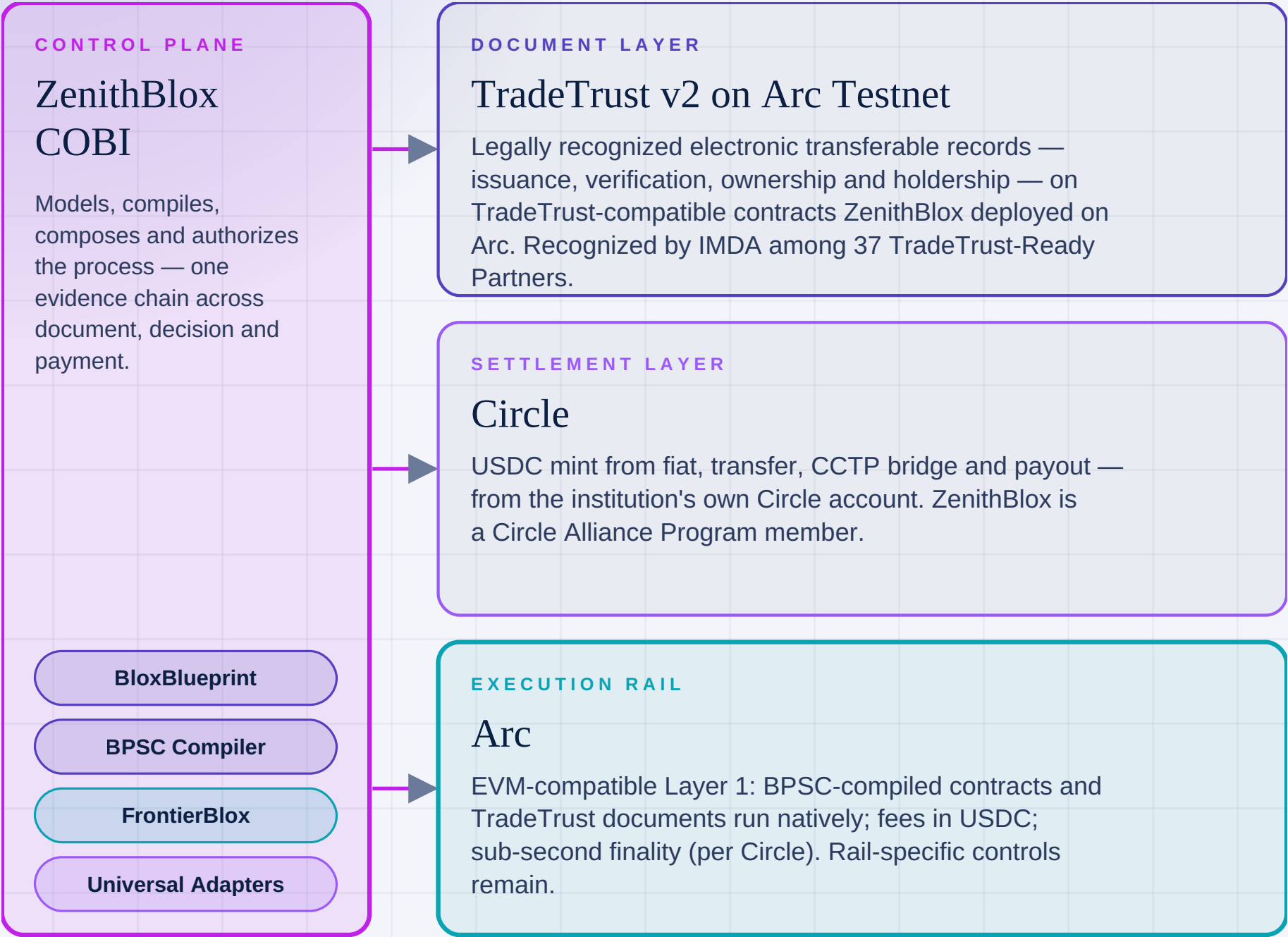
Reusable composition

EXECUTION · CIRCLE + TRADETRUST + ARC

Execute eligible API, document and EVM operations within their own boundaries — rail-specific controls remain.

The institution defines the process. COBI connects that design to policy, composition and execution — and because Arc is EVM-compatible, the Web3 portion of a BloxBlueprint model becomes a Solidity contract on Arc through the BPSC Compiler.

TradeTrust for the document. Circle for the settlement. Arc for the execution. COBI for the control.

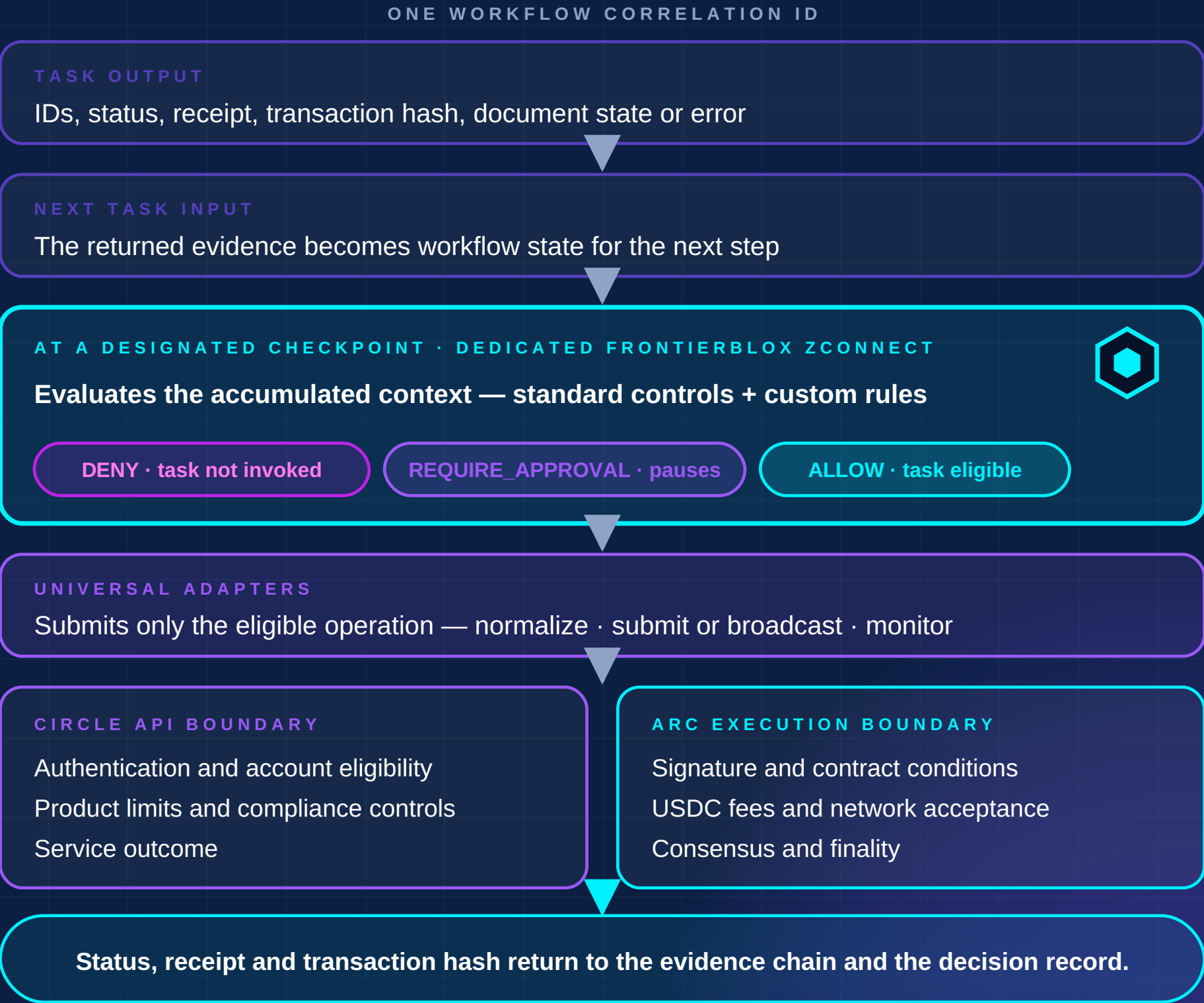


One workflow. One chain. One evidence chain.

All ZenithBlox deployments on Arc are Testnet-validated. Circle Alliance Program member; recognized by IMDA among 37 TradeTrust-Ready Partners. No endorsement by Circle or IMDA is implied.

ALLOW permits submission. It does not guarantee execution.

Each task result becomes input to what happens next. FrontierBlox appears only at the checkpoints the institution configures — through a dedicated zconnect in the workflow.



ALLOW permits submission. It does not guarantee execution or bypass Circle controls, contract conditions or Arc network execution.

Reusable zconnects across enterprise and Web3 systems.

Universal Adapters composes only the tasks the customer workflow requires.

CIRCLE SERVICES · 7

Payment intents: create and list
Bank-account visibility
Direct minting and direct payout
Transfers and transaction events

CircleCreatePaymentIntent · CircleListPaymentIntent
CircleListsBankAccount · CircleOnrampDirectMinting
CircleOfframpDirectPayout · CircleTransfer
CircleTransactionEventListening

ARC OPERATIONS · 3

Allowance (Permit2)
Swap
Cross-network USDC movement (CCTP)

ArcGrantAllowance · ArcSwap · ArcUsdcBridge

EVM CONNECTOR FAMILY · 4

Contract reads and writes
Live events and event history

EthereumRead · EthereumWrite
EthereumEventStreaming · event history

Also connects BPSC-generated process contracts.

TRADETRUST V2 ON ARC TESTNET

Issuance, verification, ownership
and holdership lifecycle events

TtIssueDoc · TtTransferOwnership
TtTransferHoldership · ...

On TradeTrust-compatible contracts deployed by ZenithBlox.

ENTERPRISE INPUTS

Core ledgers, ERP records, KYB evidence, customs events and electronic trade documents

OdooGetSale · PgFetch · SqlFetch · HttpGet · VleiToppanVerify · VcContentExtractor · WebhookComponent

CUSTOMER VALUE Reduce repeated custom integration while preserving each system's authority.

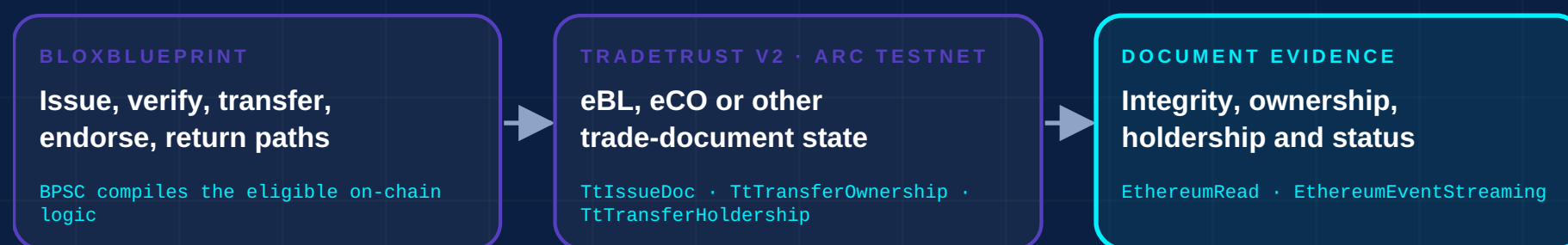
233 zconnects in the catalog; a workflow composes only the tasks it requires.



Document state controls financing and settlement release — inside one workflow.

Illustrative. TradeTrust v2 contracts deployed by ZenithBlox on Arc Testnet carry the eBL or eCO; the financing and settlement leg runs on Circle or Arc; FrontierBlox evaluates the documentary and financing conditions at the designated gate.

DOCUMENT LANE



FINANCE AND SETTLEMENT LANE



DOCUMENT EVIDENCE FEEDS THE GATE

FAILURE AND EXCEPTION PATH

Invalid or missing evidence prevents submission. An execution failure follows the workflow's configured exception, retry or compensation path.

RETURN

Document state, decision and the financing or payment result in one correlated workflow record

The lanes remain coordinated. Atomic settlement applies only when the workflow implements a specific atomic or compensation mechanism.

CUSTOMER VALUE Link document state, authorization and the financing or payment result in one correlated workflow record — no rail switching, no fragmented reconciliation.

STANDARD CONTROLS Counterparty KYB · sanctioned-party block · corridor restrictions · value limits

CUSTOM RULES Endorsement to the financier · document-invoice match · advance rate · settlement only after documentary conditions clear



The issuance contract is generated from the approved model — and every mint is authorized.

Illustrative. BloxBlueprint models issuance, transfer and redemption; the BPSC Compiler generates the Solidity for Arc with the bank's process logic embedded. A tokenized deposit remains the issuing bank's liability; Arc supplies the EVM execution environment.

BUSINESS EVIDENCE

Institutional holder

Core-ledger liability

Issuance cap

Jurisdiction · terms

assembled by `zconnects` · `HttpGet` · `EthereumRead (contract state)` · `VleiToppanVerify`



DESIGNATED FRONTIERBLOX CHECKPOINT

Standard controls + custom rules

- Holder eligible (vLEI)
- Capacity available on the contract
- Ledger liability reconciled
- Product permitted in jurisdiction

DENY · Arc not called

 REQUIRE_APPROVAL · pauses
 Above issuance limit → segregated approver

 ALLOW · proceeds to Arc
 Approved → mint

ARC OPERATION · SIGNED WITH THE INSTITUTION'S OWN KEYS

Mint on the deposit contract on Arc

`EthereumWrite` · contract generated by the BPSC Compiler from the BloxBlueprint model

Compiled process logic enforced on-chain; the action was authorized before submission. · Arc's signature, fee and consensus boundary still applies.

RETURN Transaction hash → core-ledger reconciliation · register · decision record · next workflow task

CUSTOMER VALUE Keep ledger authority and the on-chain representation within one process and one evidence chain.

STANDARD CONTROLS Issuance limits · holder KYB · restricted accounts · jurisdiction

CUSTOM RULES Reserve coverage before mint · mint windows · wallet classes · dual approval above threshold



Corridor evidence comes before the value-moving actions the institution designates as governed.

Illustrative. Fiat is minted to USDC, transferred, swapped or bridged where required, and paid out to the beneficiary's bank — each governed step gated, each returned state carried forward.

BUSINESS EVIDENCE

Beneficiary and KYB

Corridor and purpose

Funding and limits

Required documents

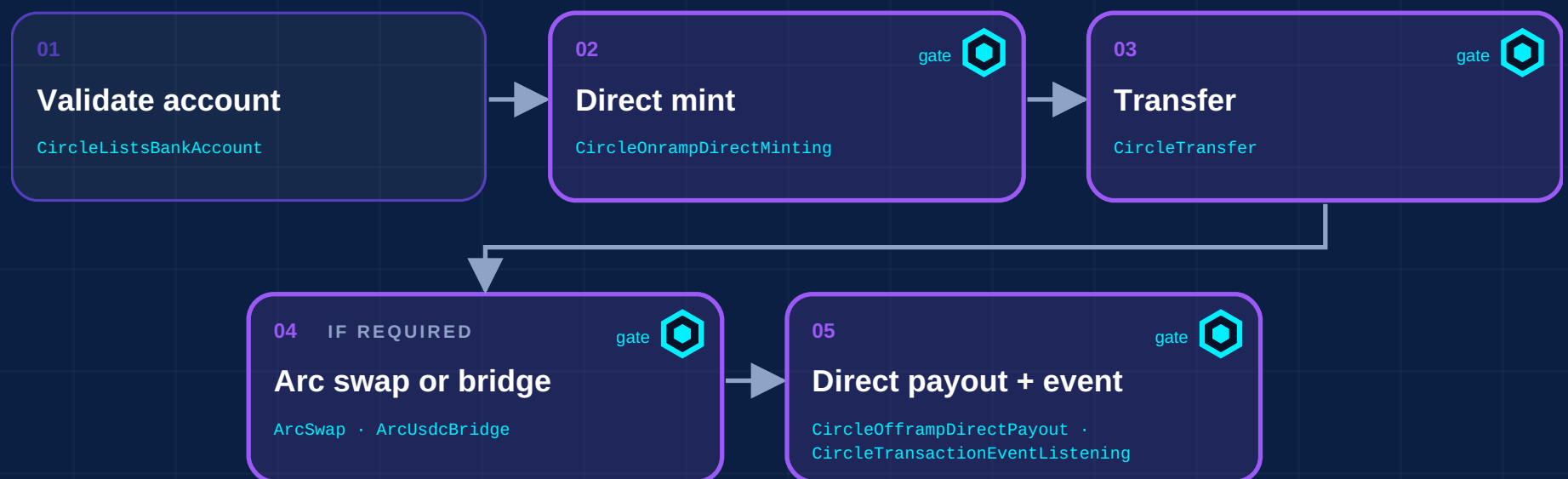
assembled by `zconnects` · `CircleListsBankAccount` · `CleanverseQueryAPass` · `VcContentExtractor`



WORKFLOW-SCOPED GOVERNANCE

FrontierBlox gates sit only before the actions the institution marks as governed.

COMPOSE ONLY THE REQUIRED ROUTE



EVIDENCE FLOW

Each operation's returned state becomes evidence for the next task and for reconciliation.



A DENY at any gate: the target task is not invoked — nothing moves. The decision and its reasons are written to the record.

CUSTOMER VALUE Reuse one process across corridors while changing the applicable rules and evidence requirements.

STANDARD CONTROLS Corridor amount limits · forbidden accounts · geography · KYC pass validity

CUSTOM RULES Purpose and currency per corridor · payout eligibility by beneficiary type · Travel Rule threshold per jurisdiction



Asset, investor and cash conditions converge before the designated execution legs.

Illustrative. The asset leg runs on a BPSC-compiled contract on Arc; the cash leg settles in USDC through Circle or Arc. Neither leg is submitted before the checkpoint clears.

DESIGN + CONTRACT

BloxBlueprint models issuance, transfer and redemption; the BPSC Compiler generates the associated Arc Solidity logic.

INPUTS

Asset eligibility and transfer rules

Investor status and concentration

Funding and settlement conditions

assembled by `zconnects` · `EthereumRead (asset contract)` · `VleiToppanVerify` · `CircleListsBankAccount`



DESIGNATED FRONTIERBLOX CHECKPOINT

May this investor receive this asset under these conditions?

ASSET LEG · ARC

Contract issue, transfer or redemption

EthereumWrite on the BPSC-compiled asset contract
signed with the institution's own keys

CASH LEG · CIRCLE OR ARC

USDC settlement

CircleTransfer · from the institution's own Circle account
arrival observed via CircleTransactionEventListening

FAILURE PATH

If either leg fails, the workflow follows its configured hold, retry, reversal or compensation process.

RETURN

Evidence from both legs → register · position record · decision record

CUSTOMER VALUE Apply product and investor restrictions before the relevant asset action — and retain evidence from both legs.

STANDARD CONTROLS Investor KYB · restricted jurisdictions · product eligibility · amount limits

CUSTOM RULES Investor class and concentration · transfer restrictions per product · settlement conditions · asset-and-cash-leg coordination



Mandate and approval authority shape transfers, allowances, swaps and network movements.

Illustrative. A treasury desk composes Circle and Arc operations behind one designated gate; bridging via CCTP is a value-moving operation and carries the same mandate, allowlist and cut-off rules as a payment.

TREASURY EVIDENCE

Entity mandate

Budget + liquidity floor

Counterparty + destination

Authority + cut-off

assembled by `zconnects` · `EthereumRead` · `SqlFetch` · `Timer` · `CircleListsBankAccount`



DESIGNATED FRONTIERBLOX GATE · GOVERNED COMPOSITION

Is this action within the entity's mandate and approval authority?

Standard controls: limits · allowlist · geography · Custom rules: mandate · budget · cut-off · dual approval

Circle transfer

`CircleTransfer`

Arc allowance

`ArcGrantAllowance`

Arc swap

`ArcSwap`

USDC network move

`ArcUsdcBridge` (CCTP)

RETURNED EVIDENCE

Event confirmation and API status update the position, the ledger and the next workflow task.

FrontierBlox evaluates only the treasury actions the institution designates as governed; each rail's own controls still apply.

RETURN

Transaction hash · arrival event · reconciliation against the treasury ledger · decision record

CUSTOMER VALUE Apply one mandate and approval model across transfers, allowances, swaps and network movements.

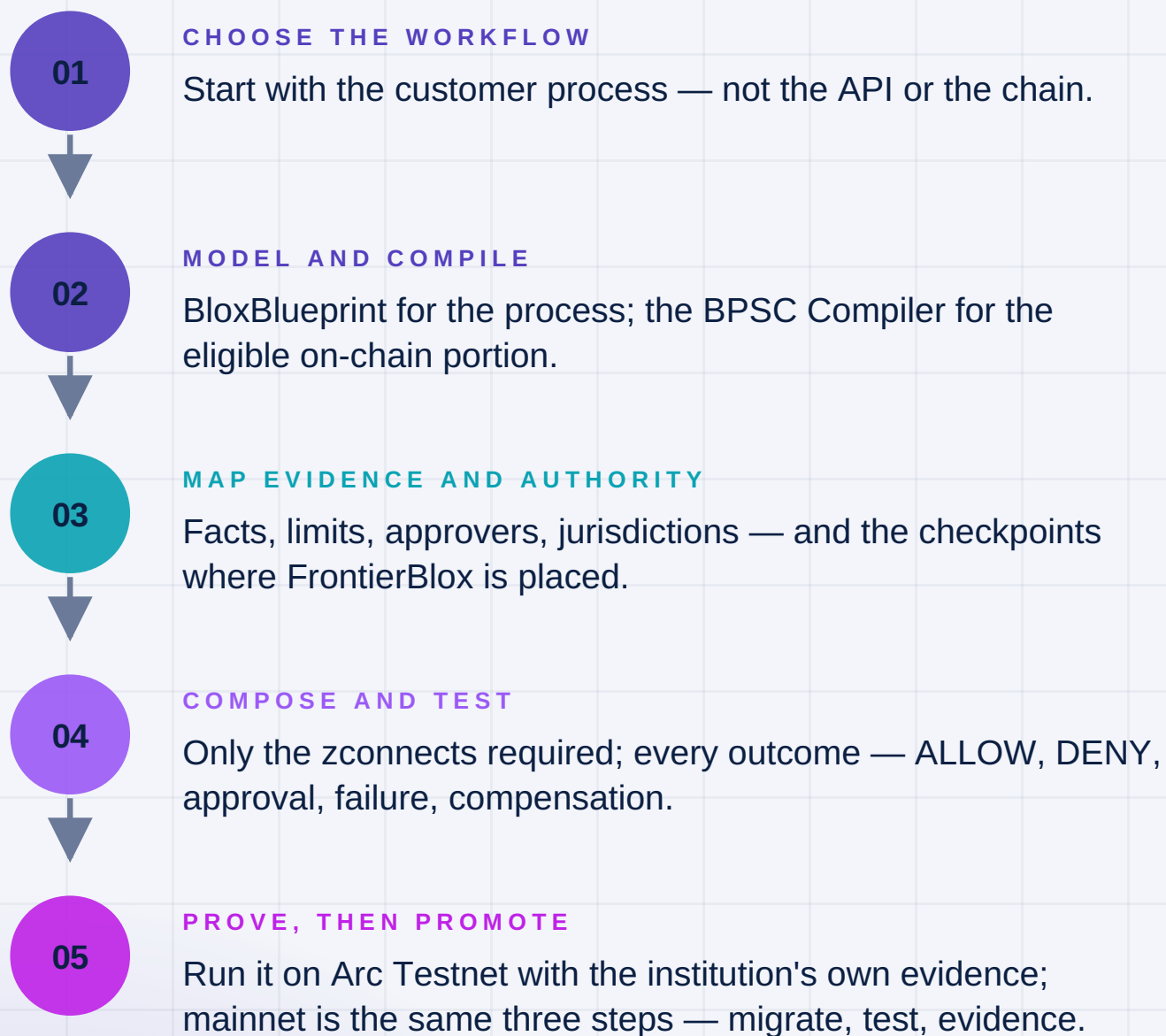
STANDARD CONTROLS Single-move limits · destination allowlist · geography · KYB

CUSTOM RULES Entity mandate · budget per program · liquidity floor · cut-off by settlement window · dual approval by role

METHOD

Build the governed path before the payment path.

Five steps turn component coverage into an institution-ready execution design.



WHAT THE INSTITUTION GETS

One path from approved process to execution evidence.

01

Reviewable design

BloxBlueprint lets business and compliance teams define the workflow — roles, evidence, approvals, exceptions — before code.

02

Traceable Web3 build

The BPSC Compiler links the approved model to the generated Solidity for the eligible on-chain portion — reviewable by compliance and by the regulator.

03

Institution-controlled governance

Dedicated FrontierBlox zconnects operate at the checkpoints the institution selects. A DENY never reaches Circle or Arc; an ALLOW never overrides them.

04

Reusable integration + evidence

Universal Adapters composes the tasks and carries every returned result into what happens next — under one correlation ID.

05

Your account, your keys

Circle operations run from the institution's own Circle account; contracts are signed with its own keys. ZenithBlox is not an intermediary to the funds.

06

Reuse without redesign

One governed pattern across corridors, products and treasury actions — rules change per jurisdiction; the workflow does not.

Describe one regulated workflow you want on Arc.

We will map its BPMN process, governance checkpoints, zconnect composition, execution path and evidence chain.

Fodé Touré, PhD · Founder & CEO

fode@zenithblox.network · zenithblox.network

ZENITHBLOX® is a registered trademark of ZenithBlox Inc. in Canada (TMA 1,420,531); pending in other jurisdictions. COBI, BloxBlueprint, BPSC Compiler, FrontierBlox and Universal Adapters are ZenithBlox products. USDC, Circle Mint, CCTP and Arc are trademarks of Circle Internet Group; TradeTrust is a framework of IMDA Singapore. ZenithBlox is a Circle Alliance Program member and is recognized by IMDA among 37 TradeTrust-Ready Partners. Integrations are ZenithBlox-built using Circle APIs and Arc interfaces; no endorsement, certification or production approval is implied. Arc mainnet facts per Circle's announcement of 16 September 2026; ZenithBlox validation and the TradeTrust deployment are Arc Testnet-scoped. Use cases are illustrative and do not reference clients.