

Street Rail.

Streetwear checkout and dance-move royalties, settled in stablecoins on Circle's Arc — where a \$0.001 payment is worth making because gas is a rounding error and paid in the same asset.

H2H · H2A · A2A

USDC gas

EURC + cirBTC

Privy · Google login

Verified on Arcscan

THE PROBLEM

Choreographers built the internet's dance layer.

They got paid \$0.

Missing

No registry of who made which move.

\$0

paid to the choreographer behind the most-copied TikTok dance of 2025.

Missing

No settlement rail once it goes viral.

Street dance already knows how to give credit.

We give it a settlement layer.

CULTURE

"Credit or catch a fade."

Crews, battles, and callouts already enforce authorship offline. The rules exist — the receipts don't.

ONCHAIN

```
log(token, amount, cid)
```

One call. Immutable. Priced in USDC / EURC / cirBTC. Arcscan is the receipt.

A \$0.001 royalty only works where gas is a rounding error.

StreetRail pays choreographers \$0.001 per play and batches accruals off-chain until they clear \$0.50. That unit economics only survives where the fee is a fraction of the payment — and the same asset as the payment.

Ethereum L1	~\$1-5	Fee is 1,000–5,000× the payment. Impossible.
Typical L2	~\$0.005–0.05	Fee still exceeds the payment. Needs batching plus a separate gas asset.
Arc Testnet	Fractions of a cent, in USDC	Fee is a slice of the payment, in the same asset.

Gas figures are illustrative orders of magnitude from public fee trackers, not measured benchmarks. On Arc, USDC is the gas token — no second asset to bridge or top up.

Two products. One repo. Same wallet.

TRACK · AGENTIC ECONOMY

Rights Registry

Log any dance move onchain in one call. AI agent quotes, pays, and files the receipt autonomously.

TRACK · DEFI

Streetwear Shop

Sneakers, snapbacks, jackets. Checkout in USDC, EURC, or cirBTC via Circle App Kits.

Four interfaces, one rail.

H2H

HUMAN TO HUMAN

The shop you already know.

- Browse, cart, checkout
- Privy Google login
- USDC / EURC / cirBTC pay

H2A

HUMAN TO AGENT

You delegate, the agent buys.

- Spend policy caps
- Confirm above threshold
- Auditable run ledger

A2A

AGENT TO AGENT

Two agents negotiate, no human.

- A2A 0.3 message/send
- AP2 mandates + UCP checkout
- x402 settlement

A2H

AGENT TO HUMAN

The agent starts. You get paid.

- Royalties pushed, not claimed
- Asks when over mandate
- Receipt in the inbox

All four are live in the app behind one toggle — H2H / H2A / A2A / A2H — and settle to the same contract on Arc Testnet, in stablecoins.

Nobody builds agent-to-human, because there was no rail to push value over.

H2H

HUMAN → HUMAN

Shop, cart, checkout. The interface everyone has already built.

H2A

HUMAN → AGENT

Delegate a purchase under a spend mandate. The agent buys.

A2A

AGENT → AGENT

Buyer and seller agents negotiate and settle over x402.

A2H

AGENT → HUMAN

The agent initiates. Royalties are pushed, approvals requested.

In StreetRail the Rights Agent pays the choreographer in USDC the moment a move earns, pauses when the payout breaks the AP2 mandate, and drops an Arcscan receipt in a payout inbox. It also pushes limited-time merch offers that users can claim on-chain — agent-side receipt, no user gas, discount applied at checkout. Every mandate carries an on-chain authorization block; renewing it extends both the Ed25519 mandate and the contract approval.

Shipped. Deployed. Verified.

5042002

Arc Testnet chain id

0.8.24

solc, verified on Arcscan

6

decimals — USDC is gas

DANCEMOVETOKENS.SOL

0x4d13b45f823f8944522890c20d8695b6005465f0

Move + purchase log · USDC · EURC · cirBTC

STREETRAILAUTHORIZER.SOL

0x0519c703cde7cbff6829fdfdcfe8c9a4c7aac327

ERC-1271 authorization · owner is the treasury wallet

MOVEMARKET.SOL

0x5b00367612ef4533e89ed9547dd4c2f3080f783e

Non-custodial resale · ERC-2981 royalties · USDC · EURC · cirBTC

MOVE RIGHTS (ERC-721)

0x84546970f5265f31ae1523a1e3bf18938670702f

Circle SCP template · clip evidence on IPFS

Custom contracts verified on Arcscan. Live wallet balances, agent discovery and payout receipts read straight off Arc — nothing in the demo is mocked.

You set the policy. The agent spends inside it.

01

Intent

"Buy a size L snapback under 25 USDC."

02

Policy

Per-item cap, daily cap, confirm threshold.

03

Interrupt

Above the threshold the human approves first.

04

Pay

Agent signs USDC / EURC / cirBTC from treasury.

05

Ledger

Every step logged, Arcscan tx as the receipt.

Autonomous spending in USDC · decision logic in the agent, not the UI.

A standards stack, not a custom flow.

A2A 0.3

Agent card discovery + message/send — inbound for A2A, outbound for A2H

AP2

Intent, cart, and payment mandates the buyer signs

UCP

Discovery, checkout, order + conformance self-test

x402

402 challenge, payment payload, verified receipt

Arc Testnet

USDC settlement, real tx hash on Arcscan

Buyer and seller agents negotiate live in GX mode, then settle on-chain. In A2H the same stack runs outbound: the AP2 mandate is the standing authorization, x402 settles, Arc is the receipt — and the mandate digest is anchored on-chain, so a counterparty can verify it without ever calling StreetRail.

BUILT ON CIRCLE, END TO END

Six Circle products, one rail.

Circle Wallets

Developer-controlled treasury EOA on Arc Testnet — the Rights Agent's own wallet

Circle Contracts (SCP)

DanceMoveTokens deployed and verified on Arcscan, USDC-gas deploy, no EOA key

Nanopayments

Gateway batching (@circle-fin/x402-batching) signs EIP-3009 for the A2A x402 loop

App Kits

Unified Balance for spendable USDC, Swap Kit rates behind the USDC/EURC/cirBTC toggle

Gas Station

Sponsors agent gas on Arc. Paymaster is intentionally unused — USDC is already the gas token

Agent Stack

Buyer agent discovers payable services via Circle's x402 Marketplace Discovery API

ERC-1271 authorizer

Treasury-owned contract signs for the agent — Gateway actions need no EOA delegate

Every rail degrades safely: if Gateway batching or a kit is unavailable on testnet, the agent settles with a direct Arc transfer and says so in the receipt.

The treasury signs for the agent — **no EOA delegate.**

Approved digest

The treasury sends one transaction to approve a mandate digest.
isValidSignature(digest, 0x) then returns the magic value. No delegate, no exported key.

Delegate signer

Optional: a time-boxed EOA may sign digests on the treasury's behalf. Revocable on-chain, expires by default.

APPROVED DIGEST

0x1626ba7e

UNKNOWN DIGEST

0xffffffff

StreetRailAuthorizer · 0x0519c703cde7cbff6829fdcfce8c9a4c7aac327 · verified on Arcscan. Anyone can check a mandate at </api/public/erc1271/authorizer>.

Agent-to-human offers, **logged on Arc.**

01 Offer

Drop Agent pushes a limited-time merch discount to the inbox.

02 Claim

User taps Claim — no wallet prompt, no user gas.

03 Log

Treasury logs srclaim:<id> to DanceMoveTokens via Circle SCP.

04 Receipt

Claim code + Arcscan tx + signed AP2 OfferClaim mandate.

05 Checkout

Discount is applied when the user pays in USDC / EURC / cirBTC.

REGISTRY

0x4d13b45f823f8944522890c20d8695b6005465f0

AUTHORIZER

0x0519c703cde7cbff6829fdfdcfe8c9a4c7aac327

Claims do not count against the payout cap and are audited on Arcscan.

Move rights that **resell themselves.**

01 List

Owner approves the market and sets a price in USDC, EURC or cirBTC.

02 Hold

Non-custodial — the token never leaves the dancer's wallet.

03 Browse

Search, discipline and licence filters, token filter, sort by newest or price.

04 Buy

One call moves payment to the seller and the NFT to the buyer.

05 Gas

Paid in USDC, so no second asset is ever needed.

MOVEMARKET.SOL · VERIFIED ON ARCSCAN

0x5b00367612ef4533e89ed9547dd4c2f3080f783e

Live at /market — list, cancel, buy and transfer, all settled on Arc. Every buy carves out the creator's 5% ERC-2981 royalty and pays it in the same stablecoin, in the same transaction. Filters live in the URL, so a filtered view is shareable.

Programmable money for the culture.

MULTI-STABLECOIN CHECKOUT

Shopify catalog priced in USD, settled in USDC, EURC, or cirBTC. App Kits Unified Balance picks the token with headroom.

NANOPAYMENT ROYALTIES

arc-nanopayments streams sub-cent USDC per play back to the choreographer's wallet. Continuous, not periodic.

Every judging bullet has a feature behind it.

Meaningful use of Arc / USDC

Contract deployed + verified, USDC as gas token

Programmable money flows

Autonomous agent settlement + Gateway-batched nanopayments

Interoperable commerce

H2H, H2A, A2A and A2H on A2A 0.3 + AP2 + UCP + x402

Uses App Kits

Unified Balance for spendable USDC, Swap Kit rates behind the token toggle

Agent with decision logic

Live FX + AP2 spend policy pick the token, cap, and payout

Autonomous spending in USDC

Treasury wallet signs via Circle SCP — no manual approval

Uses Agent Stack

Buyer agent resolves services through Circle's x402 Marketplace Discovery

Verifiable authorization

ERC-1271 contract returns 0x1626ba7e for an approved mandate digest

Working today. Shipping through **Demo Day.**

SHIPPED

- ✓ Contract verified on Arcscan
- ✓ Privy Google login + embedded wallet
- ✓ 7 SKUs live in Shopify (dev store)
- ✓ USDC / EURC / cirBTC token switcher
- ✓ ERC-1271 authorizer verified on Arcscan
- ✓ Circle x402 Discovery wired into negotiation
- ✓ Mobile-tuned end to end
- ✓ On-chain claim offers (A2H)
- ✓ Treasury balance panel + low-gas warning
- ✓ Move Rights NFTs + IPFS clip evidence
- ✓ MoveMarket.sol resale, verified on Arcscan

NEXT · AUG 9 · AUG 20

- Encode Club Demo Day — 9 Aug 2026
- Rights Agent GA — Gemini + Agent Stack
- Nanopayment royalty streams (per-play)
- Crew treasuries + on-chain cosigns

MARKET OPPORTUNITY

Street dance travels through the currencies that don't hold.

~450M

People aged 15–30 across the 15 shortlisted markets

15–20M

Estimated stablecoin users in the core four hubs today

~US\$80B

Annual remittance inflows into the shortlisted markets

Nigeria 33.7%

Philippines 3.8%

Argentina 211%

South Africa 5.3%

Turkey 69.8%

In these markets a card checkout costs 10–15% in FX and demands a card most young buyers don't hold. USDC on Arc settles in seconds, for sub-cent gas, with the creator's royalty split at the moment of sale.

BUILT FOR ENCODE CLUB · PROGRAMMABLE MONEY HACKATHON

Give the culture its receipts.

streetrail.lovable.app · [DanceMoveTokens.sol](#) on Arc Testnet

github.com/arunnadarasa/streetdancearc