



Team Member:

- Mamadou Moussa Fofana
- Salian Diakite

mêmê is a Smart City platform focused on road traffic management. Thanks to its many features, you will be able to establish a truly intelligent traffic management strategy



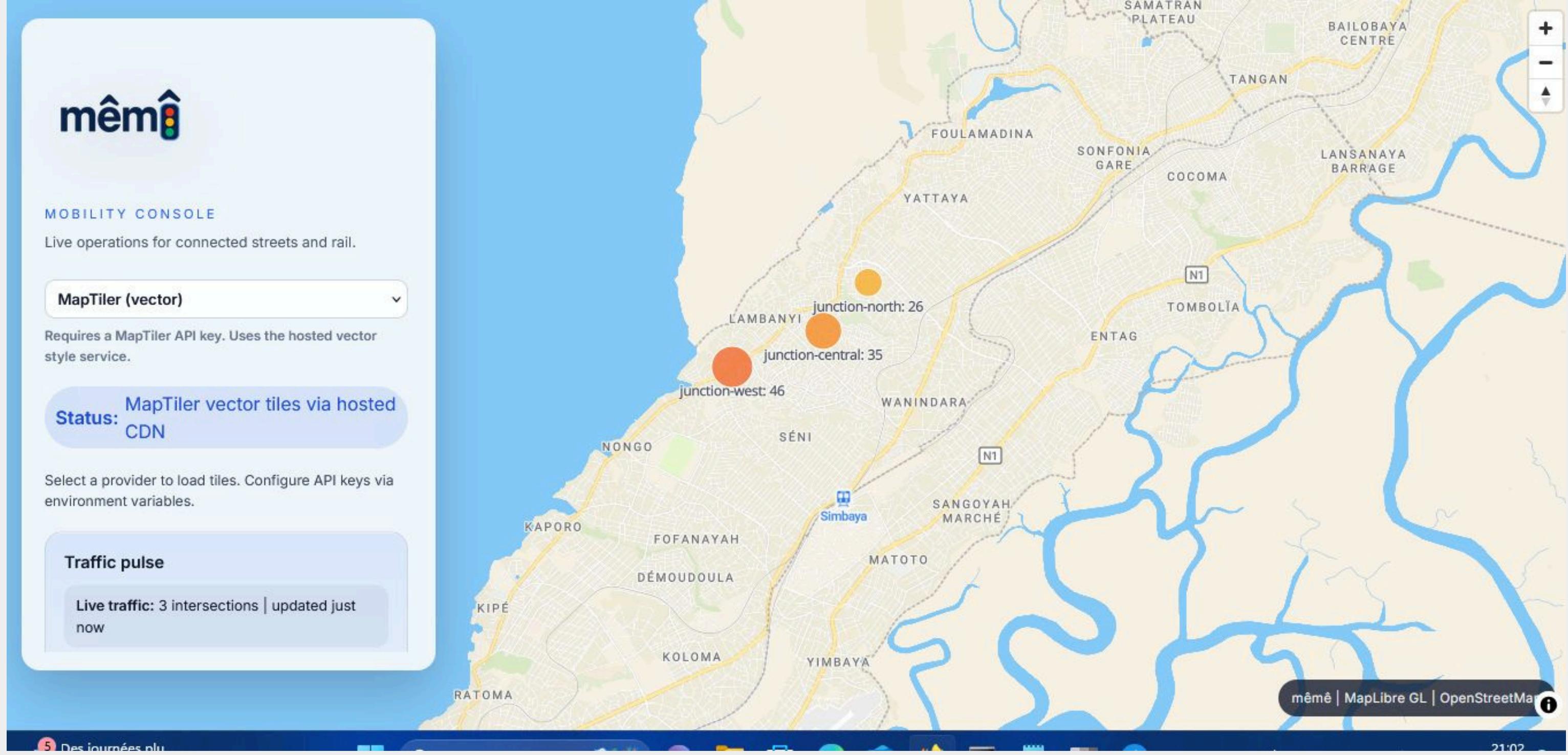


Urban congestion



Cities' needs: coordinate multiple heterogeneous systems (traffic/rail), measure impact, and audit decisions.

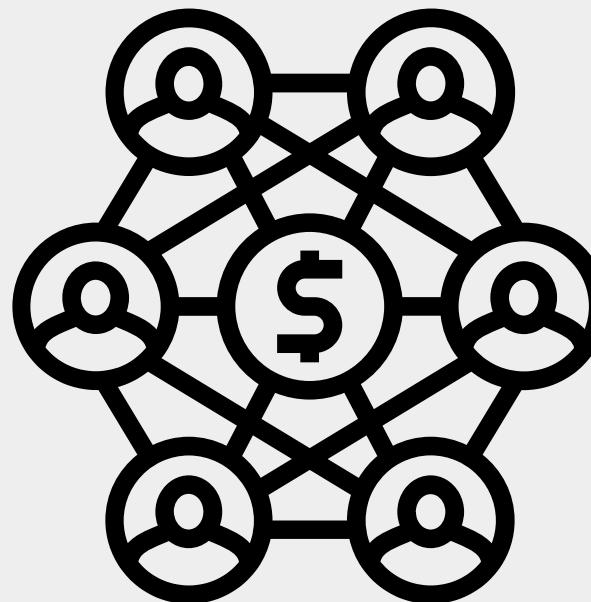
Level crossings: dangerous conflicts (barrier ↓ late vs. green light), lack of traceable evidence during incidents.



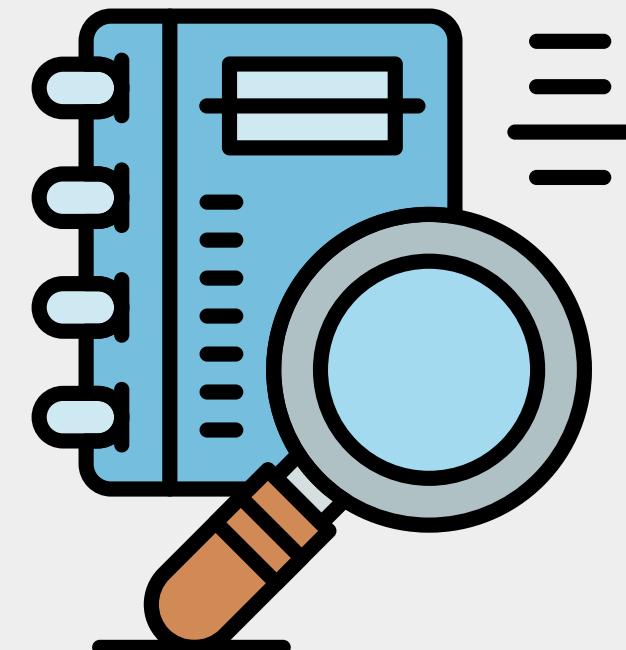
The Solution

mêmê Agents coordinates **traffic lights** and **railway barriers** via agents (RL + heuristics), an orchestration **backend**, and a real-time **MapLibre UI**.
 Each **decision** (traffic light/barrier plan, fallback, anomalies) is **notarized on Hedera HCS**, then visible and audited in the dashboard.

Why Decentralization (DLT) Changes Everything?



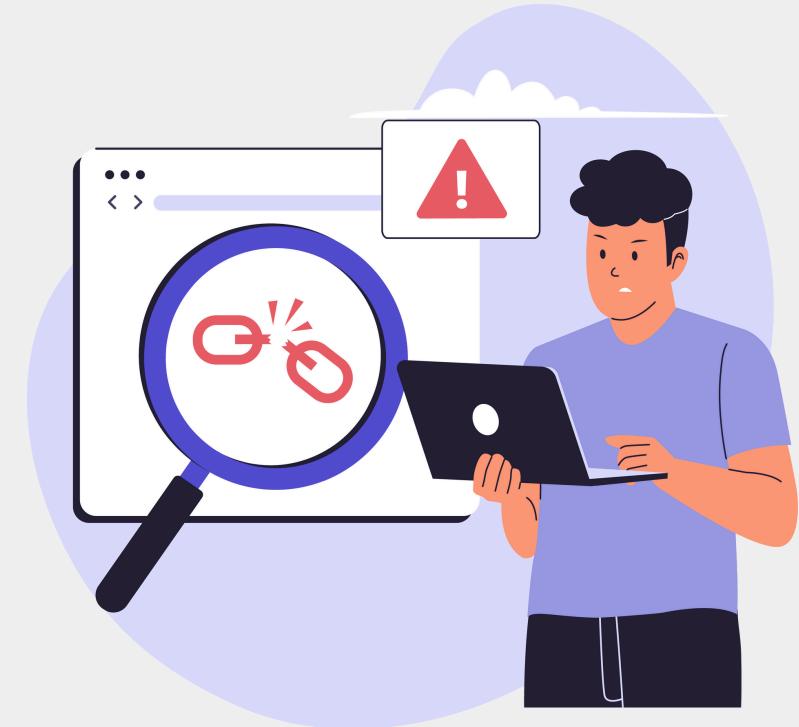
Trustless



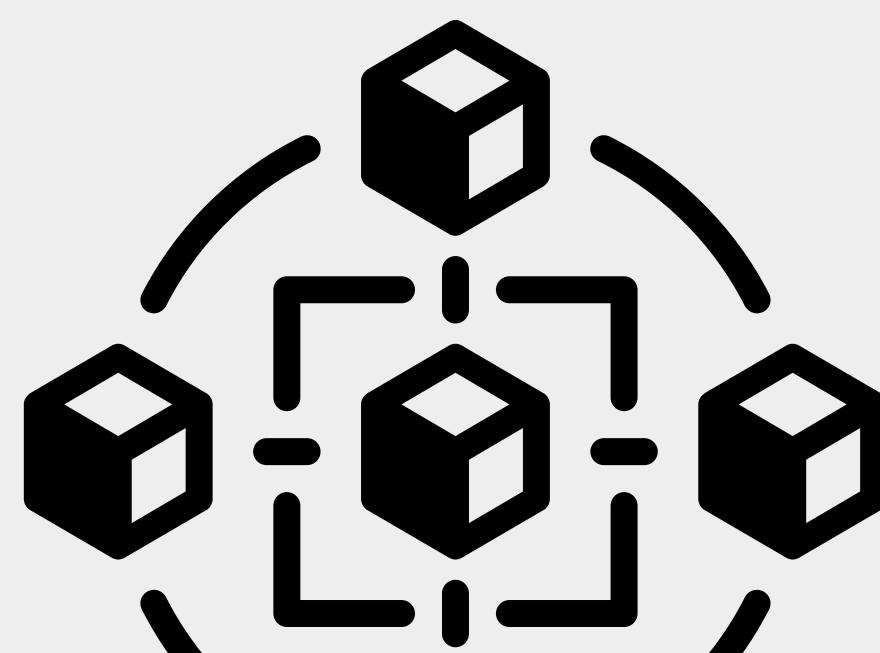
Anti-tampering & traceability:



Multi-stakeholder interop



Continuous compliance & auditing



Why Hedera?

- Strong purpose and verifiable ordering — essential for security auditing.
- Low and predictable USD costs – controlled budgets for cities.
- Enterprise-grade governance, no-fork guarantee — contractual stability.
- Efficient attestation chain via Mirror Nodes — reduced observability costs.
- ESG alignment: low carbon footprint and carbon-negative commitment
- MEV resilience & EVM compatibility — signal integrity and easy integration

Market & Opportunity (TAM/SAM/SOM)

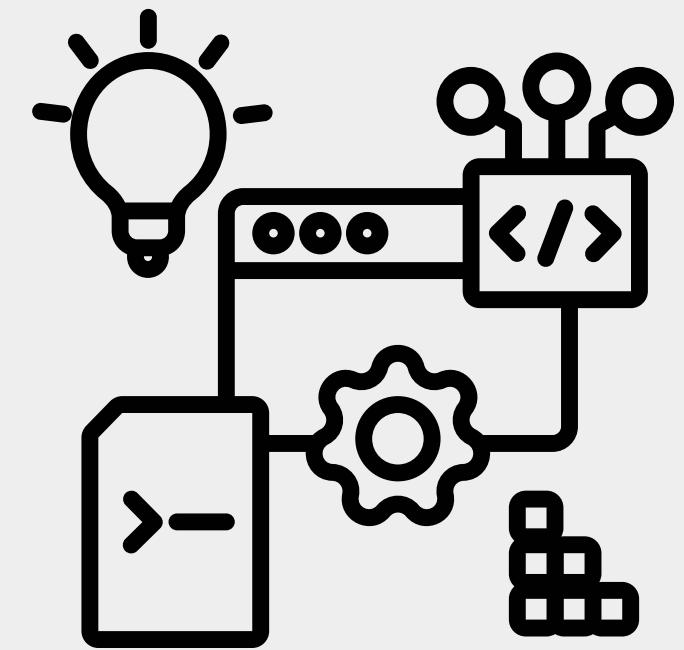
Target segment :



**Local authorities & traffic
agencies**



**Railway & industrial
operators**



**IT integrators &
engineering firms**

Focus Guinea (local market)



Population (2025th)

$\approx 15,1$ M



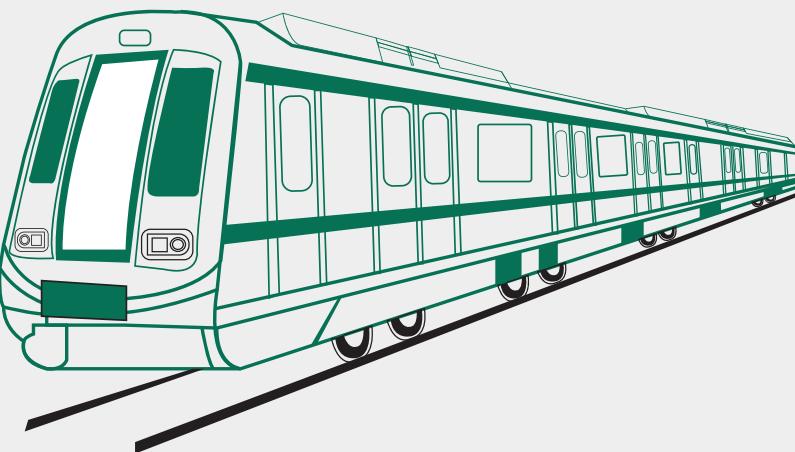
Urbanization

$\approx 38\text{--}39\%$



Greater Conakry

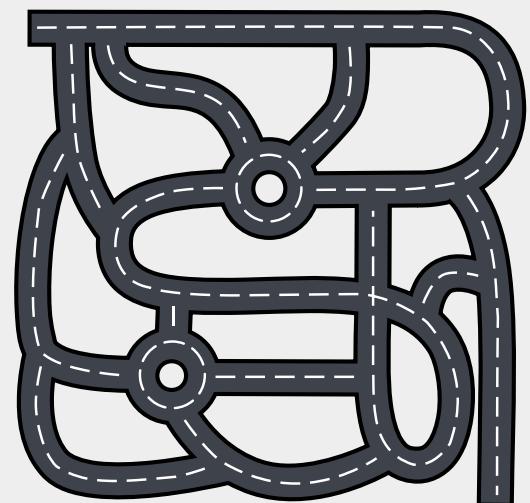
$\approx 2,18$ M hab.



Railway network

$> 1\,000$ km

(freight/industrial)



Road network

$\approx 44\,300$ km

Pricing assumptions (SaaS + ledger)



Hedera logging (HCS)

Assumption

1 500–3 000 \$ / year

Software + analytics + updates



License per asset (Intersection/Level crossing)
Assumption

\$100–300 / asset / year

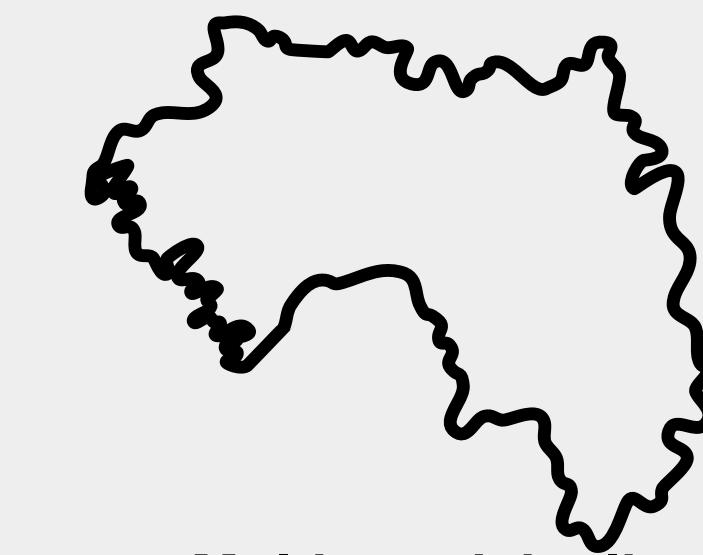
Network fees for USD stablecoins

Go-to-market (Guinea → région)



Conakry Pilot

20–40 intersections + 5–10 level crossings



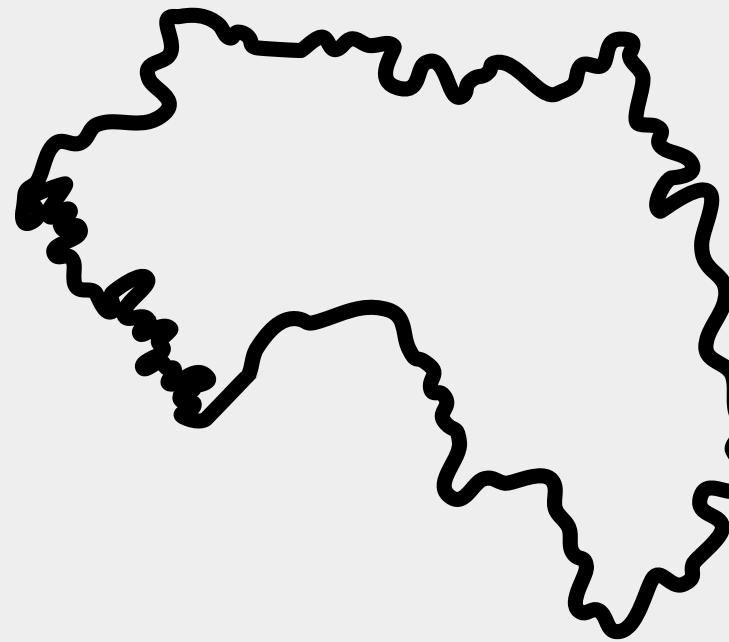
Multi-municipality extension
+ integration of mining/port operators



ECOWAS regionalization
ITS / PPP integrators



TAM (ITS global)
\$31–43 billion (2025)



Rapid urbanization, critical national parks, infrastructure modernization

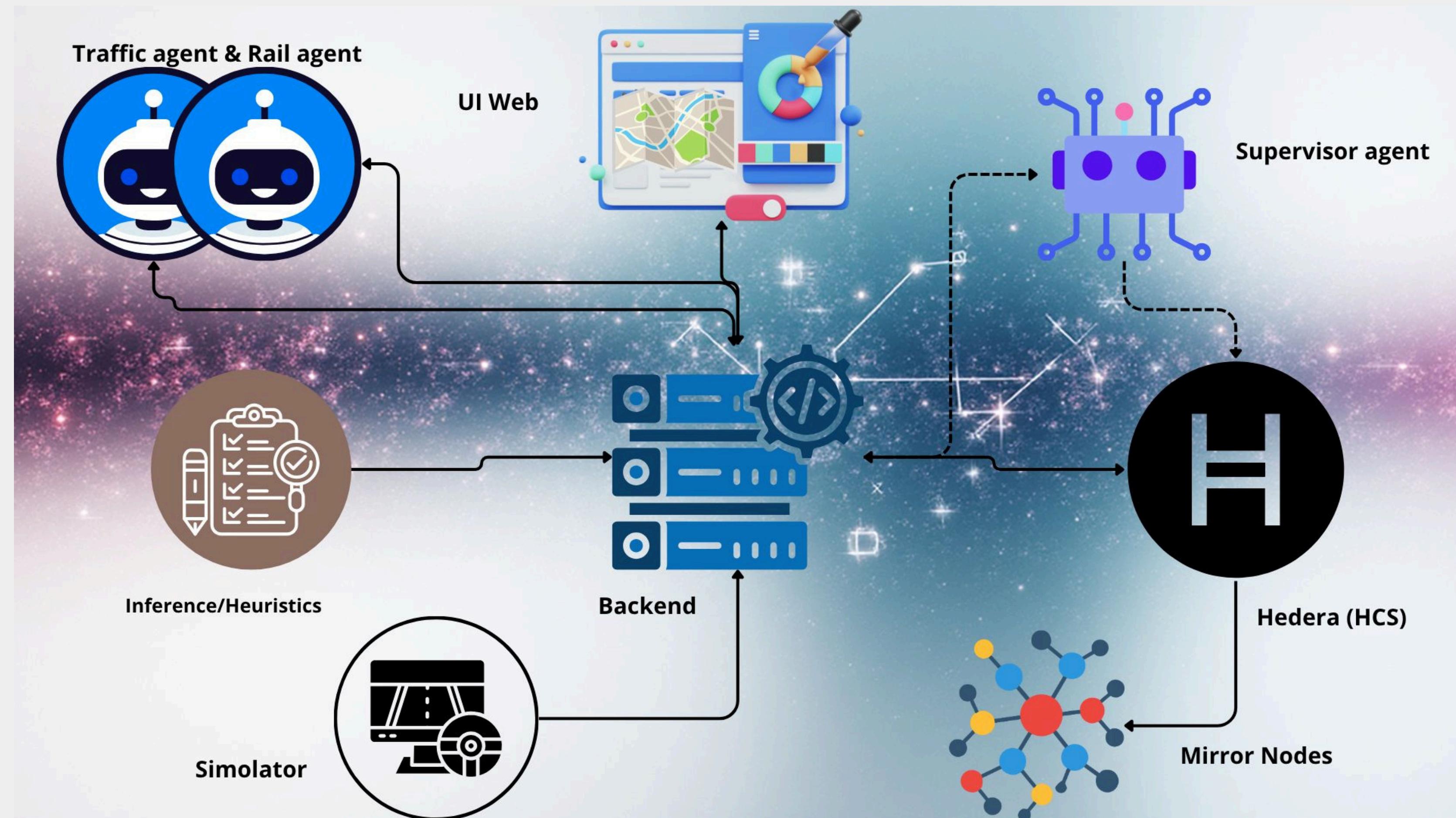
SAM (Guinea):

- 50–145 active users → \$80–480k ARR/year (excluding integration)

SOM (12-18 months):

- 30–60 assets → \$50–180k ARR/year + services

Product / Architecture



Business & Revenue Model

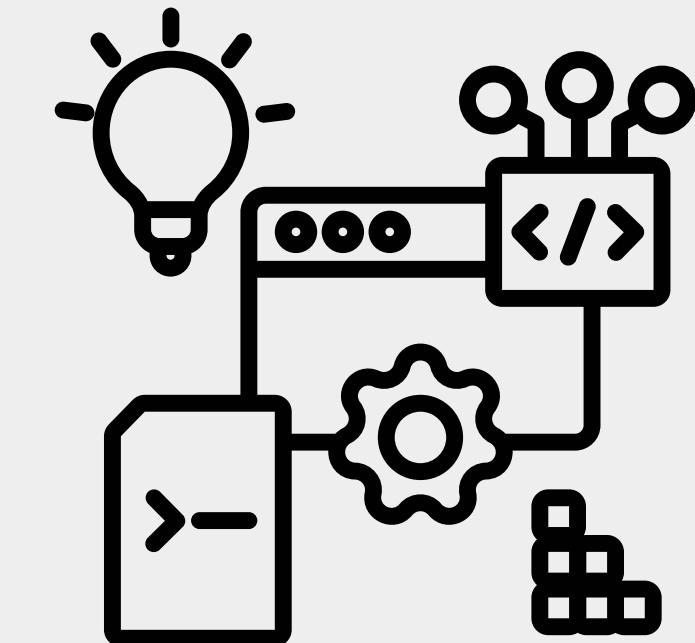
1) Who finances?



Local authorities (City/Ministry)



Railway/mining operators



ITS integrators / engineering firms



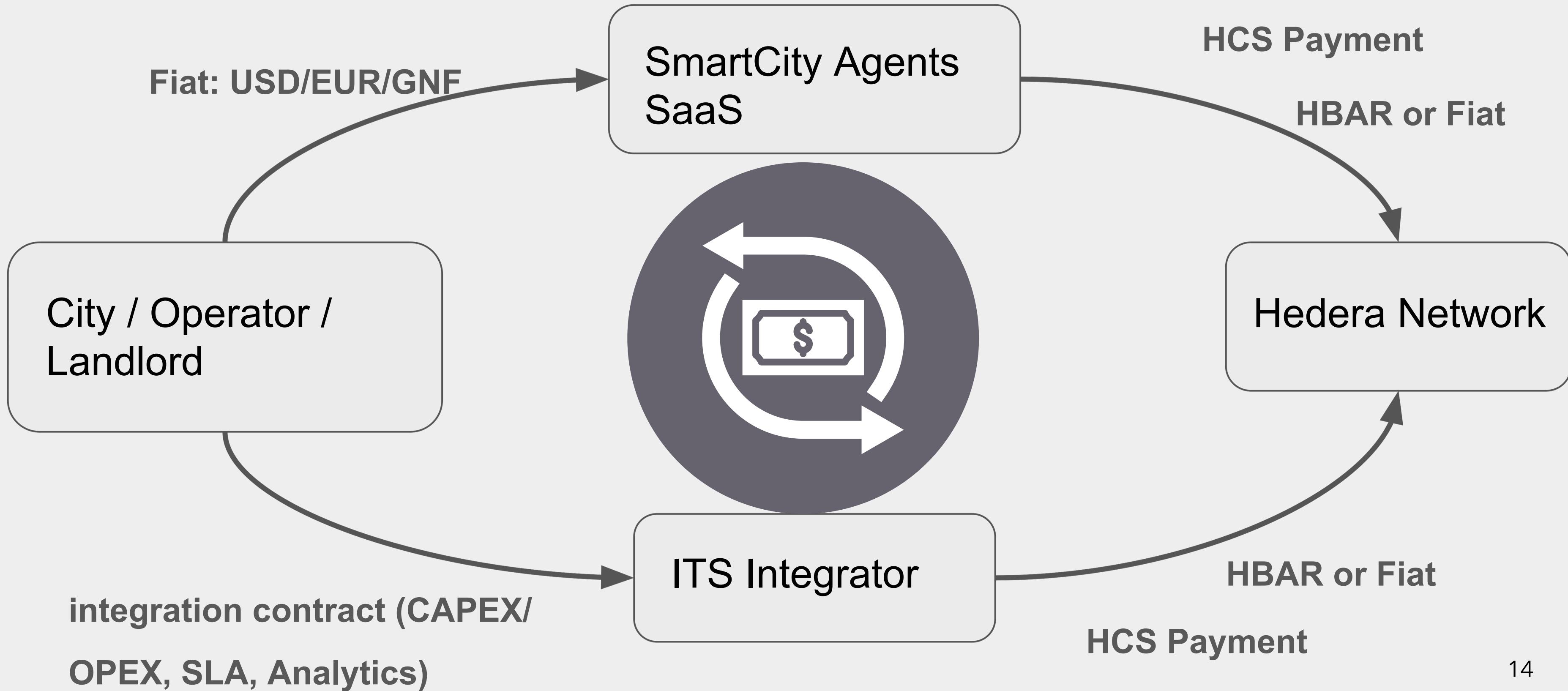
Donors/funding agencies (BAD,
World Bank, etc.)

2) Produits & tarification (fiat par défaut, jeton en option)

SKU	Why	Indicative price	Periodicity	Cash
SaaS license "Active" (intersection or LC)	RL orchestration heuristics, dashboard, updates	+ 1,500–3,000 USD / asset / year	Annual (payable monthly)	Fiat (USD/EUR/gnf)
Hedera Logging (HCS)	Notarization of critical decisions	100–300 USD / assets / year (re-invoiced)	Annual	Fiat (default) / HBAR (option)
Initial integration	PLC/SCADA wiring, sensors, recipes	5–20 k USD / site	One-off	Fiat
SLA & Support+	24/7, recovery time, on-call support	5–15 % the l'ARR	Annual	Fiat
Analytics & Audit Reports	Mirror Node exports, CO ₂ /waiting time KPIs	3–10 k USD / year (pack)	Annual	Fiat
Training and certification for integrators	Operator & partner training	2–5 k USD / session	One-off	Fiat

3) cash-flow

Scenario: The client pays SmartCity Agents for the SaaS license + SLA + analytics; the integrator invoices separately for the hardware installation. HCS fees are included and reinvoiced at actual cost/flat rate.



Tokenomics & Community

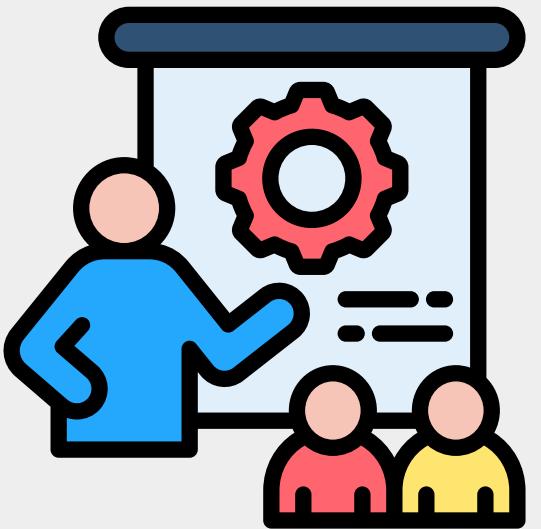
- No token used

Community growth strategy



Showcase pilots

Demo with 20–40 intersections + 5–10 level crossings, monthly reports (waiting times, conflicts avoided, HCS logs)



"Certified Integrators" Program

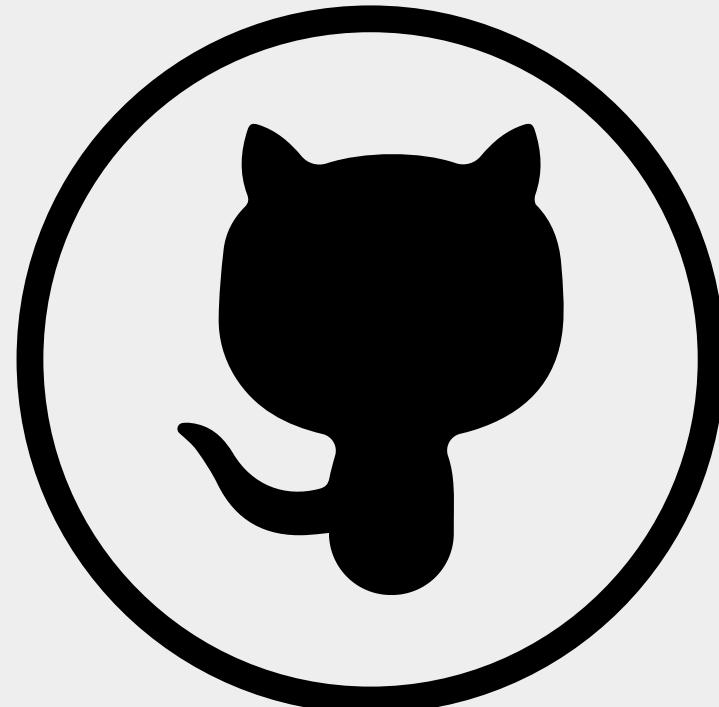
Training courses + PLC/SCADA kits + revenue sharing (15–25%)



Users' Committee

Quarterly meetings, shared roadmap, surveys

Traction & Milestones



GitHub repository: <https://github.com/fofanagithub/m-m->

We used Hedera Consensus Service to log the AI's reasoning/context for each decision to an HCS topic alongside the transfer



Note: logging AI's reasoning/context alongside the transfer was suggested by
@youssef, one of the mentor

Team & Expertise



Mamadou Moussa Fofana
Machine Learning, Artificial Intelligence, Web Development, and currently learning Web3.



Salian Diakite
Expertise in React Native

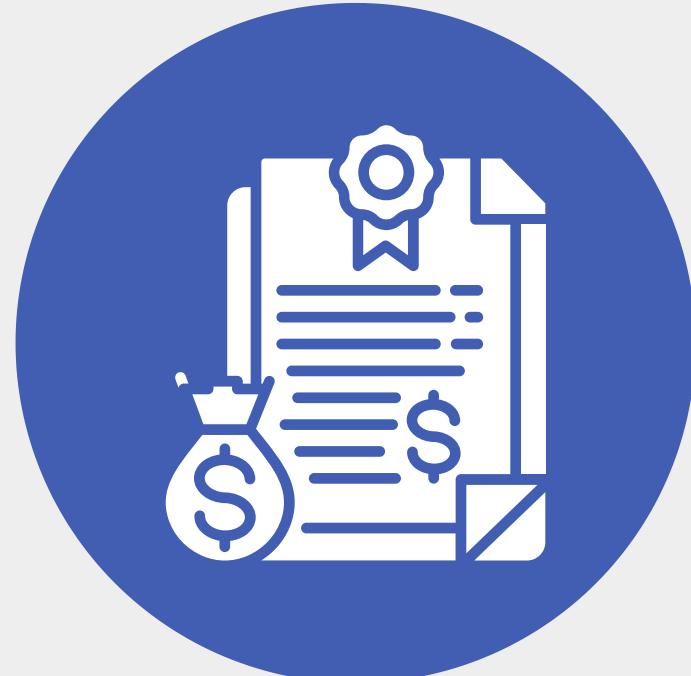
We are planning to recruit other profiles.

Roadmap & The Ask

- **Month 3:** Field test (beta) at 1 intersection + 1 PN (PLC mockup if needed).
- **Month 2:** RL on an intersection in SUMO simulation, clean UI, audit export.
- **Month 1:** Stabilized stack (Docker), HCS mainnet, heuristics + simulator demo.



Specific Requests



Grant: \$60k
(base) for 6 months.



Mentoring:

- 1 PLC/SCADA expert
- 1 Hedera HCS/Mirror expert.



Pilot access:

- 1–2 intersections
- 1 PN (city/operator), data and site facilitation.