



REVENUE STREAM 02

National Fuel Marking & Fiscal Recovery

Forensic molecular markers that turn every legal litre into a chemical tax stamp, and restore billions in lost public revenue.

78%

adulteration cut (Ghana)

up to 15x

program ROI

~MX\$156B

recoverable per year

THE OPPORTUNITY

Huachicol fiscal is the larger, quieter wound: U.S. fuel smuggled in and falsely declared at customs as untaxed “lubricants” or “additives” to dodge the IEPS excise tax. Mexico's tax authority (SAT) estimates the loss at **MX\$200 billion a year**, revenue that should fund public services, captured instead by the illicit fuel market.

THE SOLUTION

- Inject proprietary, tamper-proof **molecular markers** into all legitimate fuel at domestic refineries and legal ports of entry.
- Deploy **handheld field analysers** (e.g. Authentix LSX/MSX) and mobile labs to stations and checkpoints.
- Quantify the marker concentration in **under 5 minutes**, unmarked fuel is smuggled, diluted fuel is adulterated, and the reading is court-admissible.
- A “national marker” functions as a chemical tax stamp: present = taxes paid; absent = illicit.

PROOF IN THE FIELD

Ghana

Found 32% of stations diluting fuel; national marking cut adulteration 78%, recovers ~\$9M/yr in excise, ROI of 5-15x.

Philippines

A marking fee of just ₱0.06884/litre generated ₱761 billion in tax revenue in four years by closing the import-vs-consumption gap.

Authentix

25-year global market leader, 3+ trillion litres marked.

SICPA

World leader by volume, 60+ billion litres marked per year.

MEXICO APPLICATION

This is not an alien concept here. In 2016 PEMEX already piloted molecular tracers across 360 stations, and the Mexican Petroleum Institute (IMP) designed the tracer in PEMEX's **Aditec** formula, used today to verify fuel at franchised stations. The move is to scale an internal branding tool into a mandatory, nationwide customs-and-tax enforcement standard.

REVENUE MODEL

- Build-Operate / turnkey: we supply markers, field analysers and the cloud tracking layer.
- Recurring per-litre marking fee (the ₱0.069/litre Philippine model), passed to refiners and importers.
- Near-zero upfront capex for the Mexican state, the program is self-funding from day one.

PROJECTED ROI

Apply Ghana's 78% reduction to Mexico's MX\$200B fiscal-huachicol loss and the state recovers **roughly MX\$156 billion a year**. At marking-program ROIs of up to 15x, the initiative pays for itself within months while systematically shrinking the illicit fuel market.