

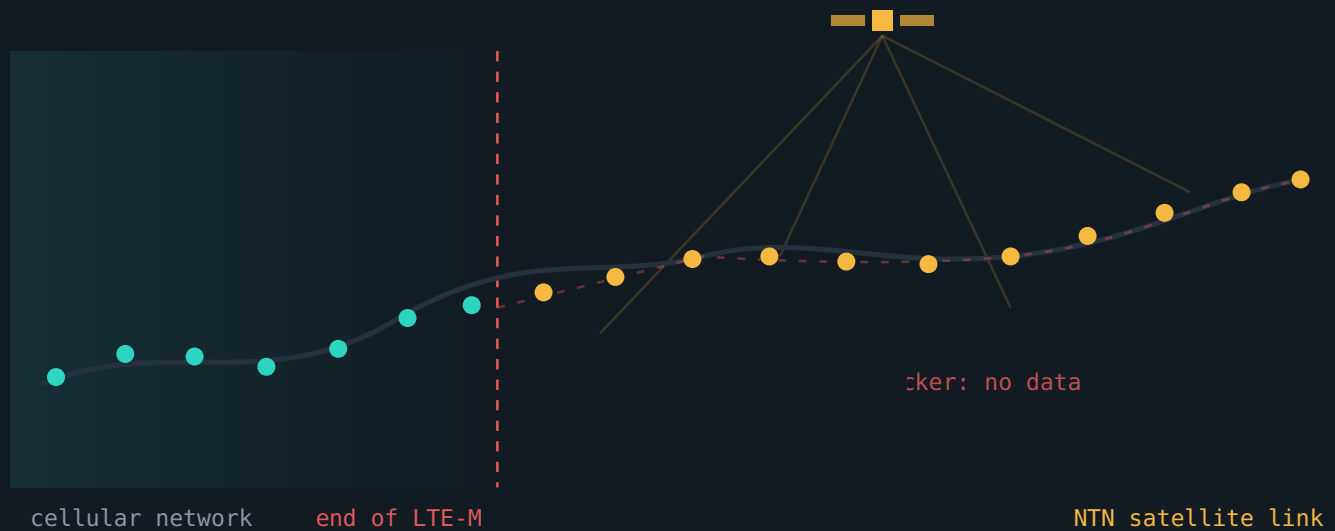
Cellular coverage ends. Your equipment doesn't.

GlobalTraces tracks your loaders, graders, drills and generators where conventional tracking systems go blind. One tracker: LTE-M network when it's there, satellite when it isn't. And it acts: block heater, start, immobilization, remotely.



We design the device for your application — not a generic box you have to adapt to.

Road test · 720 km · August 10, 2026 · Sherbrooke → Rouyn-Noranda



97.9%

of positions delivered over 720 km

61° N

first satellite position, Quaqtaq

1 unit

cellular and satellite

Tracking works very well... until the last cell tower.

In Québec, heavy equipment rarely works where your phone has signal. A conventional tracker sends its position over the cellular network: no network, no data. It isn't a GPS problem — GPS works everywhere. It's a **backhaul** problem: the position exists inside the box, but has no way to get back to you.

80 km

past the last tower

Loader on a mine site

12,000 hours. Maintenance based on engine hours. Without a reading, you service too early or too late.

× Cellular tracker

km 140

forest road

Forestry grader

A subcontractor bills 9 hours. Actual time was 6 h 20. Nobody can prove it.

× Cellular tracker

61° N

Quaqtaq

Crane and excavator

Site reachable by plane or boat. Without tracking, a chartered flight to read an hour meter.

× Cellular tracker

– THREE WAYS TO GET A POSITION BACK

	CELLULAR TRACKER	TRADITIONAL SATELLITE	GLOBALTRACES HYBRID
Outside cellular coverage	No	Yes	Yes
In town and on the road	Yes	Yes, satellite rates	Yes, cellular rates
Hardware	One unit	Unit + satellite modem + antenna	One unit, one antenna
Monthly cost	Low	High, per message	Close to cellular
Positions off-network	None	A few per day	Every 5–15 min while moving
Engine data	In coverage	Rarely	Yes, compressed
Satellite not visible	—	Lost or waiting	Stored and resent

– NTN – THE SATELLITE AS ONE MORE CELL TOWER

In coverage

LTE-M network, near real time, cost of an ordinary IoT plan.

Network disappears

Automatic switch to an NTN satellite. Same modem, same antenna, same SIM.

Out of coverage

Compact messages of a few dozen bytes to the satellite, then the platform.

Between passes

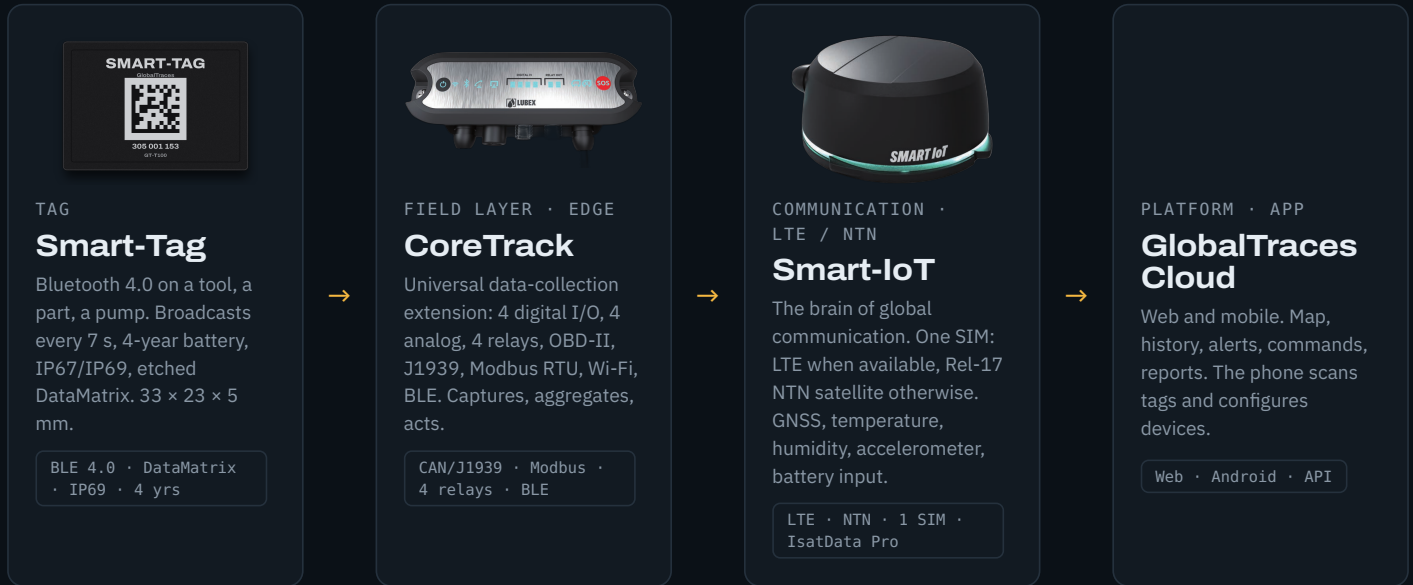
Non-volatile memory, resent in order at next contact. Nothing is lost.

Back in coverage

Back to cellular to flush the queue faster and cut costs.

NTN isn't magic: slower and more constrained than cellular. But enough to answer the question that matters — where is the machine, is it running, for how many hours — anywhere in Québec, with a single unit.

One ecosystem, from the tag to the satellite.



No more hours lost looking for a tool.

Every vehicle fitted with a Smart-IoT and a CoreTrack sweeps its surroundings as it drives and records every tagged tool it passes: this tool, here, at this time. In the morning, type the tool's name and see where it was last seen. Search on the map, not in the field.

— WHAT SETS US APART

We don't sell a box. We design the device your application demands.

The big makers build one device for everyone and ask you to fit your problem into it. We do the opposite: hardware, firmware and platform are designed by the same team, in Rouyn-Noranda. Every custom device reuses the common core; the effort goes where your application is unique.

Crane module J1939 · PTO · operator badge · HOS log	Smart-IoT hybrid satellite LTE + NTN · Quaqtaq, 61° N	Smart-Tag + mobile gateway BLE 4.0 · IP69 · 4 yrs · container inventory
Snow-removal GIS gateway GeoEvent · VPN · municipal format	Component cartridge iButton · hours per component · LIMS	Your application to be defined together

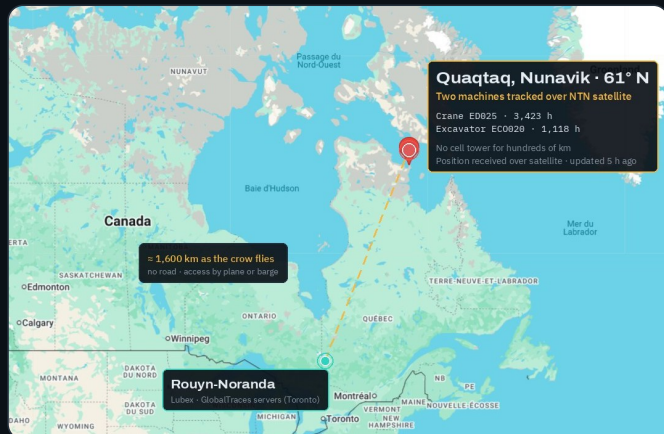
— REMOTE COMMANDS · SCHEDULING

Seeing is good. Acting from 400 km away is better.

It's -38 °C, the shift starts at 6 a.m., the loader is 90 minutes away. Schedule it once: "block heater at 3:30 a.m., Mon–Fri, if T° < -15 °C". The schedule lives in the unit, not on the server: it runs even off-network. Acknowledgement on every command.

Scheduled pre-heating block heater, cab, hydraulics, battery	Fixed equipment generators, compressors, pumps, lighting	Direct command cellular: seconds · satellite: minutes
Immobilization out of zone, after hours, unidentified operator	Automatic reactions anti-idling, critical temperature, battery	Site commands "close the site": one button

Two real machines, at a real client, 1,500 km from the last cell tower.



Quaqaq, QC · 61.05° N, 69.62° W · position received over NTN satellite · GlobalTraces platform, August 21, 2026

ED025

Crane

Equipment hours	3 423 h
Cartridge counter	657 h
Last month	12 h

ECO020

Excavator

Equipment hours	1 118 h
Cartridge counter	69 h
Next change	171 h

From the office, the client knows the excavator's cartridge needs changing in 171 h — early enough to put the oil on the next flight. Without tracking: a chartered flight to read a meter.

— THE PROJECT

Born in Abitibi. Built for the whole world.

More than three years of relentless development on a problem the global industry hadn't yet solved. When we started, NTN was a promise in a standards document. We designed our own hardware, wrote our own firmware, drove thousands of kilometres to Ungava Bay. **The challenge is met.** With world-class partners — technology services, satellite connectivity, hardware design — who chose to build with a team from Rouyn-Noranda. We'll name them when the time is right.

YEAR 1

Platform in service with mining and municipal clients

YEAR 2

Betting on 3GPP NTN, first hybrid architecture, own circuit board

YEAR 3

Thousands of km of trials, Quaqaq 61° N, 97.9% over 720 km

TODAY

Third generation, real equipment tracked by satellite

— WHO USES IT

Fleet manager

Where, how many hours, who. Maintenance on actual use.

Storekeeper / tool crib

Paperless container inventory.

Foreman

Finds equipment in seconds with the phone.

Rental company

Tracks assets at client sites, even off-network.

Project owner

Sees subcontractors' machines during the mandate.

Shop

Fault codes, alerts before the breakdown.

— SECTORS

Mining generators	Surface fleet off coverage, real hours, remote
Municipal feed	Outskirts snow removal, proof of service, GIS
Forestry	Off-network roads, verifiable billing
Contractors	Mobile sites, anti-theft, one system everywhere

Tell us where your machines lose the network.

A demo with a real tracker, on a real map, including positions received by satellite from northern Québec. Thirty minutes, with the engineer who designs the devices. Bring your problem, even if it looks like nothing in this document.

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