

N8N WORKFLOW DOSSIER

Workflows I designed and built

Mathieu Tellene · 2026 · 22 workflows, 530 nodes · 20 of them in production

Built in Cabify's Operational Excellence team in Spain. Each diagram is drawn from the workflow's real n8n export: node positions, types and connections are unchanged. Node labels are translated to English; client, supplier and people names, internal hosts, credentials and parameters are removed.

Case studies with context and results: mathieutellene.github.io

How to read this

Each diagram is one n8n workflow. Flow goes left to right. Solid lines are the normal data flow; dashed lines connect an AI agent to the model, memory and tools it can use. Where a workflow is very wide it is folded into bands, and numbered markers show where a line continues.

Diagrams are vectors: zoom in on the large ones. Small helper workflows are left out, so some sections show only the main ones.

What this does not show: prompts, credentials, parameters and data. The point is the structure: where the model sits, what it is allowed to touch, and what is plain code around it.

Sections 1 to 4 run in production. Section 5 is the retired first version of COPs Control, kept because the contrast with its replacement is the interesting part. Section 6 is a prototype.

 Trigger  AI / LLM  Logic and flow  Data and storage
 Google Workspace  Messaging  HTTP and APIs  Code

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1. **AQM · Asset Quality Management**

5 of its 12 workflows · 127 nodes

2. **WhatsApp Ride-Booking AI Agent**

10 of its 11 workflows · 179 nodes

3. **CabiBot · Help Center AI Agent**

1 workflow · 12 nodes

4. **Email-to-Reservation Pipeline (B2B)**

4 of its 5 workflows · 93 nodes

5. **COPs Control · version 1**

1 workflow · 92 nodes

6. **Ops orchestrator (prototype)**

1 workflow · 27 nodes

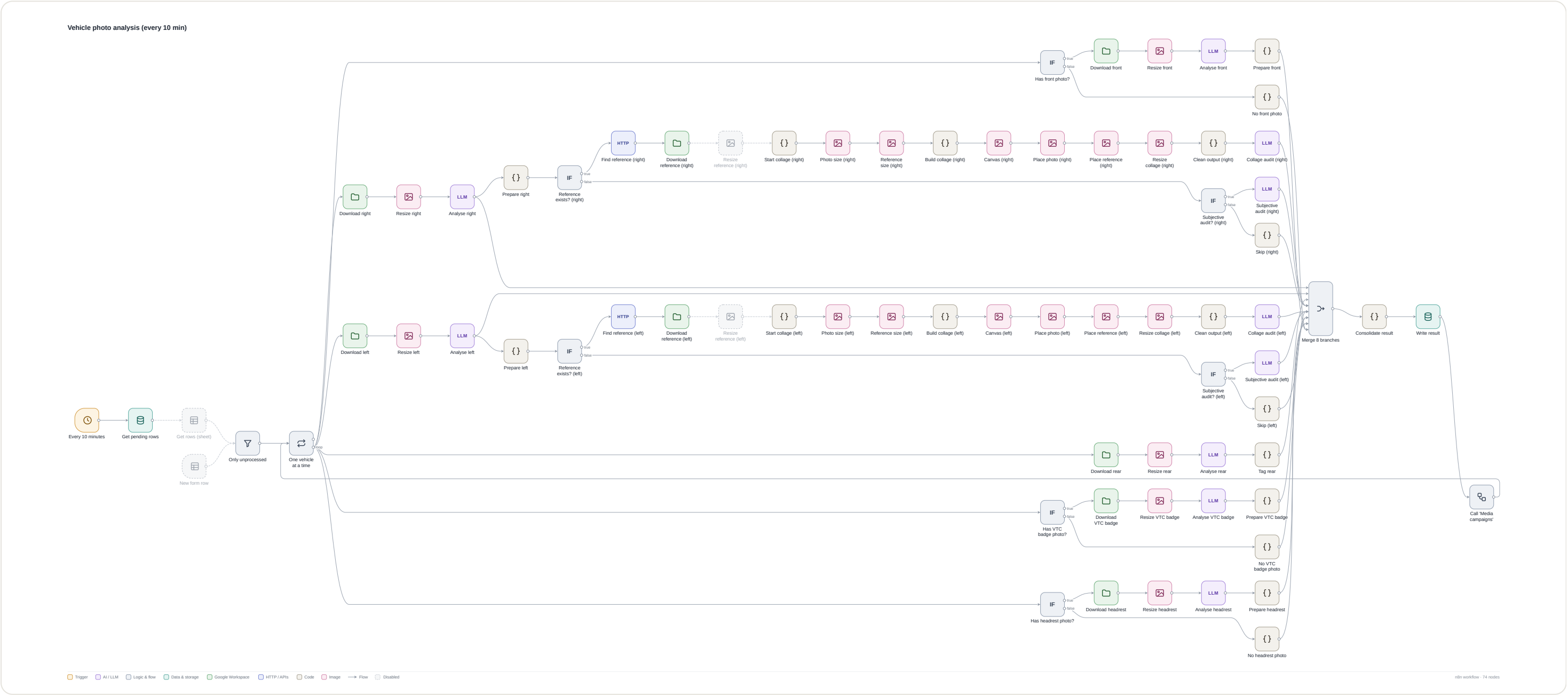
AQM • Asset Quality Management

Drivers and wrapping suppliers photograph each car through web forms. A vision model compares the photos with the reference designs, and the result per vehicle lands in one fleet database that feeds a dashboard and the monthly bonus. 23,621 photos audited at 97% accuracy against human review. Business as usual since 3 September 2026.

Full case study: mathieutellene.github.io/work/aqm.html

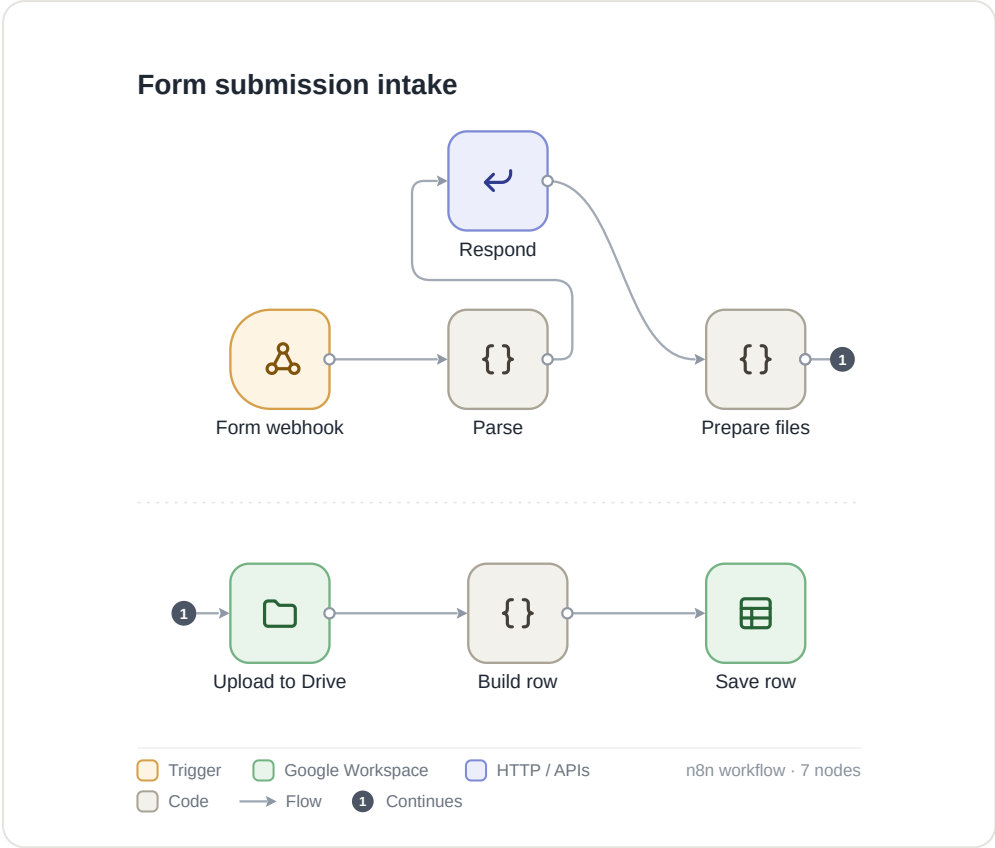
Vehicle photo analysis (every 10 min) 74 nodes

Runs every 10 minutes and takes one pending vehicle at a time. Each photo (right, left, front, rear, headrest, regional badge) has its own branch: download, resize to 1024 px, ask the model for a fixed 9-field JSON. Side photos also build a collage of the real photo next to the reference design for that vinyl type and side, and a strict comparison audit runs on it; designs without a reference get a subjective audit instead. Eight branches merge into one record, with tokens and cost summed.



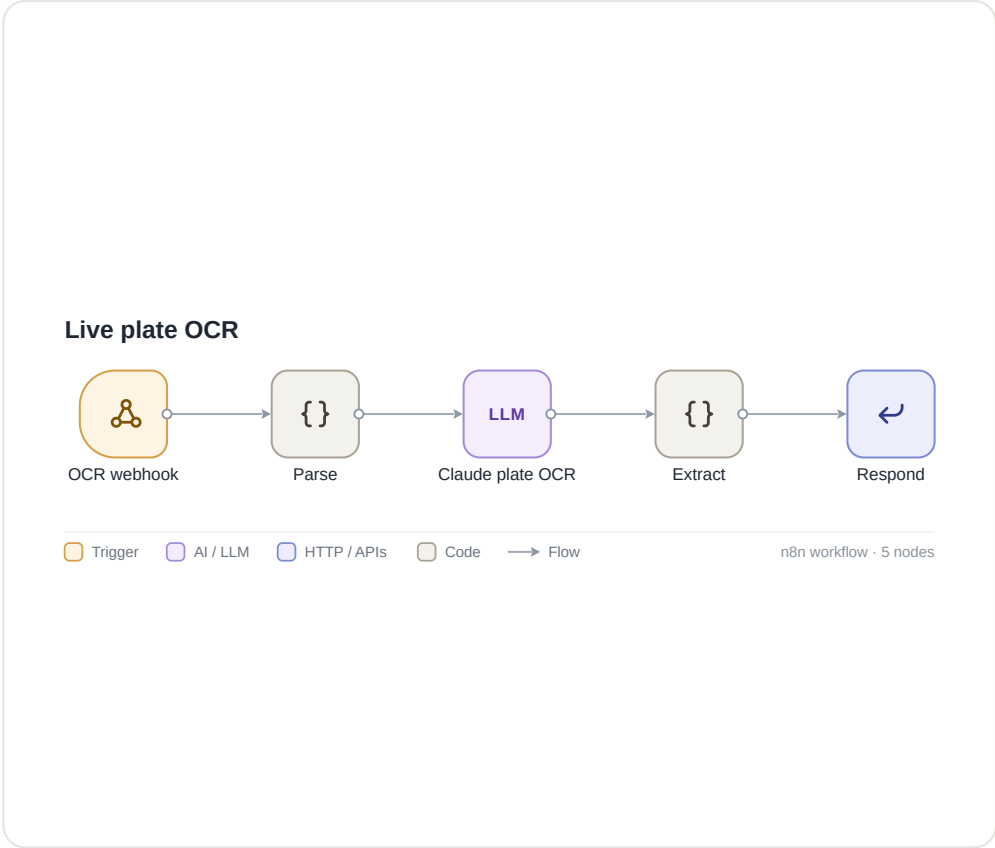
Form submission intake 7 nodes

The form posts here. Photos are uploaded to one Drive folder per photo type and the submission is written to a data table immediately, so the user gets an answer in seconds while the analysis runs later.



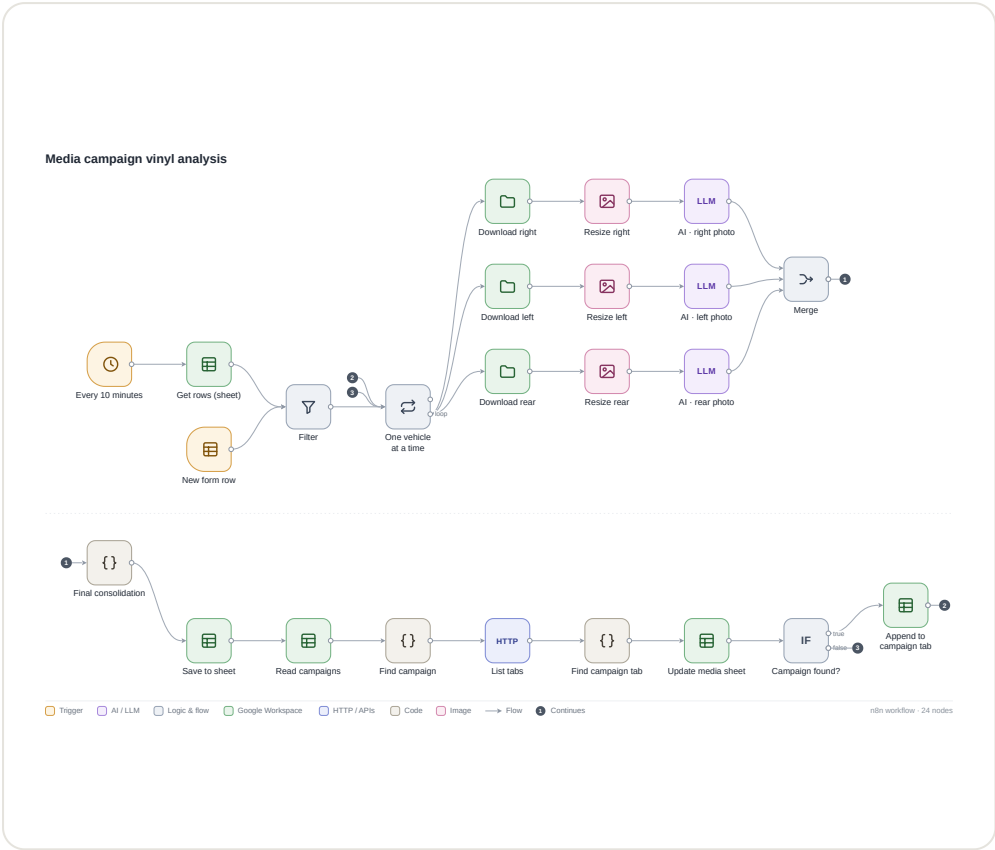
Live plate OCR 5 nodes

Reads the plate from a photo while the user is still on the form and returns it, so the form can warn about a mismatch. It never blocks a submission.



Media campaign vinyl analysis 24 nodes

For cars wrapped for advertising campaigns: analyses the photos, matches the car to the campaign that pays for it and appends it to that campaign's tab.



External brand vinyl check 17 nodes

Checks vinyl from external brands: brand, state, logo and plate, for cars outside the standard designs.



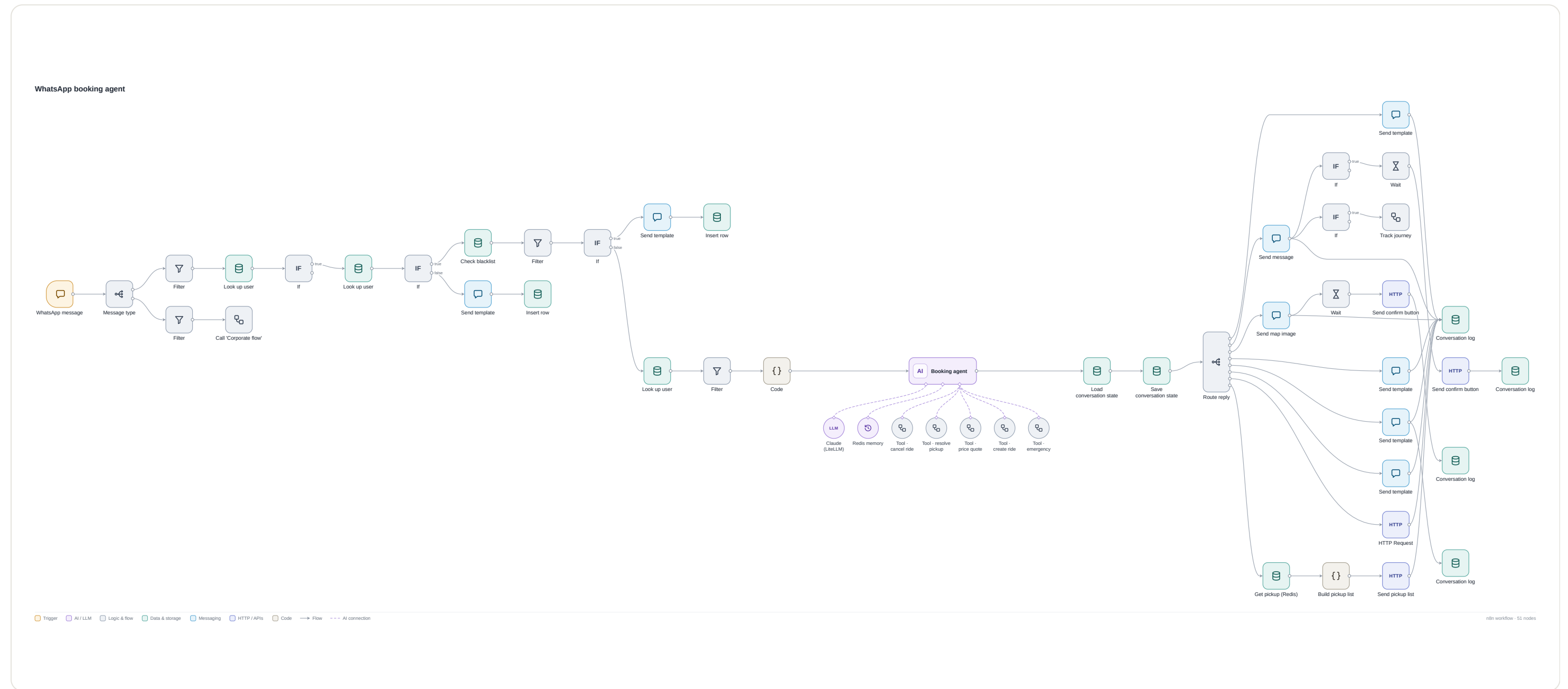
WhatsApp Ride-Booking AI Agent

Book a ride on WhatsApp without the app. A Claude agent runs the conversation in six gated phases; tools are separate workflows; state lives in Redis and a data table, and replies are chosen from fixed templates by markers in the model output.

Full case study: mathieutellene.github.io/work/whatsapp.html

WhatsApp booking agent 51 nodes

Entry point. Message-type switch, blacklist and flood filters, then the agent with its memory and five tools. After the agent, a router reads the marker in its output and sends one of seven reply formats (buttons, lists, map image, text) and logs the conversation.



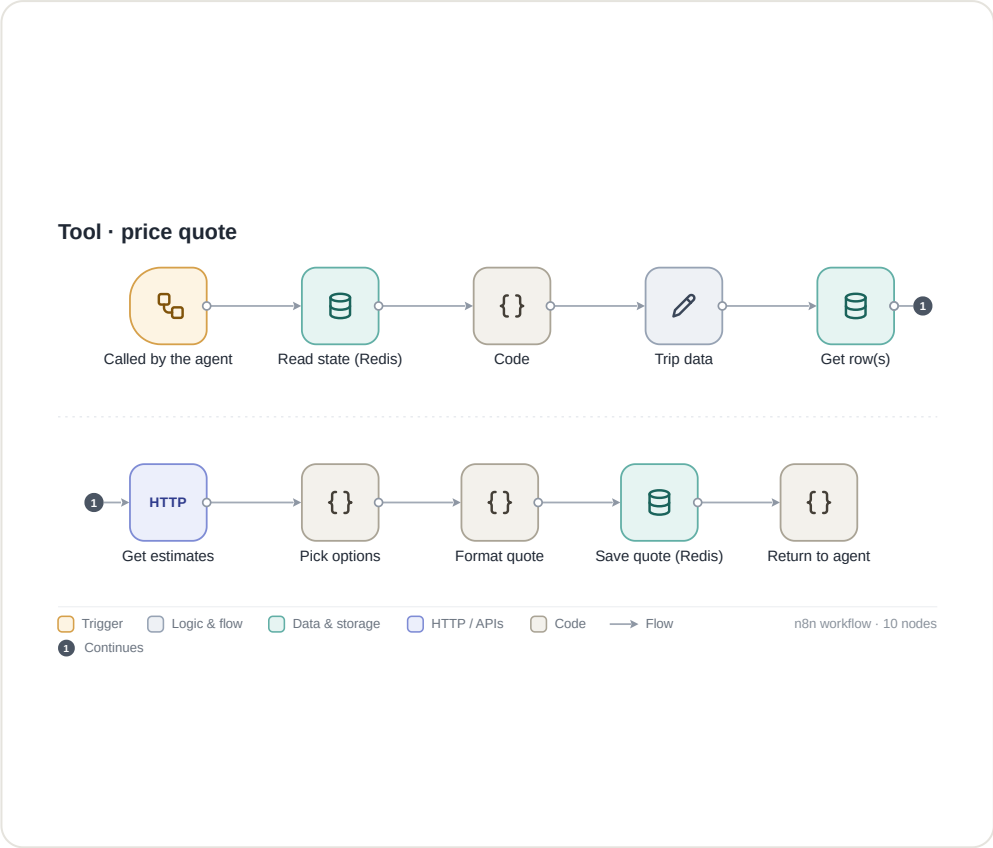
Tool · resolve pickup 15 nodes

Tool: resolve the pickup. Chooses reverse geocoding or a places search depending on what the rider sent, ranks candidates, snaps to the nearest allowed pickup point and stores the result in the session.



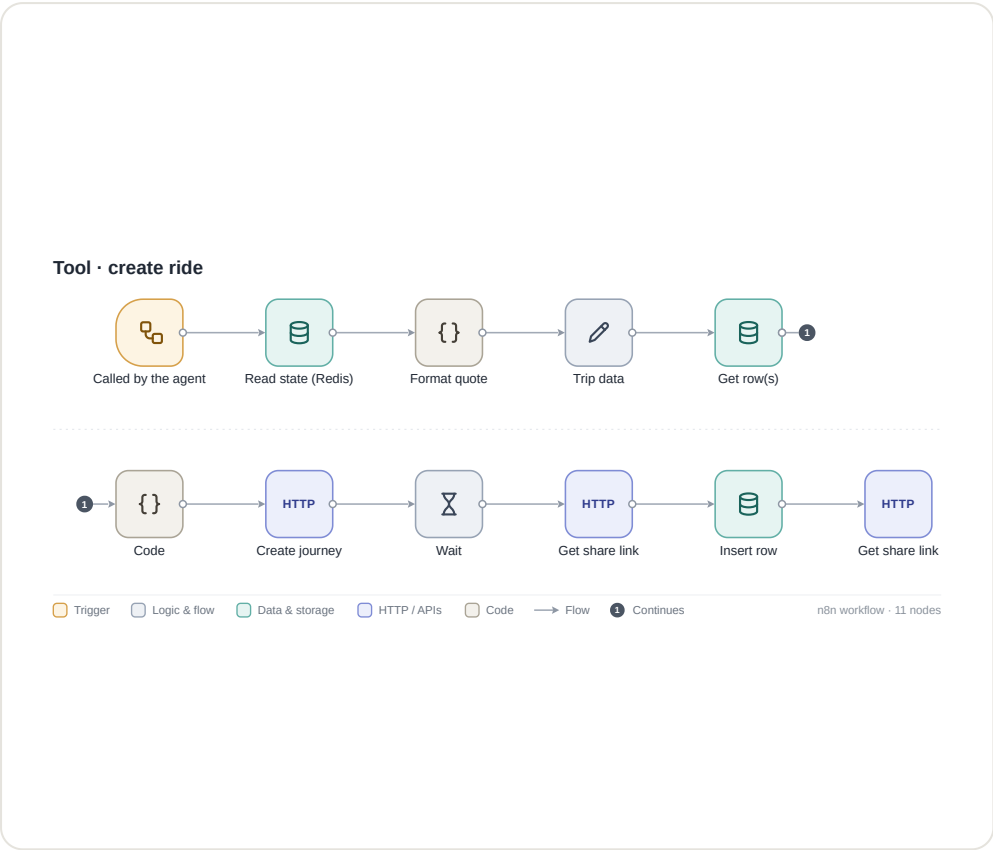
Tool · price quote 10 nodes

Tool: get price estimates for the trip and keep the chosen option in the session.



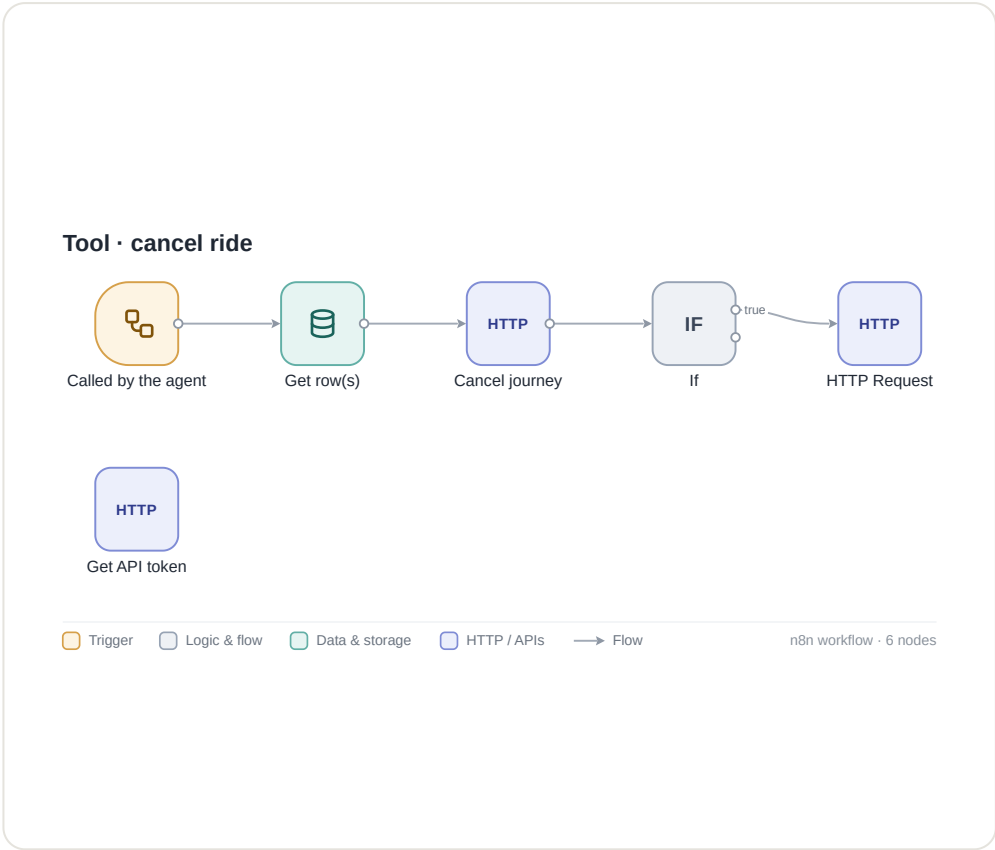
Tool · create ride 11 nodes

Tool: create the ride through the API and return a share link.



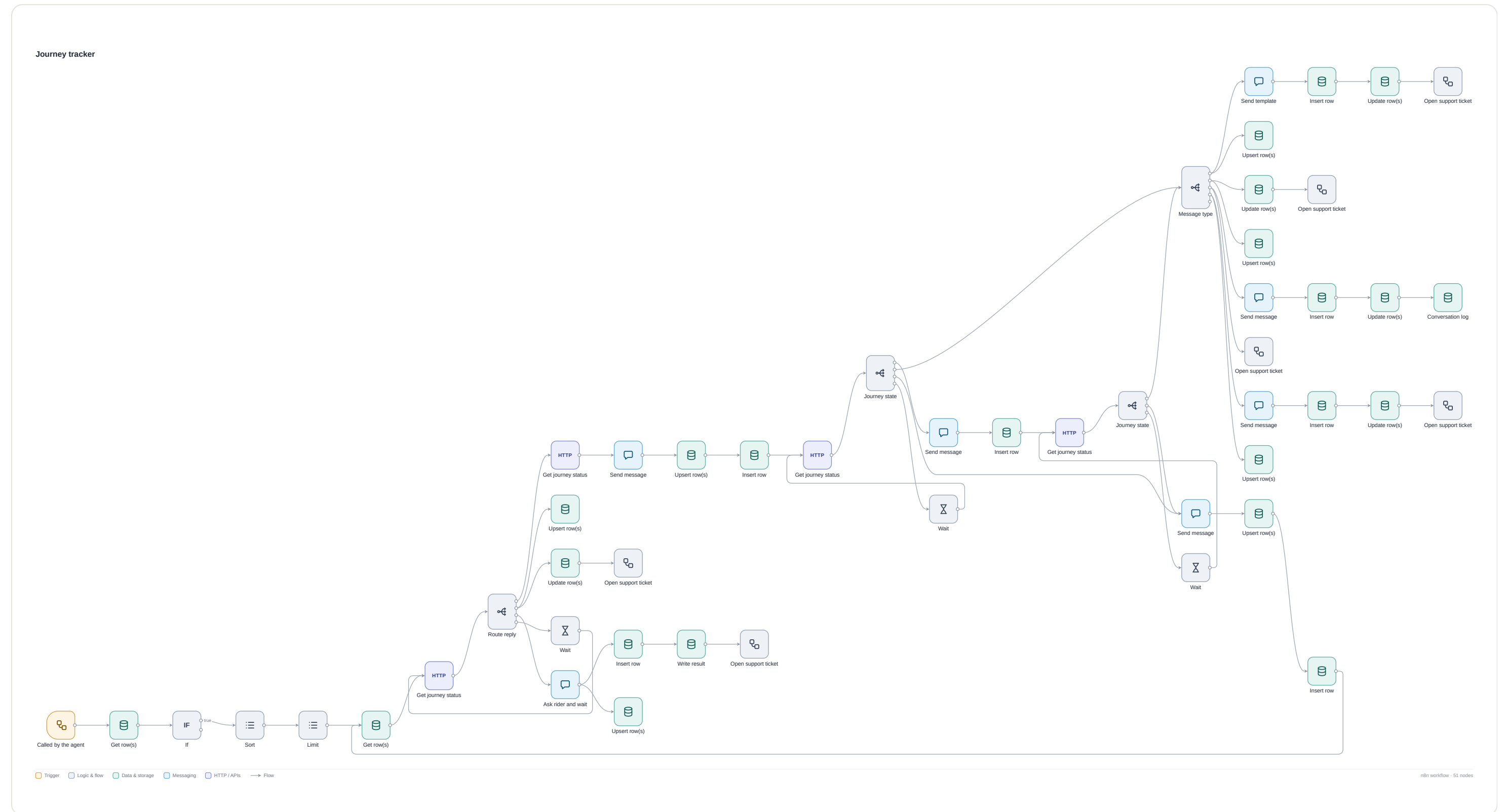
Tool · cancel ride 6 nodes

Tool: cancel the ride. The free-cancellation window is computed in code, not by the model.



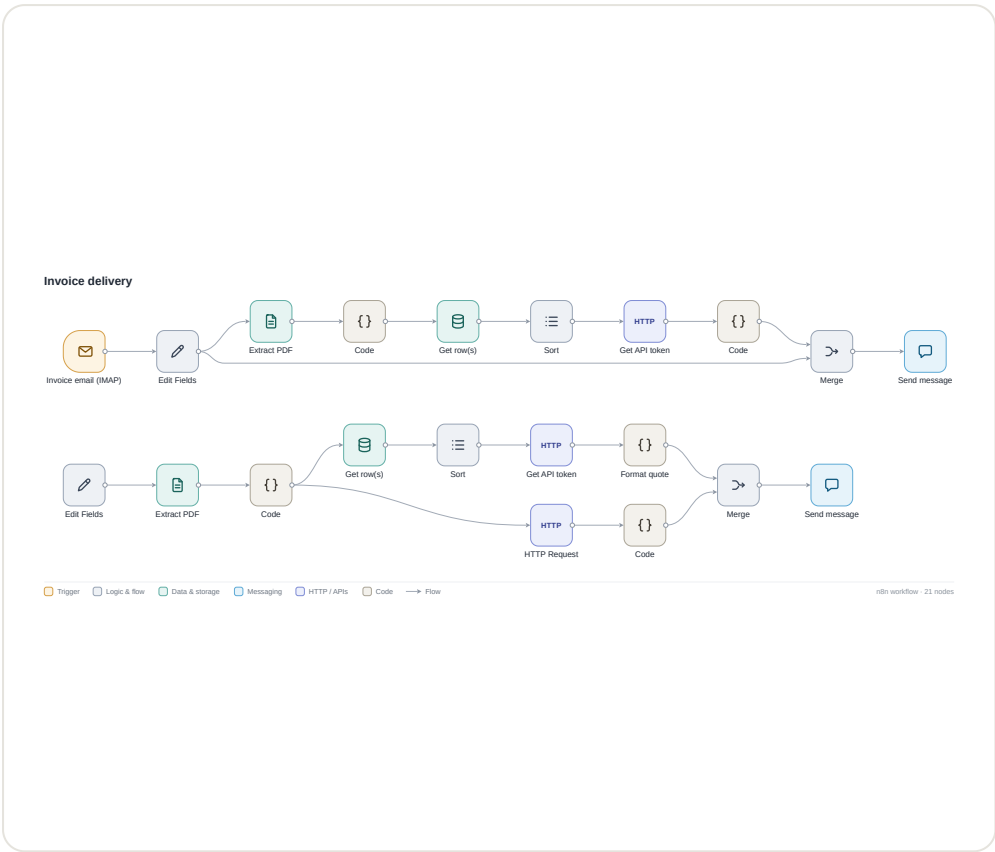
Journey tracker 51 nodes

Tracks the ride after booking: polls its status, sends a message at each milestone, asks the rider when something looks wrong and opens a support ticket when needed.



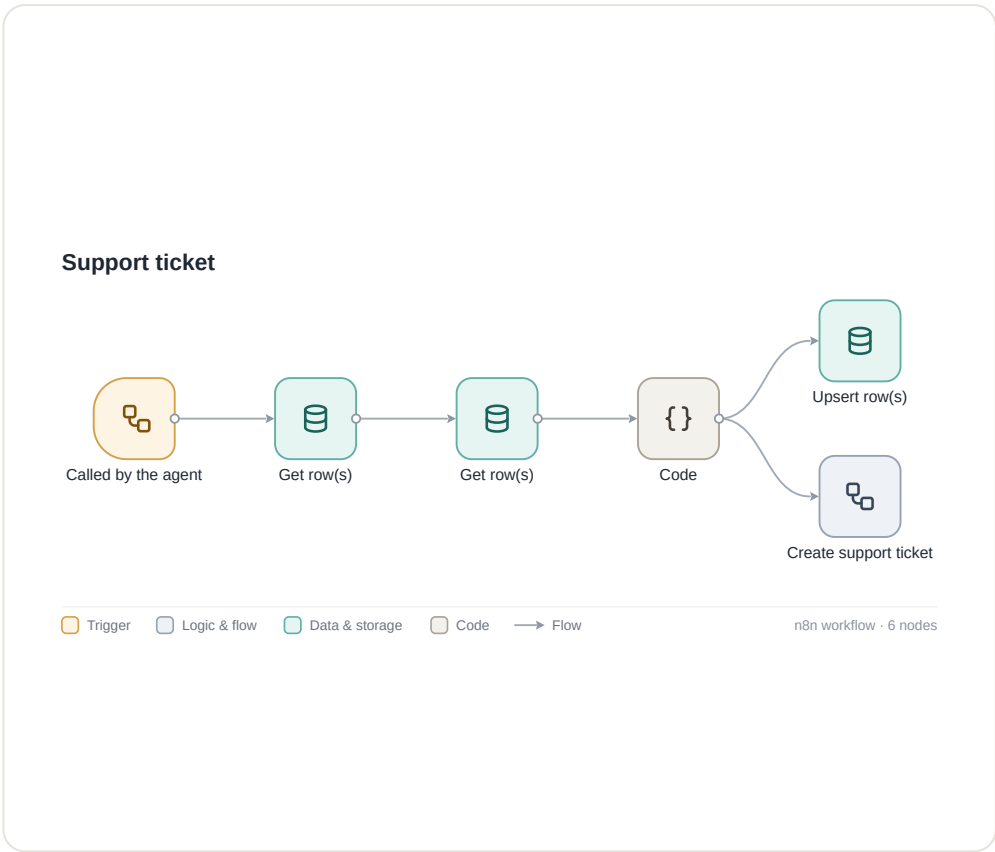
Invoice delivery 21 nodes

Reads the invoice email, extracts the PDF and sends it to the rider on WhatsApp.



Support ticket 6 nodes

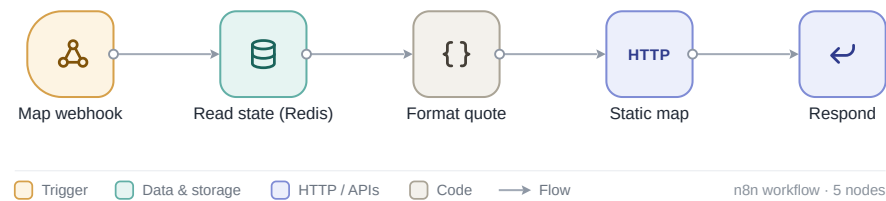
Opens a support ticket with the conversation attached.



Static map 5 nodes

Returns a static map image of the pickup point for the WhatsApp message.

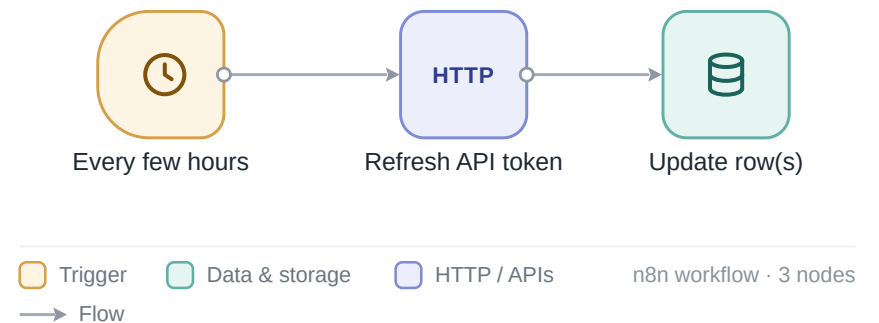
Static map



API token refresh 3 nodes

Keeps the API token fresh on a schedule.

API token refresh



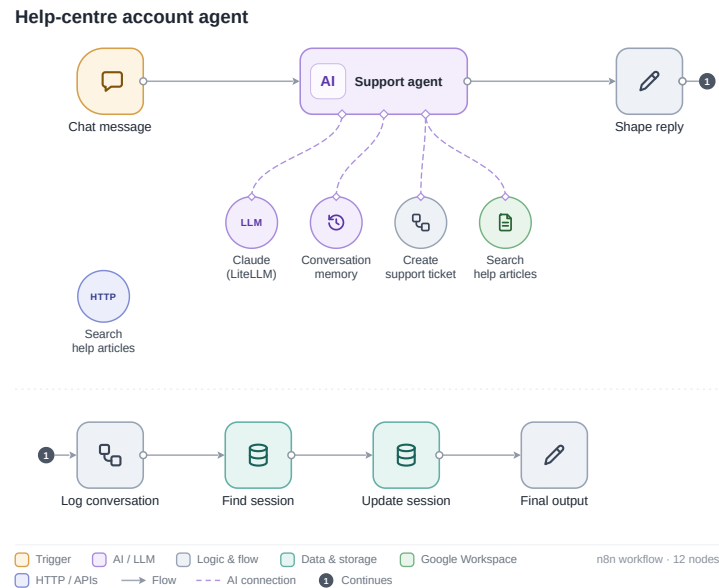
CabiBot • Help Center AI Agent

A chat agent in the rider Help Center for sign-in and account problems. It searches help articles, keeps memory per session and opens a ticket only when it cannot solve the case. 11,818 conversations so far.

Full case study: mathieutellene.github.io/work/cabibot.html

CabiBot • Help Center agent 12 nodes

Chat trigger, the agent with its model, memory, article-search tool and ticket tool, then the reply is shaped and the session logged.



Email-to-Reservation Pipeline (B2B)

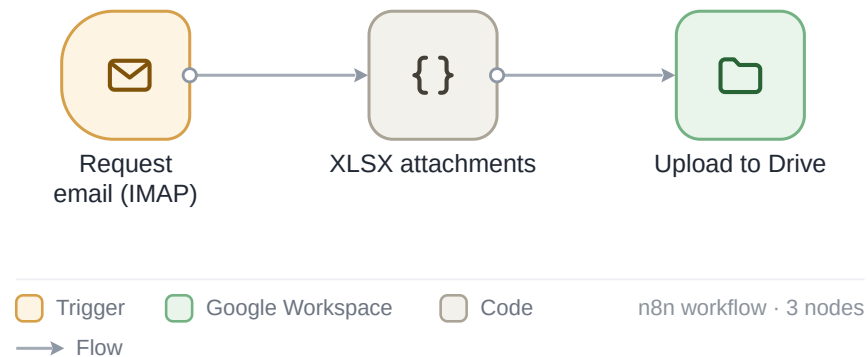
A corporate client sends trip requests as spreadsheets and the fleet partner sends signed work orders as PDFs. Two agents read both, a sheet cross-checks them, and a person creates or cancels each ride with one click; the ride goes out through the public API with its driver pre-assigned.

Full case study: mathieutellene.github.io/work/b2b.html

Email intake 3 nodes

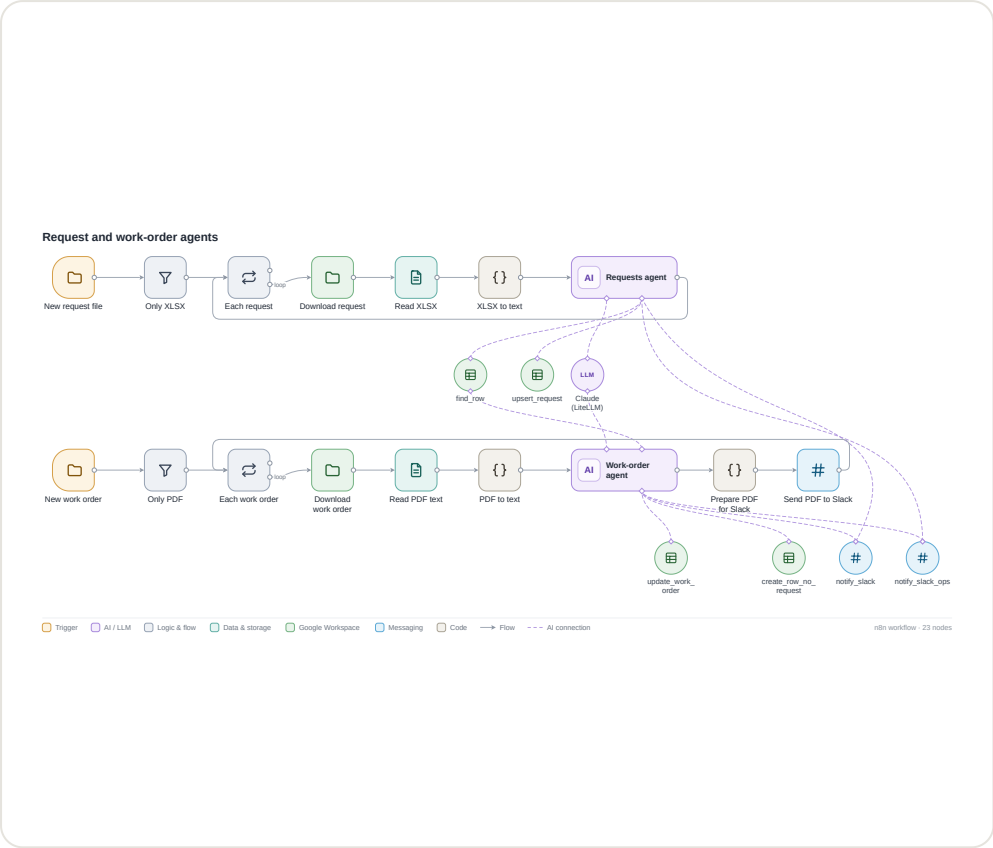
Saves the client's request attachments from the mailbox to Drive.

Email intake



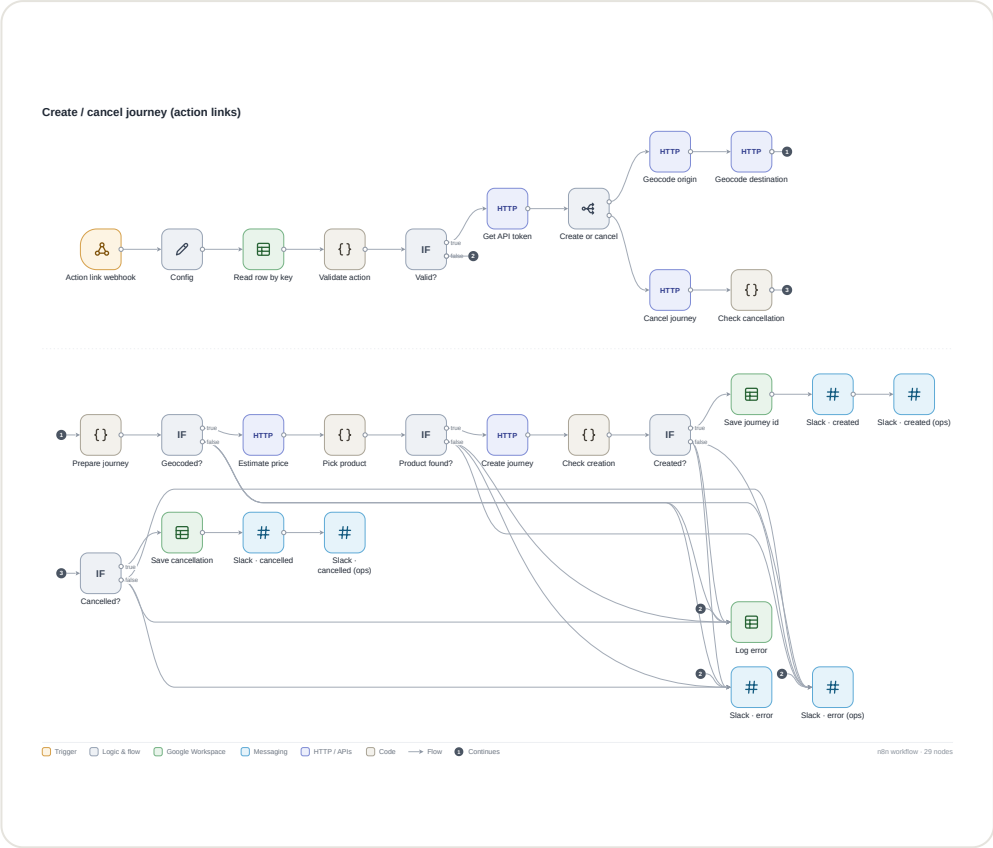
Request and work-order agents 23 nodes

Two agents, one for requests and one for work orders. Their tools can only find rows, upsert values and notify Slack; formula columns and ride fields are out of their reach.



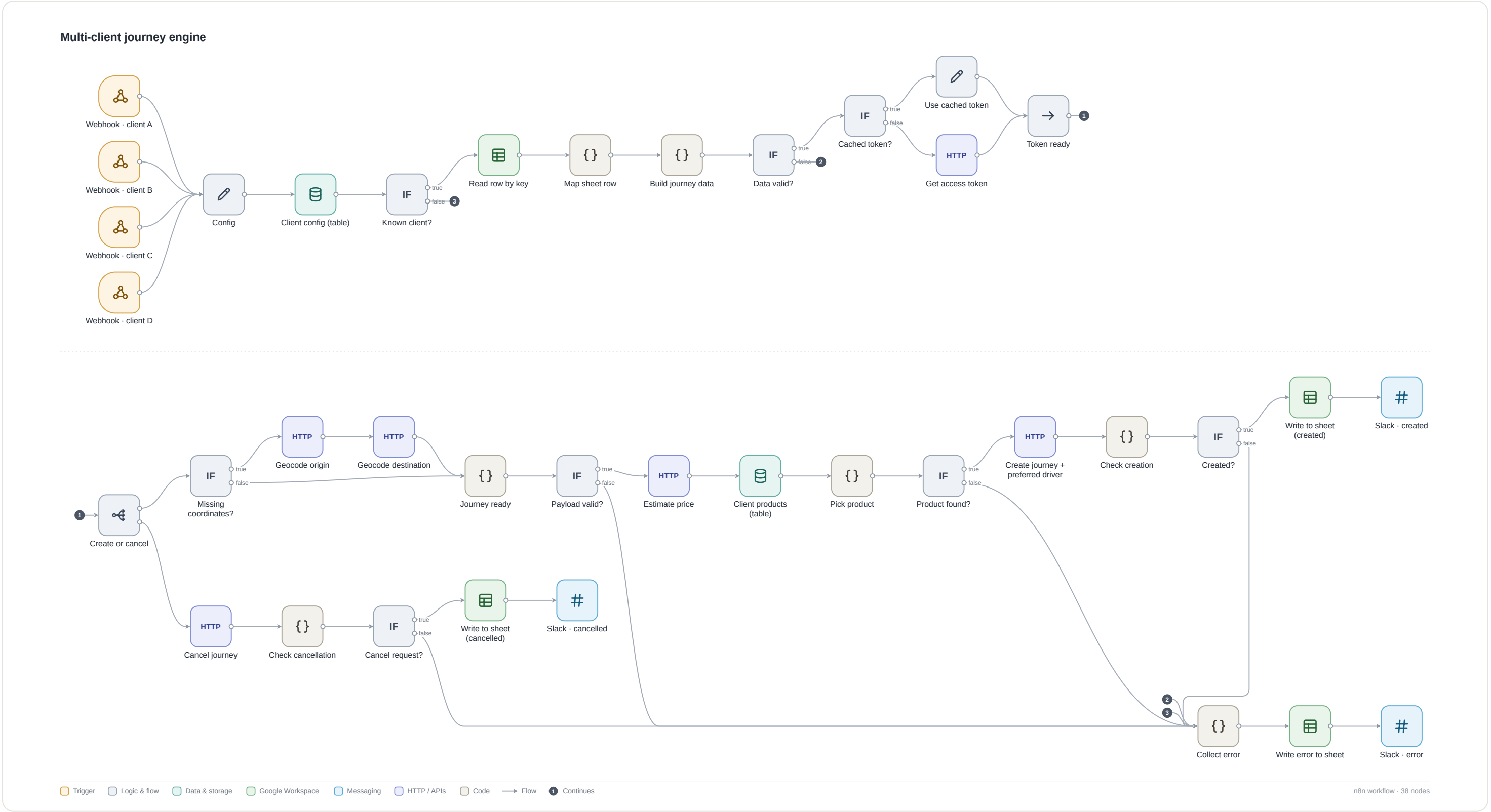
Create / cancel ride (action links) 29 nodes

The action behind each row's create and cancel links. It re-validates on the server, authenticates, geocodes, estimates the price, picks the product, calls the API, verifies the result, writes it back and notifies.



Multi-client ride engine 38 nodes

The same logic generalised for several clients: one webhook per client, per-client configuration and products in data tables, one error collector.



COPs Control • version 1

The first version of COPs Control read dashboards as images. It was replaced by a Python and PostgreSQL pipeline on the team's Mac mini that reads the data itself, because image extraction occasionally invented a digit.

Full case study: mathieutellene.github.io/work/cops-control.html

COPs Control v1 • weekly KPI extraction from dashboards 92 nodes

Ten dashboards in parallel. Each branch signs in to the BI tool, finds the workbook and view, renders it as an image, sends it to a vision model, flattens the JSON, maps it to the weekly sheet and writes it. A report that arrives by email is parsed as PDF.



Ops orchestrator (prototype)

A prototype, not in production: one agent reachable from Slack, chat, email, a schedule and a webhook, with tools for files, email, calendar, the BI tool and tasks.

Ops orchestrator (prototype) 27 nodes

Every input is normalised to one shape, a classifier decides the intent, the agent acts with its tools and the reply is routed back to where the request came from.

