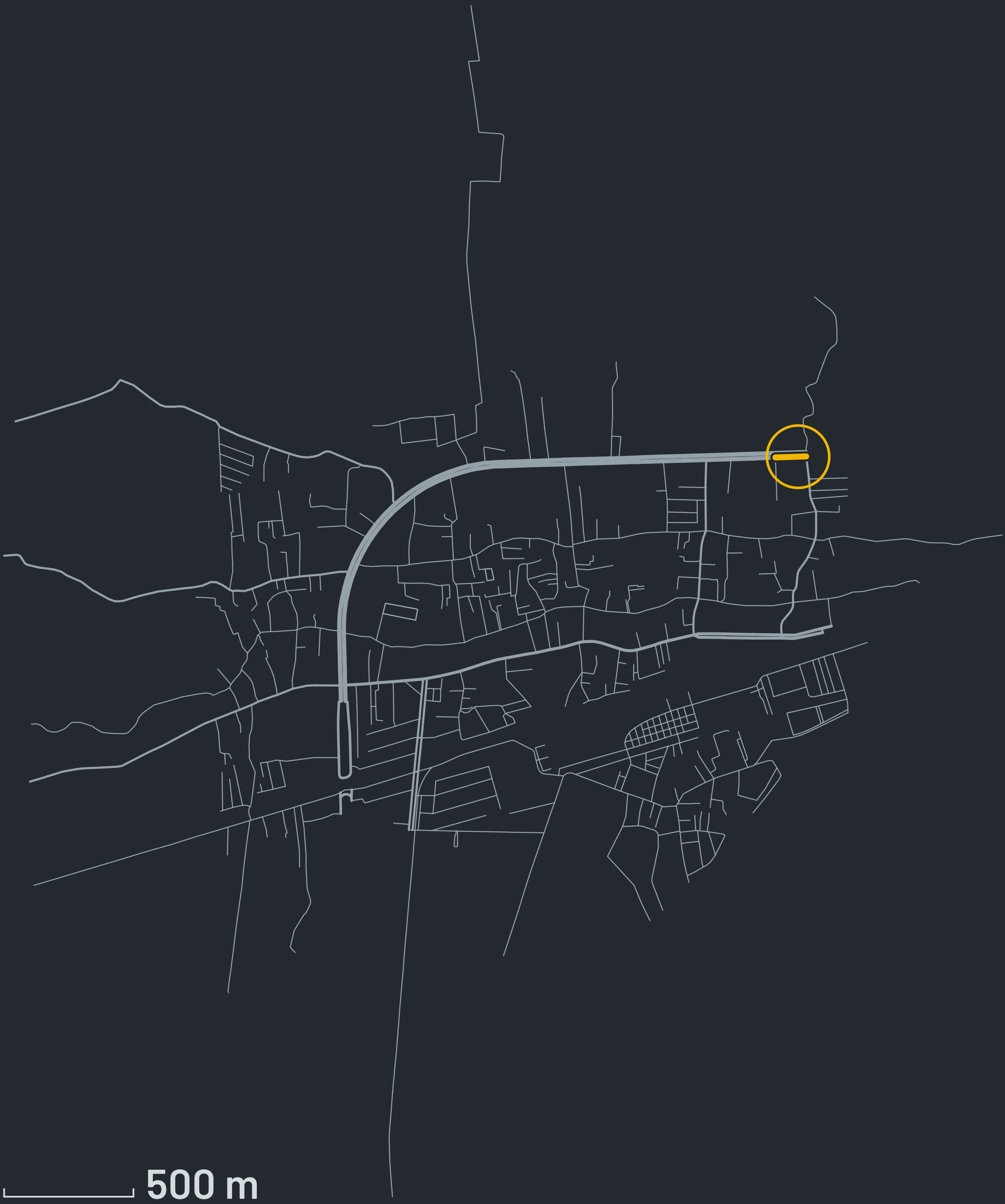


RoadRisk

Road Risk Scores for Motorcyclists,
Checked Against Real Crash Locations

Find the stretch of road that
will hurt a rider, before it does.

Real road network, real crash record



Not scored yet

Segment with a
recorded motorcycle
crash

RoadRisk Score shown on the map



1 lowest risk 5 highest risk

No segment in this area has a score yet. The
colours above are the scale the map will use.

Nakhon Ratchasima, Thailand. 972 road segments of 100 m, drawn from open
map data. 1 segment carries a recorded motorcycle crash.

Most people who die on these roads were on a motorcycle

Road budgets are small and roads are long. Today a council often learns that a
stretch is dangerous only after people die there.

about 66%

of road deaths in Malaysia in 2025 were motorcyclists
and pillion riders
Police data, Transport Minister, 21 Oct 2026

83.8%

of road deaths in Thailand were riders of motorcycles
WHO Global Status Report on Road Safety 2023, data for
2021

18 218

road deaths in Thailand in one year
WHO Global Status Report on Road Safety 2023, data for
2021

What a council gets

- 1 Record** Drive or ride the roads with a dashboard camera and GPS. No
special vehicle.
- 2 Split** The route becomes segments of 100 m, so every result points to
a place a road crew can find.
- 3 Score** Each segment gets a RoadRisk Score from 1 to 5 for the
hazards that hurt riders: no motorcycle lane, a sharp drop at the road
edge, potholes, U-turn gaps, junctions without traffic lights.
- 4 Check** Scores are compared with the places where serious and fatal
crashes really happened.
- 5 Report** A colour map and a report in Malay, English or Thai, ranked by
how urgently each stretch needs fixing.

Faces and number plates are blurred before anything is stored.

What we have measured so far

Every figure below comes from a recorded test run on real data. The range is the 95% range from repeated
resampling.

99.7%

Road photos from Nakhon
Ratchasima placed on a 100 m
segment

Real data

95% range 99.2–100.0%
sample 368

2.8m

Typical distance between a photo's
GPS position and its road segment,
Nakhon Ratchasima

Real data

95% range 1.1–4.4m
sample 351

93.0%

Dashboard camera frames from a
California highway placed on a 100
m segment

Real data

95% range 88.8–96.9%
sample 26 383

Does a high score mean more crashes?

Not measured yet. In the test area only 1
road segment has a recorded motorcycle
crash, which is too few to judge. We are
asking for crash records with locations in
Malaysia, and will publish the result only after
it is measured.



Scan to open the full
page in English, Malay
or Thai

[roadrisk.sasateguh.com/
tentang/](https://roadrisk.sasateguh.com/tentang/)

Who it is for

Local councils, public works departments, road
agencies and transport departments in Malaysia
and Thailand. Anyone who decides which road
gets fixed this year.

Who built it

Built in Malaysia by Sasa Teguh for IPITEx 2027.

Data sources

Map data © OpenStreetMap contributors, ODbL 1.0.
Crash records: Ministry of Transport Thailand, road crash data,
Open Data Common licence.
Road photos, Nakhon Ratchasima: Panoramax, author fwsmitt, CC
BY-SA 4.0.
Highway frames, California: comma.ai comma2k19, MIT licence.