Google

Data-driven decision-making to support effective climate action

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Google, Environmental Insights Explorer

Sunlight on rooftops

Shady   Sunny

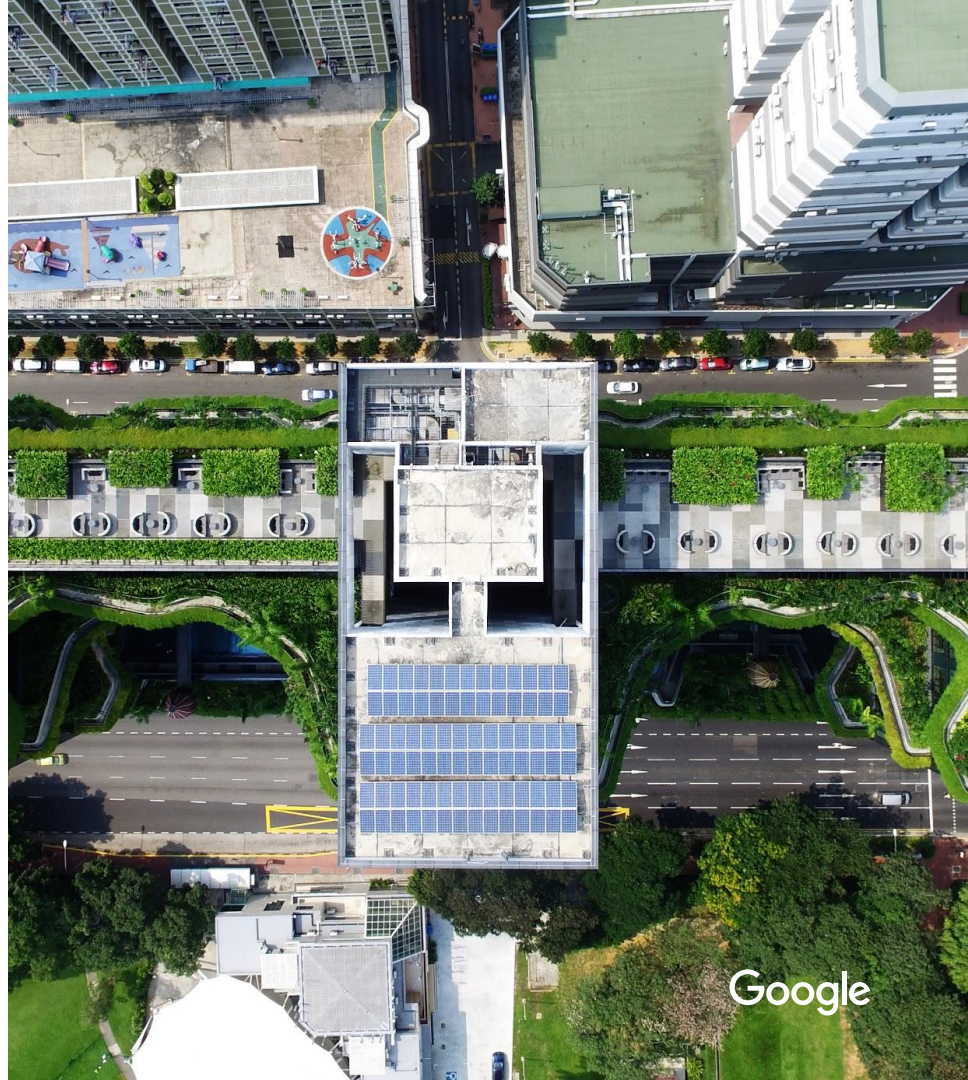**70%** of global emissions are attributable to cities

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Time to act is now

2030

CO$_2$ emissions need
to be cut in half

2050

achieve carbon
neutrality

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North Star

Help over 500 cities or local governments to reduce
1 gigaton of carbon emissions annually by 2030 and beyond.

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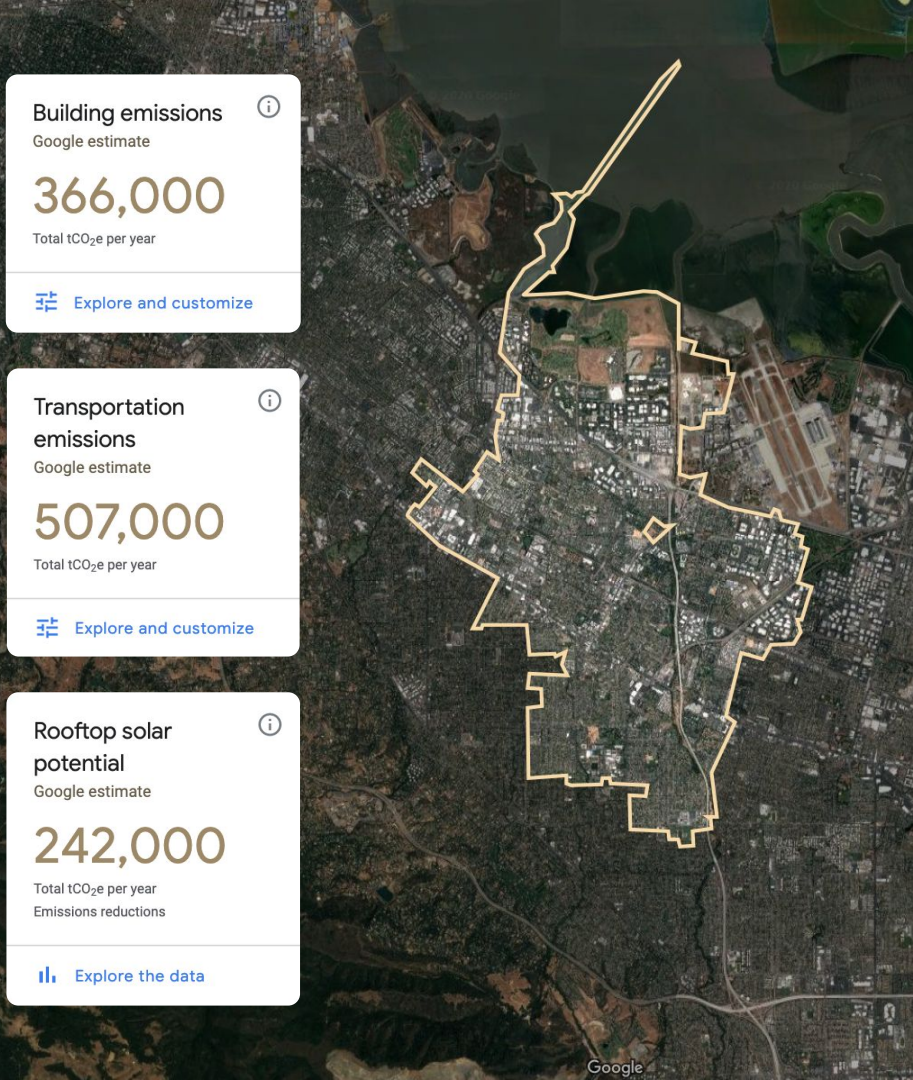
Data access is limited and costly

Data

Time

Expertise

Resources

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Building emissions
Google estimate

366,000
Total tCO₂e per year

Explore and customize

Transportation emissions
Google estimate

507,000
Total tCO₂e per year

Explore and customize

Rooftop solar potential
Google estimate

242,000
Total tCO₂e per year
Emissions reductions

Explore the data

Environmental Insights Explorer

Empowering more than 3,000 cities with actionable data and insights to reduce global emissions.

insights.sustainability.google

GLOBAL COVENANT
of MAYORS *for*
CLIMATE & ENERGY

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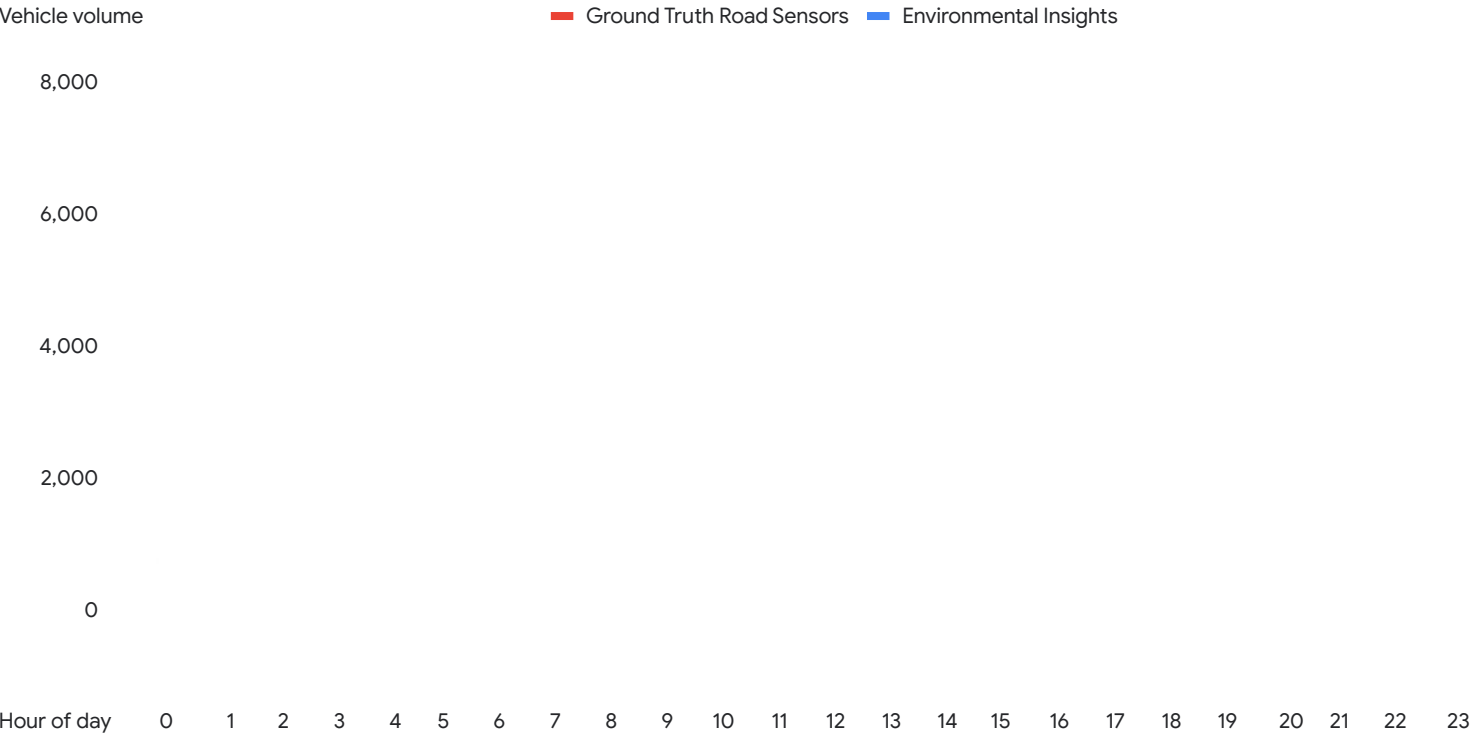Scaling city data and leading climate tools.

$4M in grants to support climate plan implementation projects

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EIE data has high correlation with existing collection methods

Results show EIE model aggregate error was ~6.1%

Vehicle volume

■ Ground Truth Road Sensors   ■ Environmental Insights

8,000

6,000

4,000

2,000

0

Hour of day   0   1   2   3   4   5   6   7   8   9   10   11   12   13   14   15   16   17   18   19   20   21   22   23

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Measure + Plan + Act: Solar potential

📍 **Mexico City, Mexico**

The first grantee from Google.org's action fund in collaboration with ICLEI is Iniciativa Climática de México (ICM)

ICLEI
Local Governments for Sustainability

icm
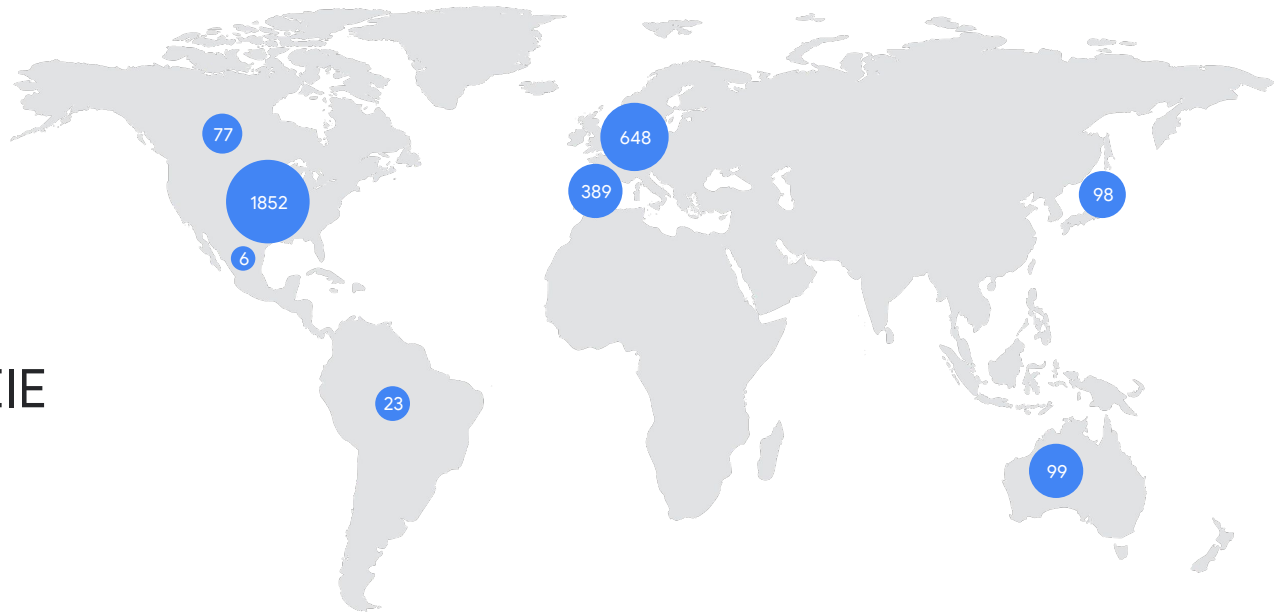INICIATIVA CLIMÁTICA DE MÉXICO

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📍 **Monterrey, Mexico**

Assessing scenarios around the electrification of buses to service the university, and optimize of transit routes and schedules.

3,000+

Cities data now accessible on the EIE site.

Google

Thank You