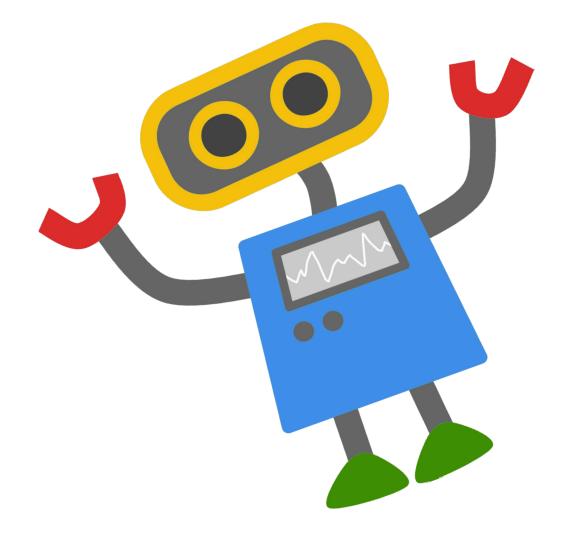
### If you don't measure it..

Data processing - near real time delivery, interdependence, Al and Machine Learning



**Ed Parsons** 

**Geospatial Technologist** eparsons@google.com @edparsons





e Rourts

### About me..

#### ED PARSONS Geospatial Technologist, Google



### About me..

- **University College London**

- Senior Lecturer, Kingston University

ED PARSONS **Geospatial Technologist, Google** 

Google's Geospatial Technologist since 2007

Director of the Open Geospatial Consortium, past co-chair of W3C Geospatial Data Working Group, member of the UK **Government Open Standards Board, and Visiting Professor at** 

Chief Technology Officer of Ordnance Survey (GB)

**EMEA Applications Manager, Autodesk** 

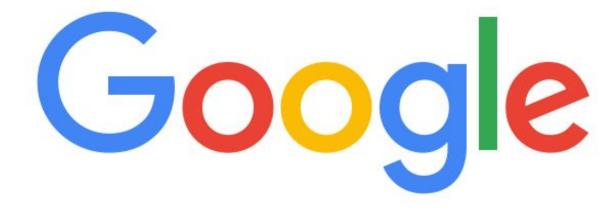


### About Google..



"organise the world's information and make it universally accessible and useful"





#### Geography

**Google Search** 

I'm Feeling Lucky



















### Beware!







# Data not Opinion!





# 

#### Of Enterprise data is never used...

Seagate Inc, 2020 "Rethink Data: Put More of Your Data to Work—From Edge to Cloud"



### Al everywhere..



## Feature recognition & extraction..



# **Mobility Data &** Human insights..





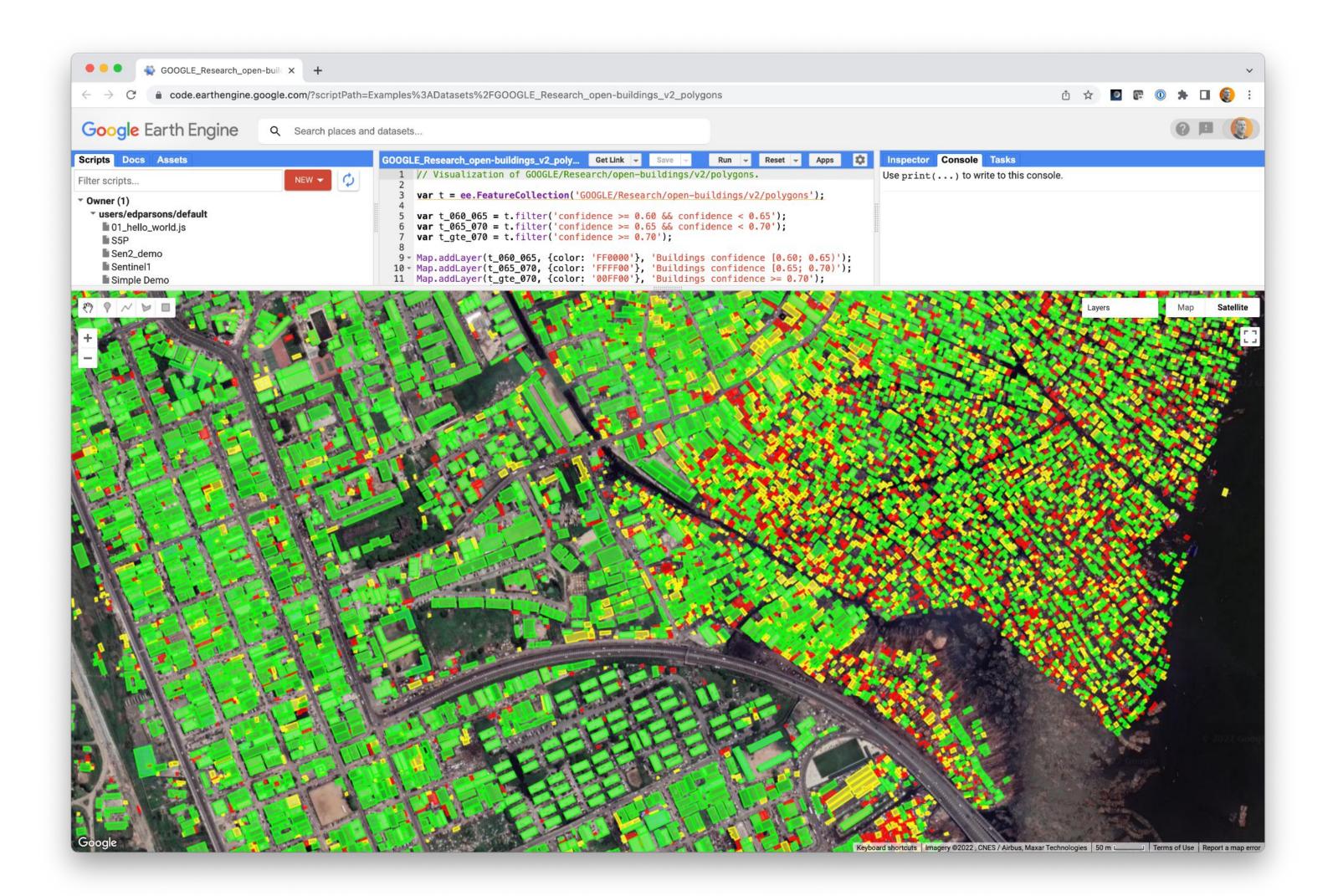












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### Actionable..

Supercharging <sup>Time remaining to continue trip</sup> **7 min**  20° C 17:45

60 mi



#### **Digital Decarbonisation**

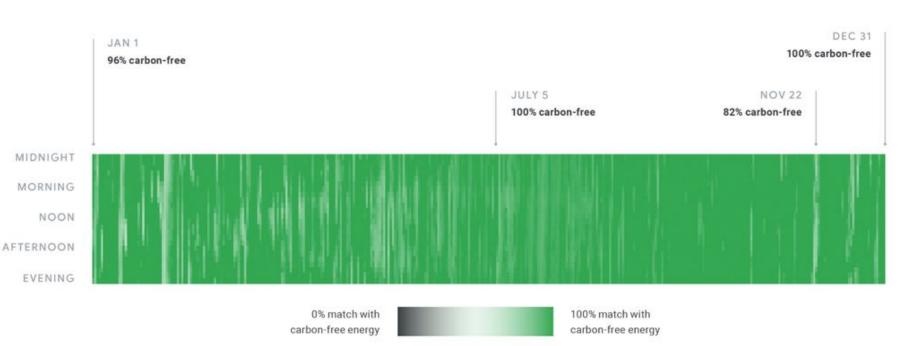
**Transport**, where digital tech plays a key enabling role in 60-70% of the needed CO2 reductions and helps to save energy

**Buildings**, with tech enabling 30-35% of the needed CO2 reductions, for example by saving energy and supporting the shift away from gas

**Agriculture**, where digital tech is in its early phase, but can play an enabling role in 20-25% of the needed CO2 reductions

**Factories** and supply chains, where tech enables 10–15% of the needed CO2 reductions

Implement Consulting, 2022 "Digital Decarbonisation"

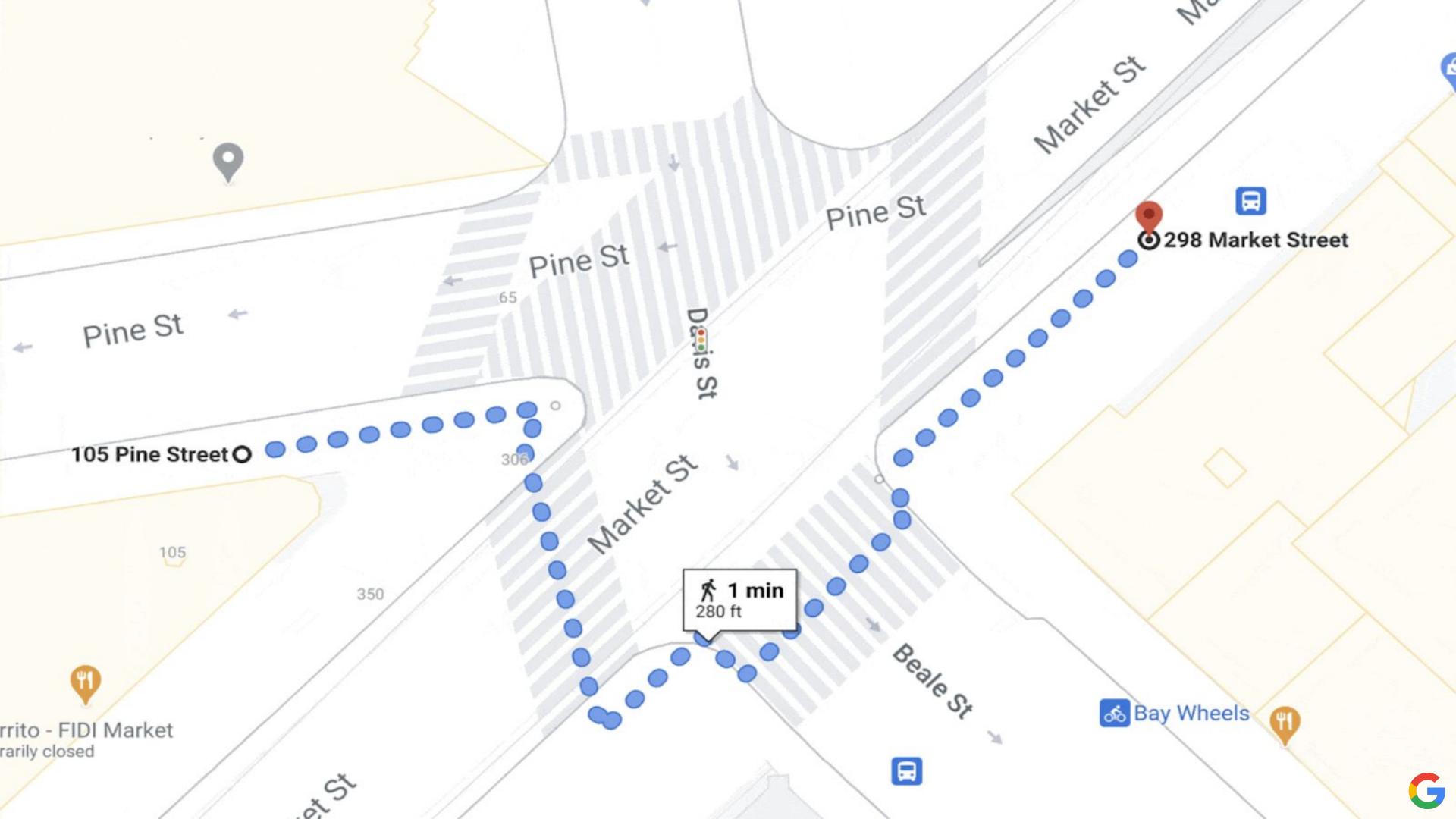


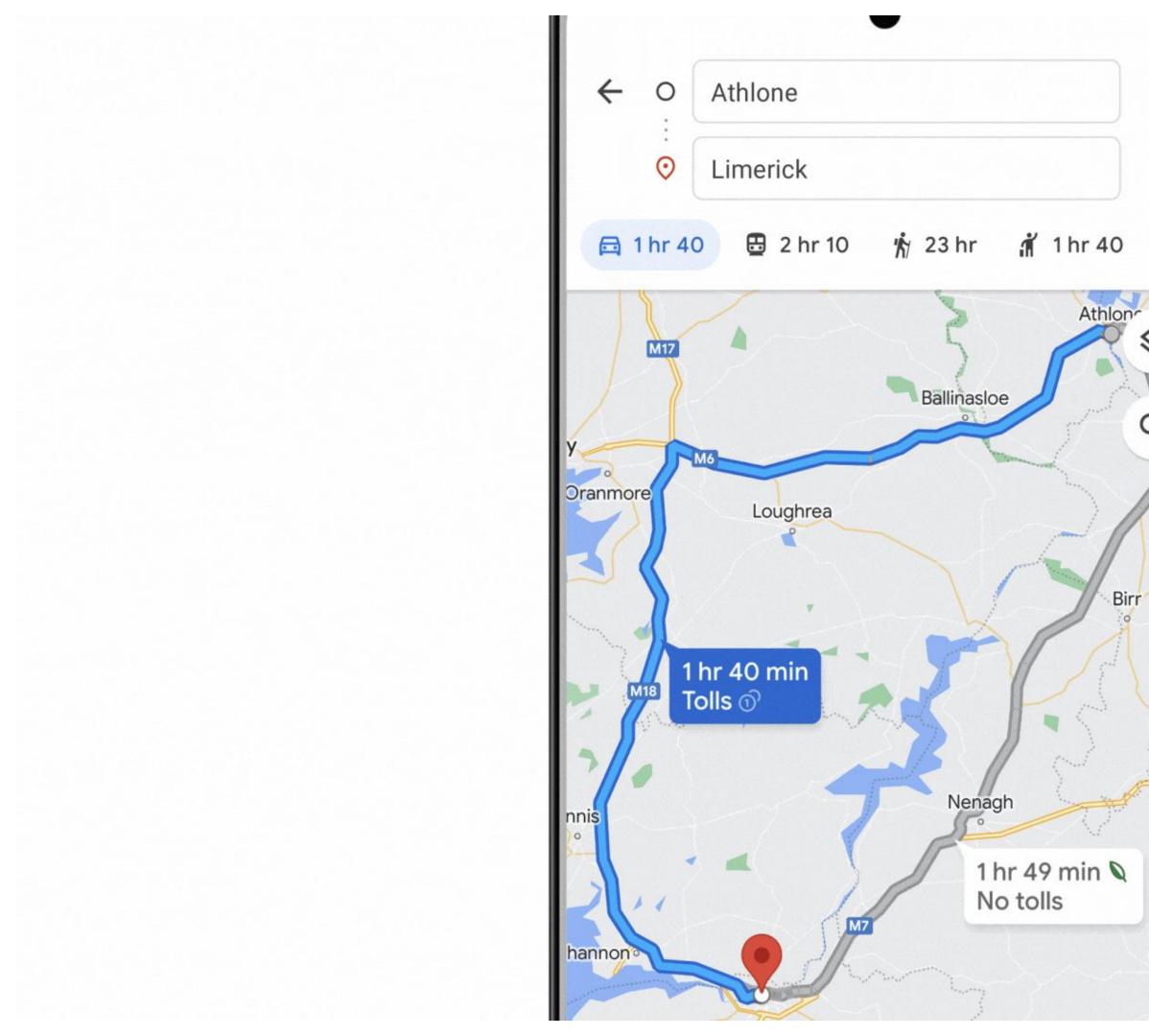
#### Every hour of electricity use at Finland data center in 2017

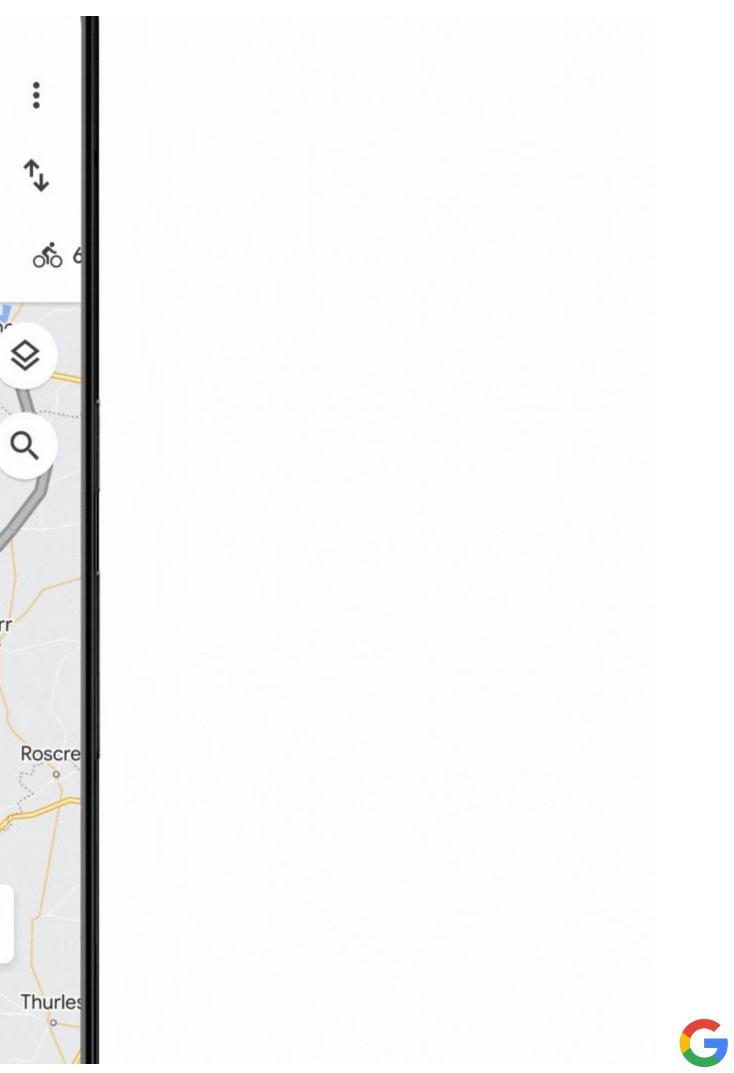




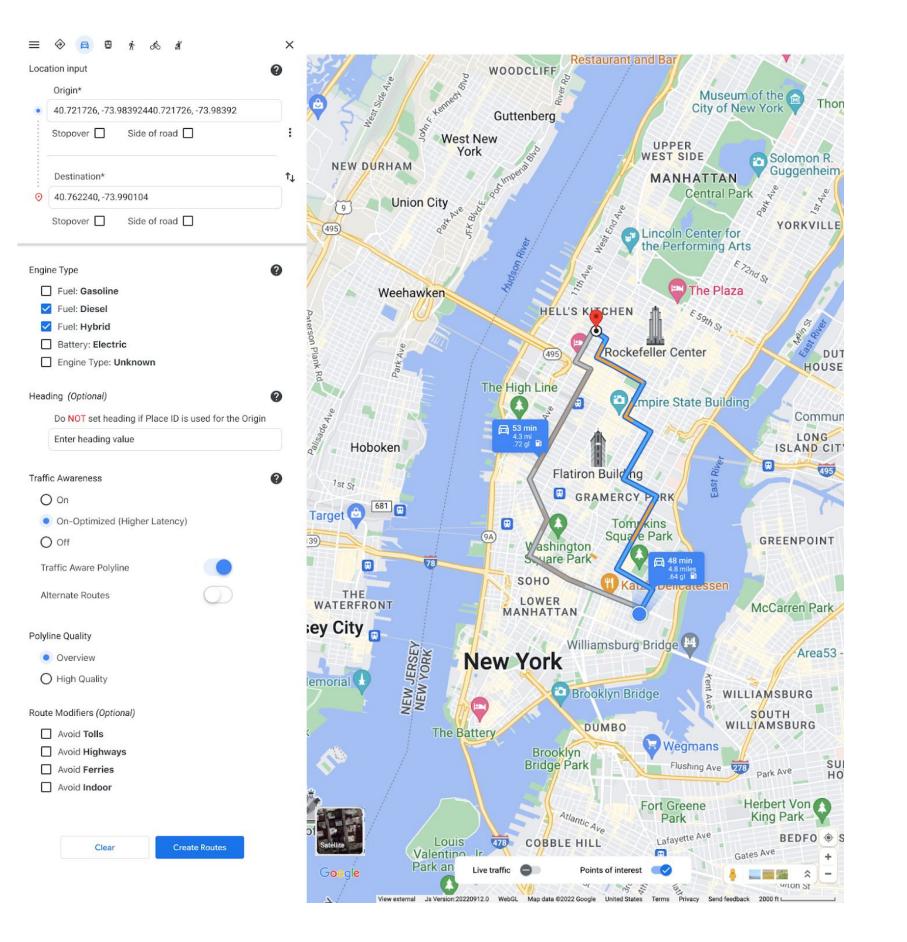
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#### **Mobility API's**



- $\bullet$

Average fuel or energy consumption based on regionally representative vehicles per engine type (petrol or gas, diesel, hybrid, or electric)

Steepness of hills on your route

Stop-and-go traffic patterns

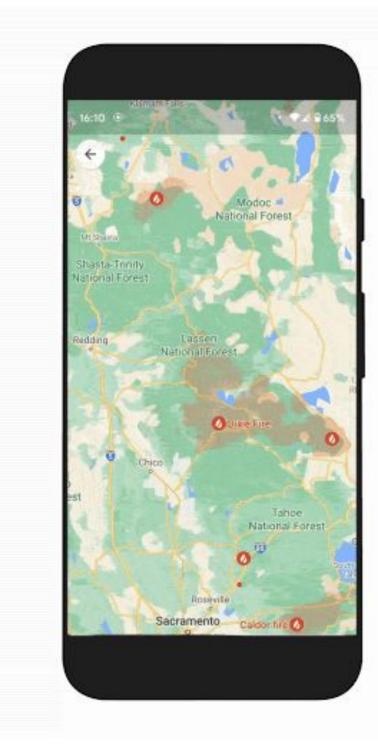
Types of roads (such as local roads or highways)















### Earthquake: Expect shaking - Est mag 4.9, ~38.6 miles away









Sports Drug

anness,

an Fride

-

Date Sid, KOAA, U.S. Navy, NGA, GEDCO Image: Skish-PCoperateur Dita MRAR Dita LOED-Columb a, NSF, NOAA



### Tools for decision makers.





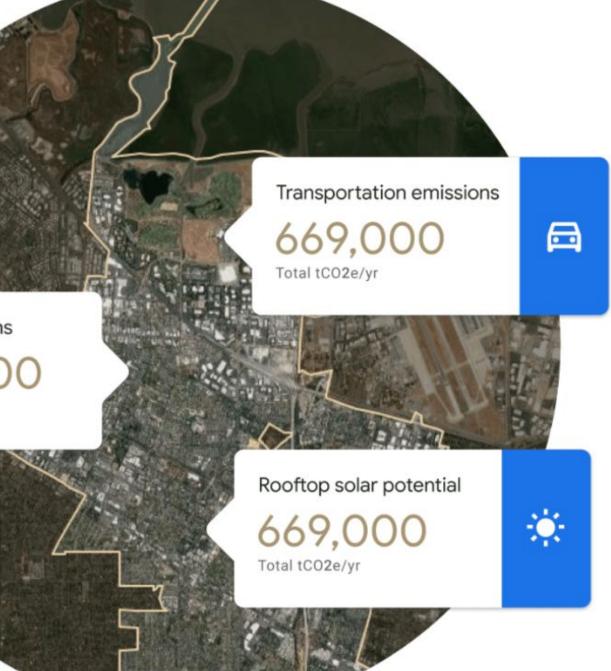


Environmental Insights Explorer (EIE) uses exclusive data sources and modeling capabilities in a freely available platform to help cities and regions measure emission sources, run analyses, and identify strategies to reduce emissions — creating a foundation for effective action.

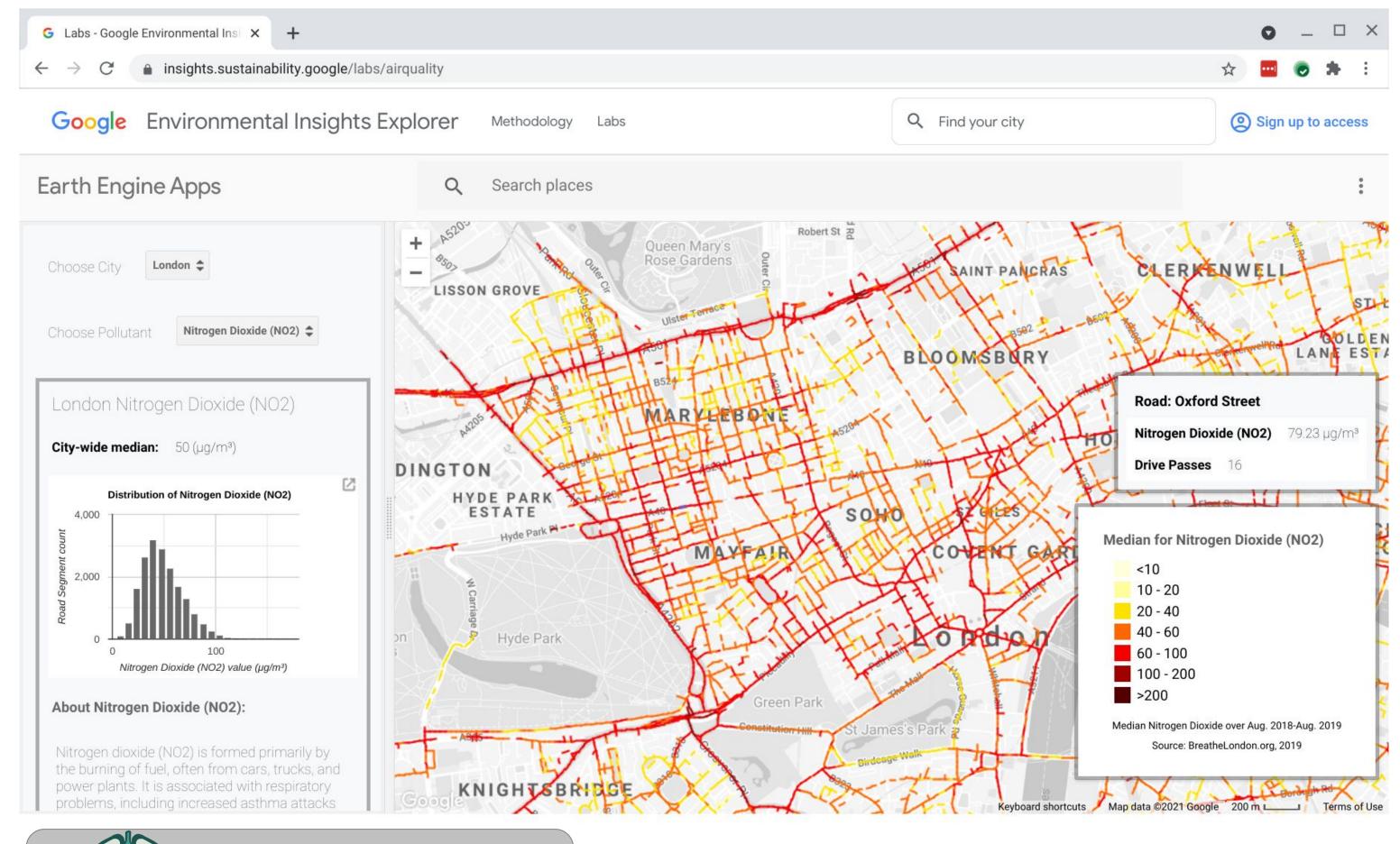






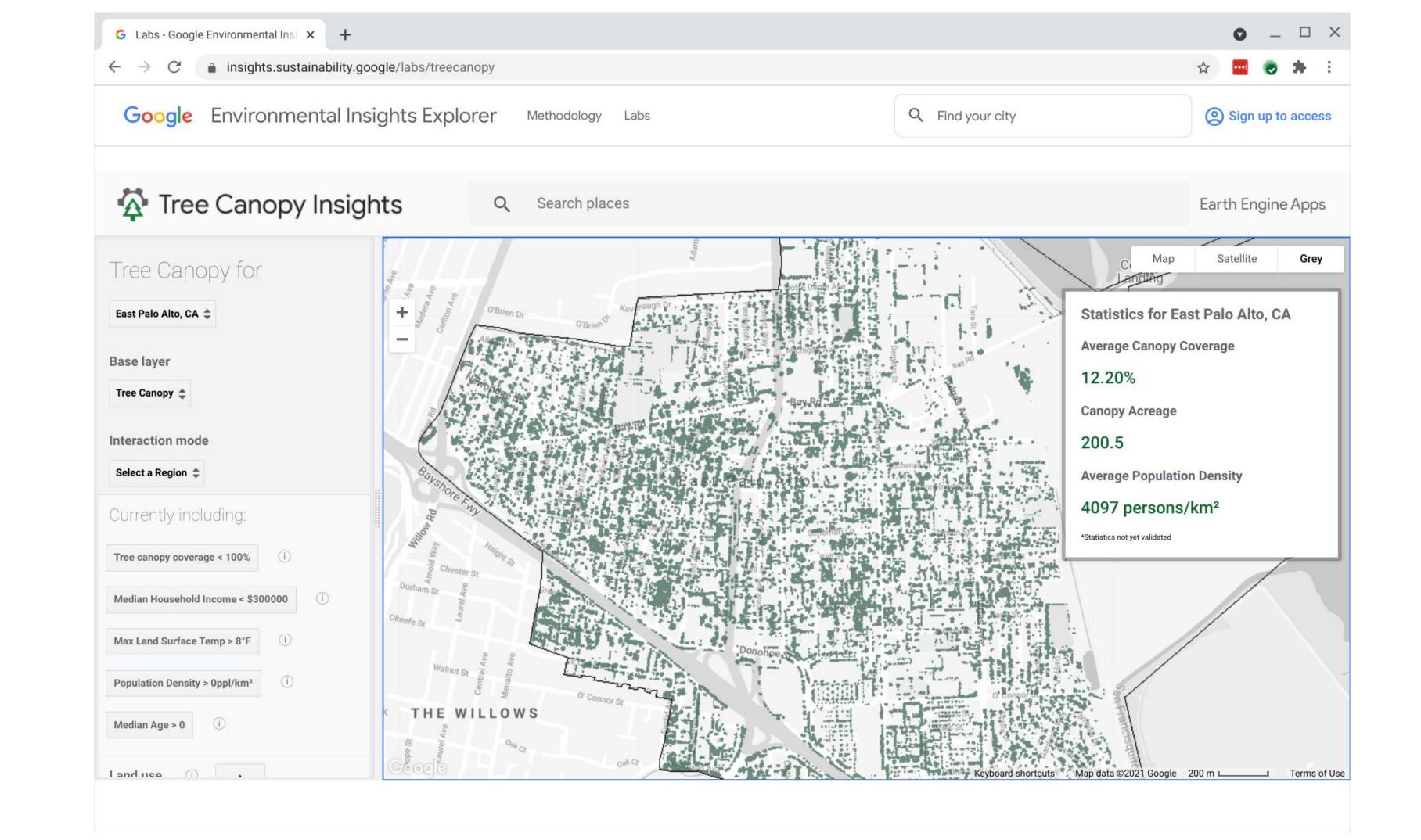






Breathe London the community sensing network





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### Thank you..



**Ed Parsons** Geospatial Technologist

eparsons@google.com www.edparsons.com



