



Shaping urban development toward a sustainable future



# AI for Earth

620

projects

90

countries



**Increase access** to cloud and AI technologies through grants

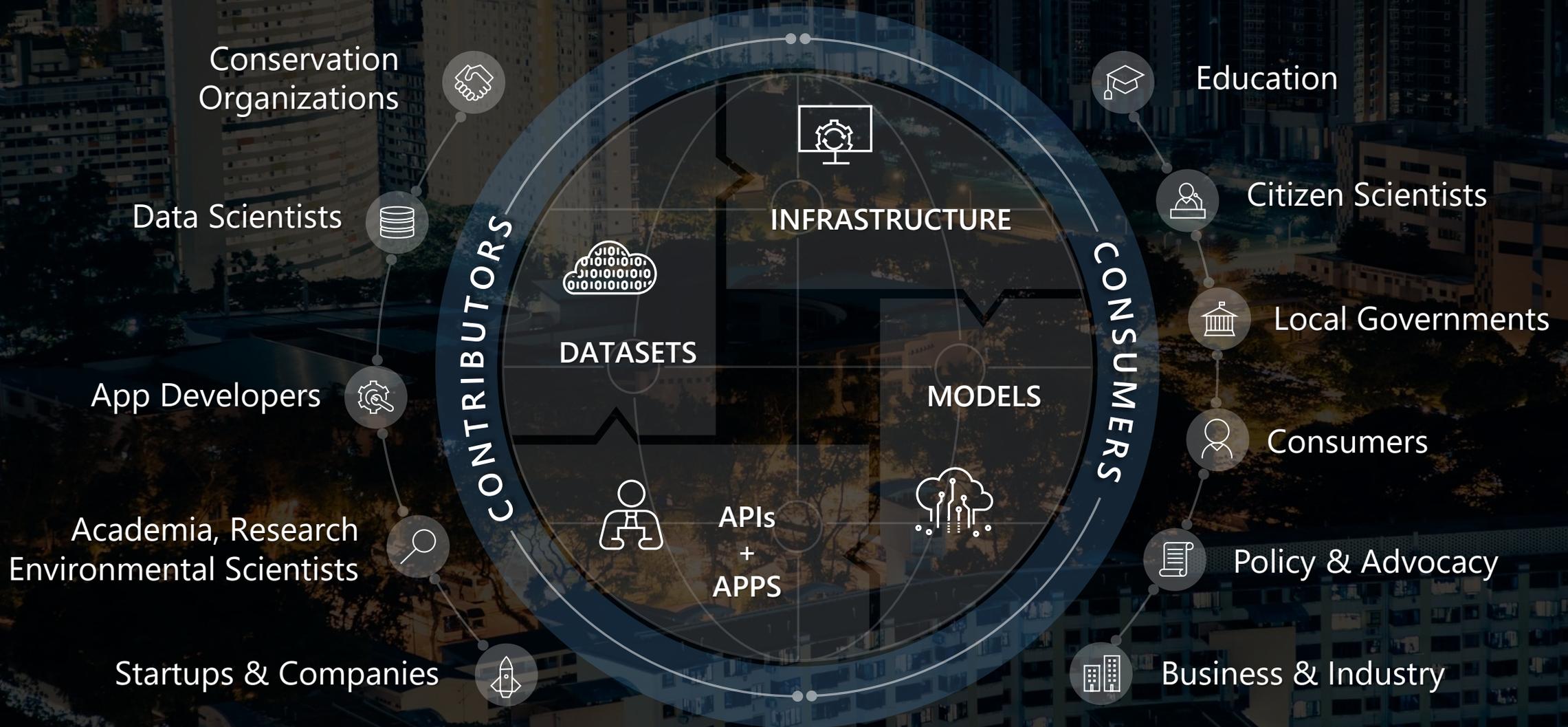


**Provide education** on cloud and AI and increase collaboration through our community



**Fuel innovation** through research and strategic partnerships

# Scaling ecological insights



# Scaling applications



**Classification**



**Forecasting**



**Planning**



**Attribution**

# Breeze Technologies

Applying AI to improve the accuracy of air quality measurements

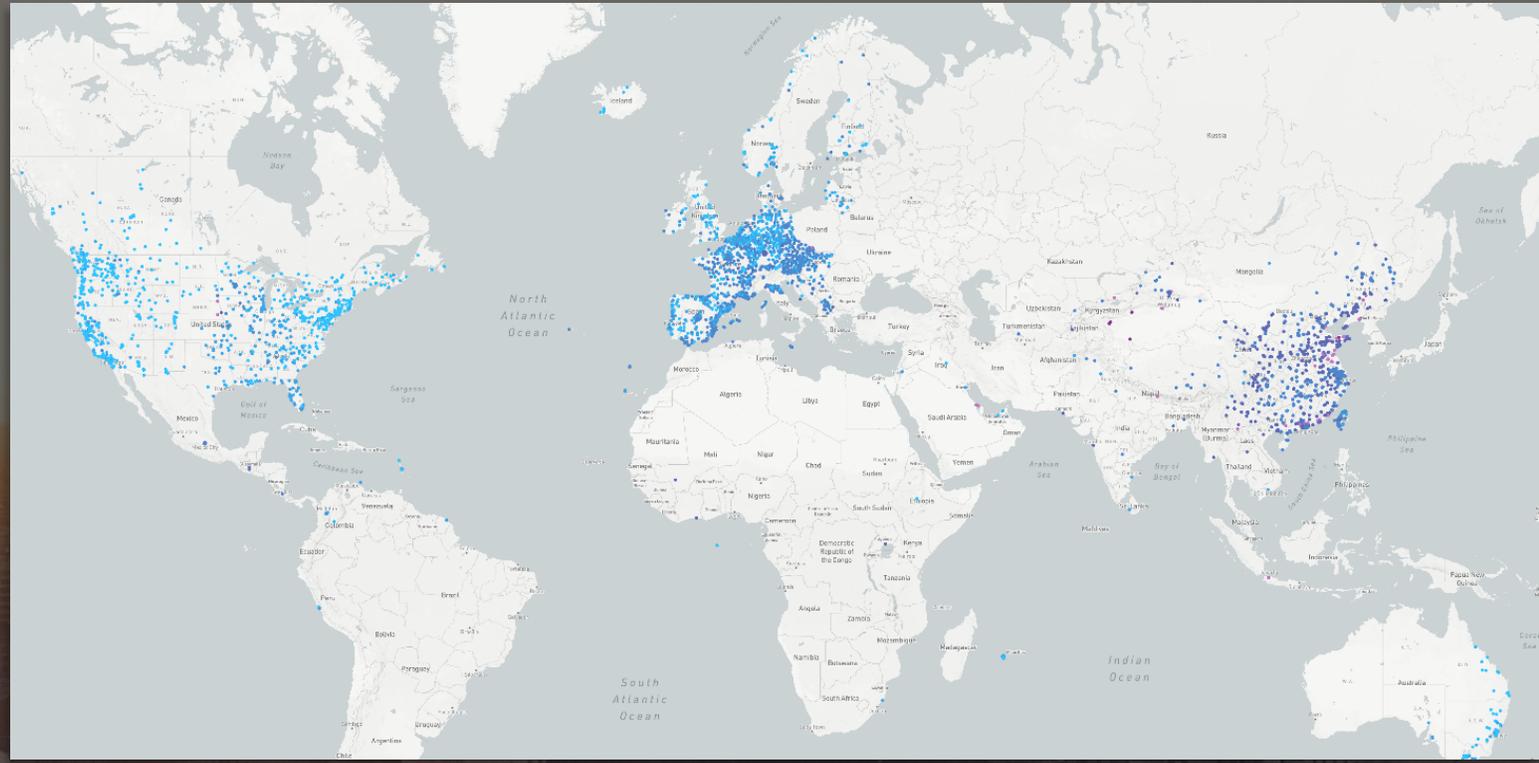
**10K** air quality stations

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**1M+** datasets per sensor

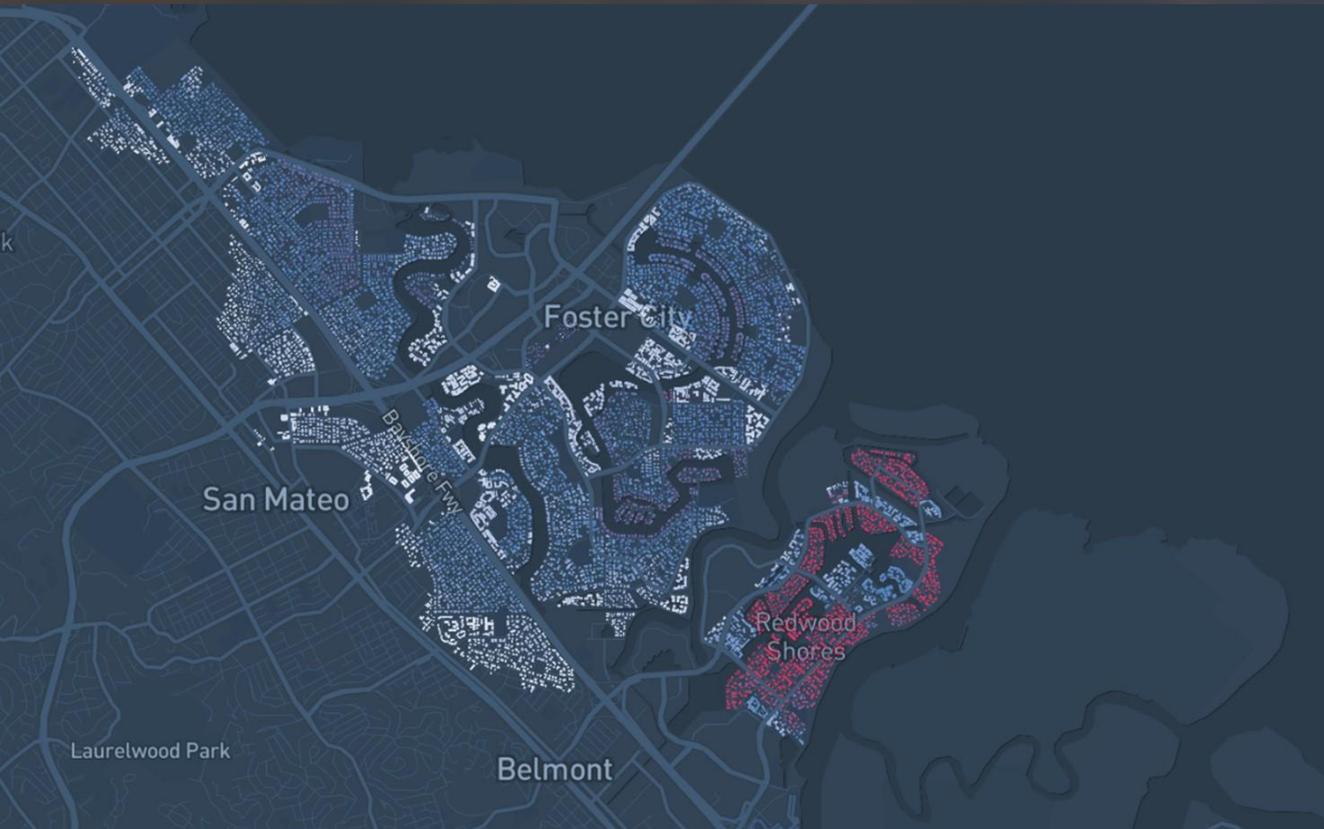
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**13** air quality indicators



# HighTide Intelligence

Implementing risk mitigation measures for sea level rise



Several coastal communities in San Mateo county in the San Francisco Bay area have inequity risks larger than 50%.

*Bick, Ian Avery & Santiago Tate, Adrian & Serafin, Katherine & Miltenberger, Alex & Evans, Max & Ortolano, Leonard & Ouyang, Derek & Suckale, Jenny. (2020). Rising seas, rising inequity? Communities at risk in the San Francisco Bay Area and implications for adaptation policy.*

# World Resources Institute

Reducing urban heat by mapping surface reflectivity

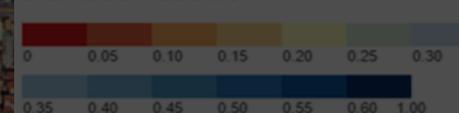


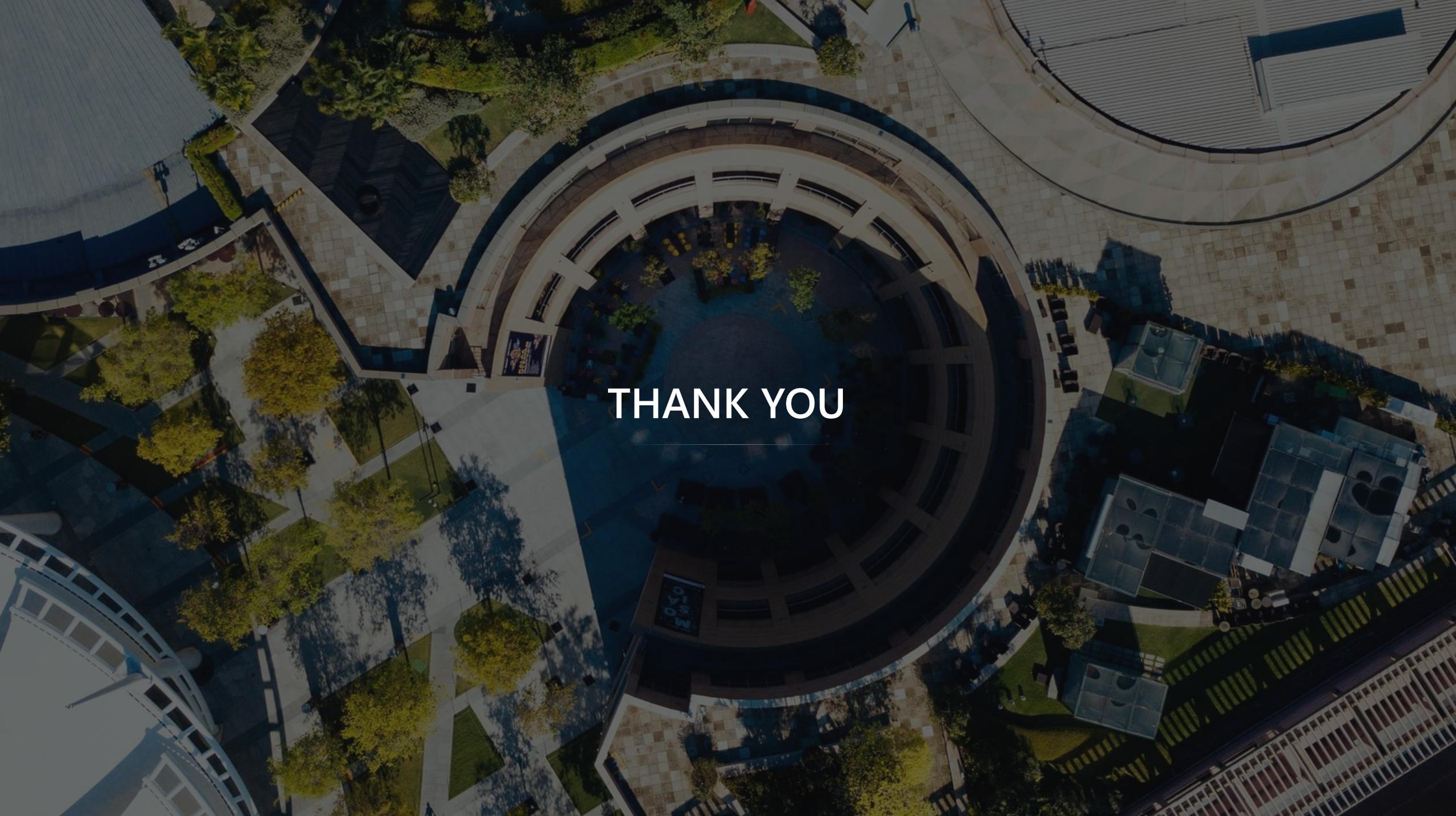
US-wide open source model  
visualizing surface reflectivity  
of buildings and roads



Time series results for  
two urban areas: LA  
and Kansas City

Surface Albedo



An aerial, top-down view of a modern architectural complex. The central focus is a large, circular building with a multi-tiered, curved facade. The interior of the building is visible, showing a central courtyard with a blue floor and some greenery. Surrounding the building are landscaped areas with green lawns, trees, and paved walkways. In the foreground, there are several glass-walled structures, possibly part of a transit station or a public space. The overall scene is well-lit, suggesting a bright day.

THANK YOU