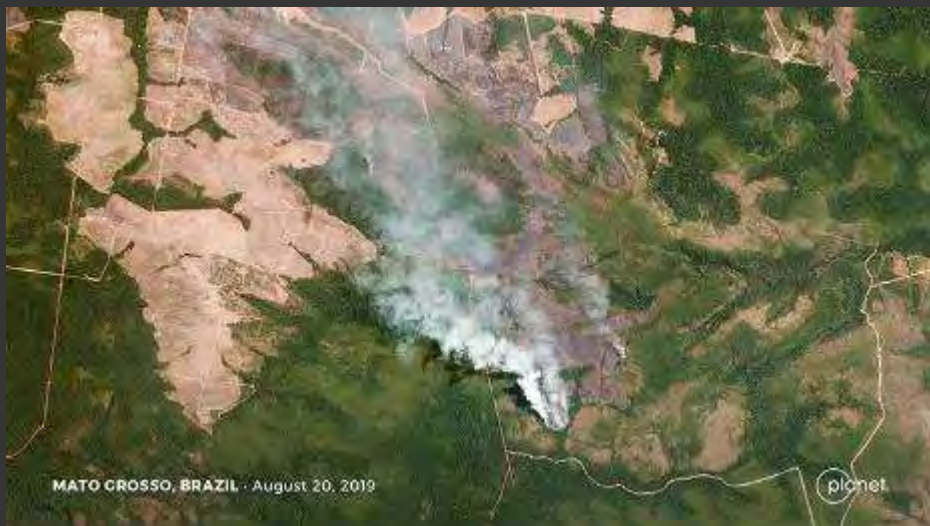


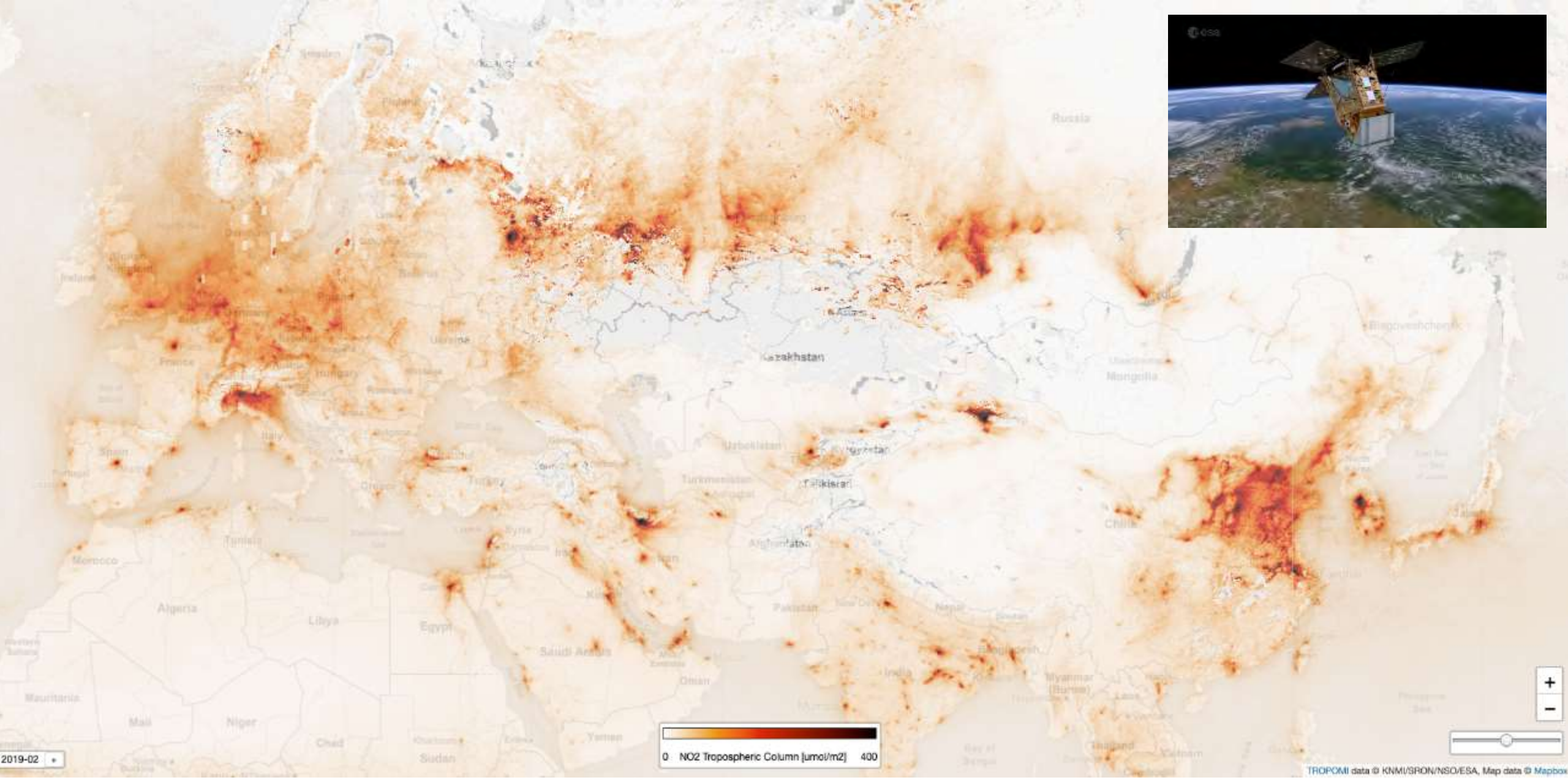


Satellite data for smart cities to
address climate action

Laia Romero

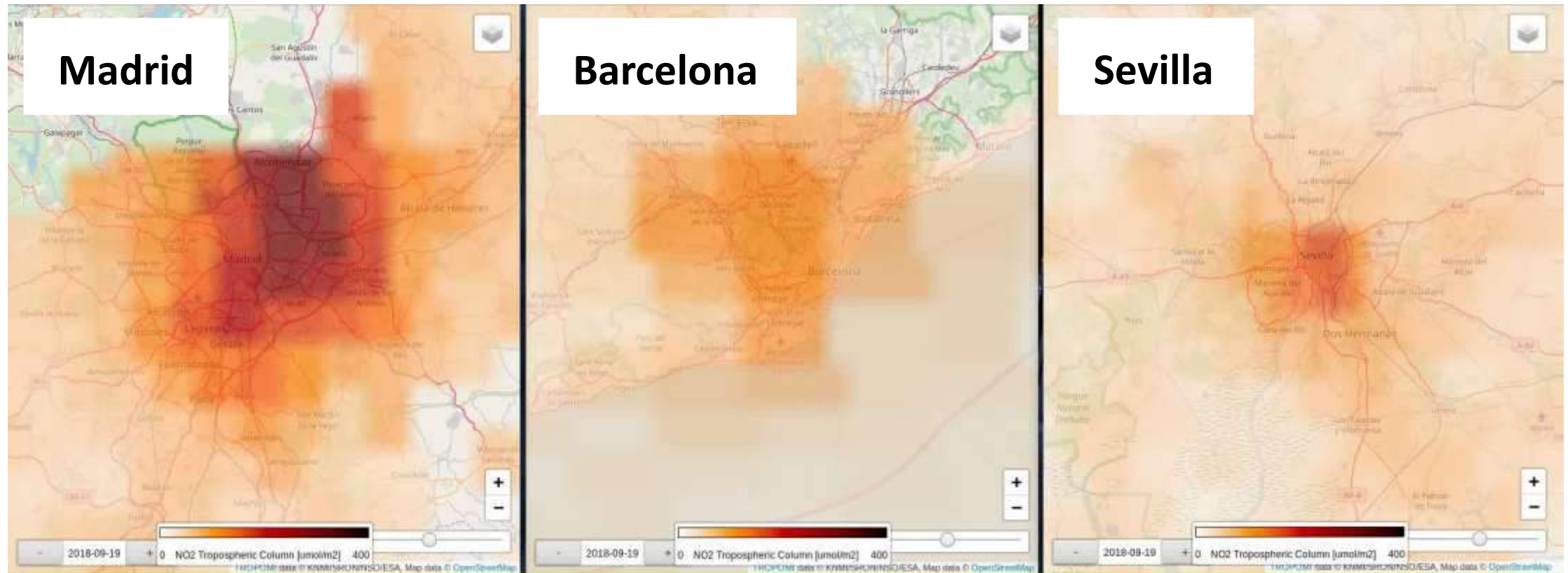
laia@lobelia.earth



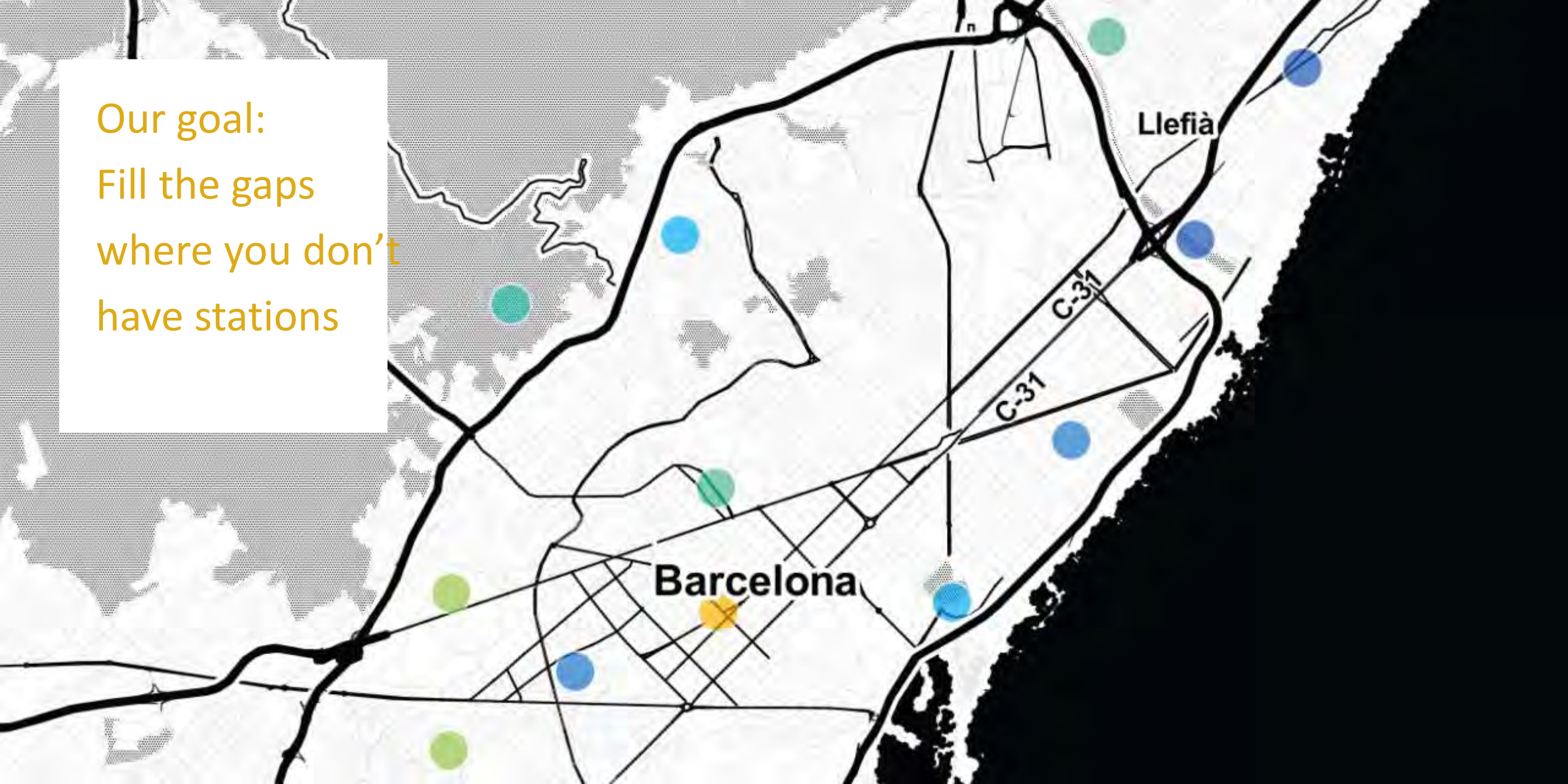


NO₂ variability

NO₂ concentrations over Spanish cities as seen by TROPOMI, 19 Sept – 7 Oct 2018



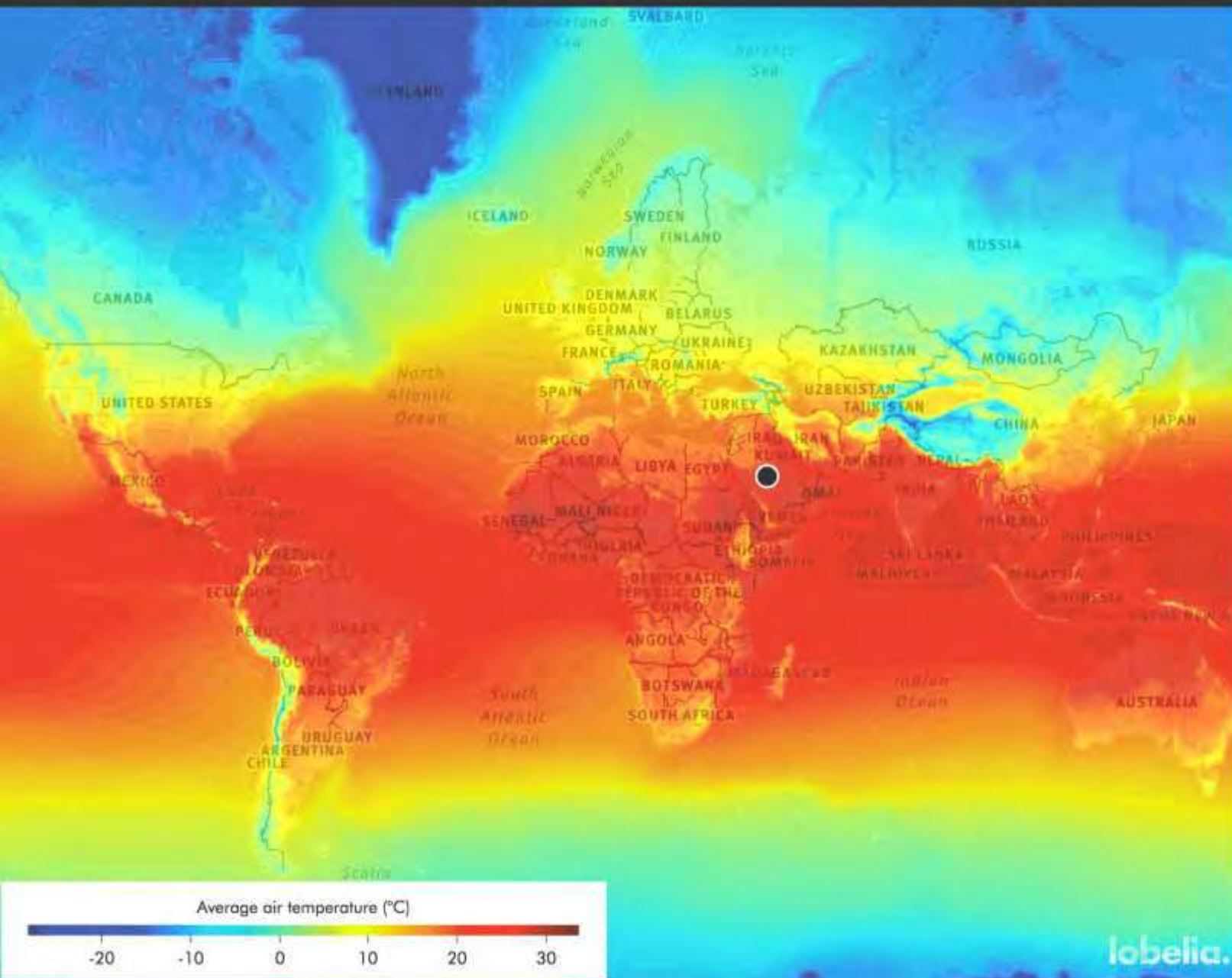
Our goal:
Fill the gaps
where you don't
have stations



November 2018
29th - 18h



Vulnerability to climate emergency and how to address it



Past Climate Explorer

Source: ERA5 dataset, 1981-2010

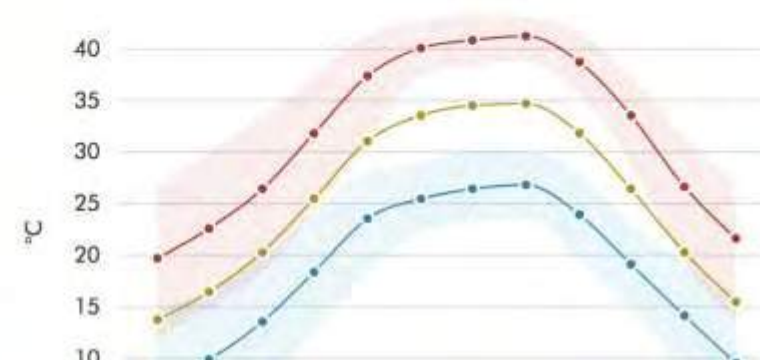
Choose a climate parameter to show on the map:
average air temperature ▼ as well as an aggregation
period: **year (average)** ▼

Dawadmi

Click/tap on the map or manually edit the location's
coordinates: lon: **43.984** lat: **24.841**

Air temperature

Monthly average temperatures range from 14 °C (January)
to 35 °C (August). Yearly average temperature is 25 °C.



The need for climate data in urban environments



Try the demo: the best data available at urban scale >

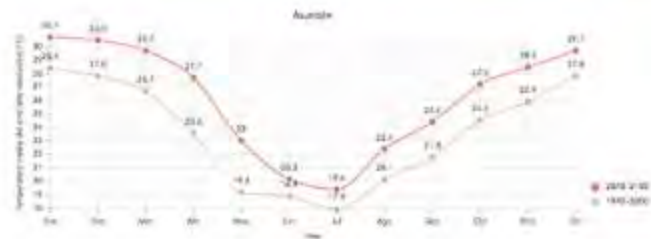
Asunción



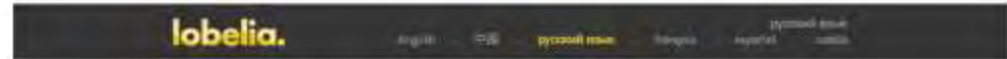
Tendencias climáticas en Asunción ▾

Temperatura media del aire (alta resolución) *
Promedio mensual de la temperatura media diaria del aire a 2 m de altura.

Escenario de emisiones: **RCP 8.5** * Mes: **Promedio** * Eje: **Una al lado del otro** *



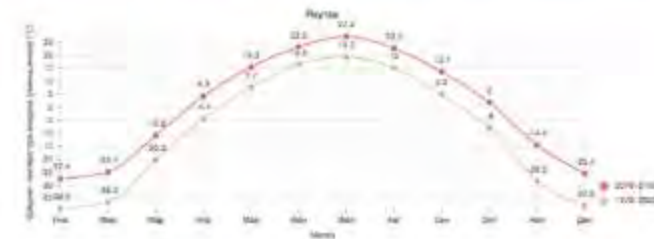
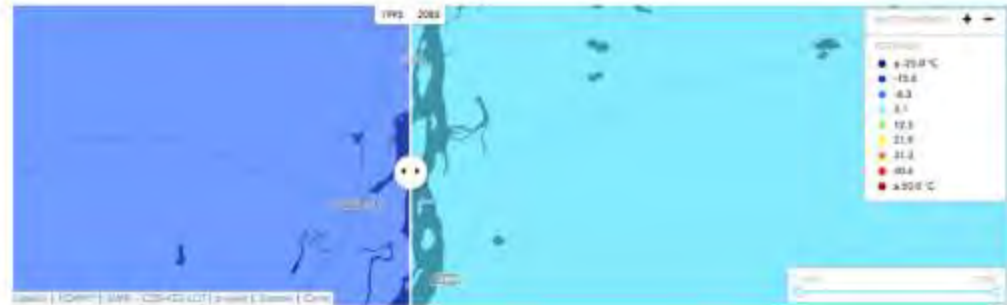
Yakutsk



Климатические тенденции в Якутск ▾

Средняя температура воздуха (уменьшенная) *
Среднемесячная среднесуточная температура воздуха на высоте 2 м.

Сценарий выбросов: **RCP 8.5** * Месяц: **Средний** * Статус: **Box o box** *



Assessment with key messages



Increasing frequency of hot days/nights and heat waves



Increasing heat-health impacts

lobelia.

by isardSAT[©]

www.lobelia.earth

Gràcies

Novembre 2019 | Barcelona