

After COVID-19: Design for Health and Resilience

April 30, 2020

Joan Saba
Partner

nbbj



—
What's Next In Academic
Medical Centers

—
Synergy of Clinical Care,
Research and Teaching

—
Power of Multidisciplinary Teams

—
Patient and Family Agency

—
Healing the Whole Body

—
Designing for Performance



Massachusetts General Hospital, Lunder Building
Boston, MA

designing spaces for experience

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designing and public health

American University Medical Center in Beirut
Beirut, Lebanon



AVOID GATHERINGS
REDUCE CROWDING
WASH YOUR HANDS

a level playing field



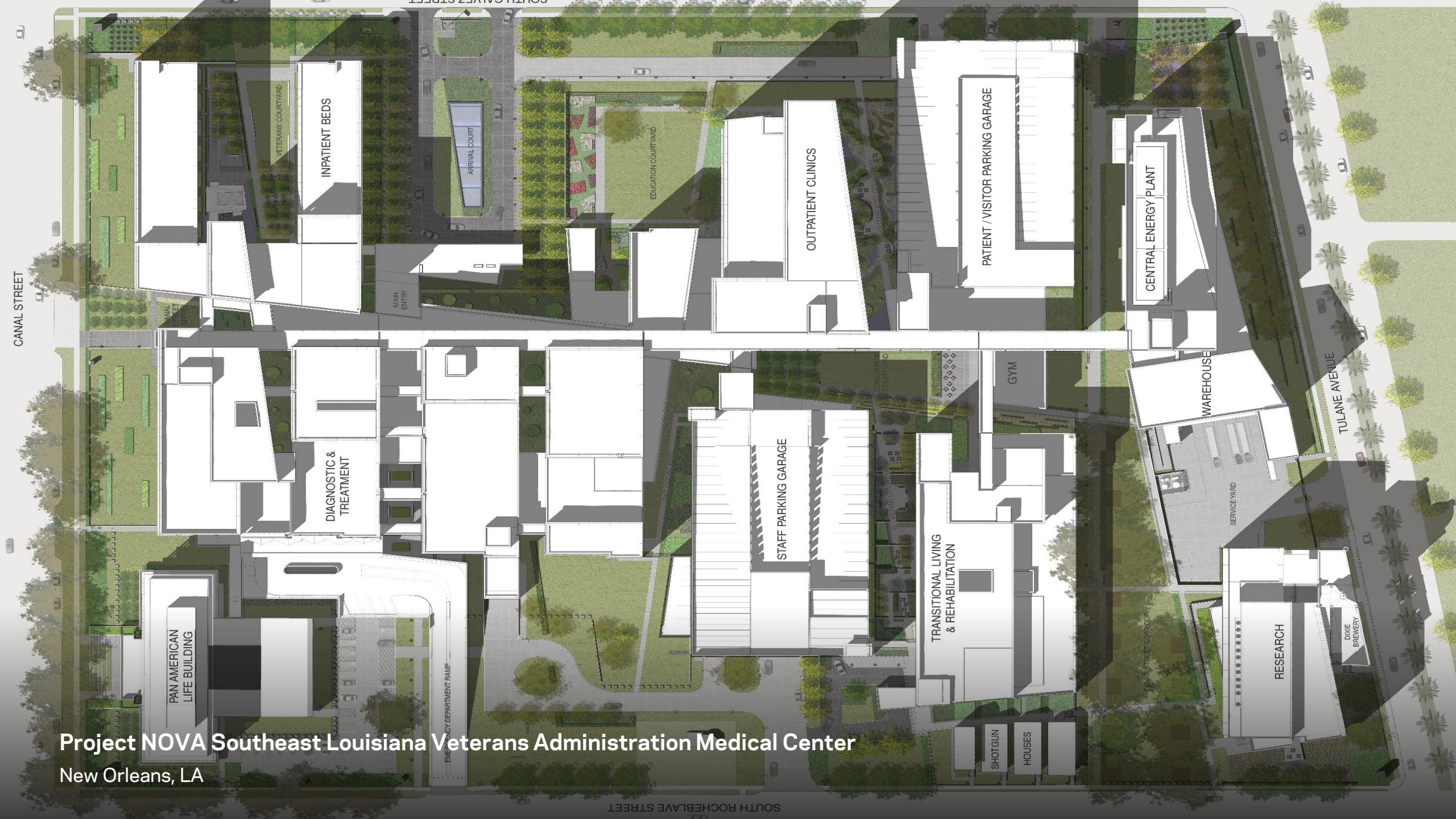
Image: Rudy Widjaja



Image: Penn Medicine

EMERGENCY

designing spaces for experience



Project NOVA Southeast Louisiana Veterans Administration Medical Center
New Orleans, LA

PAN AMERICAN
LIFE BUILDING

DIAGNOSTIC &
TREATMENT

INPATIENT BEDS

OUTPATIENT CLINICS

PATIENT / VISITOR PARKING GARAGE

CENTRAL ENERGY PLANT

WAREHOUSE

RESEARCH

DIVE
BREVERY

SHOTGUN
HOUSES

TRANSITIONAL LIVING
& REHABILITATION

STAFF PARKING GARAGE

GYM

EDUCATION COURTYARD

VETERANS' COURTYARD

EDUCATION COURTYARD

APPRIVAL COURT

MAIN ENTRY

CANAL STREET ENTRY

EMERGENCY DEPARTMENT RAMP

SERVICE YARD

SHANKS STREET CORRIDOR

CONCOURSE COURTYARD

TULANE AVENUE

SOUTH ROCHEBLAVE STREET

CANAL STREET



University Medical Center
New Orleans, LA



A photograph showing three healthcare workers in full blue protective suits, including hoods and face shields, embracing each other in a group hug. The workers are wearing white gloves and appear to be in a clinical setting. The text "sharing our humanity" is overlaid in white on the image.

sharing our humanity

Thank You MGH Healthcare Heroes



Image: Massachusetts General Hospital / Instagram

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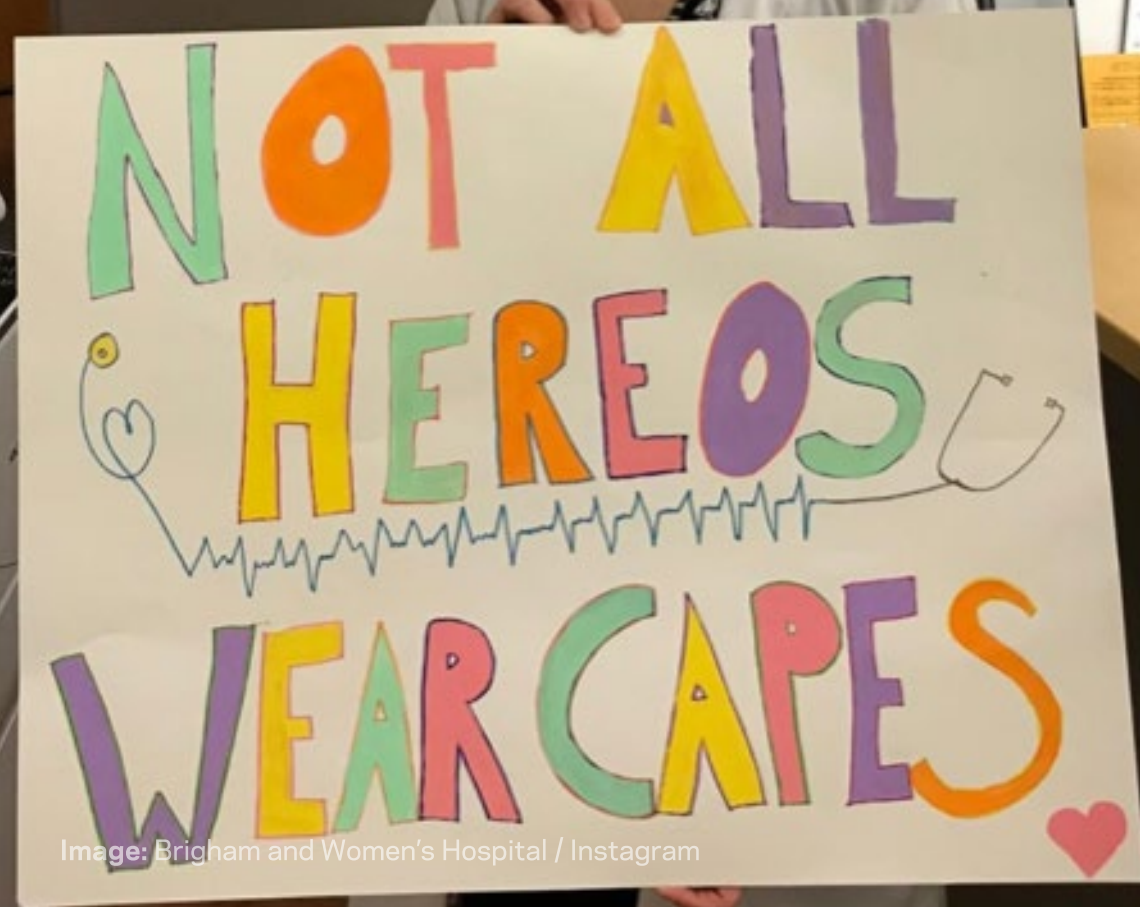


Image: Brigham and Women's Hospital / Instagram



designing spaces for
gratitude



designing spaces to live
comfortably with a pandemic



resiliency



Image: Sajjad Hussain / AFP / Getty Images



resiliency



Image: Kim Bello



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human resiliency

Image: Brigham and Women's Hospital / Instagram



Image: Massachusetts General Hospital / Instagram

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Image: Boston Medical Center / Instagram

human resiliency



wellness resiliency

**NYU Langone Health,
Helen L. and Martin S. Kimmel Pavilion
New York, NY**



**Mount Sinai Health,
Health Center at Hudson Yards
New York, NY**

A 3D architectural rendering of a hospital ward, showing a large room with multiple hospital beds, tables, and chairs. The room is divided into several sections by white walls. The beds are arranged in rows, and there are several tables and chairs scattered throughout the room. The overall design is clean and modern, with a focus on functionality and efficiency. The text "material resiliency" is overlaid in the center of the image.

material resiliency

**NBBJ Plan for Prefabricated Augmentation of
US Army Corps of Engineers A2HC Concept**



mutual resiliency

mutual resiliency



Thank you



After COVID-19: (Re)Building Resilient Cities

What do we need next from city leaders?

Katharine Lusk

Co-Director

BU Initiative on Cities

First... a reality check. Municipal layoffs and service cuts are coming

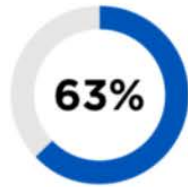
PUBLIC SERVICES WILL BE IMPACTED BY THE ECONOMIC STRAIN OF COVID-19.



of municipalities <50,000 are anticipating having to cut public services.



of municipalities 200k-499,999 are anticipating having to cut public services.



of municipalities 50k-199,999 are anticipating having to cut public services.



of municipalities 500,000+ are anticipating having to cut public services.

MORE THAN **HALF** OF ALL CITIES OF ALL ALL SIZES REPORTED THAT POLICE WILL BE AFFECTED.

CORONAVIRUS WILL HAVE A STAGGERING IMPACT ON ALL MUNICIPAL EMPLOYMENT.

THERE WILL BE FURLOUGHS



26% OF MUNICIPALITIES <50,000 will have to furlough their employees

55% OF MUNICIPALITIES 50K-199,999 will have to furlough their employees

54% OF MUNICIPALITIES 200K-499,999 will have to furlough their employees

59% OF MUNICIPALITIES 500,000+ will have to furlough their employees

AND THERE WILL BE LAYOFFS

26% OF MUNICIPALITIES <50,000 will have to lay off their employees

36% OF MUNICIPALITIES 50K-199,999 will have to lay off their employees

39% OF MUNICIPALITIES 200K-499,999 will have to lay off their employees

47% OF MUNICIPALITIES 500,000+ will have to lay off their employees



CONFRONT GRIEF TOGETHER



Martin Sean

Lingzi Lingzi
Kryxstle

Boston





**MAKE SPACE
FOR PEOPLE**

Yonge Street



#streets4p

<https://twitter.com/theurbangeog>

<https://usa.streetsblog.org/2020/04/15/the-social-distancing-machine-proves-we-need-wider-sidewalks-now/>

Milan, Italy – Streets for People

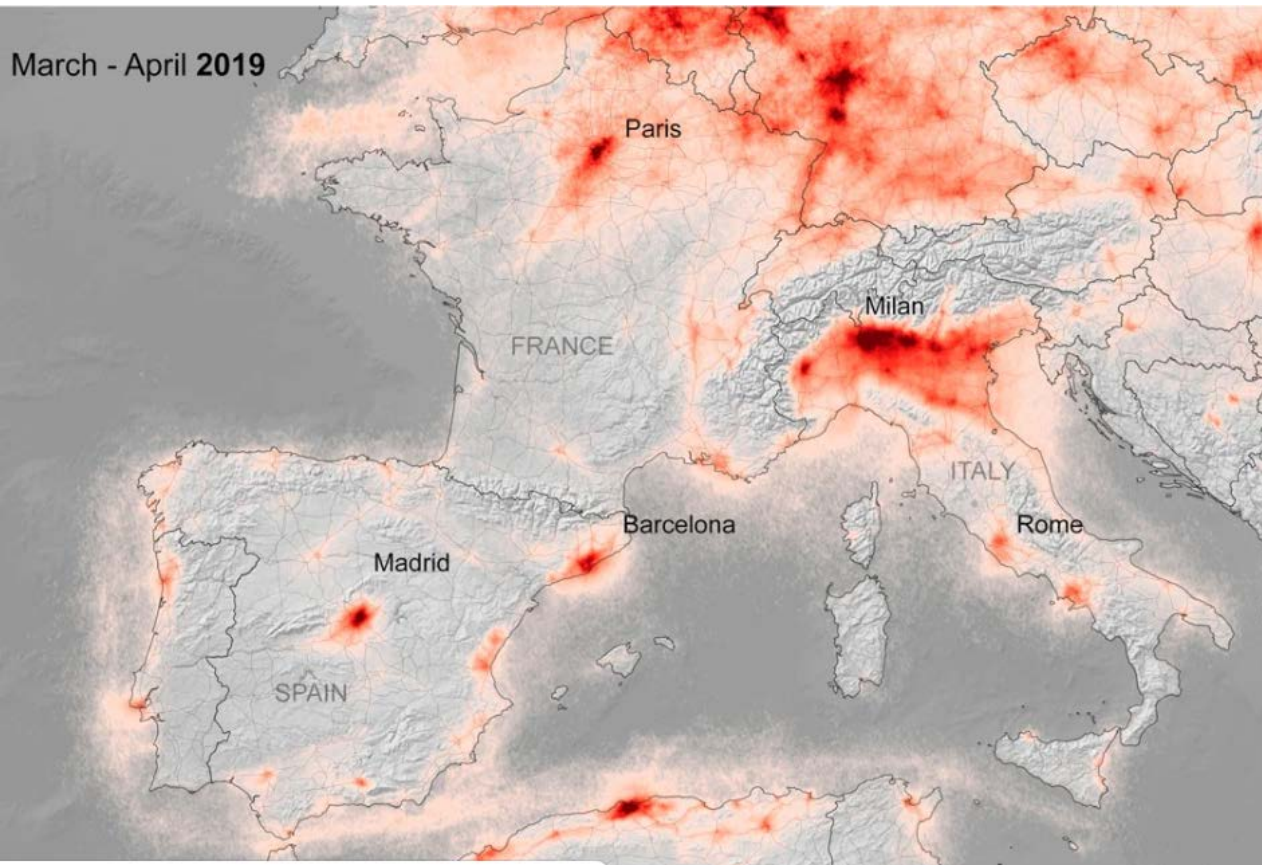


MAKE SPACE FOR PEOPLE

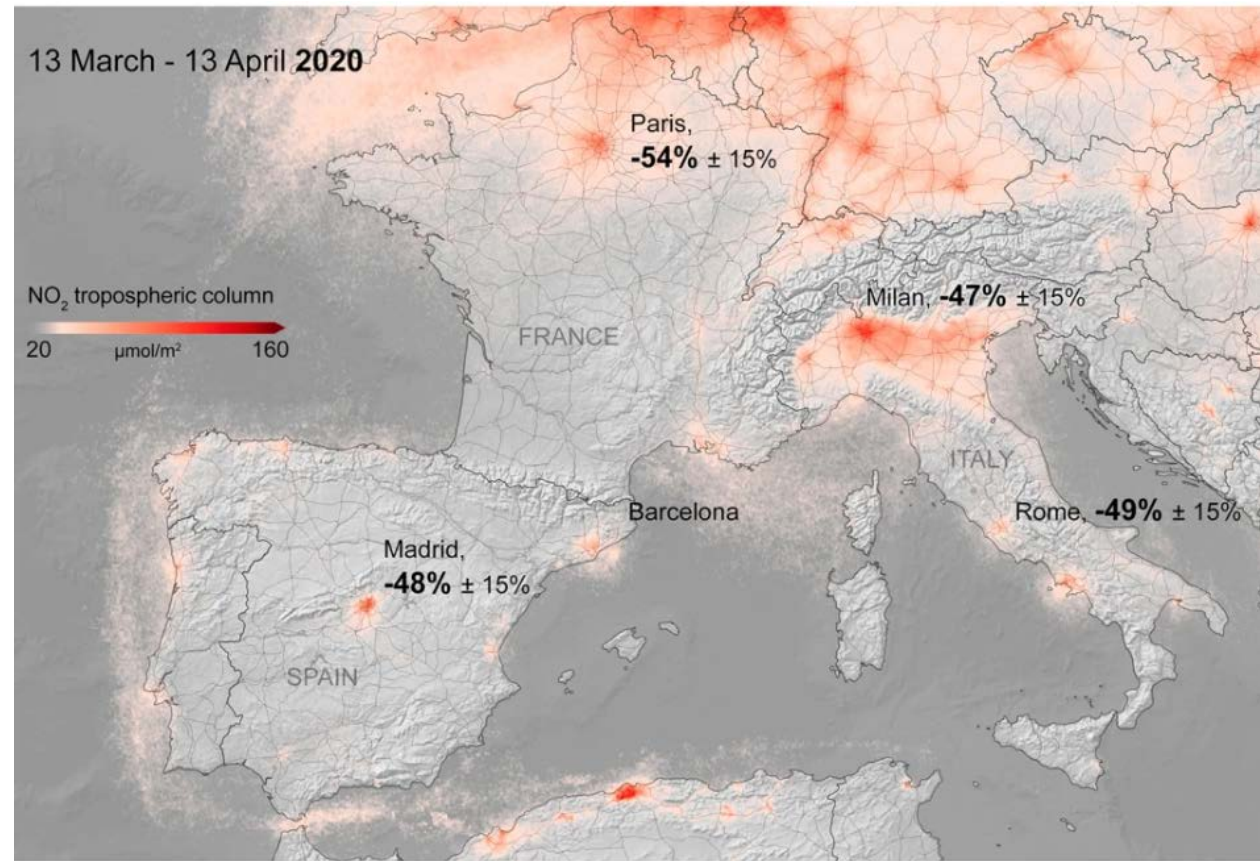
- Create space for people. Widen sidewalks, create new dedicated bike lanes and bus lanes, increase transit frequency, devote more space to open air markets, continue select street closures – especially in neighborhoods at greatest risk.
- Survey residents *and* health officials to understand both risk & anxiety – which residents feel vulnerable and where? E.g. Commuting, shopping
- Recognize employers for formalizing work from home policies, staggering work hours, investing in bike parking, EV charging; Model these policies at City Hall.
- Make home a healthy space – anticipate summer heat waves and cold snaps. Invest in energy assistance, home energy audits

CLEAR THE AIR

2019



2020



CLEAR THE AIR

- Invest in green infrastructure - Put trees where they aren't and protect what you have.
- Keep decarbonizing – buildings, transit, municipal fleets
- Make active transit and e-mobility options more widely accessible - not just EVS, but also e-bikes, scooters. Engage and educate diverse communities on routes, rules, resources
- Live local – “10 minute neighborhoods”. Zoning that allows for mixed use, walkable/bikeable streets

**COMMUNICATE
AND
INSPIRE CONFIDENCE**

Katharine Lusk
Co-Director
Boston University Initiative on Cities
@Kathlusk
klusk@bu.edu