

Stanford | **ONLINE**

Stanford | **DOERR**
SCHOOL OF SUSTAINABILITY

Climate Innovation: Digital Technology for Sustainable Agriculture and Infrastructure Development

Rishee Jain
Stanford University

David Farnham
ClimateAi

Stanford | ONLINE

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford | ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability

Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability

Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability

Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability

Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability

Stanford | ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability

Stanford ONLINE

Earth. Climate. Society.

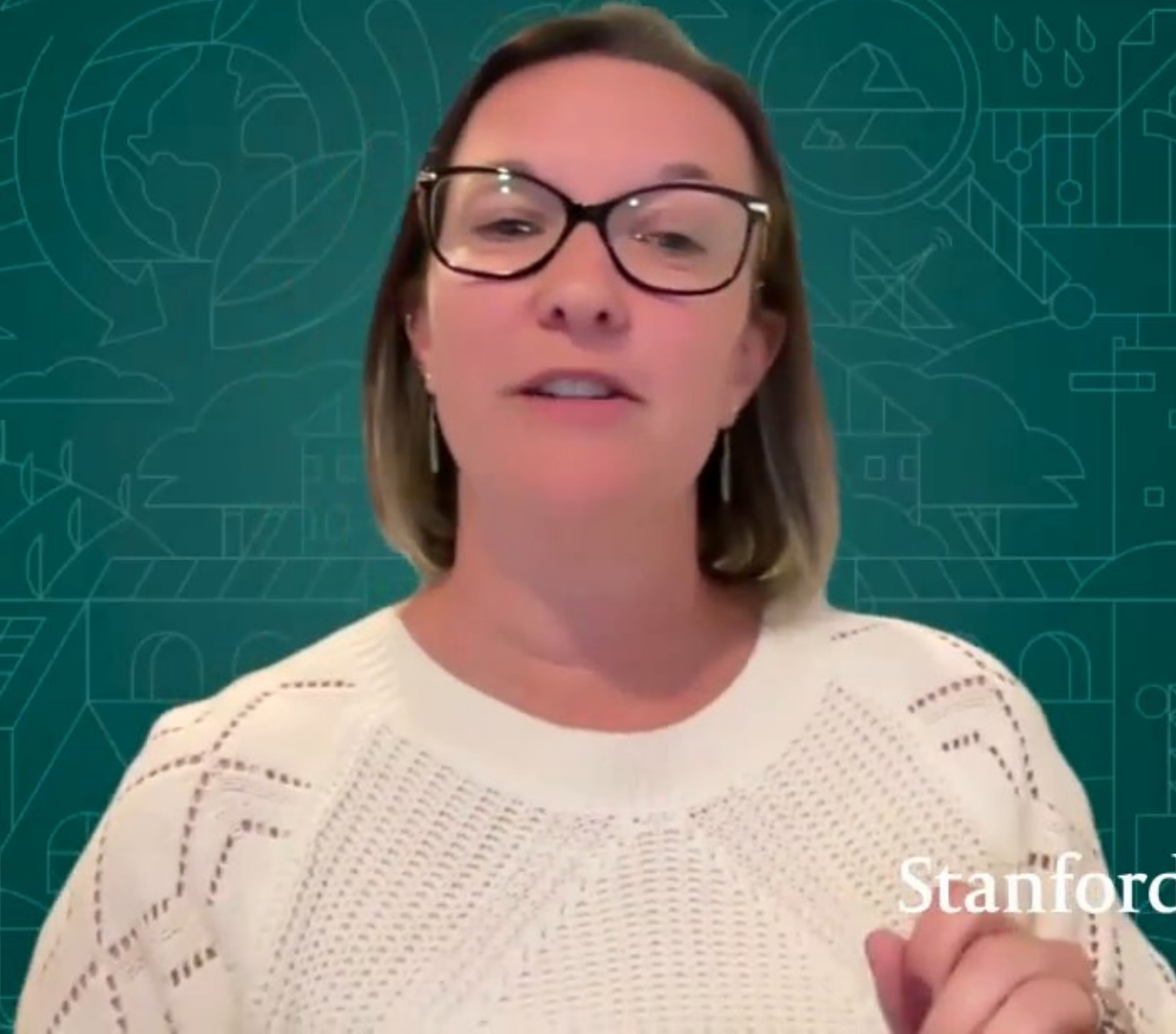
Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability

Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

AutoSave — Jain - SDSS webinar No Label — Saved to my Mac

Home Insert Draw Design Transitions Animations Slide Show Record Review View Acrobat

Comments Record Share

Parts Slides

1 Urban Informatics: Harnessing AI to understand people, buildings and energy systems

2

3

4

5

6

7

8

9

Stanford School of Engineering & Doerr School of Sustainability Civil & Environmental Engineering

STANFORD URBAN INFORMATICS LAB

Urban Informatics:
Harnessing AI to understand
people, buildings and energy systems

Rishee K. Jain
Assoc. Professor of Civil & Env. Eng.
Director, Urban Informatics Lab
Stanford University
rishee.jain@stanford.edu

Click to add notes

Side 1 of 22 English (United States) Accessibility: Investigate

Notes Comments

99%



Stanford | ONLINE



Urban Informatics:

Harnessing AI to understand people, buildings and energy systems

Rishee K. Jain

Assoc. Professor of Civil & Env. Eng.

Director, Urban Informatics Lab

Stanford University

rishee.jain@stanford.edu





Stanford | ONLINE

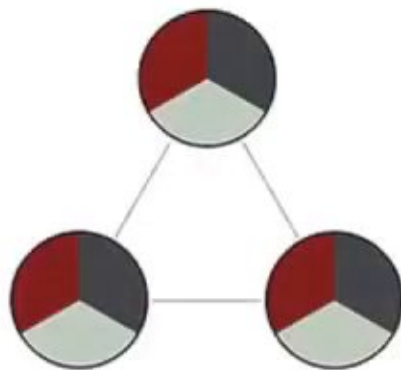


*We analyze data to understand interactions between
people, buildings and **energy** systems in cities.*

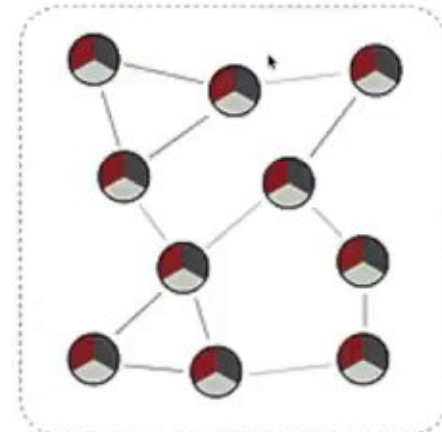
*We analyze data to understand interactions between **people**, **buildings** and **energy** systems in cities.*



Intra-building
dynamics



Community dynamics
(inter-building)



Urban-scale
dynamics

Our offices have changed...

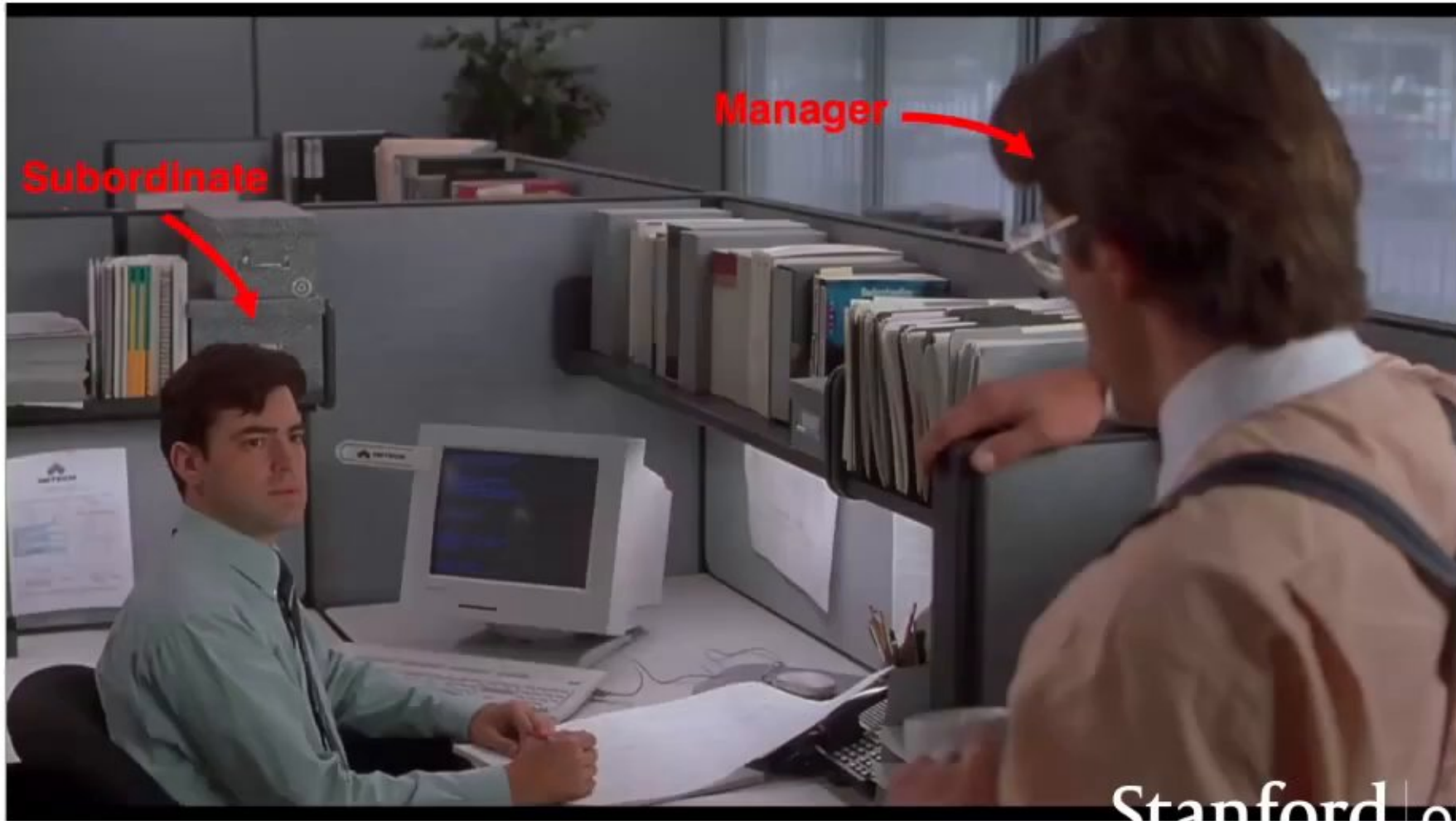


Image source: Office Space (1999), Judgmental Films

...for the better or worse?



Image source: Formaspace

COVID pandemic has taught us a few things

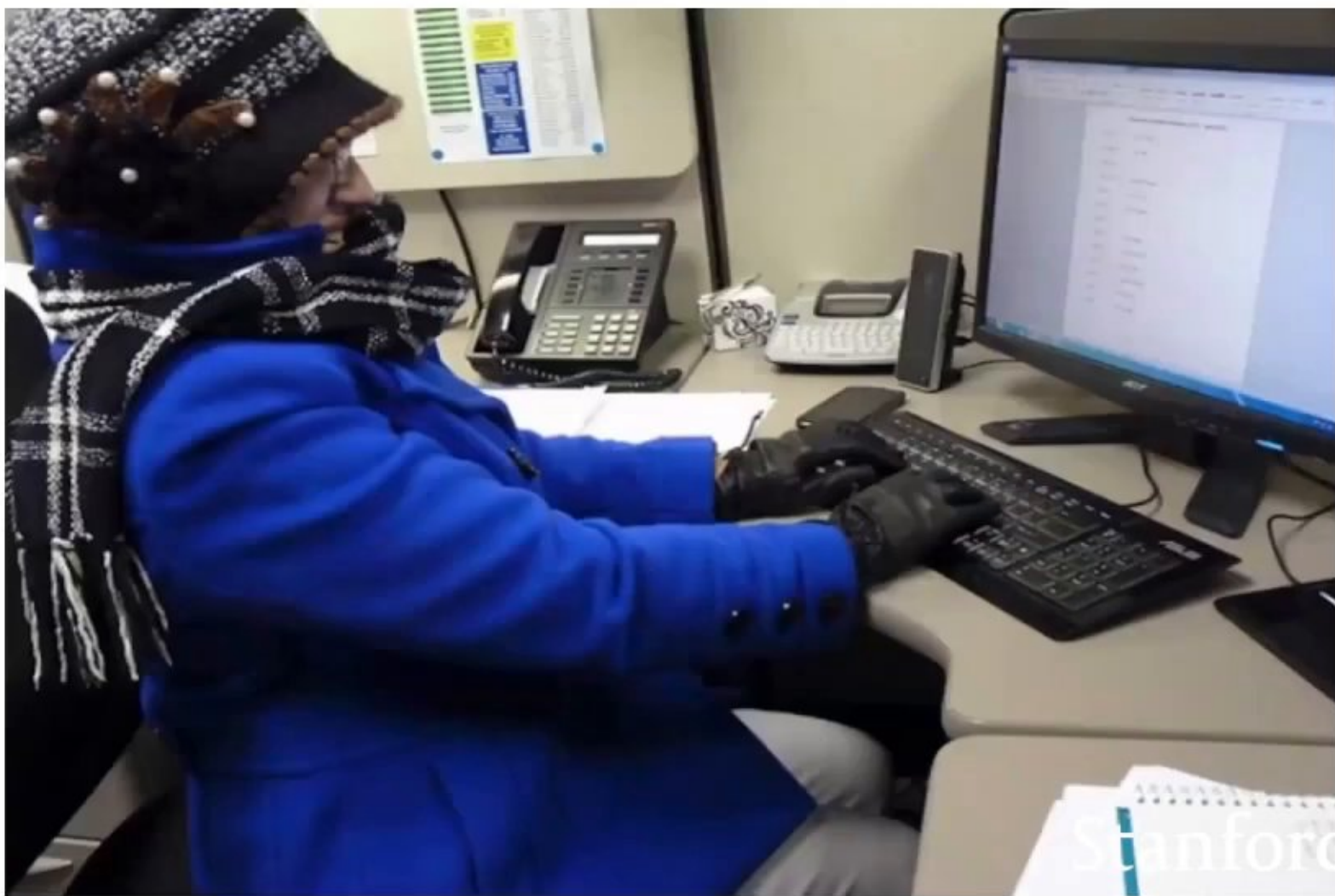


The effects of remote work
among information workers

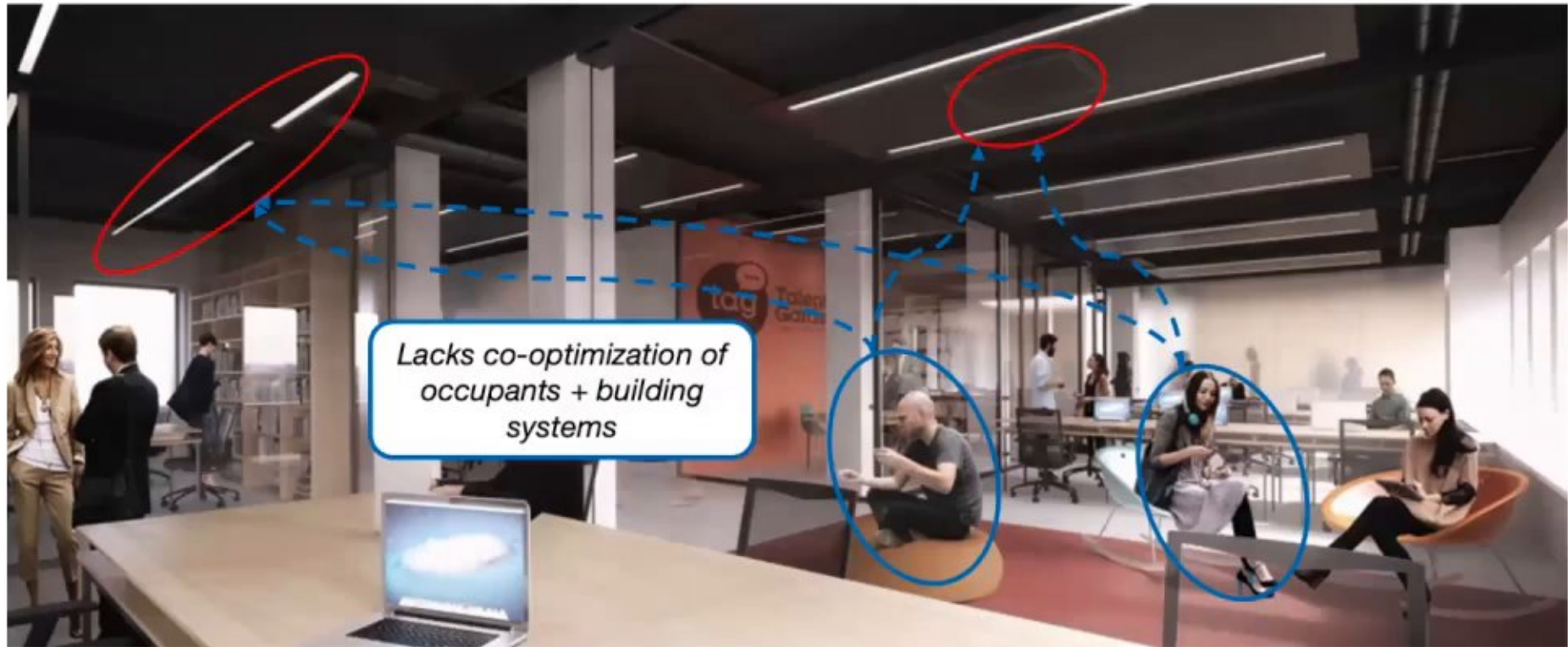
Our results show that firm-wide remote work caused the collaboration network of workers to become more static and siloed, with fewer bridges between disparate parts.



Offices had problems even pre-COVID

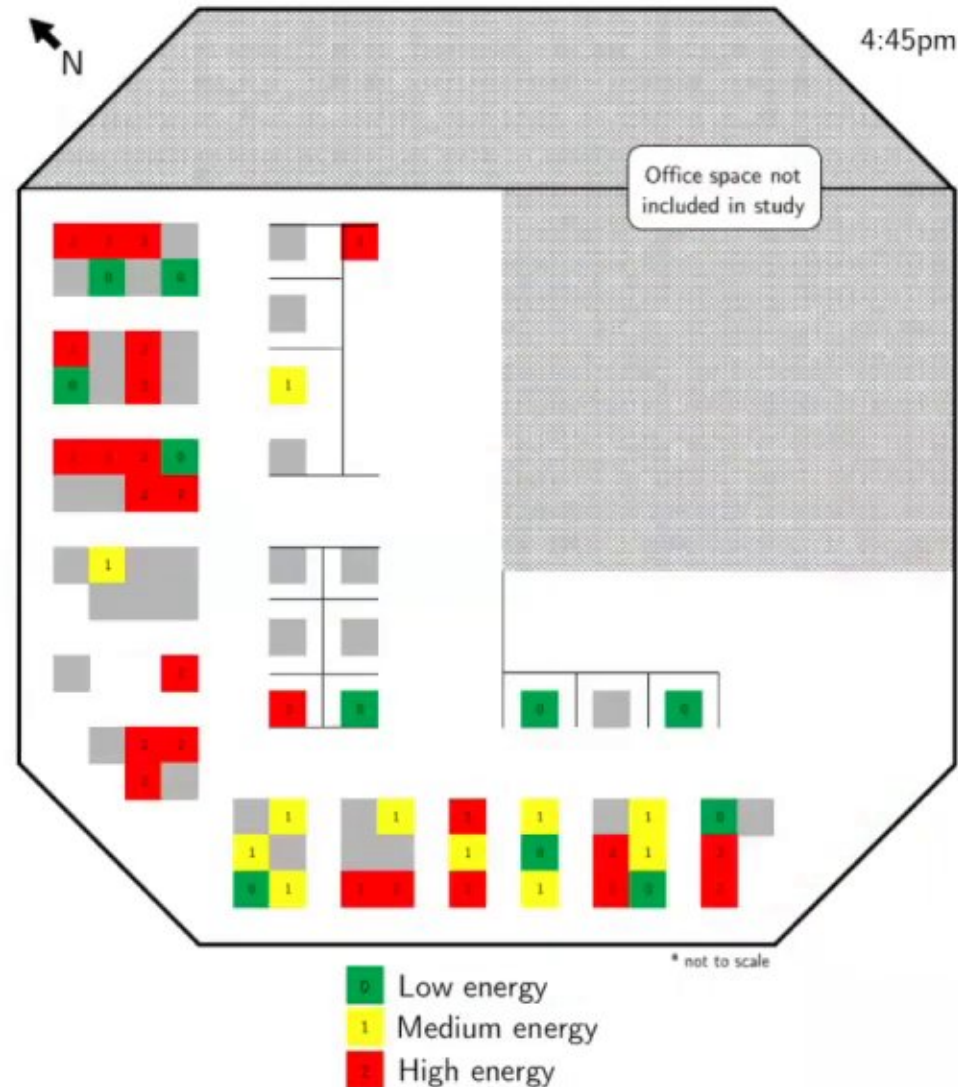


Intra-building dynamics: socio-spatial dynamics of energy usage

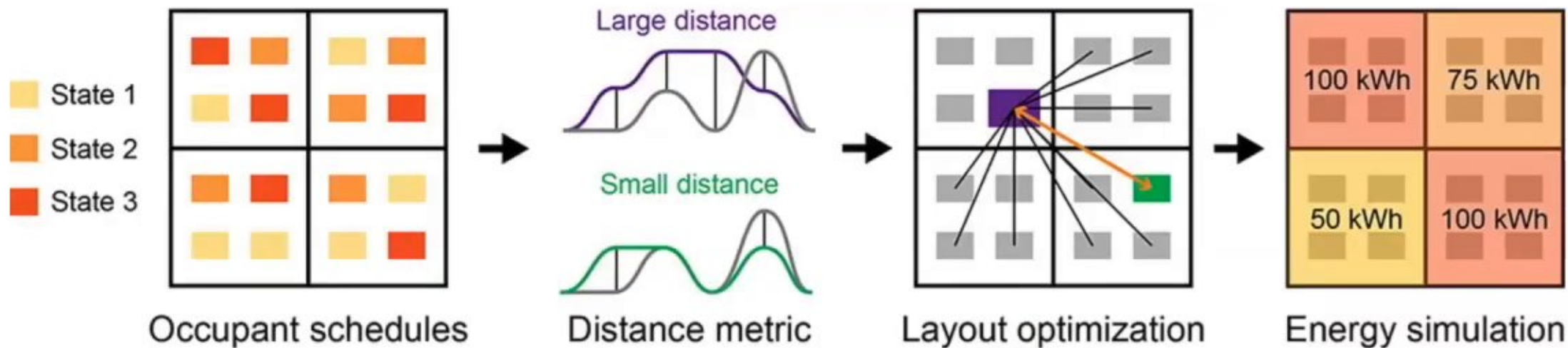


Privacy-aware occupant state inference

Activity States
Visualized
(Real office in San
Francisco)



Occupant layout optimization: application to lighting systems



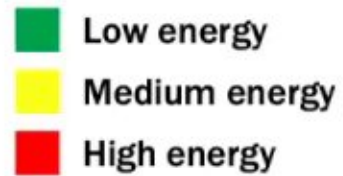
- Low-cost dynamic design solution results in **5%** energy savings for 150+ person lighting system

Beyond energy: opportunities for social interactions



7am

7pm

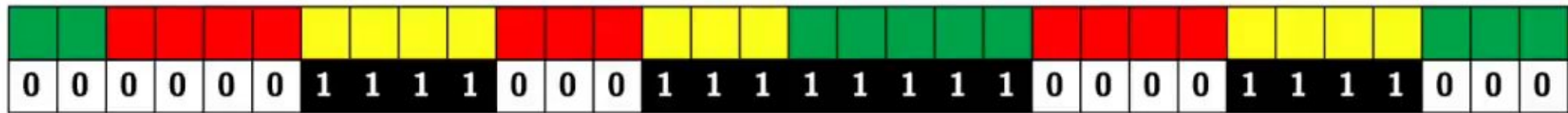
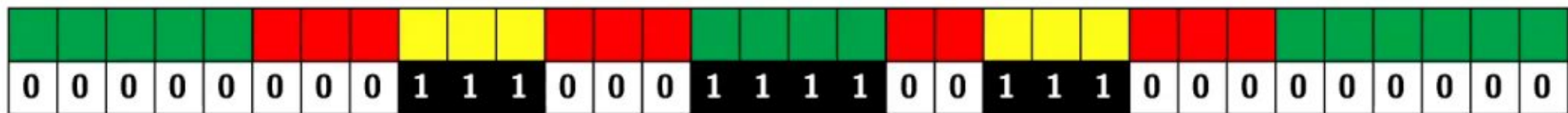


Beyond energy: opportunities for social interactions



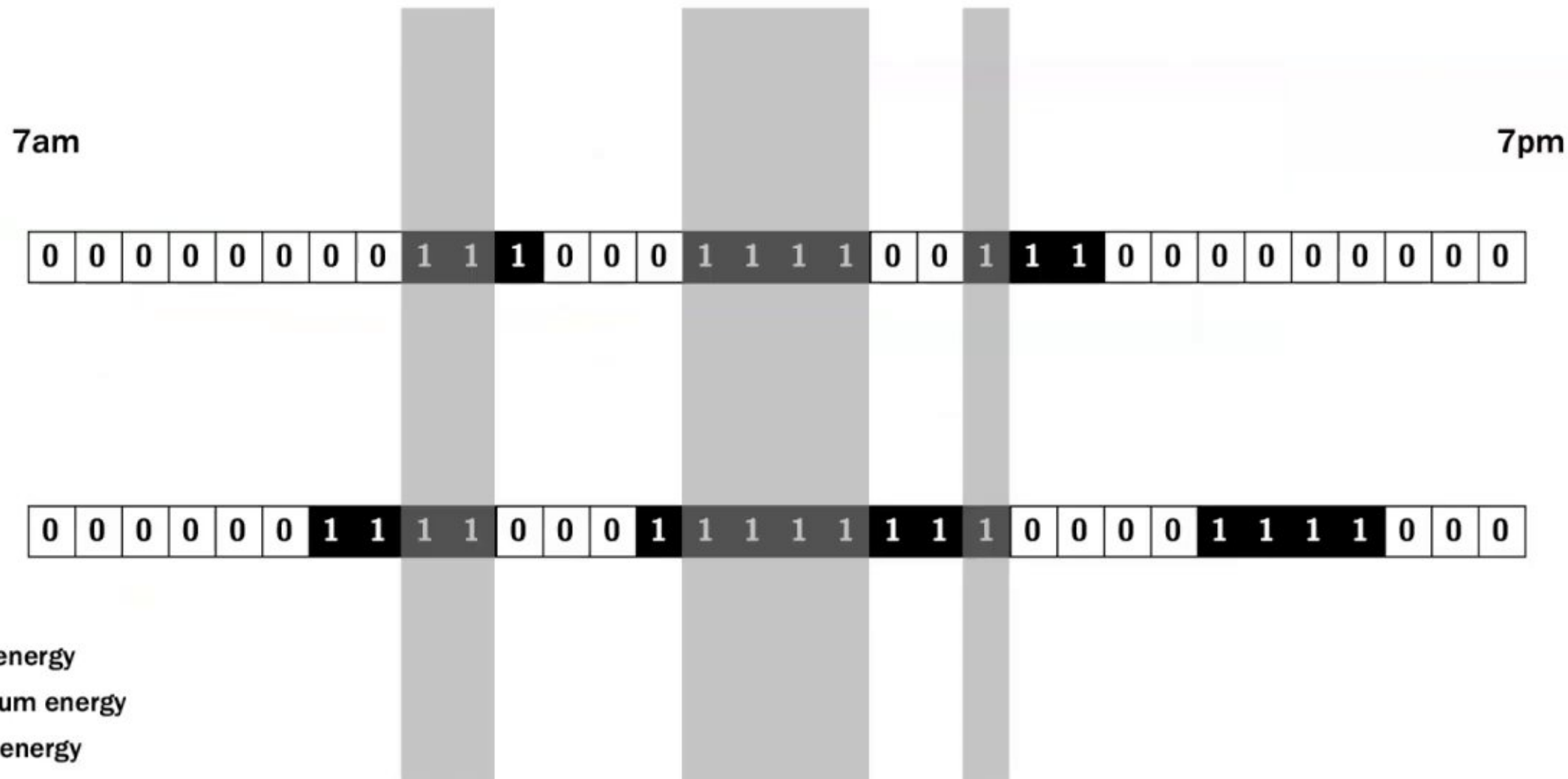
7am

7pm

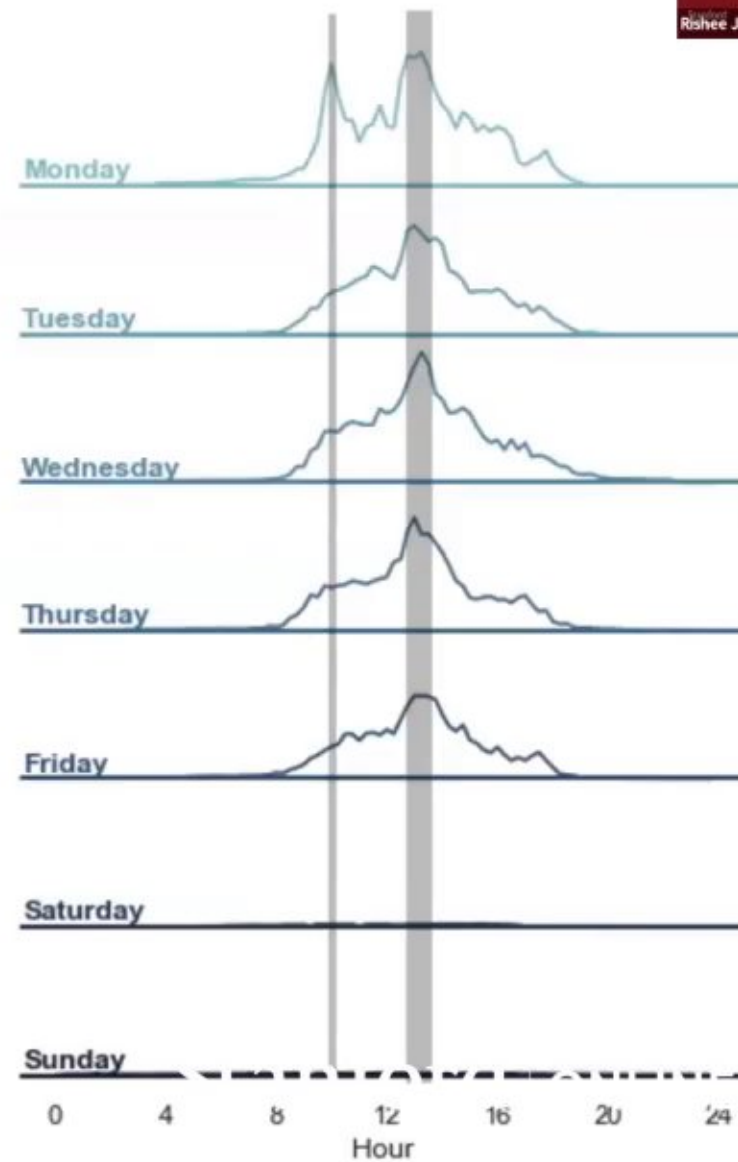
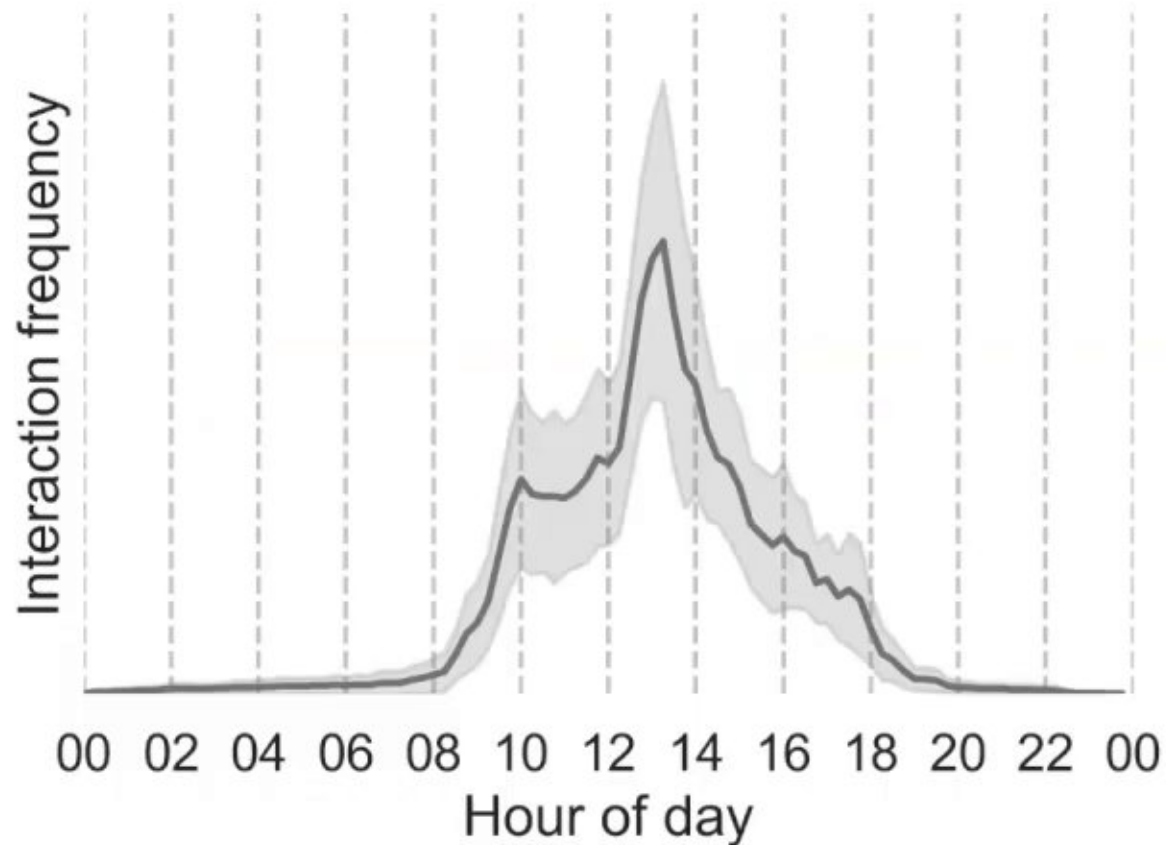


- Low energy
- Medium energy
- High energy

Beyond energy: opportunities for social interactions



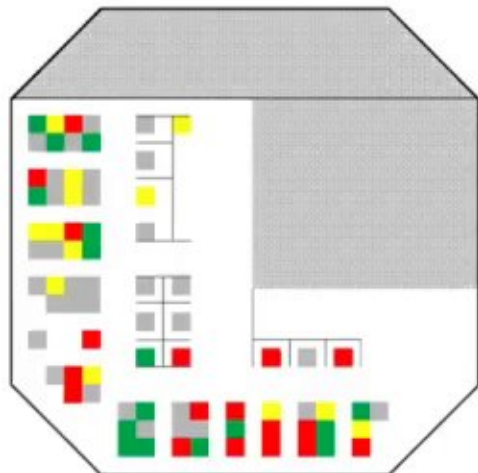
When do interactions occur?



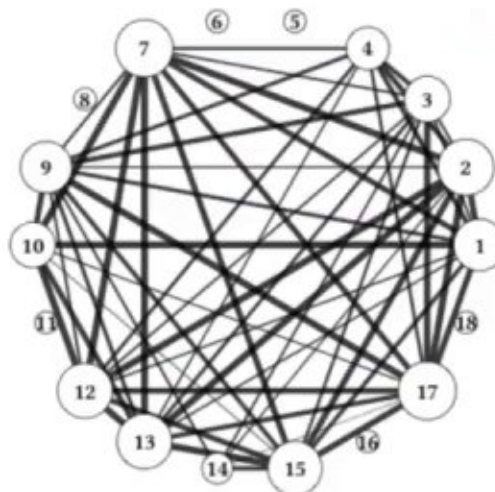
Future vision: towards energy efficient *and* collaborative spaces



Occupant-driven building control



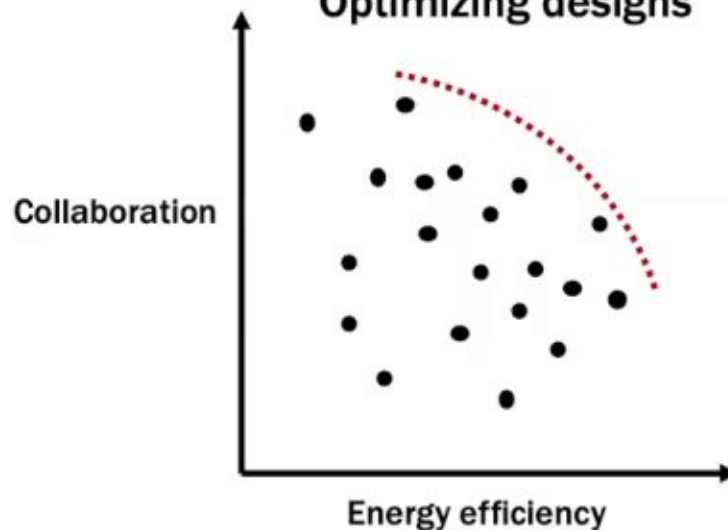
Occupant social/organizational network



+



Optimizing designs



Phi-GPT: Foundational GenAI model for modeling operations of facility

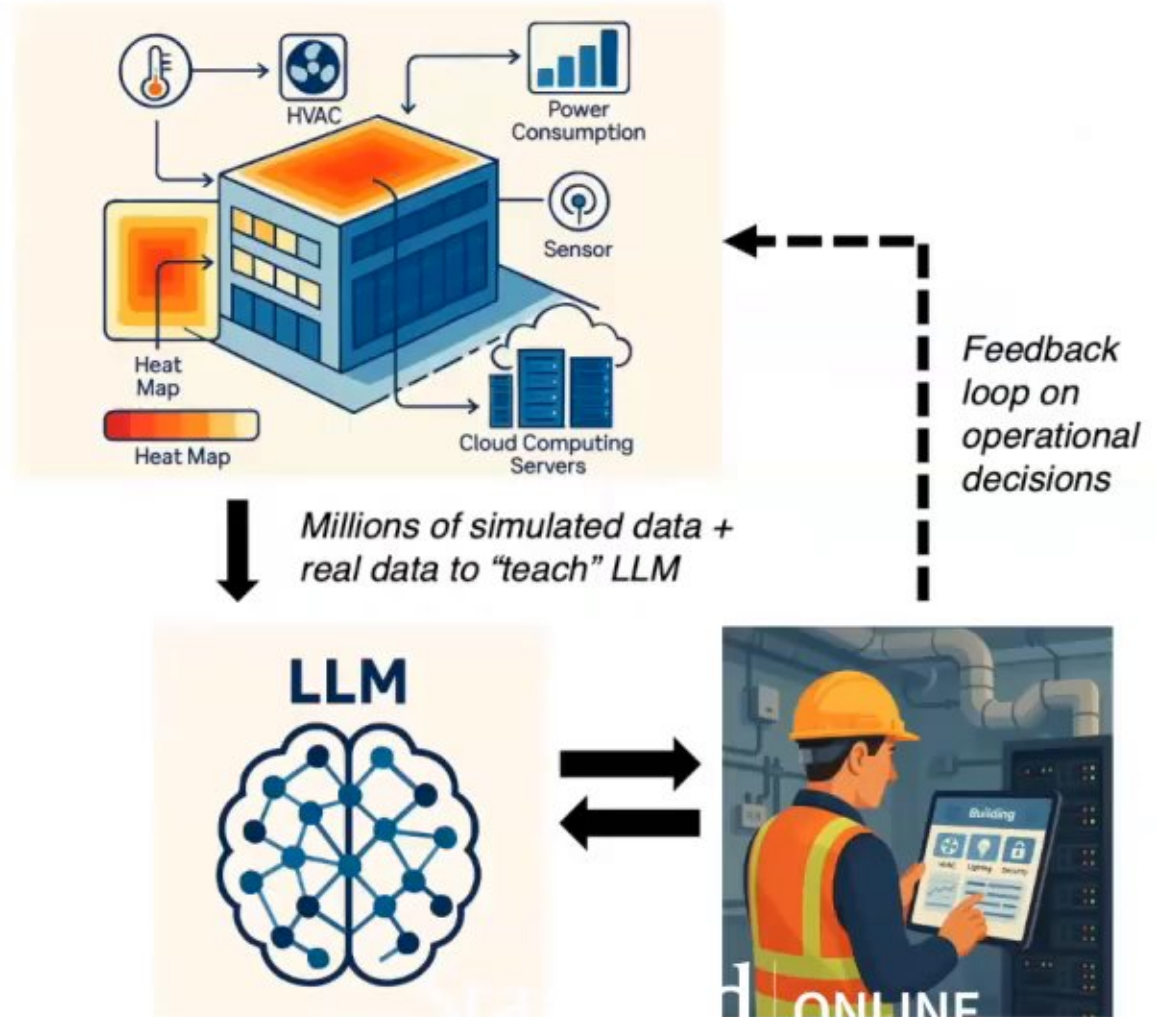


Challenge: Need to make multi-dimensional decisions on facility operations (cooling, energy usage, worker movement)

Problem: Traditional process models are too onerous; data-driven models need lots of data + bad at out of sample predictions + hallucinations

Approach: “Teach ChatGPT building physics and other first-principles”

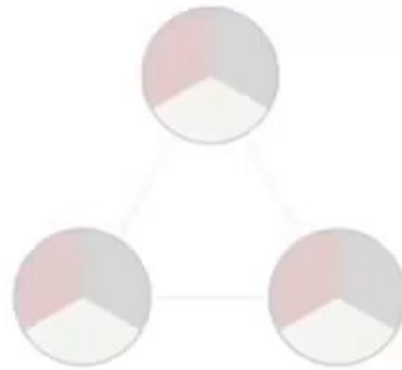
Potential Impact: Enable near-real time model informed decision making on data center operations



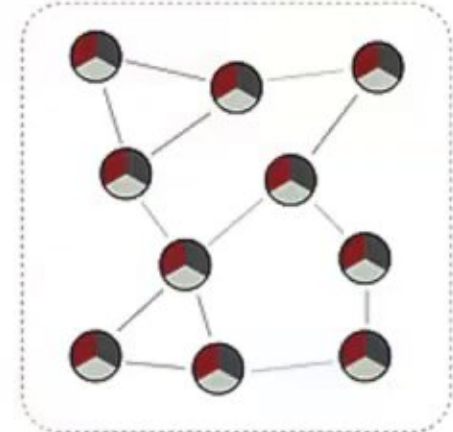
*We analyze data to understand interactions between
people, **buildings** and **energy** systems in cities.*



Intra-building
dynamics

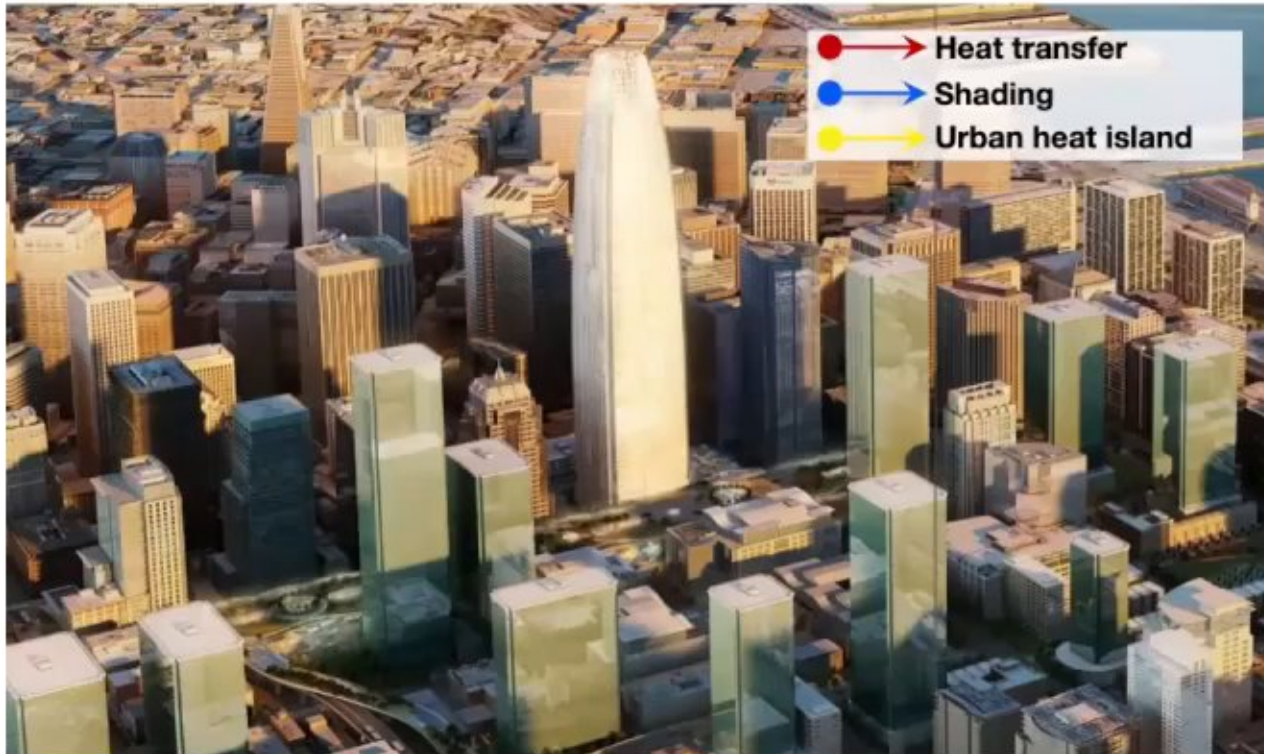


Community dynamics
(inter-building)



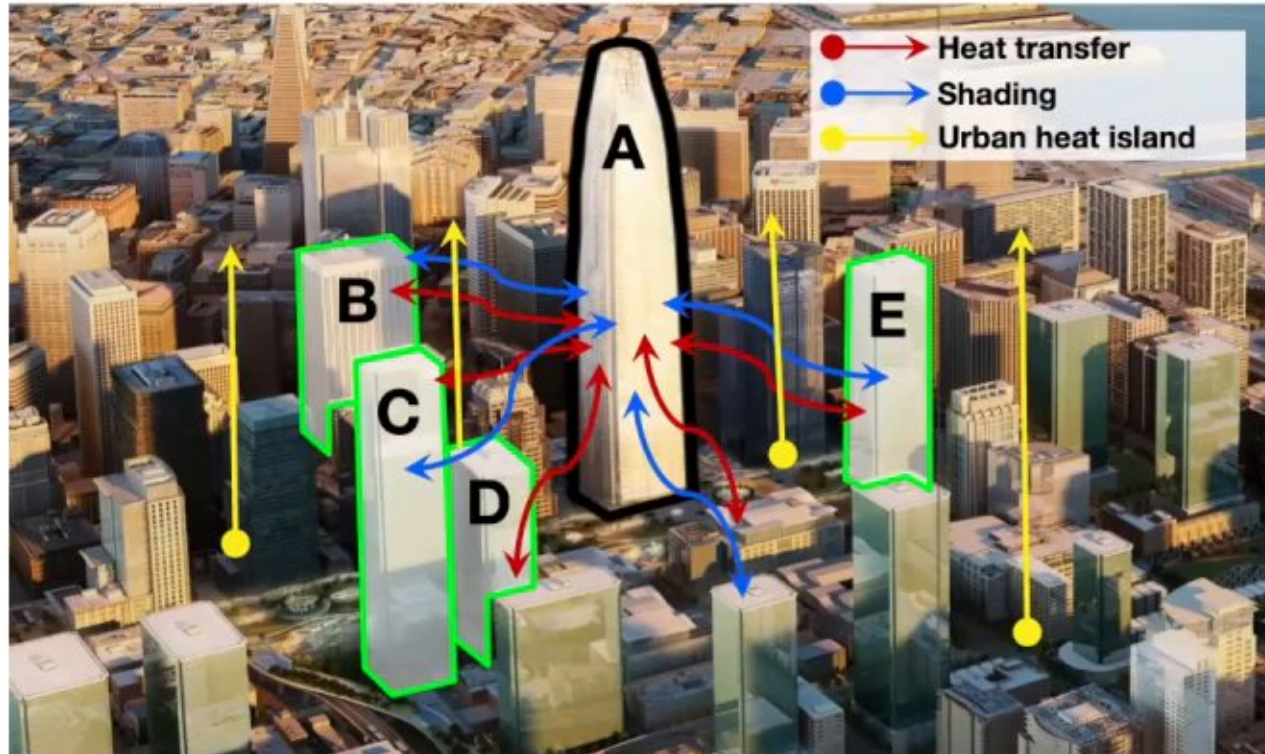
Urban-scale
dynamics

Data-driven Urban Energy (**DUE**) – Simulation (**-S**), Benchmarking (**-B**), Analytics (**-A**)



- 1 - Nutkiewicz, A., Yang, Z., & Jain, R. K. (2018). Data-driven Urban Energy Simulation (DUE-S). *Applied Energy*, 225, 1176-1189.
- 2- Nutkiewicz, A., Choi, B., & Jain, R. K. (2021). Exploring the influence of urban context on building energy retrofit performance. *Advances in Applied Energy*
- 3- Yang, Z., Roth, J., & Jain, R. K. (2017). DUE-B: Data-driven Urban Energy Benchmarking of Buildings... *Energy and Buildings*, 163, 58-69.
- 4 - Shivaram, R., Yang, Z., & Jain, R. K. (2021). Context-aware Urban Energy Analytics (CUE-A)... *Sustainable Cities and Society*, 102978.

Data-driven Urban Energy (**DUE**) – Simulation (**-S**), Benchmarking (**-A**)



Designer/Owner: *What is the energy impact of design changes/retrofits given the urban context?*

DUE-S^{1,2}: **AI** + **Physics**

Policy-maker: *Which buildings do we target for what type of retrofits?*

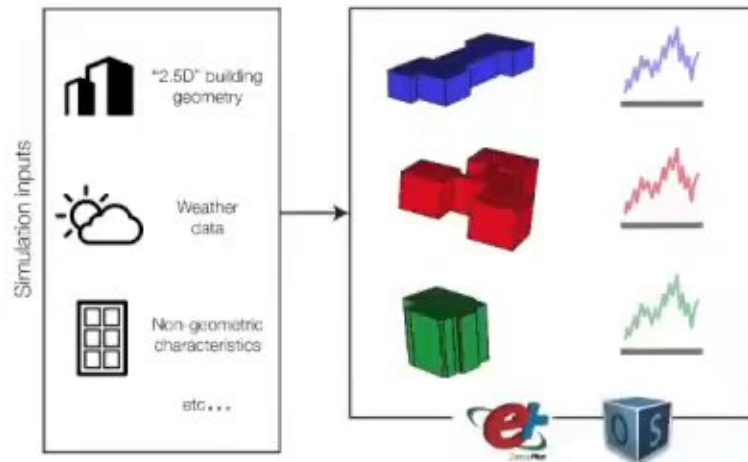
DUE-B³: **AI** → **Physics**

- 1 - Nutkiewicz, A., Yang, Z., & Jain, R. K. (2018). Data-driven Urban Energy Simulation (DUE-S). *Applied Energy*, 225, 1176-1189.
- 2- Nutkiewicz, A., Choi, B., & Jain, R. K. (2021). Exploring the influence of urban context on building energy retrofit performance. *Advances in Applied Energy*
- 3- Yang, Z., Roth, J., & Jain, R. K. (2017). DUE-B: Data-driven Urban Energy Benchmarking of Buildings... *Energy and Buildings*, 163, 58-69.
- 4 - Shivaram, R., Yang, Z., & Jain, R. K. (2021). Context-aware Urban Energy Analytics (CUE-A)... *Sustainable Cities and Society*, 102978.

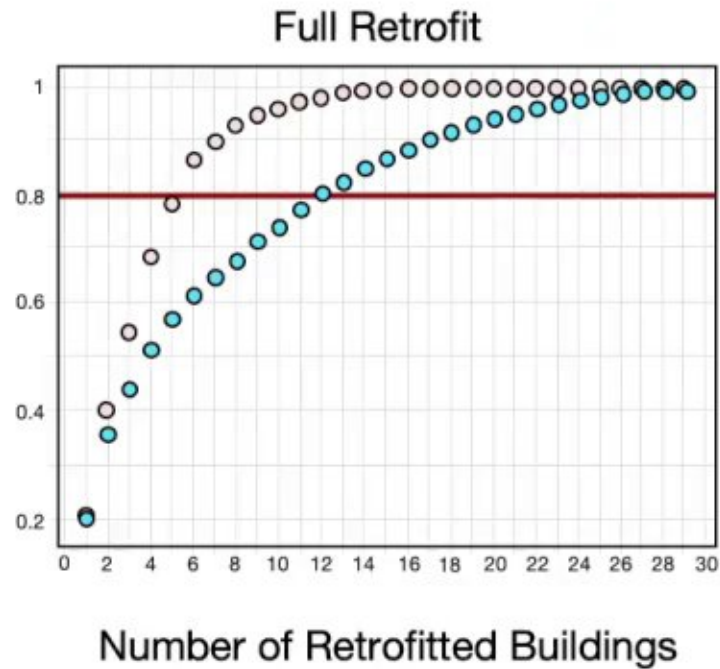
Data-driven Urban Energy – Simulation (DUE-S) Framework



(1) Create baseline energy simulations



Results: DUE-S reduces number of buildings needed to achieve 80 possible urban electricity savings



Data-driven Urban Energy Simulation (DUE-S): Key results



Integrates **AI + physics** for urban scale building energy modeling (with context)



Inform **retrofit targeting** to reduce required buildings by 50%



Opens pathways for **large-scale system synergies** (renewable energy, transport)



Future vision: affordable housing, land-use and energy sustainability intertwined challenges

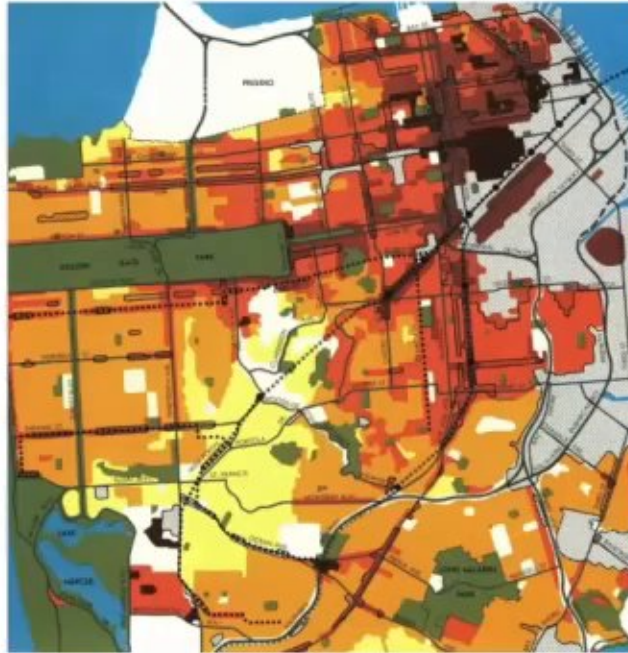


Housing



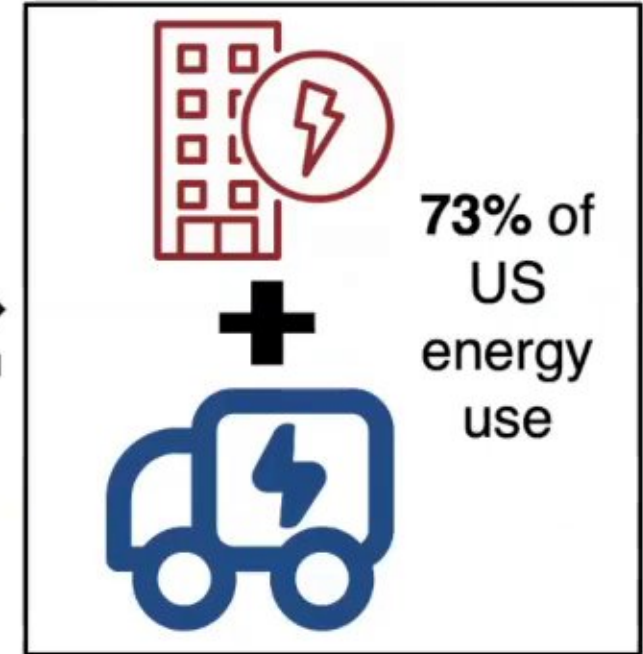
Lalo Alcaraz, Capital and Main

Land-use



<https://deatricksanfrancisco.weebly.com/land-use.html>

Building + transportation



Energy Information Administration



rishee.jain@stanford.edu

uil.stanford.edu

Thanks!
Questions?



AutoSave Jan - SDSS webinar No Label — Saved to my Mac

Home Insert Draw Design Transitions Animations Slide Show Record Review View Acrobat

Paste Slides Paragraph Insert Drawing Sensitivity Add-ins Designer Create and Share Adobe PDF

15 The SDSS Transitions to Smart models for handling spatially correlated data

16 The SDSS Transitions to Smart models for handling spatially correlated data

17 The Urban Energy (UAE) Transitions to Smart models for handling spatially correlated data

18 The Urban Energy (UAE) Transitions to Smart models for handling spatially correlated data

19 The Urban Energy (UAE) Transitions to Smart models for handling spatially correlated data


20 The Urban Energy (UAE) Transitions to Smart models for handling spatially correlated data

21 The Urban Energy (UAE) Transitions to Smart models for handling spatially correlated data

22

rishee.jain@stanford.edu
uill.stanford.edu

Thanks!
Questions?


STANFORD URBAN
INFORMATICS LAB

22

Click to add notes

Slide 22 of 22 English (United States) Accessibility, Investigate Notes Comments 99%



Stanford | ONLINE

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability

Stanford | ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability

Stanford | ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE

docs.google.com/presentation/d/1zmevirn2WScQp06pXJD8VP96SQIPBHfVLjxy9CRPp4/edit?slide=id.g300ddf454fb_0_427#sli...

Farnham Harnessing the Power of Physics-Informed AI/ML for Climate Resilience

File Edit View Insert Format Slide Arrange Tools Extensions Help Accessibility

Slide Show Share

Fit Tr Background Layout Theme Transition

1 2 3 4 5 6 7 8 9

1

2

3

4


5

6

Harnessing the Power of Physics-Informed AI/ML for Climate Resilience

Dr. Dave Farnham
VP of AI and Engineering at ClimateAi

November 2025



Stanford ONLINE

David Farnham

docs.google.com – To exit full screen, press **esc**



Loading...

Stanford | ONLINE

Harnessing the Power of Physics-Informed AI/ML for Climate Resilience

Dr. Dave Farnham
VP of AI and Engineering at ClimateAi

November 2025



Stanford ONLINE



David Farnham



AI Platform for Climate Resilience

Linking weather and climate insights to business value

ClimateAi Forecast Engines



Weather, seasonal, and long-term technology developed and patented over 7 years

Global

80+
Countries

Impact Models



Calibrated risk thresholds translate accurate forecasts into business value for top companies

Validated

50+
Customers

AI Driven



Agentic workflows connect customer data and ClimateAi insights to drive action

Powerful

10+
PBs Processed

SUNTORY

Simplot

DLF
SEEDS & SCIENCE

UPL

JTI

BAYER

ADVANTA

ABInBev

THE ORIGINAL
OATLY!

Driscoll's
Only the Finest Berries

McCain

ITC
ITC Limited

HITACHI

nuveen
A TSAA Company

KWS

W. L. BASF
We create chemistry

Stanford
ONLINE
PEPSICO

ClimateAi's ClimateLens Platform



Dave Farnham

VP of AI and Engineering

- 15+ years modeling climate & weather risks to critical infrastructure

David Farnham



Monitor (Seasonal Forecast)



CROP OUTLOOKS

GDD TRACKING

AI AGRONOMY AGENTS

PEST & DISEASE

MONITOR day-to-day operations and seasonal production plans to minimize risk of extreme weather.
Available via platform or API integration.

Sourcing

Production

Sales/Marketing

Adapt (Climate Projections)



CHRONIC & ACUTE RISKS

NOVEL LOCATION DISCOVERY

WATER RISK

TCFD/CSRD

ADAPT to future climates by identifying risks and opportunities related to key business metrics: crop yields, water availability, and other business drivers.

R&D

Finance Risk

Sustainability

Stanford

ONLINE



David Farnham

Opportunity: Closing the Gap Between Insight & Action



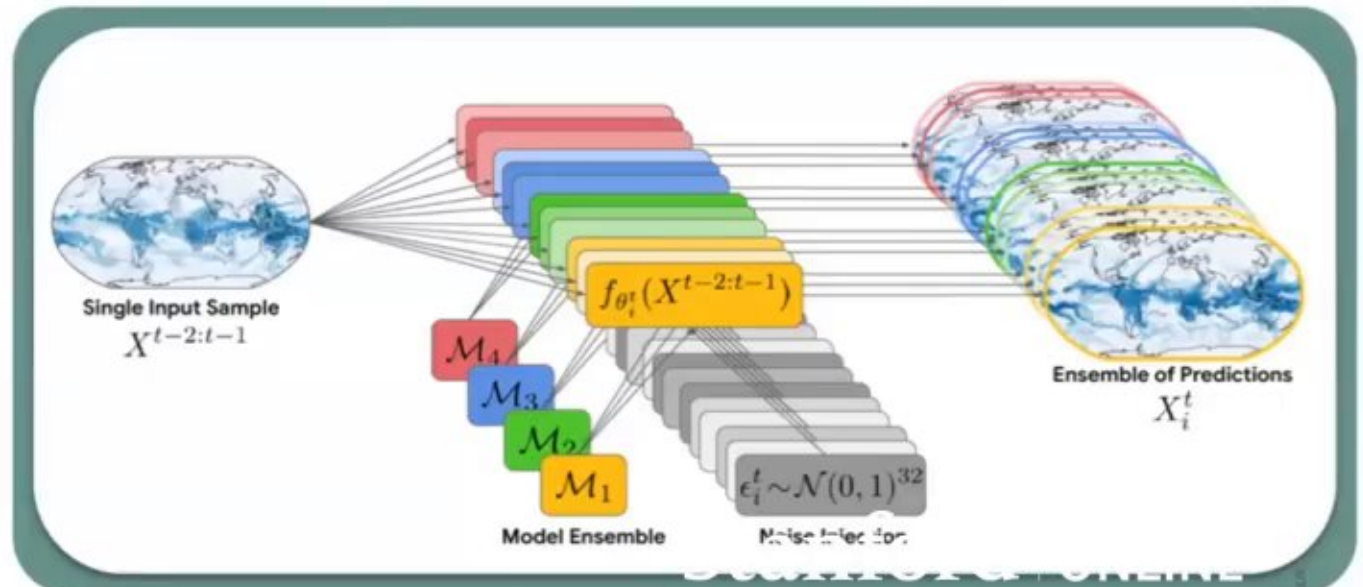


Other Opportunities Unlocked by AI/ML

Speed of Development



Fast Inference (e.g., more uncertainty quantification)



Challenges Posed by AI



David Farnham



Security



Change can be Scary



Power Needs



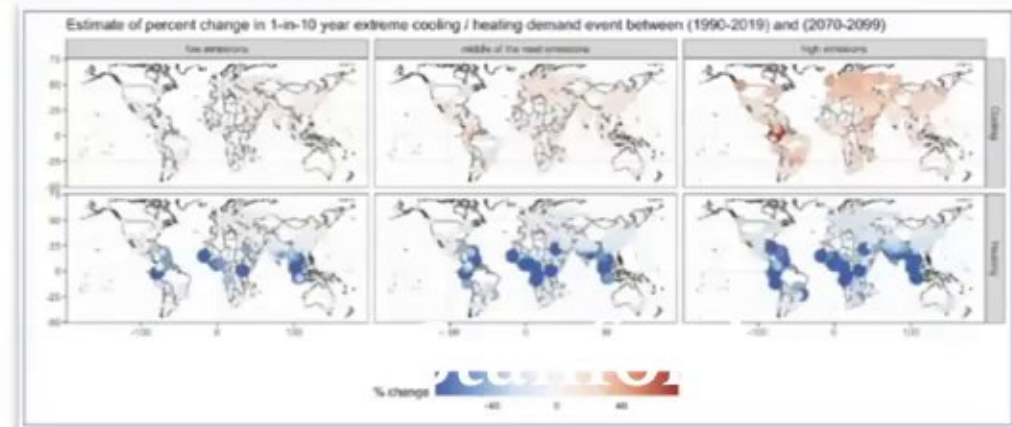
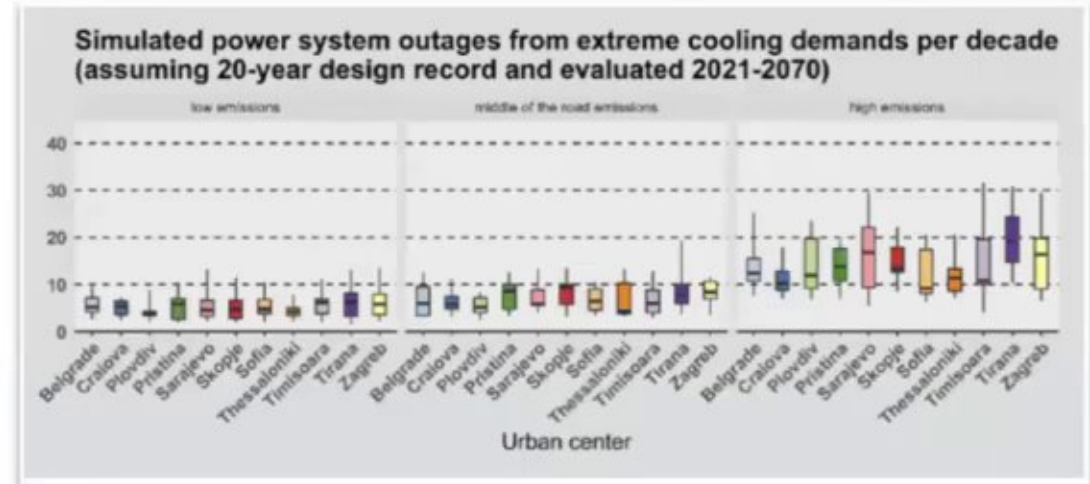
Stanford | ONLINE



David Farham

Extreme Heat, Grid Reliability, and Economic Costs

Goal: Anticipating investment needs to ensure reliable power systems in the face of climate change and rising extreme cooling energy demands



Hitachi Leverages ClimateAi's Cyclone Forecasts



David Farham



Use Case

Power Internal Models

Supply Chain Risk



ClimateAi Enables Global Supply Chain Risk Model for Hitachi

Discover how Hitachi uses ClimateAi's platform to anticipate extreme weather risks and safeguard its global supply chain.

climate.ai

API data empowers Hitachi to monitor climate risks at supplier locations worldwide, months in advance.

Hitachi ingests weather forecasts & seasonal cyclone forecasts that extend up to six months into the future and have an impressive 1-kilometer resolution on a global scale.

"ClimateAi's weather forecast data is potentially a game-changer for Hitachi."

Climate Risks in Global Supplier Networks





Stanford | ONLINE

Stanford | Doerr
School of Sustainability

Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability

Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE

Stanford | Doerr
School of Sustainability

Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability

Stanford | ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford | ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford | ONLINE

Earth. Climate. Society.



Stanford ONLINE



Stanford | ONLINE



Stanford ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE

Stanford | Doerr
School of Sustainability

Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability

Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability

Stanford ONLINE

Earth. Climate. Society.

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stan
Univ

Stanford
University

Stanford
University

Stanford
University

d
ty

Stanford
University

Stanford
University

S

Stanford
University

Stanford
University

Stan
Un

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanf
Univer

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Sta
U

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

S

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
Stanford
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

S

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University





Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford ONLINE



Stanford | ONLINE



Stanford ONLINE



Stanford ONLINE



Stanford ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability

Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stan
Un

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

S

Stanford | ONLINE
Stanford
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

St
U

Stanford
University

Stanford
University

Stanford
University

rd
ty

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
Stanford
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

S

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

S
U

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

S

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford

Stanford | ONLINE
University



Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford | ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE

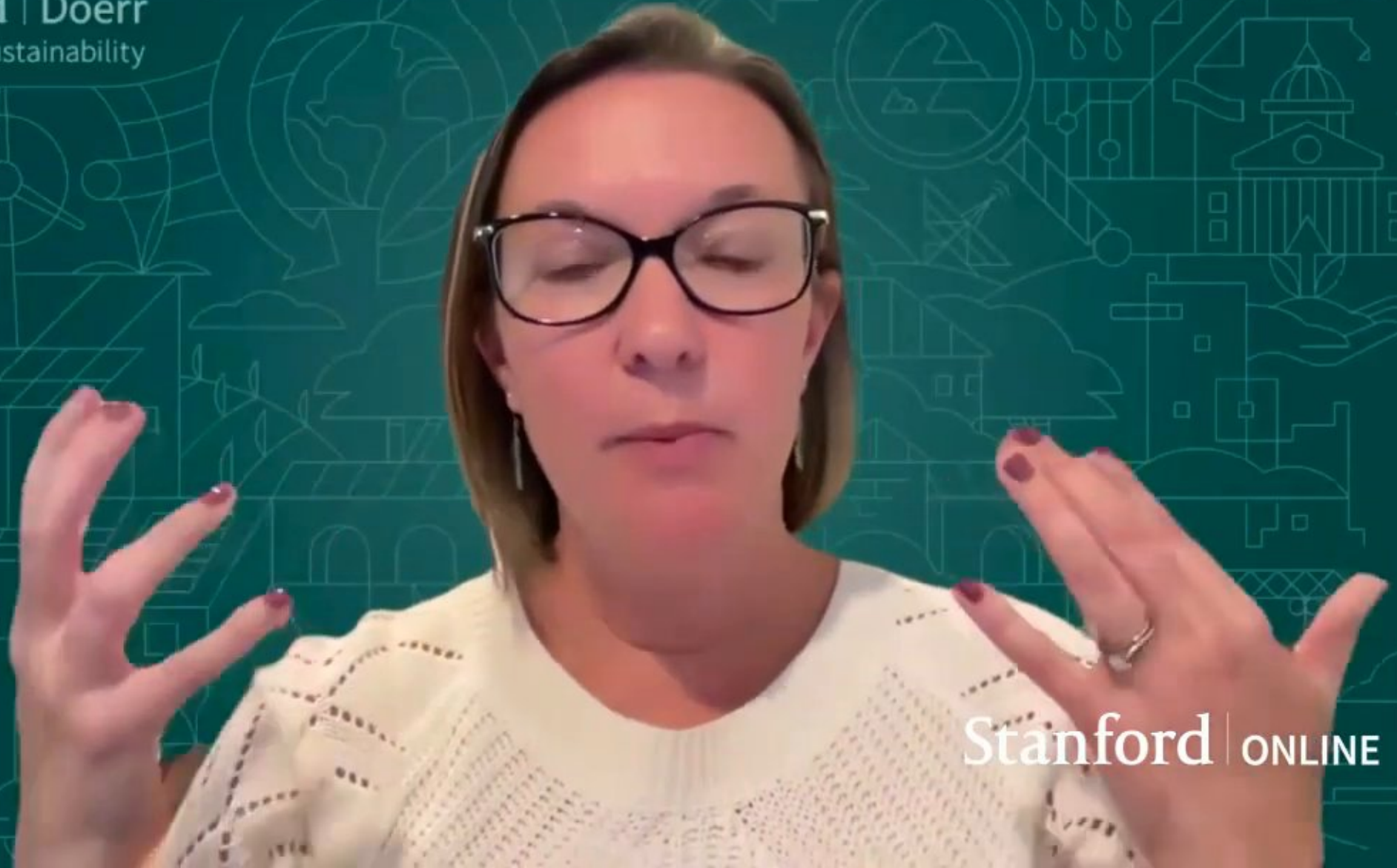
Stanford | Doerr
School of Sustainability



Stanford | ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford | ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford | ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford | ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford | ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

S

Stanford
University

Stanford
University

Stanford
University

rd
sity

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

S

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Sta
Un

Stanford
University

Stanford
University

Stanford
University

ord
ersity

Stanford
University

Stanford
University

Stanford
University

Stanford
University

S

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

S

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University





Stanford ONLINE



Stanford ONLINE



Stanford ONLINE



Stanford ONLINE



Stanford | ONLINE



Stanford ONLINE



Stanford ONLINE



Stanford ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford ONLINE



Stanford ONLINE

Stanford ONLINE



Stanford ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford | ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford | ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford | ONLINE

Earth. Climate. Society.



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford | ONLINE



Stanford ONLINE



Stanford ONLINE



Stanford | ONLINE



Stanford ONLINE



Stanford ONLINE



Stanford ONLINE



Stanford ONLINE

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Sta
Un

Stanford
University

Stanford
University

Stanford
University

rd
ty

Stanford
University

Stanford
University

Stanford
University

Stanford
University

S

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stan
Unive

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

St

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

S

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

S

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stan
Univ

Stanford
University

Stanford
University

Stanford
University

d
y

Stanford
University

Stanford
University

Stanford
University

Stanford
University

S

Stanford | ONLINE
Stanford
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford
University

Stanford | ONLINE
University



Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability

Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

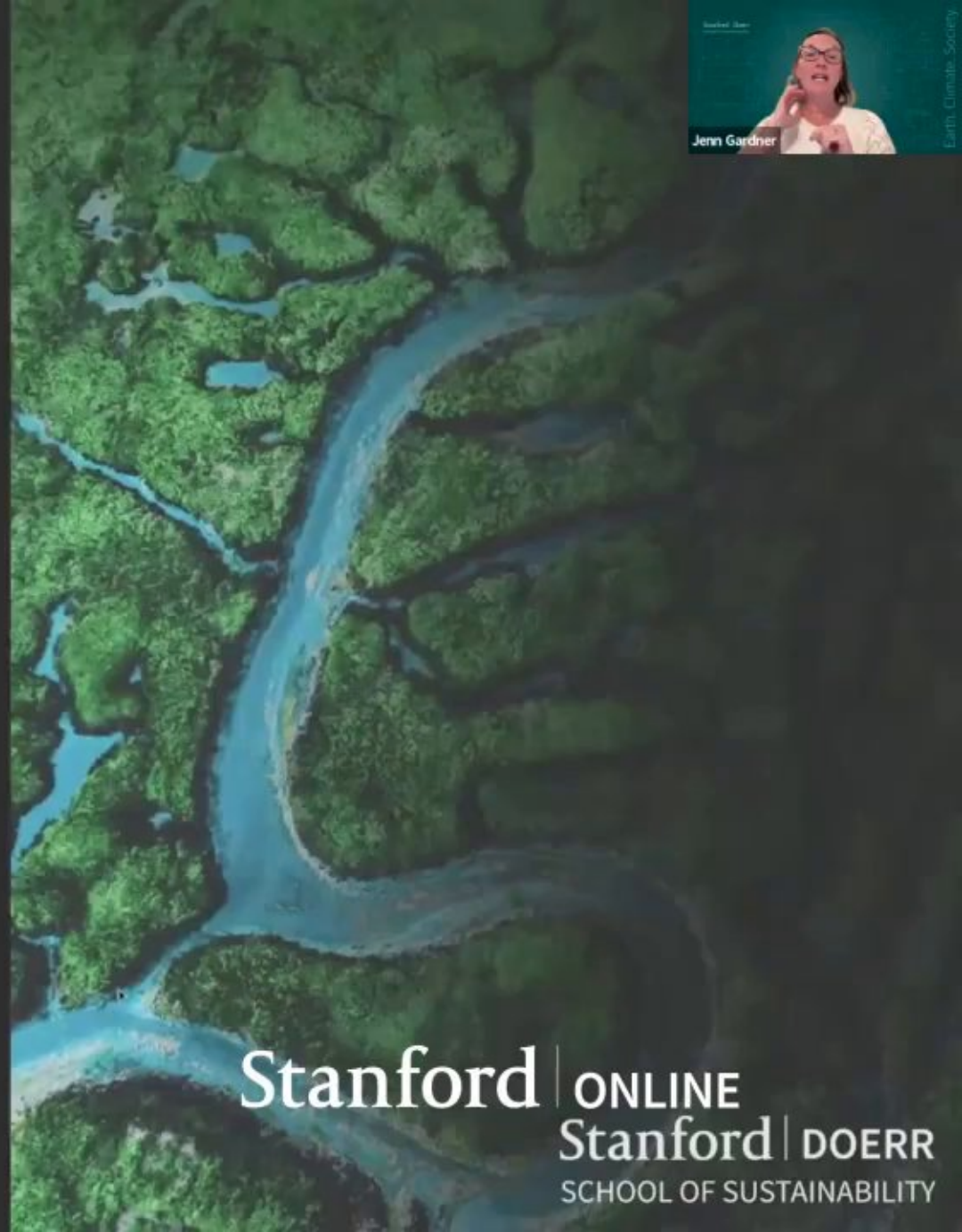
Menu of Programs

Stanford Leadership Experience

Master Classes

Energy & Sustainability Certificate

And more...



Stanford | ONLINE
Stanford | DOERR
SCHOOL OF SUSTAINABILITY

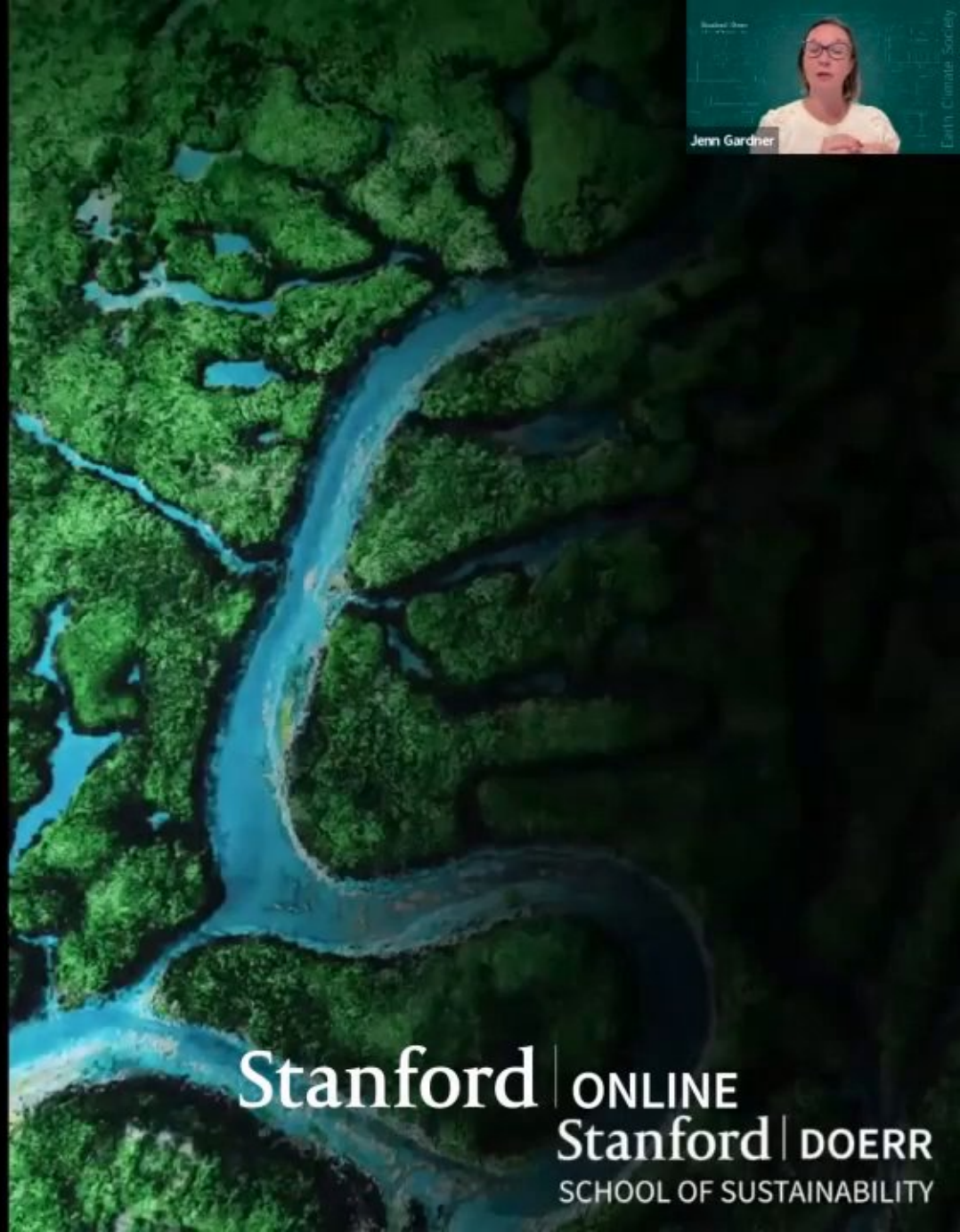
Menu of Programs

Stanford Leadership Experience

Master Classes

Energy & Sustainability Certificate

And more...



Stanford | ONLINE
Stanford | DOERR
SCHOOL OF SUSTAINABILITY

Menu of Programs

Stanford Leadership Experience

Master Classes

Energy & Sustainability Certificate

And more...

Stanford Leadership Experience Science, Innovation, and Resilience



*5 days at
Stanford*

*3 excursions:
CA coast, SF,
Silicon Valley*

*For board
directors and
senior
executives*



*Scan to
learn more
and register*



Stanford | ONLINE
Stanford DOERR
SCHOOL OF SUSTAINABILITY

in collaboration with
WBC
World Business
Council
for Sustainable
Development



Stanford Master Classes

Menu of Programs


Stanford Leadership Experience



Master Classes


Energy & Sustainability Certificate

And more...



AI & Climate

- Full day
- On Stanford Campus
- Open to all



Climate Innovation

- Partial day
- On Stanford Campus
- Open to all



Scan to
learn more
and register

Stanford | ONLINE
Stanford | DOERR
SCHOOL OF SUSTAINABILITY



Energy Innovation and Emerging Technologies

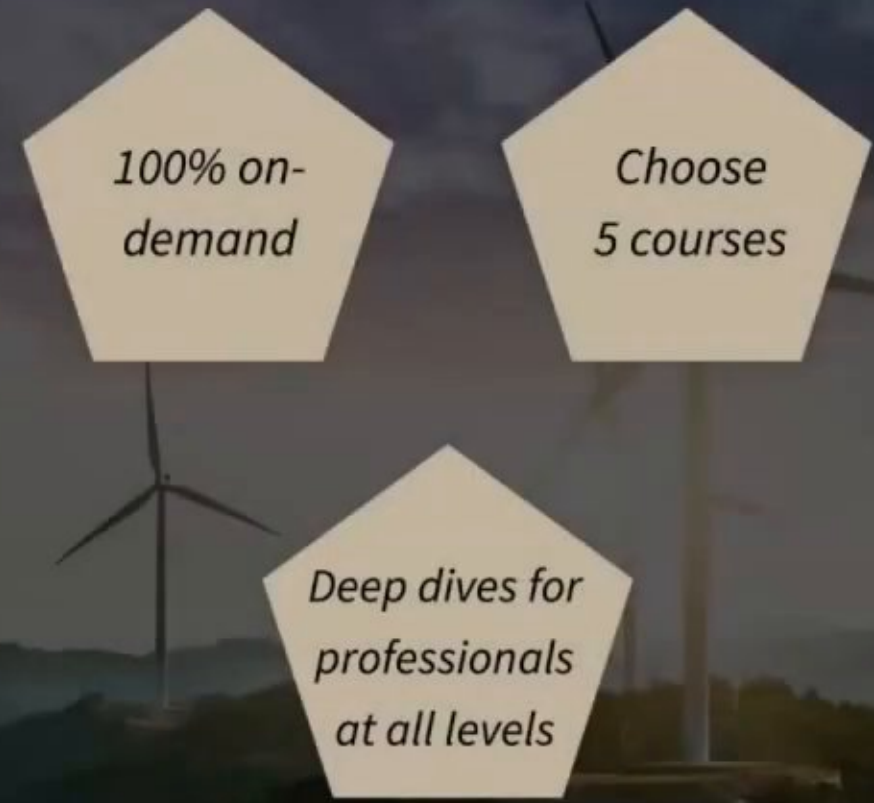
Menu of Programs

Stanford Leadership Experience

Master Classes

Energy & Sustainability Certificate

And more...



Scan to learn more and register



Menu of Programs

Stanford Leadership Experience

Master Classes

Energy & Sustainability Certificate

And more...

And more...

*Strategic
Sustainability
Leader Program*

May – July 2026

Online & On-campus

STANFORD GRADUATE
BUSINESS SCHOOL OF

Custom Programs

*On-site, Online, or a
Combination*

*Board trainings,
executive retreats,
company-wide
learning journeys*



Scan to
learn about all of
our programs



Stanford | **ONLINE**
Stanford | **DOERR**
SCHOOL OF SUSTAINABILITY

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

Stanford | Doerr
School of Sustainability



Stanford ONLINE

Earth. Climate. Society.

