

DESIGNING AMBITIOUS PATHWAYS TO CLIMATE CAREERS

MARK BASNAGE | JUNE 13, 2023

**The climate crisis is the singular story of our time;
it's the biggest business story in the world, and an
opportunity to build a completely new economy.
This is the industrial revolution and the internet
age all in one; we have the chance to reinvent
everything now.**

MOLLY WOOD, MAY 11, 2023

**IF THE GOAL IS GIANT, COLLABORATIVE CLIMATE
ACTION**

THEN THERE WILL BE A LOT OF CAREERS INVOLVED

**WHICH MEANS
WE NEED TO DESIGN & DEVELOP
NEW CAREER PATHWAYS FOR ALL STUDENTS**

*Can we do this and honor the deeper liberal/
liberatory mission of schools?*

What's the right scale to focus on?

Top-down or bottom-up?

Role of individual school/ district?

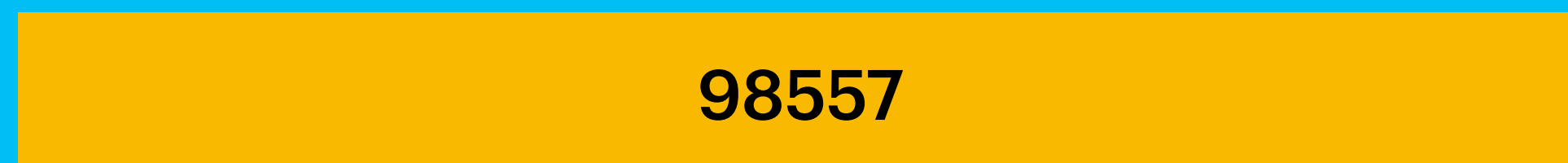
What even are green jobs?

IN THE US...

THE FRACTURED LANDSCAPE OF EDUCATION

SCHOOLS

Public K12 schools



preK, elementary, middle

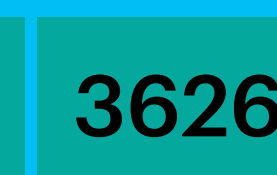


secondary, high schools

Private



preK, elementary, middle



secondary, high schools

PEOPLE IN SCHOOLS

Students



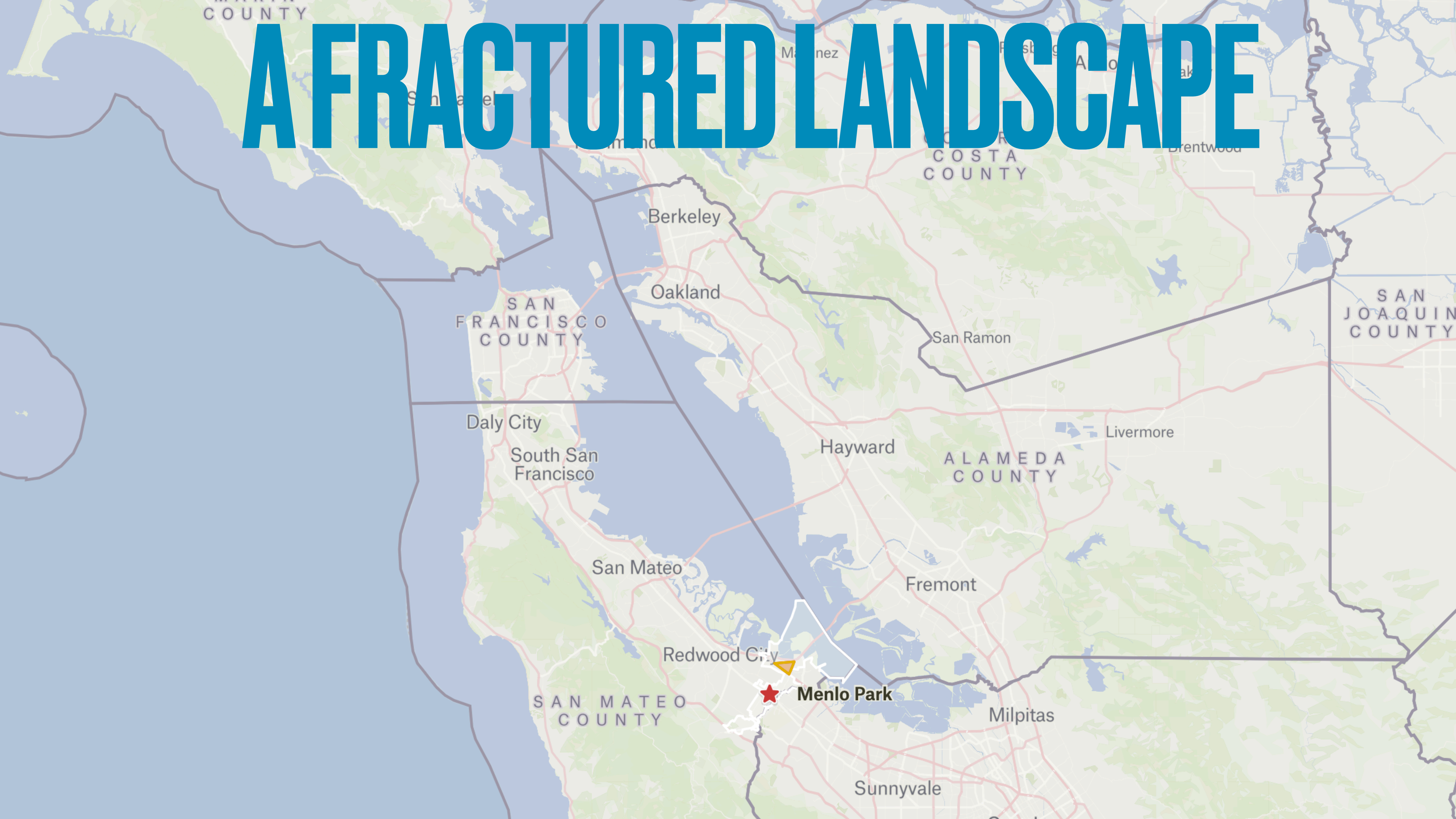
Public

Private

Teachers



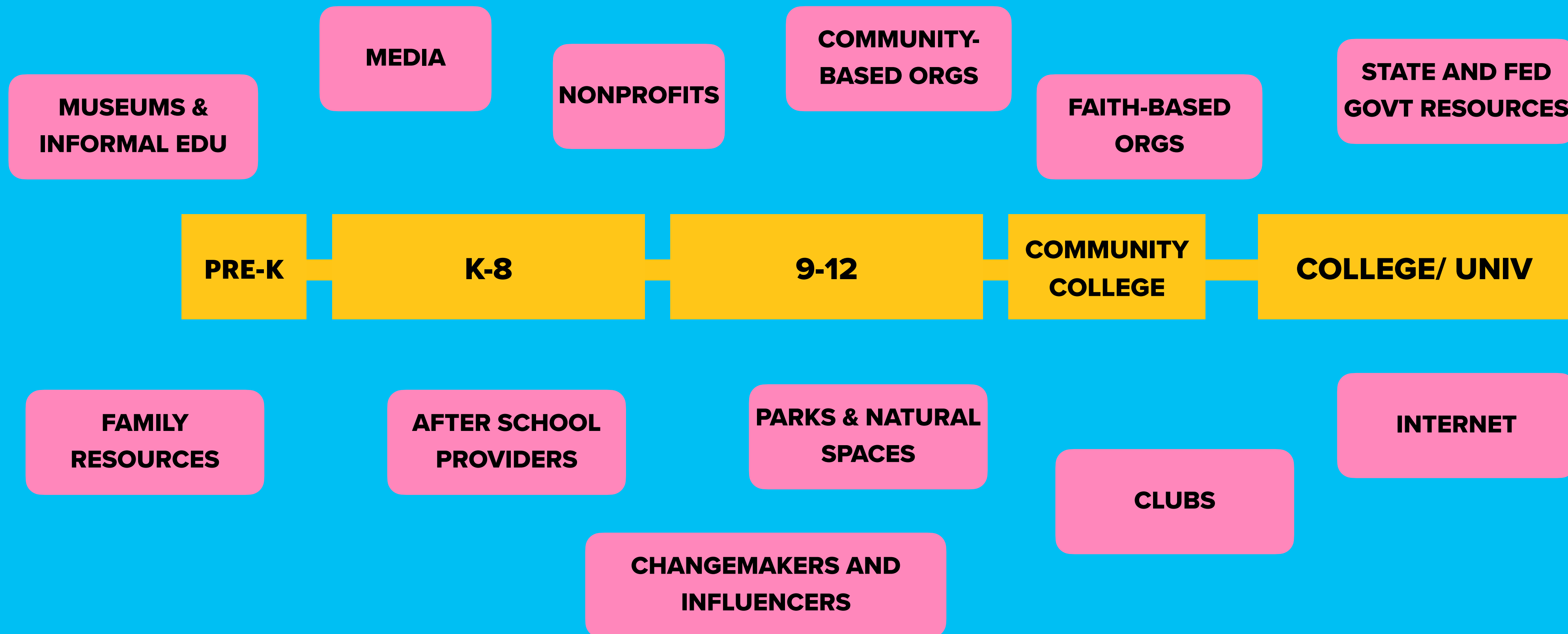
A FRACTURED LANDSCAPE



A FRACTURED LANDSCAPE

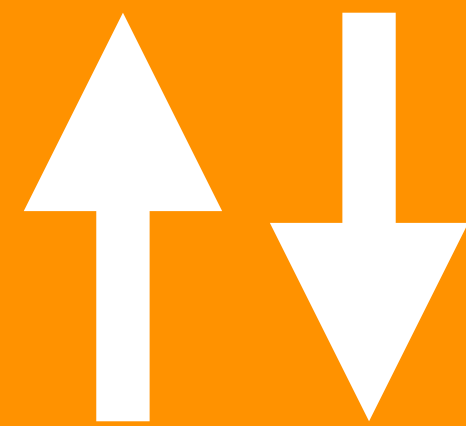


A FRACTURED LANDSCAPE



THIS REQUIRES NEW WAYS OF DOING THINGS

CLIMATE EDUCATION FOR ACTION



CREATING CLIMATE PATHWAYS



**ROBUST PATHWAYS NEED
COLLABORATIVE, REGIONAL DESIGN & SUPPORT**

NOT JUST “LEARNING ABOUT” CLIMATE

BEHAVIORS & INTERMEDIATE OUTCOMES

SENSE OF PLACE

**NATURE
CONNECTEDNESS**

SENSE OF WONDER

**HEALTH AND
WELLBEING**

**IDENTITY &
ACADEMIC IDENTITY**

**POSITIVE YOUTH
DEVELOPMENT**

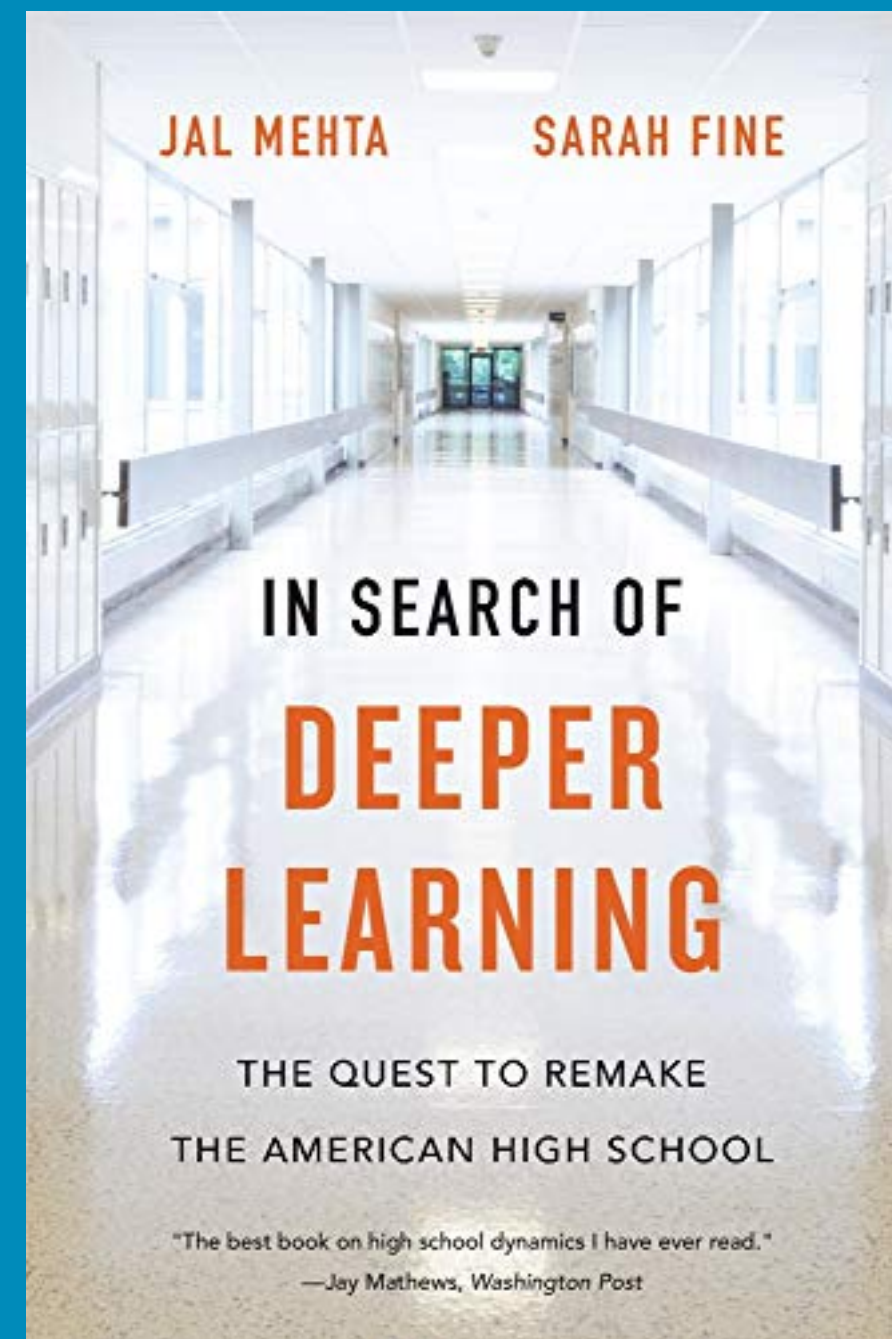
**KNOWLEDGE &
THINKING**

**VALUES, BELIEFS, &
ATTITUDES**

**SELF-EFFICACY,
AGENCY**

COLLABORATION

THIS IS ALSO GOOD PEDAGOGY:

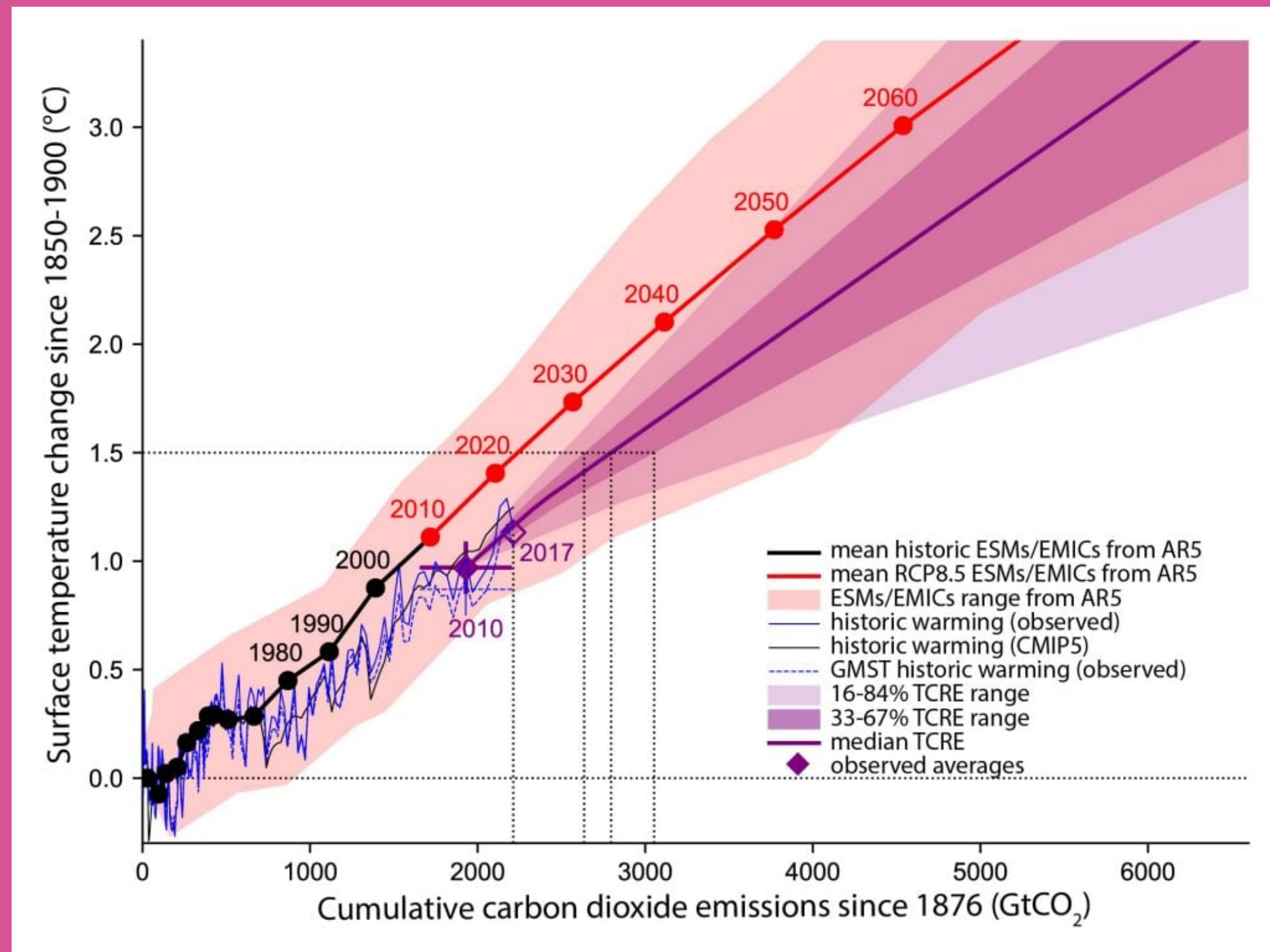


“practicing the whole game at a junior level”


THE CLIMATE CRISIS REQUIRES BIG EFFORTS IN

**MITIGATION
ADAPTATION
TRANSFORMATION**


MITIGATION



ADAPTATION



ABOUT | WHAT WE DO | NEWS & RESOURCES | MEETINGS & AGENDAS

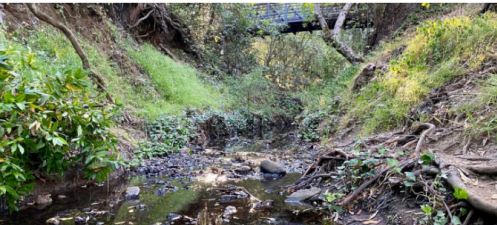


Current Project List

OneShoreline works across jurisdictional bounds to build solutions to the climate change impacts of sea level rise, flooding, and coastal erosion. By working at a regional scale, we facilitate the sharing of expertise, advance aligned and equitable benefits across communities, and provide a unified voice to secure state, federal, and private funds. Our suite of current projects are shared below – please do not hesitate to reach out if you’d like to learn more.

and woodside, and parts of
unincorporated County.

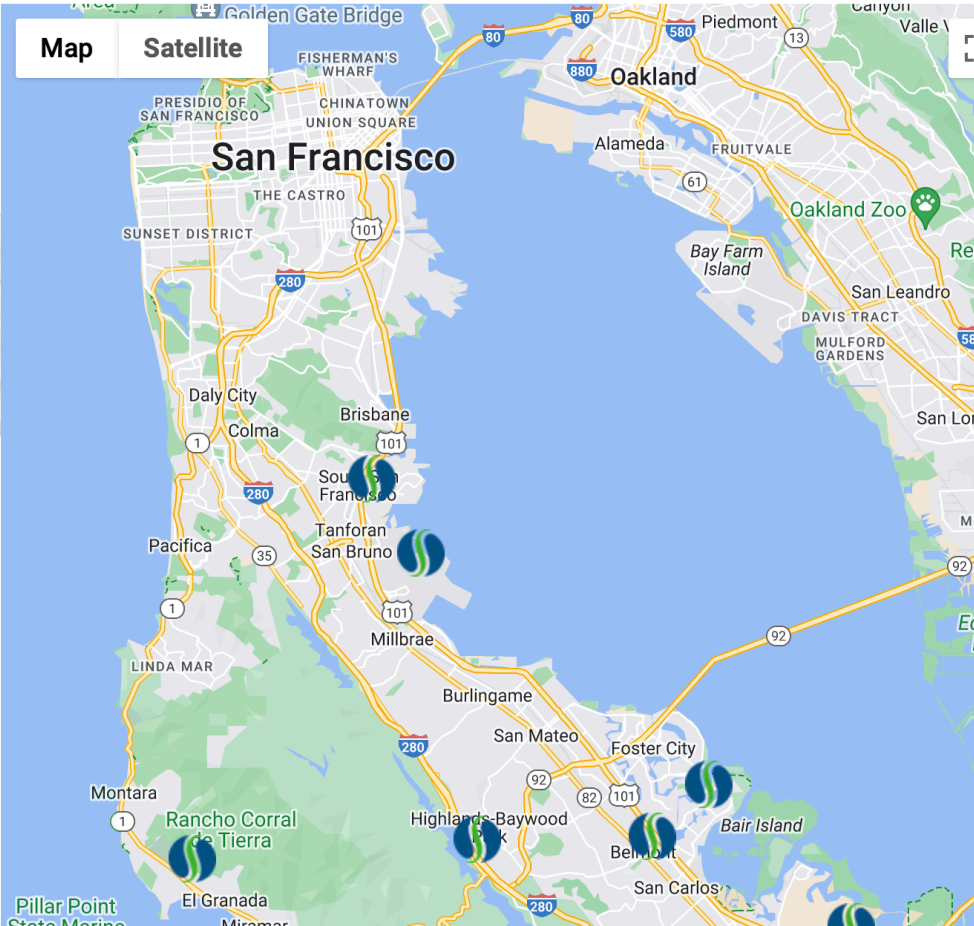
[Learn more >](#)



BELMONT CREEK STORMWATER DETENTION AND CREEK RESTORATION PROJECT

This project addresses the severe erosion, bank failure, and downstream flooding in Belmont Creek, by restoring a reach of the Creek, and constructing an underground stormwater detention system within Twin Pines Park.

[Learn more >](#)



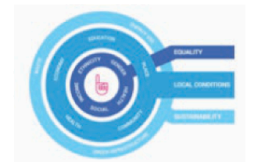
<https://oneshoreline.org/projects/>

TRANSFORMATION

- Moving away from extractive systems, hyperfocus on economic growth
- Toward wellbeing, care, belonging
- Thriving, fair, green
- Moving ‘economy’ back towards original meaning of ‘household’

Three of the frameworks are currently used extensively at a local level in different parts of the UK:

- The Thriving Places Index
(from Centre for Thriving Places)



- The SEED model
(from Carnegie UK)



- The Doughnut Economics Model
(from Kate Raworth and Doughnut Economics Action Lab)



We have also outlined (in less detail) five frameworks used at global, national and sub-national levels:

- Well-being of Future Generations (Wales) Act



- The National Performance Framework (Scotland)



- The ONS Wellbeing Dashboard (UK)



- The UN Sustainable Development Goals (International)



- The OECD Better Life Index (International)



ATTEND TO TIME SCALES

Aiming at jobs in demand in the coming 1-5 years

LMI demand, other near demand signals

Jobs clearly defined, known

Focus on mitigation, adaptation

Align HS, community college offerings

... in 5-10 years

Interdisciplinary/transdisciplinary

Attend to whole K-12 experience

Academic identity

... in 10-30Y+

Less clearly defined; demand less clear in LMI

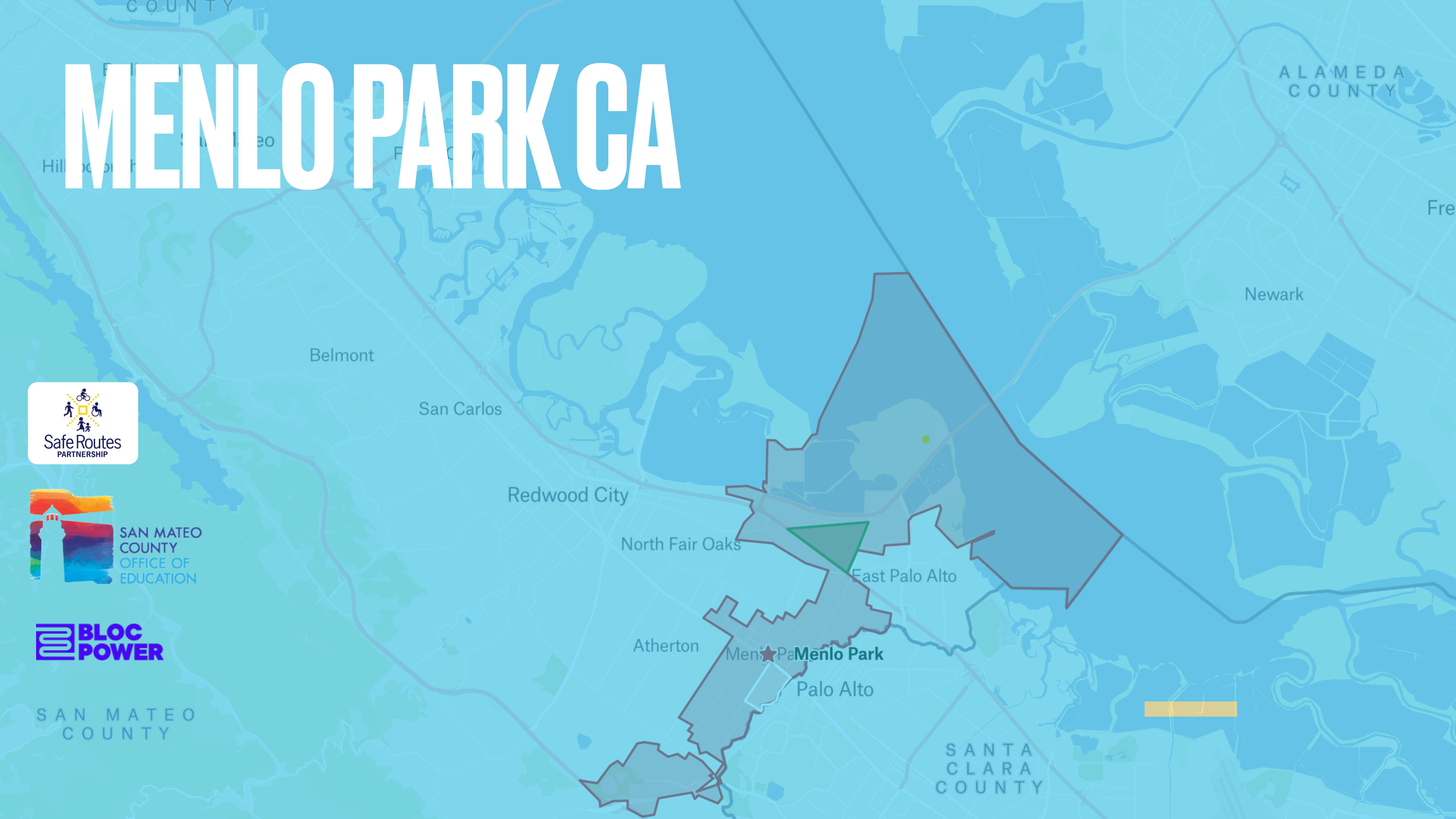
Transformational

Ensuring entrepreneurial equity

MENLO PARK CA

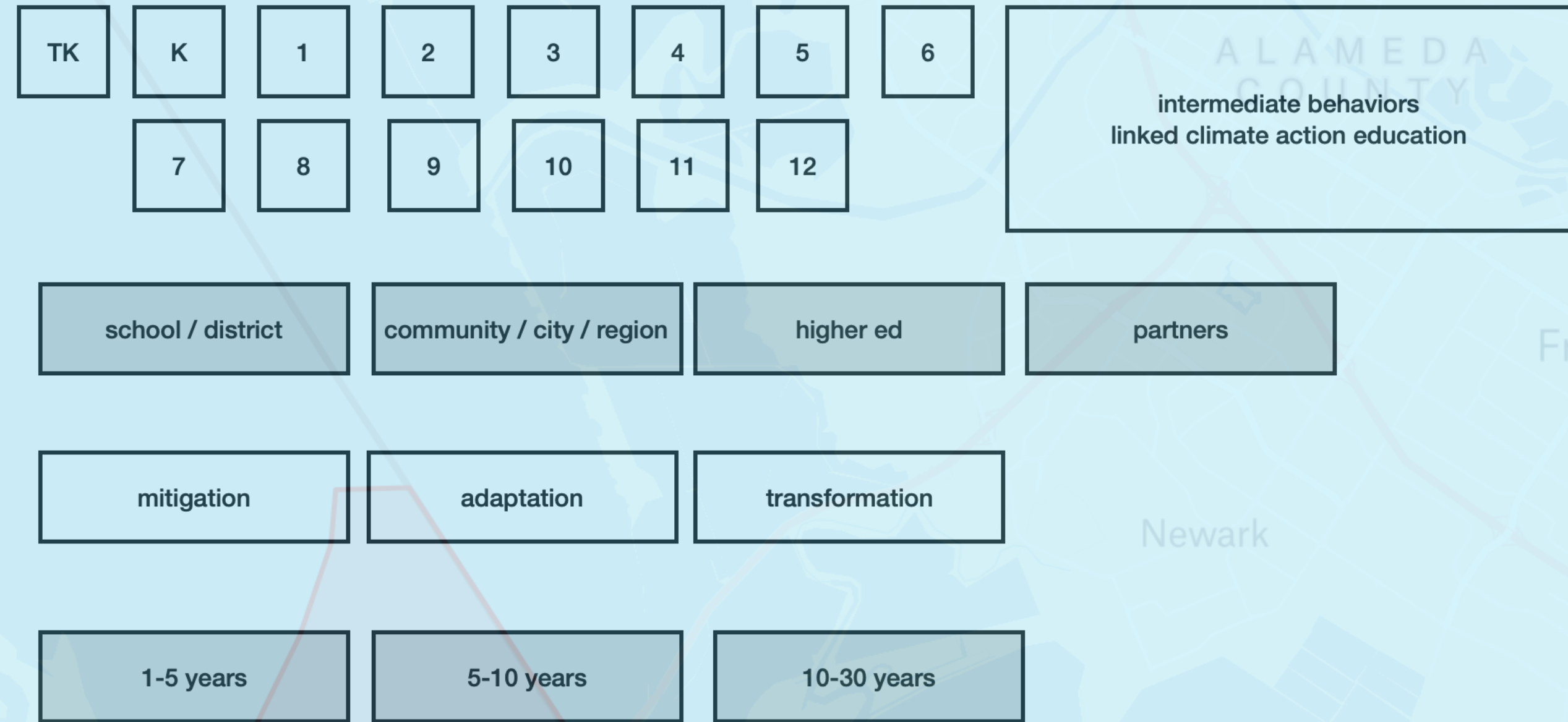


SAN MATEO
COUNTY



SANTA
CLARA
COUNTY

MENLO PARK CA



NJ / CAMDEN CO



NATIONAL
ENDOWMENT for the **ARTS**



NJ / CAMDEN CO



**NATIONAL
ENDOWMENT** for the **ARTS**



GOLDEN STATE PATHWAYS (CA)



GOLDEN STATE PATHWAYS (CA)

TK	K	1	2	3	4	5	6	intermediate behaviors linked climate action education
	7	8	9	10	11	12		
school / district		community / city / region		higher ed		partners		
mitigation		adaptation		transformation				
1-5 years		5-10 years		10-30 years				



NEW APPROACHES, MINDSETS, & TOOLS

- Ecosystems thinking
- Design thinking
- Knowledge creation
- STEM++
- Coalition building; scaling at the speed of relationships
- School leadership, roles, relationships
- School-community relationship
- Schools as engines of opportunity and innovation

PITFALLS TO AVOID

- hyperfocus on individual schools may keep systemic injustice out of view
- extractive systems - including privilege in prestige education
- the island/enclave temptation — reinforcing inequality
- only following the market, not shaping it
- disconnection between career education & general ed & climate education

Get in touch: [info @ makeknowledge.org](mailto:info@makeknowledge.org)

Mark Basnage



MakeKnowledge