

An aerial photograph of a vast valley, likely the Inland Empire region. The foreground shows a patchwork of agricultural fields in various shades of brown and green. A major highway, possibly the 78 freeway, runs diagonally through the lower right. The middle ground is filled with a dense urban area. In the background, a range of rugged mountains with some snow-capped peaks stretches across the horizon under a clear blue sky.

WRCOG | CVAG | SBCOG

A NEW REN

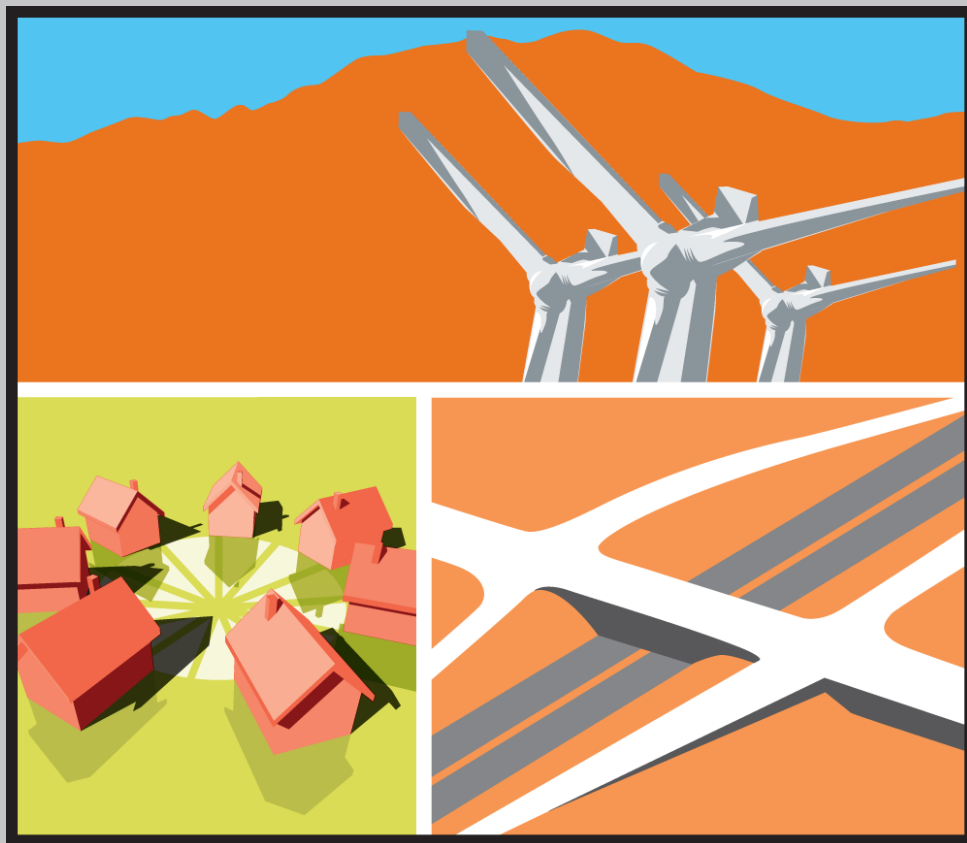
Riverside and San Bernardino Counties

CAEECC | May 14, 2020



Western Riverside Council of Governments

- 18 cities, one tribe, two water districts, Riverside County Board of Supervisors, and the Riverside County Superintendent of Schools
- Regional Planning Agency
- Western Riverside Energy Partnership
- Property Assessed Clean Energy
- Western Community Energy



CVAG

Coachella Valley Association of Governments

- 10 cities, one tribe
- Energy & Environmental Department
- \$4 million grant for Climate Action Plan / Energy Action Plan support
- Desert Cities Energy Partnership
- Property Assessed Clean Energy
- Desert Community Energy

San Bernardino Council of Governments

- 24 members, and the San Bernardino County Board of Supervisors
- Speak with a collective voice on important issues that affect its member agencies.
- San Bernardino Regional Energy Partnership



cta

San Bernardino County
Transportation Authority

Why a new REN in the Inland Empire?

- Provide consistent and expanded EE programs to a region where COGs have long term partnerships with its 52 cities and Board of Supervisors from both Counties.
- Region is distinct from other southern California areas, with its own robust culture and identity.
- Member agencies have nearly a decade of collective experience and existing relationships from implementing EE locally for their constituents.

ABOUT I-REN TERRITORY

The Counties

RIVERSIDE COUNTY, CA

POPULATION	MEDIAN AGE	MEDIAN HOUSEHOLD INCOME
2.42M	35.6	\$63,944
1.49% GROWTH		6.34% GROWTH
POVERTY RATE	NUMBER OF EMPLOYEES	MEDIAN PROPERTY VALUE
15.6%	1.04M	\$352,700
	3.7% GROWTH	7.01% GROWTH

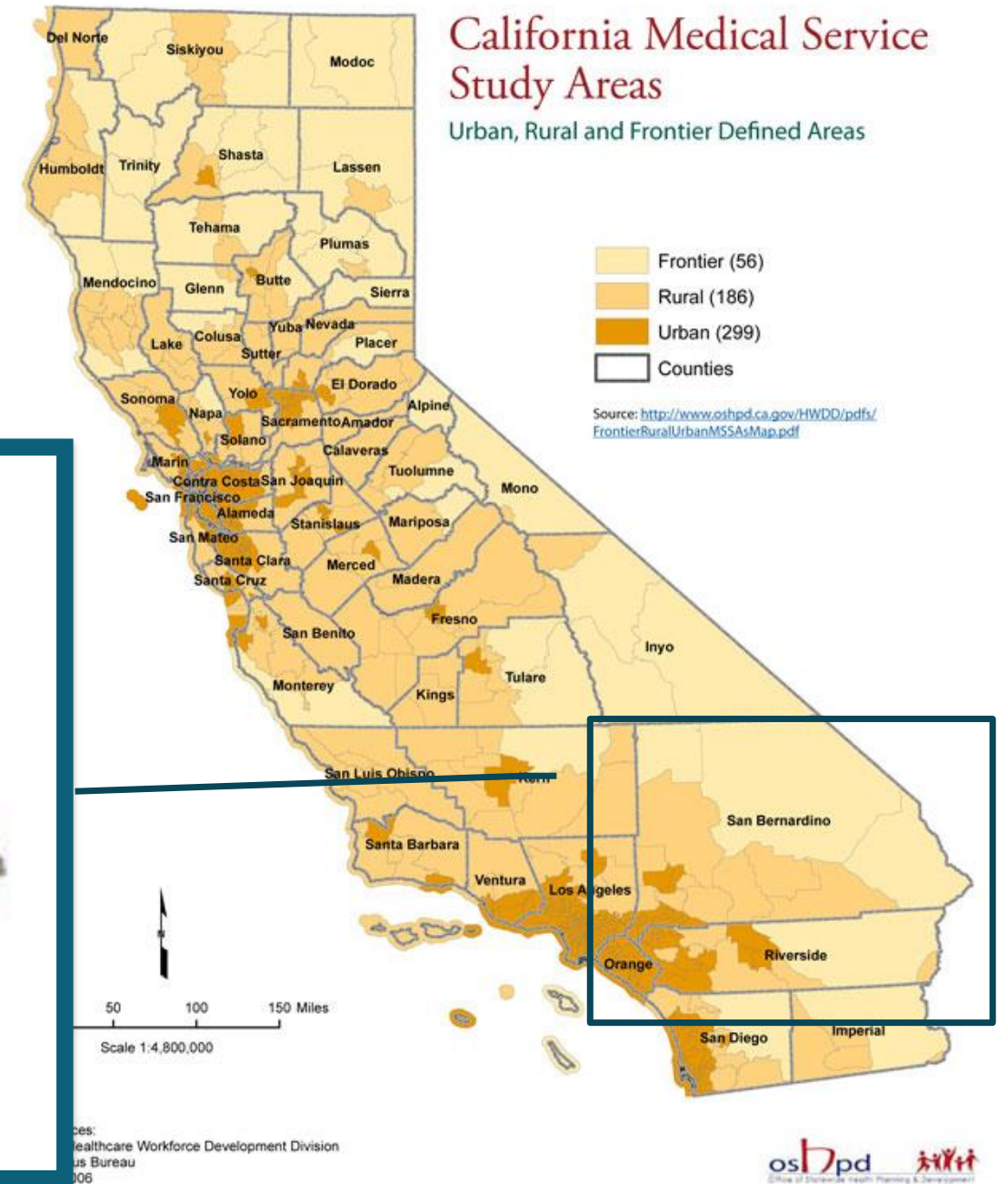
SAN BERNARDINO COUNTY, CA

POPULATION	MEDIAN AGE	MEDIAN HOUSEHOLD INCOME
2.16M	33.4	\$60,420
0.809% GROWTH		7.25% GROWTH
POVERTY RATE	NUMBER OF EMPLOYEES	MEDIAN PROPERTY VALUE
18.2%	901,468	\$326,600
	1.45% GROWTH	7.93% GROWTH

Inland Empire is large and needs its own REN

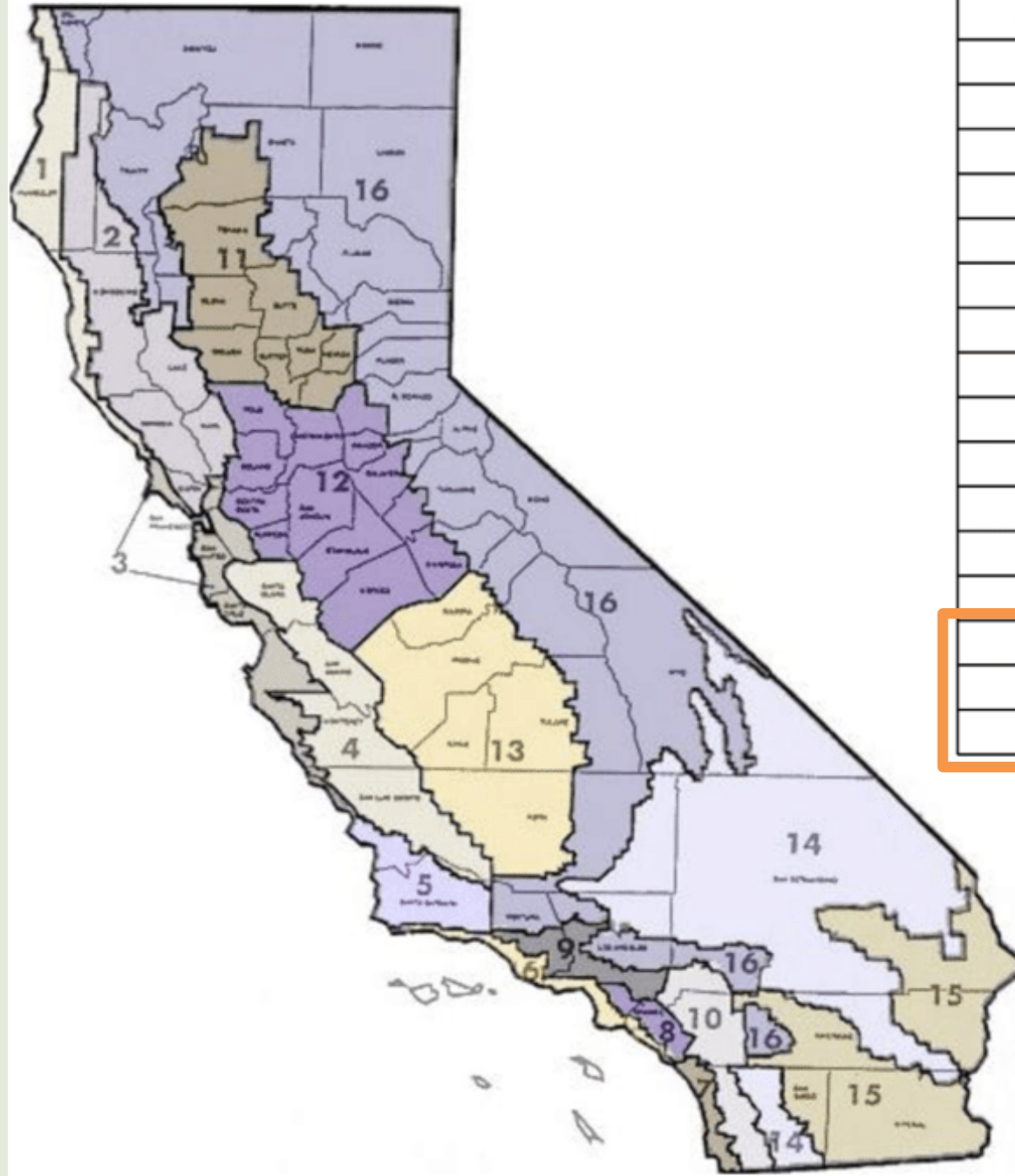
Organization	Counties	# of Cities	Total Population	Geography (Sq. Miles)	Population per Sq. Mile
BayREN	9	101	7,753,023	6,907	1,123
3C-REN	3	25	1,581,504	7,877	201
SoCalREN	12*	220	20 Million +	50,000 +	400+
I-REN	2	52	4.5 Million	27,263	170

Large areas of underserved rural and frontier areas



Climate Zones

Inland area represents greater number of heating and cooling degree days (HDD/CDD) than most of Southern California



CA Zone	Average	
	HDD	CDD
1	4295	15
2	3144	500
3	3071	183
4	2550	666
5	2654	464
6	1383	742
7	1497	865
8	1481	1072
9	1460	1456
10	1685	1620
11	3149	1354
12	2621	1226
13	2443	1599
14	2422	3056
15	1177	4760
16	5057	596

I-REN Vision

Connect the Inland Empire communities to a wide range of energy efficiency resources to increase energy savings and access throughout the region.

Business Plan Goals

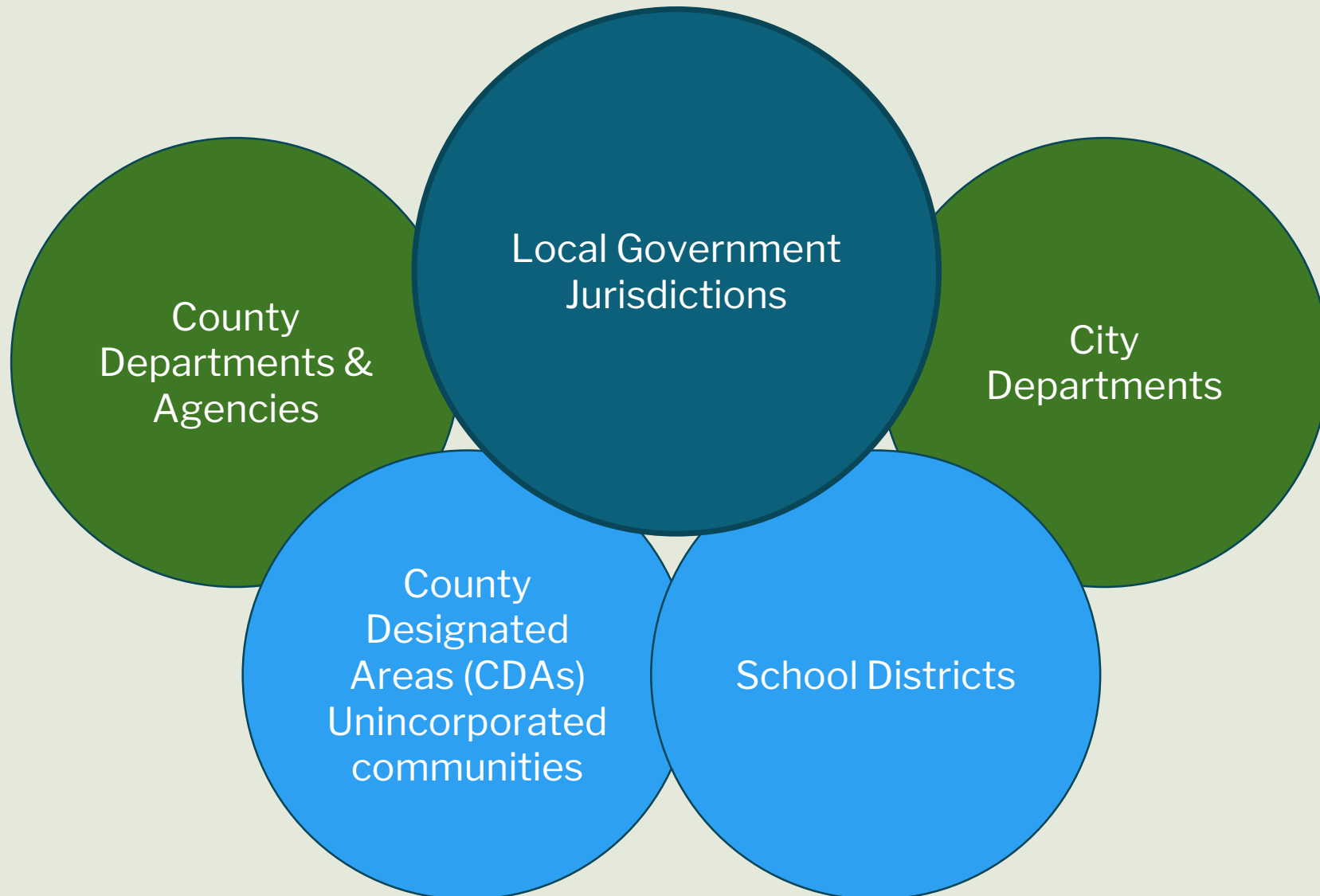
- Goal 1.** Build capacity to enable local governments to become leaders in the provision of energy efficiency services and to demonstrate best practices.
- Goal 2.** Ensure there is a trained workforce to support and realize energy efficiency savings goals across sectors.
- Goal 3.** Work closely with local building departments to support, train, and enable long-term streamlining of energy code compliance.



PUBLIC SECTOR



Key Market Actors



Market Barriers

Lack of understanding of energy efficiency programs, incentives, and process.

Confusion on types of funding or resources and lack of knowledge.

Disconnect between funding sources and timing of energy efficiency upgrades.

Lack of drivers or need for local government agencies to replace existing working, but inefficient equipment.

Frequent changes in the Energy Champions. High turnover in staff. Capacity of government staff.

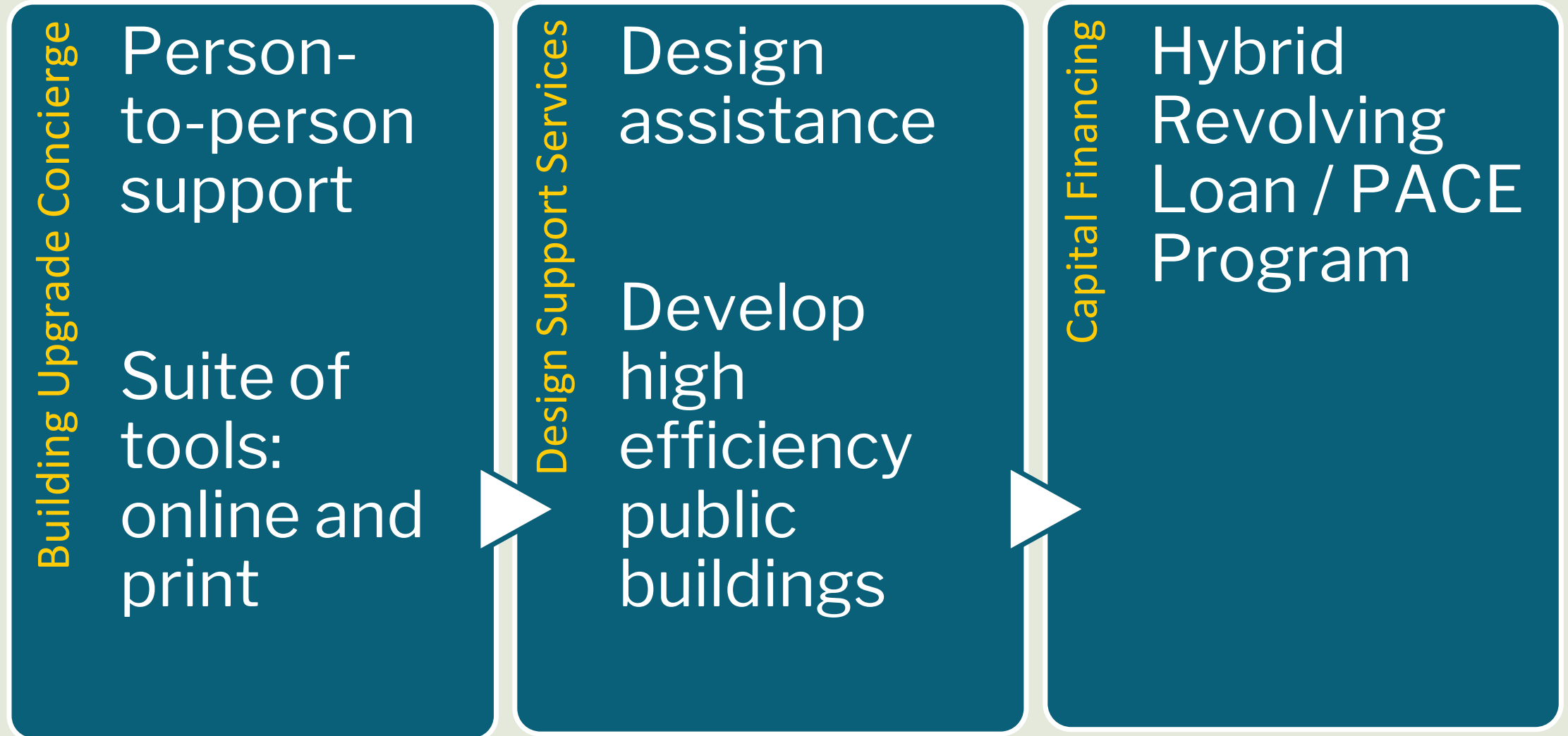
Varied governance, and funding rules that limit ability to take advantage of typical IOU funding/LGP.

Goal 1.
Build capacity
to enable local
governments
to become
leaders in the
provision of
EE services
and to
demonstrate
best practices.

Strategies

- S1.1 Provide strategic energy planning services to local governments and support upgrades with technical assistance and connections to incentives and financing.
- S1.2 Build an energy advocates network, who will routinely rotate from city to city, to assist residents and businesses to access EE services.
- S1.3 Establish incentives and leverage existing financing mechanisms to assist local governments with implementing energy efficiency projects in public buildings.
- S1.4 Develop a regional Building Upgrade Concierge (BUC) for local jurisdictions to tap into EE and distributed energy resources programs offered by other providers and IOUs.

Essential Program Elements

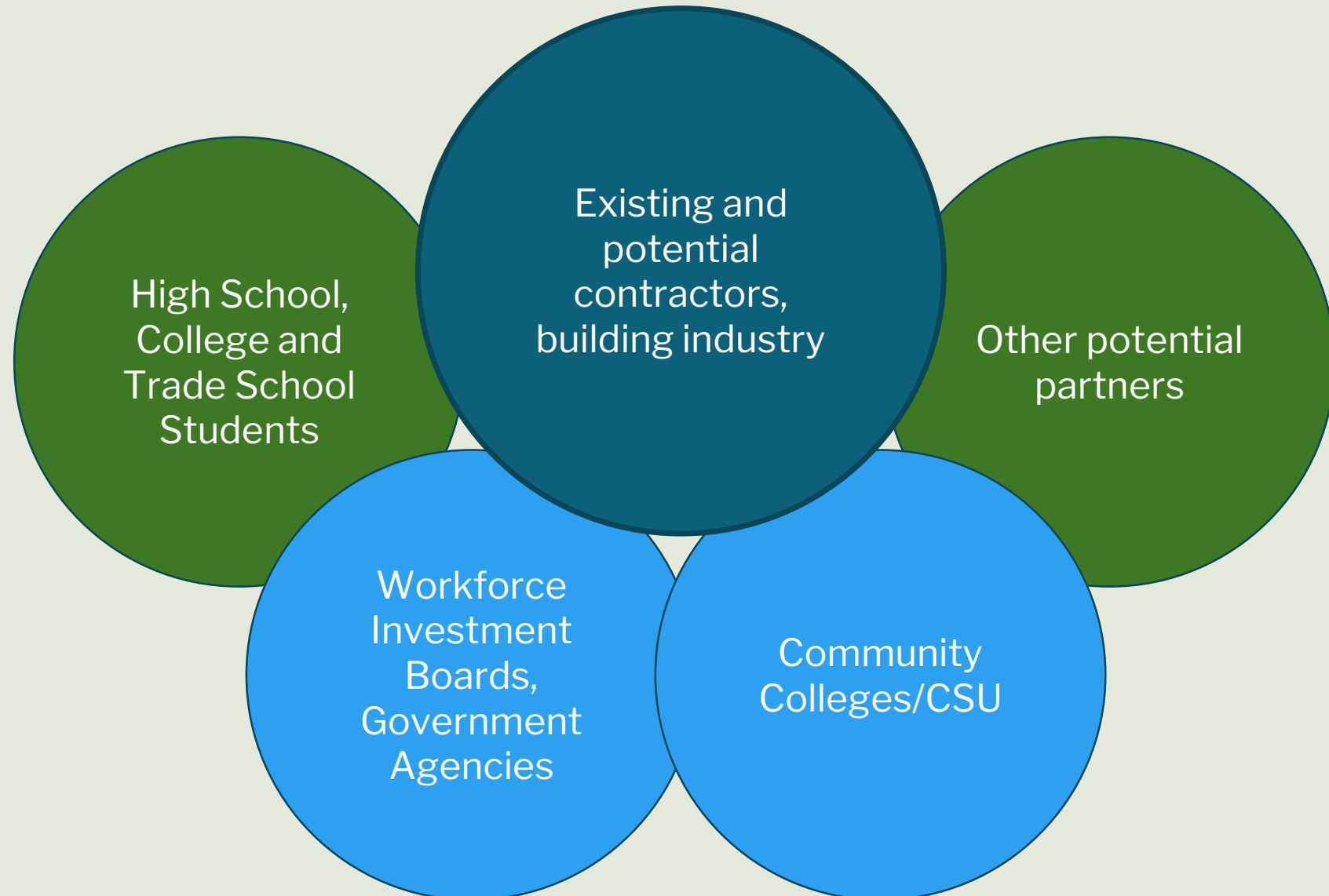




WORKFORCE EDUCATION & TRAINING



Key Market Actors



Market Barriers

Employers' inability to find and retain skilled and qualified workers for the demand.

Limited number of builders in the region who have the required certifications and qualifications.

Lack of qualified workforce in Riverside/San Bernardino Counties, especially in the more remote areas.

Lack of job opportunities in energy efficiency and advanced energy in the region.

Lack of interest or knowledge of the opportunities and benefits of energy efficiency projects.

Trainings and their availability and location are difficult to get to and are not designed for the particular needs of the local market.

Goal 2.
Ensure there
is a trained
workforce to
support and
realize energy
efficiency
savings goals
across
sectors.

Strategies

- S2.1 Establish local partnerships with existing and potential training providers in the region to deliver targeted and relevant energy efficiency training for contractors and industry.
- S2.2 Facilitate industry engagement and development of job pathways to build demand and jobs for a trained workforce.
- S2.3 Work with regional education partners to promote and market energy efficiency educational programs resulting in a certificate or clear learning outcome that supports the regional market.

Essential Program Elements

Local Training

New
Delivery
Channels

Expand
Availability

Workforce Development

Job
Placement

Facilitate
Career
Pathways

EE Certificates/Class Series

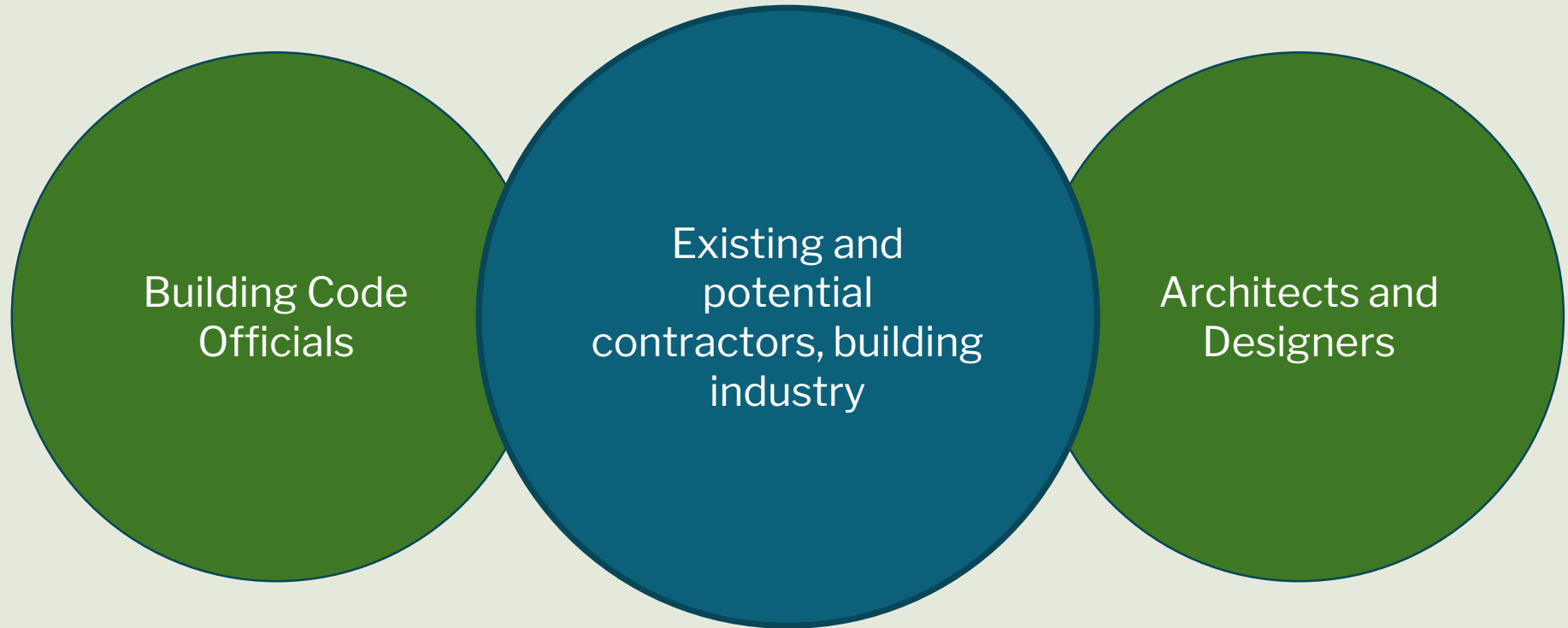
Residential
and small/
medium
commercial
needs



CODES & STANDARDS



Key Market Actors



Market Barriers

Building Department City Staff are overworked and under informed.

Lack of capacity and time to learn details of Title 24 and implement effective means to review or enforce.

Energy efficiency is a lower priority for building departments. Focus is on life and safety issues.

Lack of enforcement of permitting of HVAC systems for existing buildings.

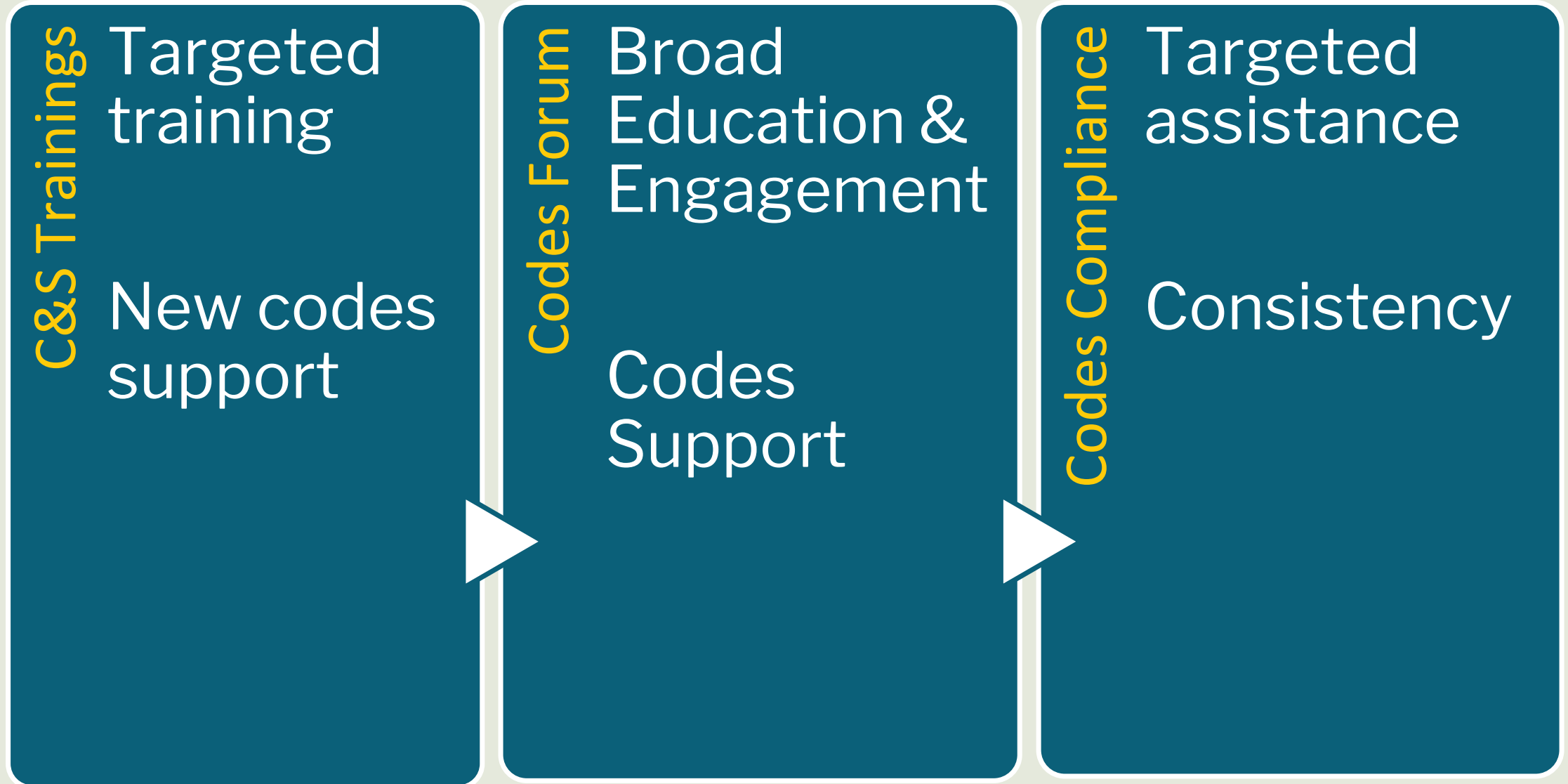
Lack of resources to respond to technical questions and issues with permitting, codes, etc.

Goal 3. Work closely with local building departments to support, train, and enable long-term streamlining of energy code compliance.

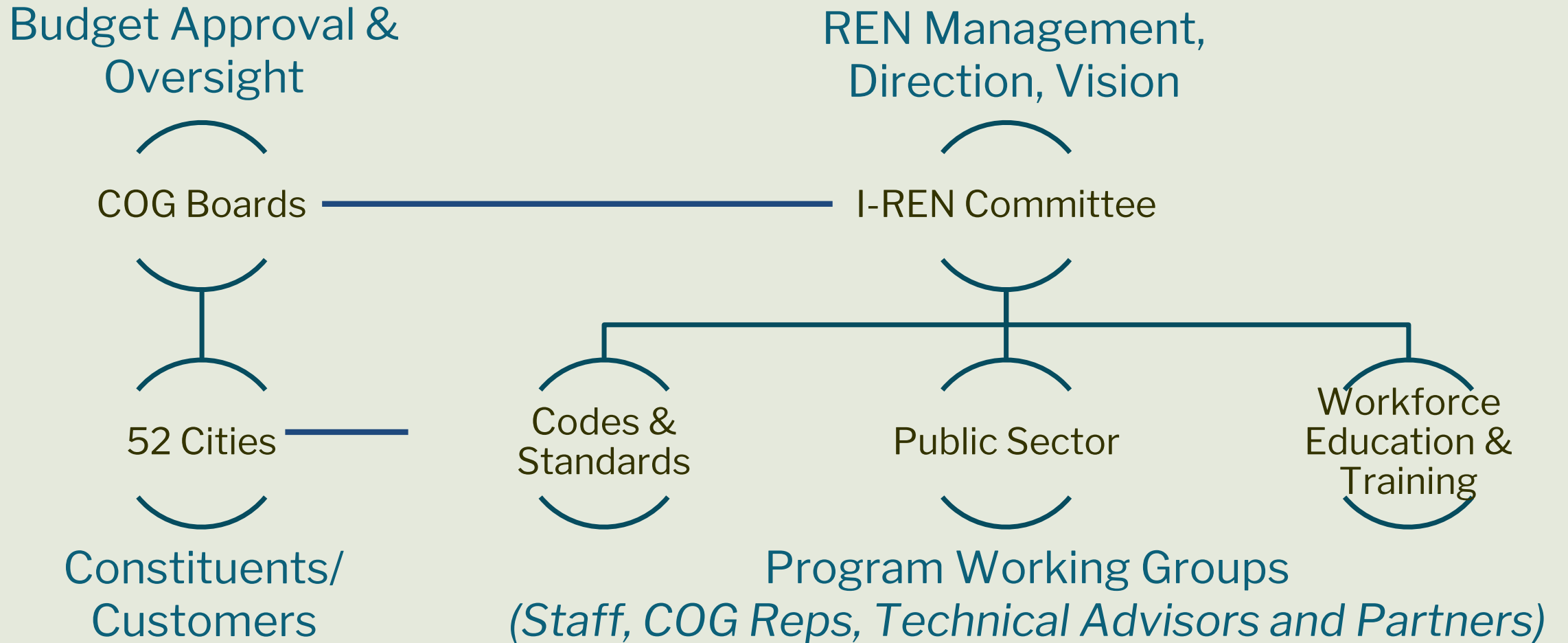
Strategies

- S3.1 Establish an ongoing training program to assist building department staff to support, understand, and effectively implement Energy Efficiency Codes and Standards.
- S3.2 Implement an outreach program to engage, educate and involve regional construction firms and building departments, and support compliance and regional EE programs and customers.
- S3.3 Develop technical assistance tools and resources to assist building departments with understanding, evaluating, and permitting the energy codes.

Essential Program Elements



Proposed Governance Structure



Estimated Annual Budget

Sector	Estimated Budget
Public Sector	\$4 million
Codes & Standards	\$1.2 million
Workforce Education & Training	\$1 million

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An aerial photograph of a valley with a city in the middle ground and a range of mountains in the background. The mountains have some snow on their peaks. The valley floor is a mix of urban areas and agricultural fields.

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