

Extreme Heat

Progressive urban community that is highly diverse in terms of race and ethnicity, languages spoken, and socioeconomic status with a large houseless population

SAMPLE SOLUTIONS



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Progressive urban community that is highly diverse in terms of race and ethnicity, languages spoken, and socioeconomic status with a large houseless population

PROJECT CONCEPT: GOALS & BENEFITS

key components

resilience center with many benefits

not just focused on climate - resilience being beyond climate

community gathering place

safe b/u care (day care, elder care)

cooling center

Provides resources, access to social service benefits

job creation center - community center w/many benefits

covid testing / vaccination centers (nearby or on-site...) -- separate locations for vaxxed people?

occupational retraining from long-haul covid

Battery backup/Charging areas

transitional housing (indoor/outdoor) for houseless pop

Accessibility - transportation, language, potable water, resources (long-term services)

opportunity for nighttime cooling

outcomes/benefits

reduce negative health impacts from extreme heat

Education on heat impacts, solutions, resources

Community connectedness

Stronger sense of community

(re b/u battery) - utility reliability

Proactive strategies will be more cost effective = lower taxes and lower government spending!

having HVAC also serve as a clean air solution during fires

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PROJECT CONCEPT: KEY STRATEGIES

ENGAGEMENT & PARTNERSHIP STRATEGY

vulnerable populations outreach

e.g. older adult outreach

Partner with key trusted CBOs

Outreach through resident leaders

add state agencies and local govs

Outreach in partnership w/health providers/community

heat is already a problem - not a future climate condition

Partner with Hospital Associations

add potential funders to engagement

FUNDING & FINANCING

reevaluate budget priorities to align w/community health needs

find political champion w/will to progress initiatives

make the case that this saves money too - (reduce health costs, insurance costs etc)

manage different climate impacts - not maladaptive; land use consideration; balancing community demands; fresno is successful with infill (beautification to the community) while successfully navigating reduction

Community member: concerned about location/NIMBY; other community member would want to know how quick to build it to meet need of current problem; how to be notified of services

Funder: be convinced that it would actually work; that it will provide value to the community; how quickly see returns on investment

State agency: how many cities/how many counties - how do you prioritize, since there's only so much money - how do you choose the CBO; consult a couple of different tools (CES); find case studies

MONITORING & EVALUATION STRATEGY

cost effectiveness of extreme heat mitigations (also good for non-climate folks)

reduced hospitalizations / death

Survey users on use of the resilience center - benefits/knowledge gained, how connected they feel to their community

engaging epidemiology research community (looking at increased stroke, heart attack... find measure to track these to heat wave) - look at 2006 heat wave study and NAS study on natural hazard

still need for tool that allows for appropriate identification of impacted communities - combo of climate impacts & "social" vulnerability (EPA UHI tool, Alameda)

use community centers to do some of the community building - identifying older adults, people w/out AC - community climate action squad

engage research early to figure out the right questions to ask; but be sure to make sure this doesn't turn people away.

Drought

Politically diverse county with a mix of urban, suburban, and rural communities, a highly active and engaged CBO network, the largest agriculture sector in the state.

SAMPLE SOLUTIONS

Green Infrastructure

Residential Water Use Restrictions

Commercial Water Use Restrictions

Retrofits for Water Efficiency

Grey Water Systems

Water recycling (more treatment than greywater reuse)

Agricultural Water Efficiency Revolving Loan Fund (or community grant/loan program)

Drought-Resistant Landscaping and crops

Drought-Tolerant Crops

Livestock / Herd Management

Rainwater Harvesting

Preservation of Groundwater Recharge Zones

crop value

no fracking

no desalination



hydroponics / greenhouses - energy intensive - water savings?

Individual solutions don't work - rational integration - link with a transition plan

Water Efficient Irrigation Upgrades for Agriculture - cooperative system / farm bureau - e.g. drip systems outreach

Smart Water Meters

Agri-voltaics - solar cells or wind on Agri land to permit different age uses and generate power - multiple co-benefits

Agriculture Water Market Solution - groundwater management area - voluntary monitoring -market based system - water pricing and markets - economic strain on small agriculture

Social aspect - workforce education - crop transition - just transition

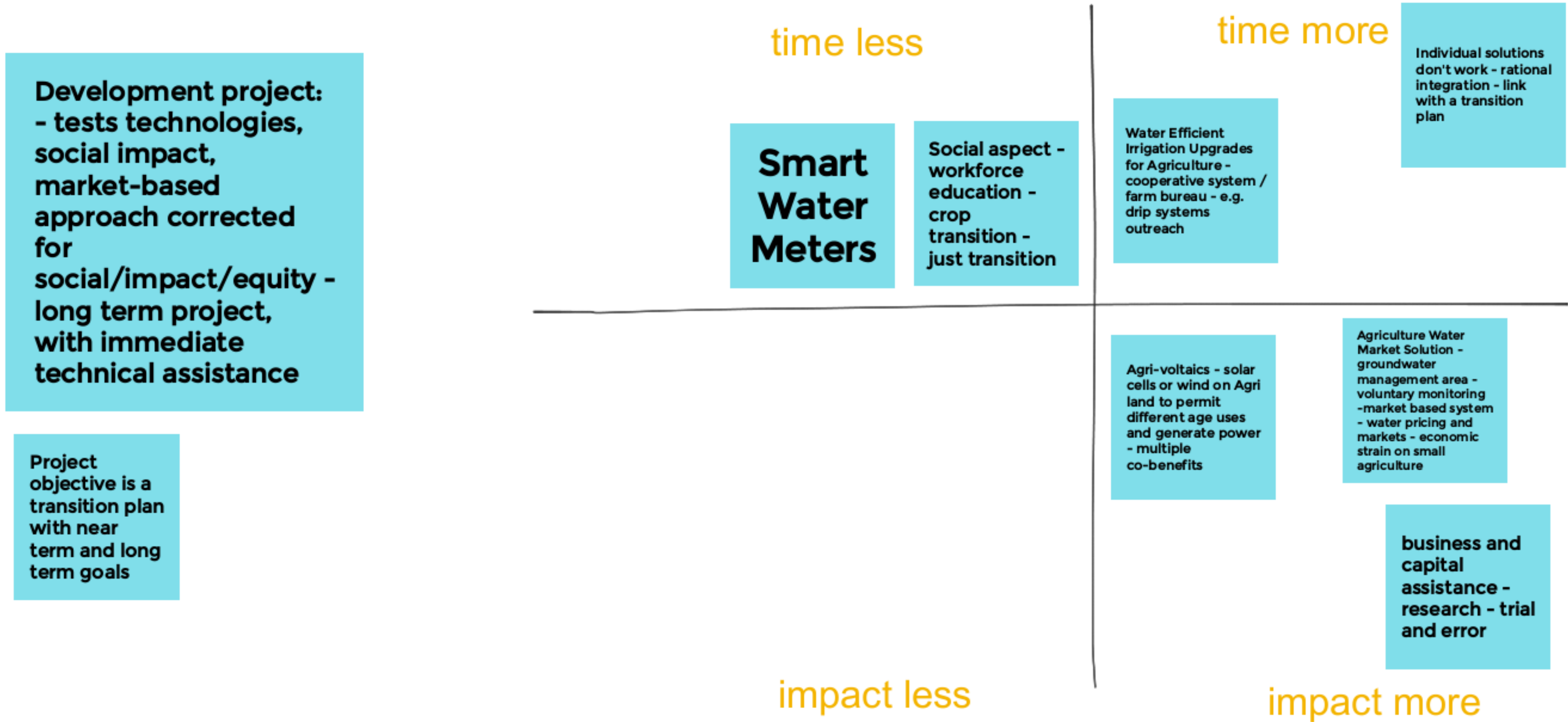
business and capital assistance - research - trial and error

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PROJECT CONCEPT: GOALS & BENEFITS

COALITION FOR SILO-BUSTING AGRICULTURE



Drought

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PROJECT CONCEPT: KEY STRATEGIES
COALITION FOR SILO-BUSTING AGRICULTURE

ENGAG

EGY

Silo busting --
Development project:
- tests technologies,
social impact,
market-based
approach corrected
for
social/impact/equity -
long term project,
with immediate
technical assistance

Project
objective is a
transition plan
with near
term and long
term goals

Social aspect -
workforce
education -
crop
transition -
just transition

**water
rights**

efficient
n Upgrades
culture -
cooperative system /
farm bureau - e.g.
drip systems
outreach

Individual solutions
don't work - rational
integration - link
with a transition
plan

FUNDING & FINANCING STRATEGY

Agriculture Water
Market Solution -
groundwater
management area -
participant water
monitoring -market
based system - water
pricing and markets -
economic strain on
small agriculture

**business and
capital
assistance -
research - trial
and error**

Federal
programs and
funding -
efficiency and
quality
programs

**Short term -
emergency ; long
term - project
development Budget -
roles, timing,
organizational -
programs to
implement and test,
phasing; immediate
needs. Emergency
finding of resources -
executive order.**

MONITORING & EVALUATION STRATEGY

Silo busting -
Coalition of partners
including agency
(local, state, fed),
research, growers
and CBO's

Smart Water
Meters- users
and
groundwater
metering

**Delivery
of water?**

Wildfire

Rural community with many Tribes and Native communities, a tourism-based economy, and an older, lower-income population with limited access to data and service.

SOLUTIONS



Wildfire

Rural community with many Tribes and Native communities, a tourism-based economy, and an older, lower-income population with limited access to data and service.

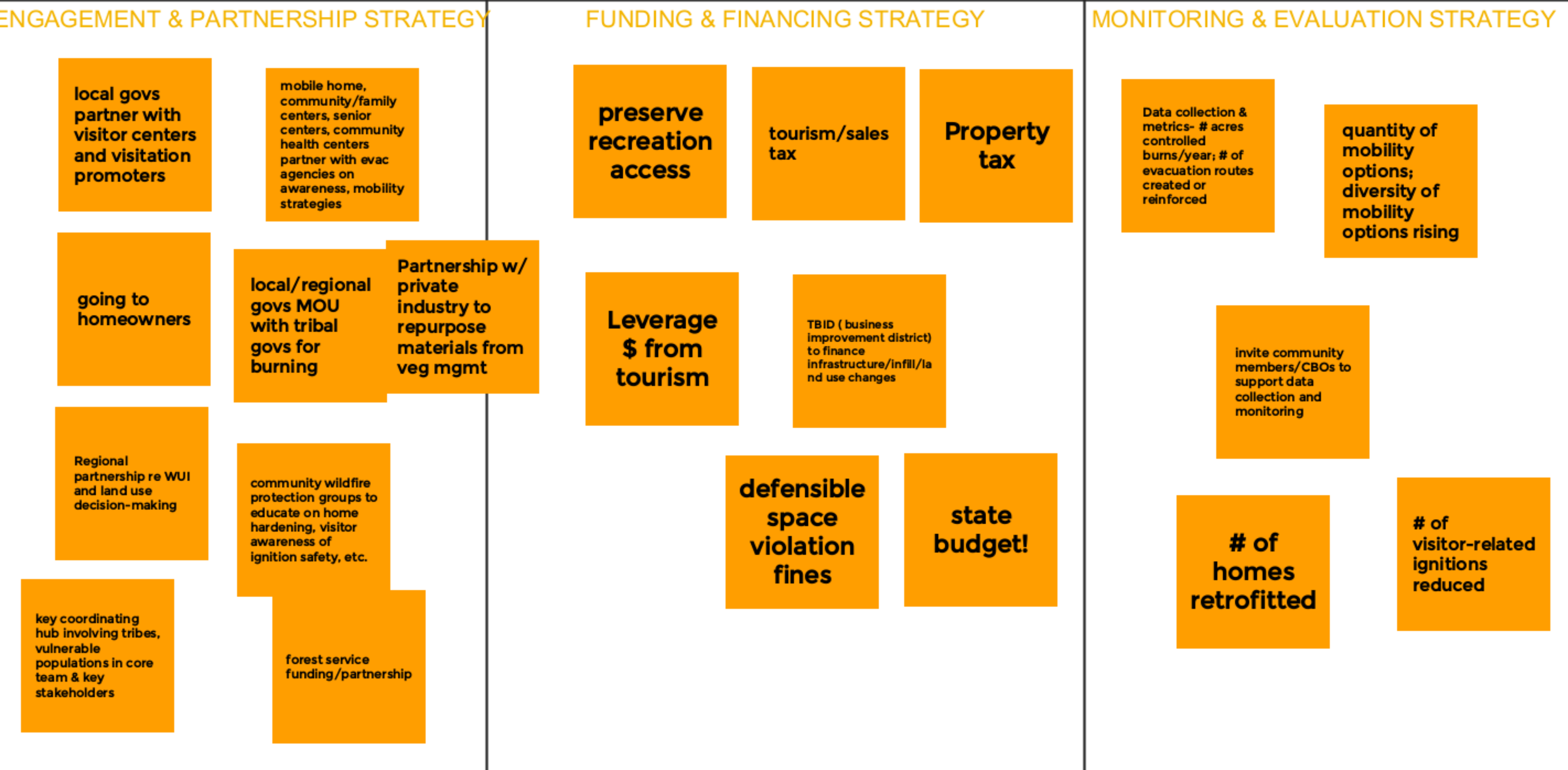
PROJECT CONCEPT: GOALS & BENEFITS



Wildfire

Rural community with many Tribes and Native communities, a tourism-based economy, and an older, lower-income population with limited access to data and service.

PROJECT CONCEPT: KEY STRATEGIES



Sea Level Rise

Highly developed coastal community with beaches providing recreational value and a service-driven economy supported by a large undocumented population.

SAMPLE SOLUTIONS

**Living
Shorelines**

**Wetland
Conservation/
Restoration**

**Physical
Barriers**

**Coastal
Armoring
(levees, sea
walls, etc.)**

**Elevate
Structures**

**Floating
Development**

**Floodable
Development**

**Managed
Retreat**

**Harden
Critical
Infrastructure**

**Relocate
Critical
Infrastructure**



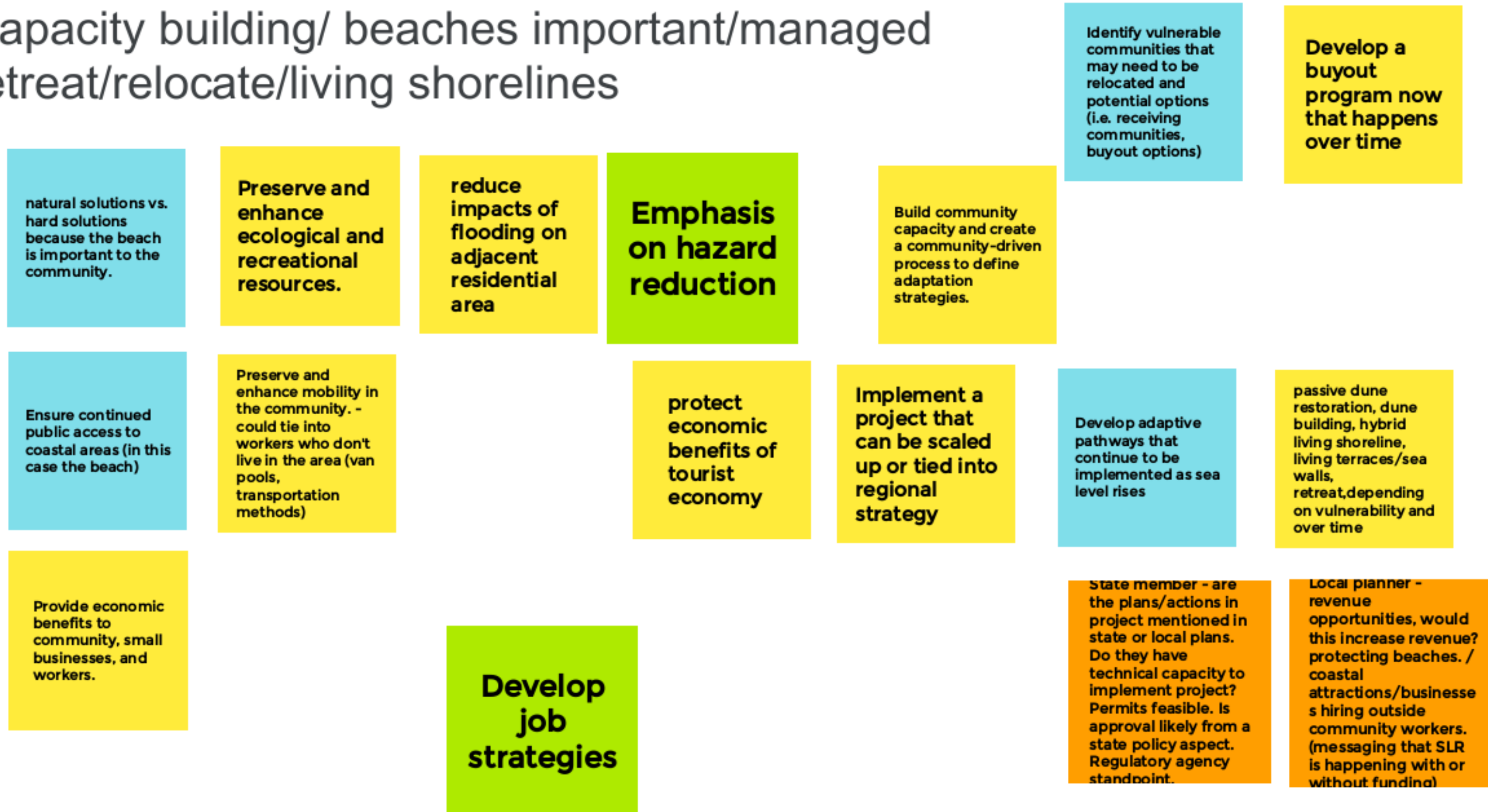
Capacity building/ beaches important/managed retreat/relocate/living shorelines

Sea Level Rise

Highly developed coastal community with beaches providing recreational value and a service-driven economy supported by a large undocumented population.

PROJECT CONCEPT: GOALS & BENEFITS

Capacity building/ beaches important/managed retreat/relocate/living shorelines



Sea Level Rise

Highly developed coastal community with beaches providing recreational value and a service-driven economy supported by a large undocumented population.

PROJECT CONCEPT: KEY STRATEGIES

ENGAGEMENT & PARTNERSHIP STRATEGY

Build community capacity and create a community-driven process to define adaptation strategies. Design project to incorporate community values while balancing multiple-benefits.

Community member - people may be concerned about property values!

Community member /funder- don't fall into trap of implementing short term solutions that don't make a lot of sense. Consider environmental justice and long-term solutions.

Build community capacity and create a community-driven process to define adaptation strategies.

Community member - how to compensate, people have jobs and need childcare, being respectful of their time and make it easier to participate

Preserve through curveball and be consistent with messaging

Large effort to hold workshops and other engagement strategies. Multiple opportunities to review the project before it is implemented. Also, include how to incorporate community into project and long-term.

Build community capacity and create a community-driven process to define adaptation strategies.

reps in community working groups so they can understand the challenges at a local level and be involved in the project and understand regulation at local level. State as partner not layer of project. Increase capacity of

Consider legislative outreach strategy

Identify the organizations and people who are trusted by the undocumented community. Include them and provide resources to ensure they can participate

Communicate as economic development project that considers SLR, hazard reduction

Community member - Education and outreach beyond community environment

SLR vulnerability study is completed, translate results to community to identify adaptation strategies

Regional framework/regional principles worked on with state representations and local jurisdictions. If consistent with those principles - maybe don't need state reps at meetings

City would be the lead

NGOs - on the ground community orgs

Community-based, Faith-based orgs, local agencies, tribes

FUNDING & FINANCING STRATEGY

Coastal Conservancy, FEMA, NOAA, CALtrans

Local push for city support

Analysis of potential funding strategies for buyout if/when retreat/relocation is needed. Current efforts revolving city funds.

More state and fed bills to create funding sources

Build project in adaptation stages, prioritize with community, allows to identify funding sources to implement in stages or build upon projects

Communicate as economic development project that considers SLR, hazard reduction

Develop job strategies

Emphasis on hazard reduction

MONITORING & EVALUATION STRATEGY

Yes

Monitoring and identification of trigger points to implement adaptation pathways

Develop comprehensive monitoring plan to measure whether project meets goals.

Funders - does project have multiple benefits

Develop methods and metrics to evaluate goals with the community. Would help hold the city and who is implementing accountable.

Funders - is project feasible and will it be effective. Transferability (not one offs, wants to see it replicated), community engagement and commitment (match, engagement plan), is a plan in place to implement