

Sustainability and Cities

A Mind-Blowing Exposition...in 20 minutes.

No Pressure

480.216.9152 colin@s-2consulting.com s-2consulting.com

((mind-blowing stuff for today))

Boring Bona Fides

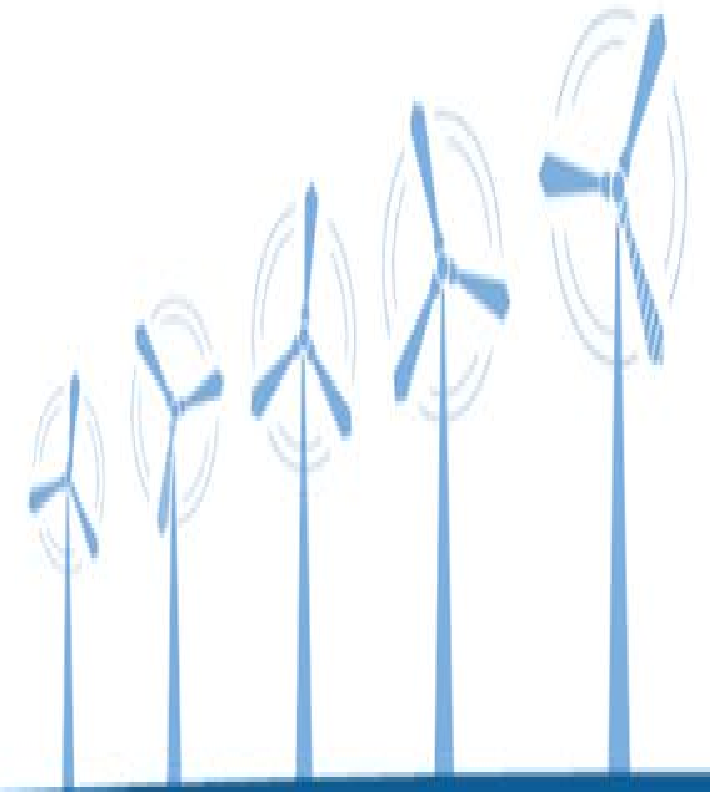
What is Sustainability / Case for Why

Previous Workings

Top-level and Department Examples

Opportunities and Partners

Discussion



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((boring bona fides))

- Make master problem solvers & Change Agents
 - Faculty & Manager, ASU School of Sustainability
 - Policy & Government Innovation; Enterprise Strategy & Ops; Energy
- Do Well & Do Good
 - Principal, S2 Consulting
 - PetSmart, Intel, Starbucks, City of Phoenix, AVNET, NCAA
- Recovering Policy Hack
 - Senior Policy Advisor, Mayor Greg Stanton, City of Phoenix
 - Executive-on-Loan; Policy, not Politics

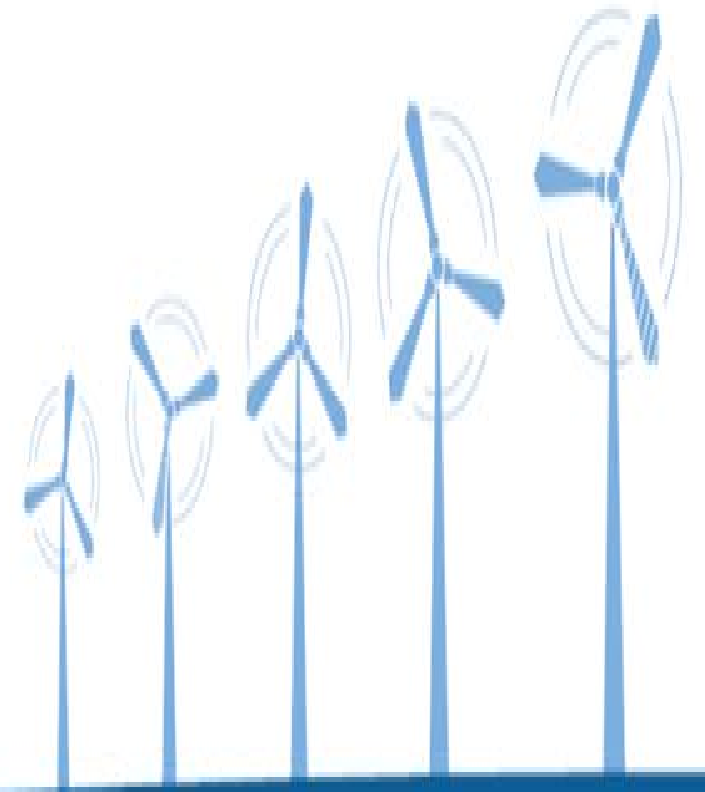
((boring bona fides))

Increase Revenue and Innovation

Mitigate and Manage Risk

Advance and Increase Brand

Also, touch lives and pave dreams, no big deal.

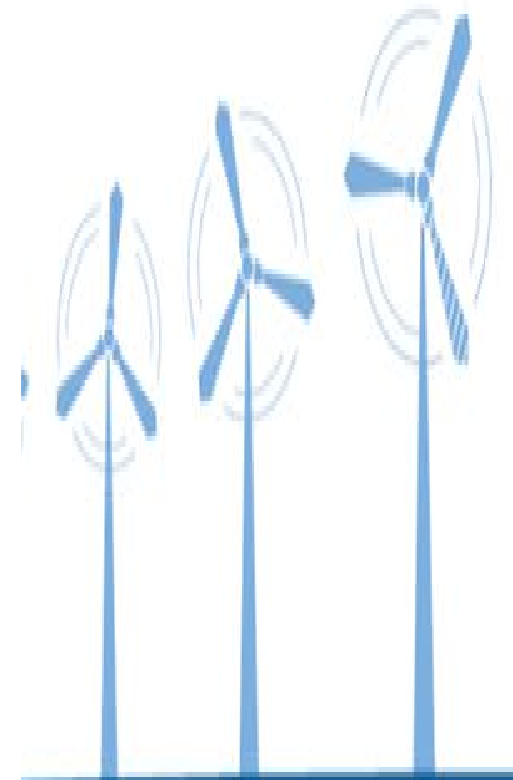
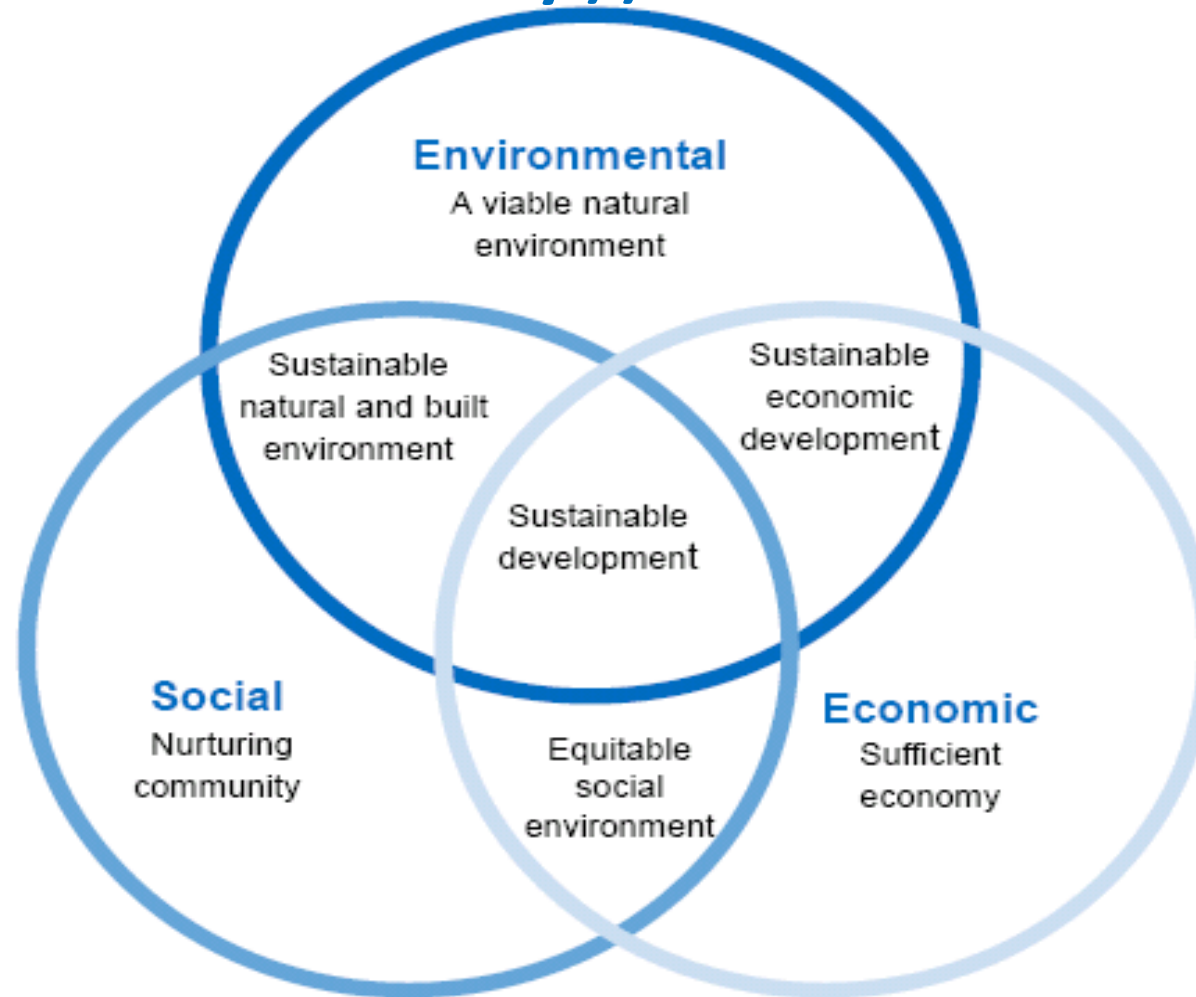


((awesome bona fides))

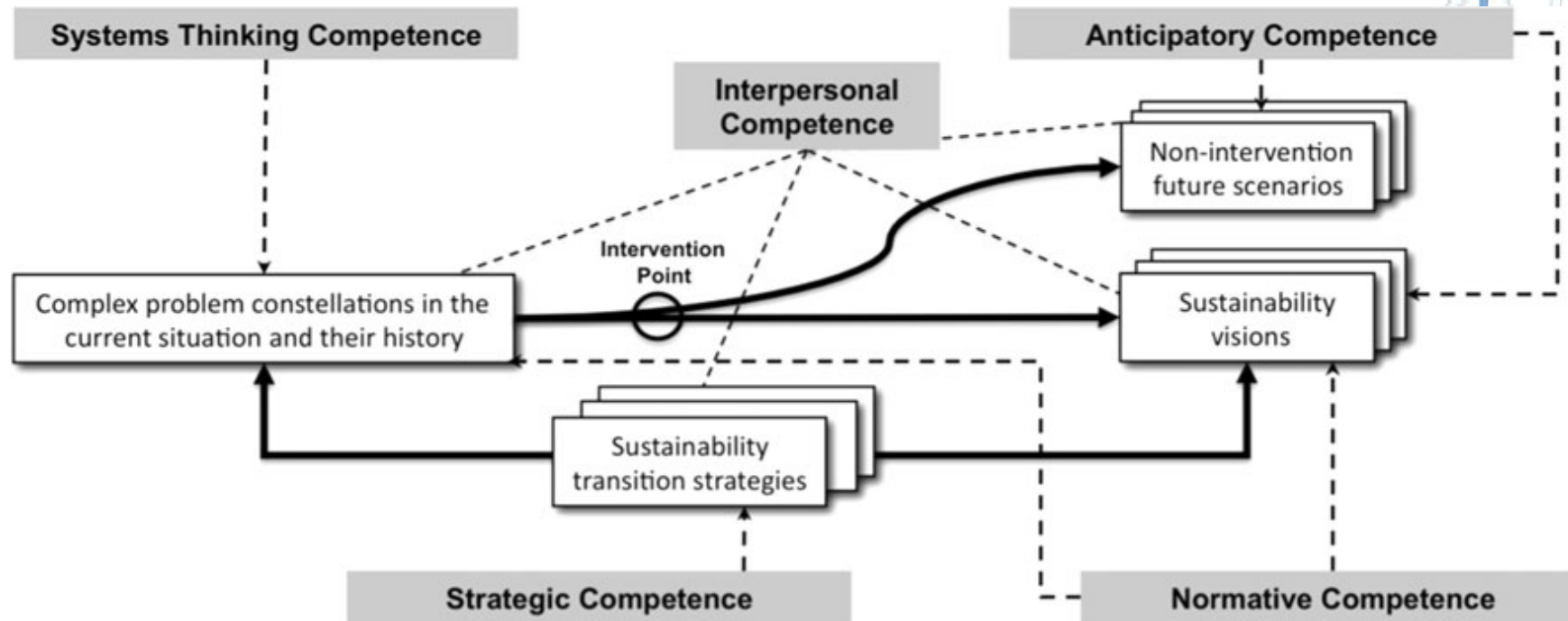


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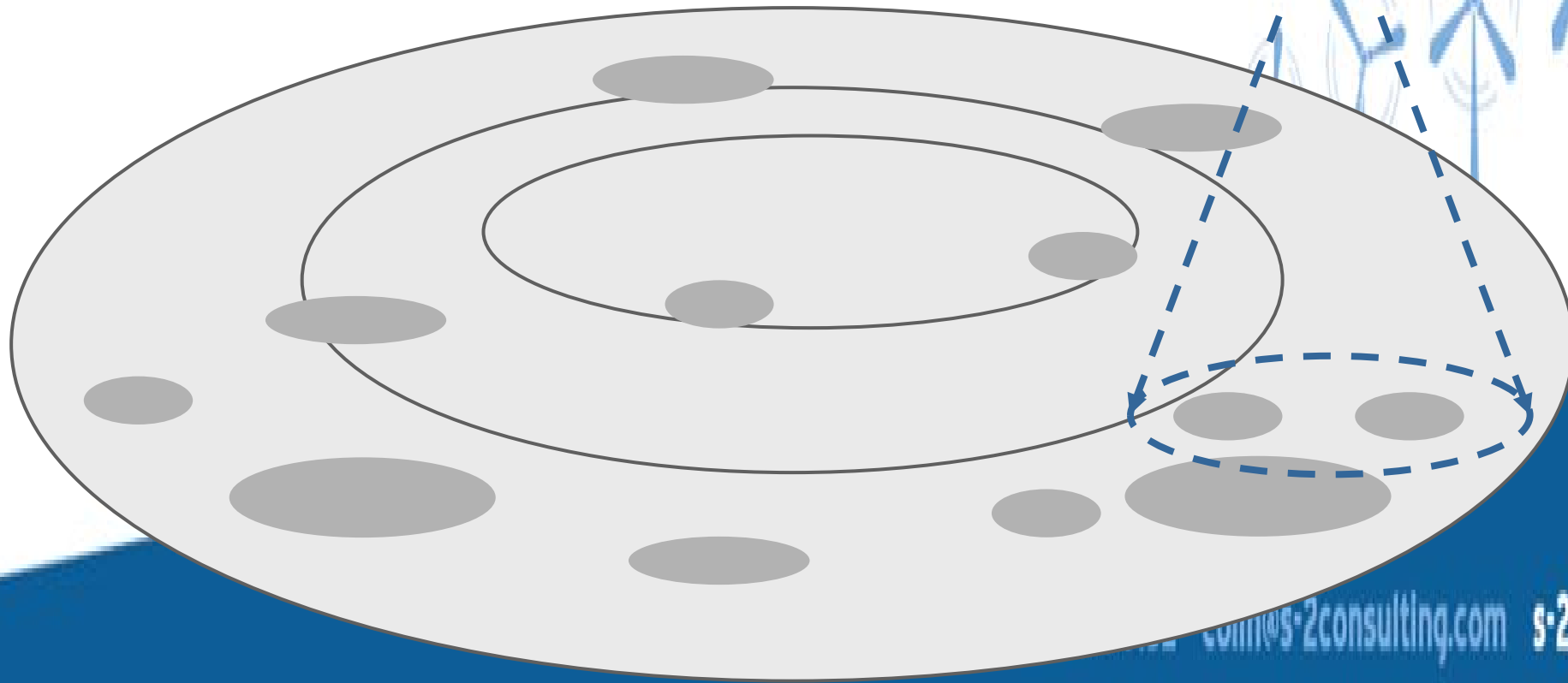
((what is sustainability))



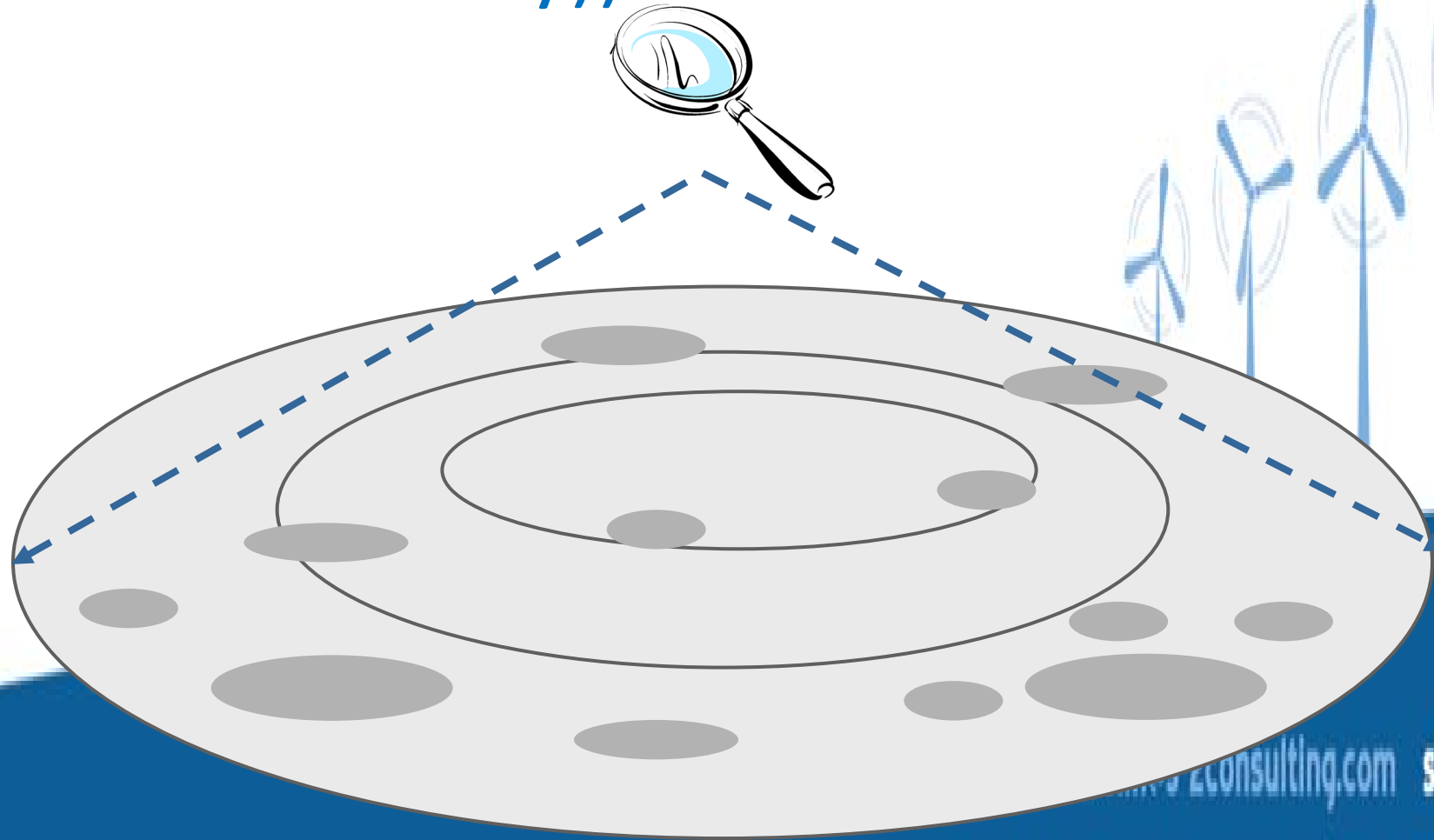
((what is sustainability)) – it's a science...fact



((what is sustainability)) – old view of solutions



((what is sustainability)) – rad view of solutions

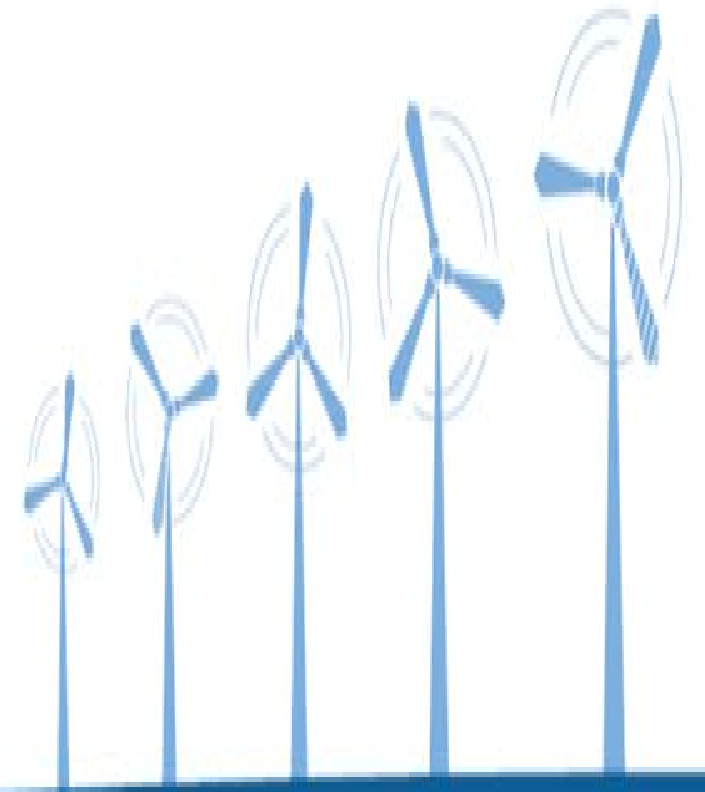


((what is sustainability))

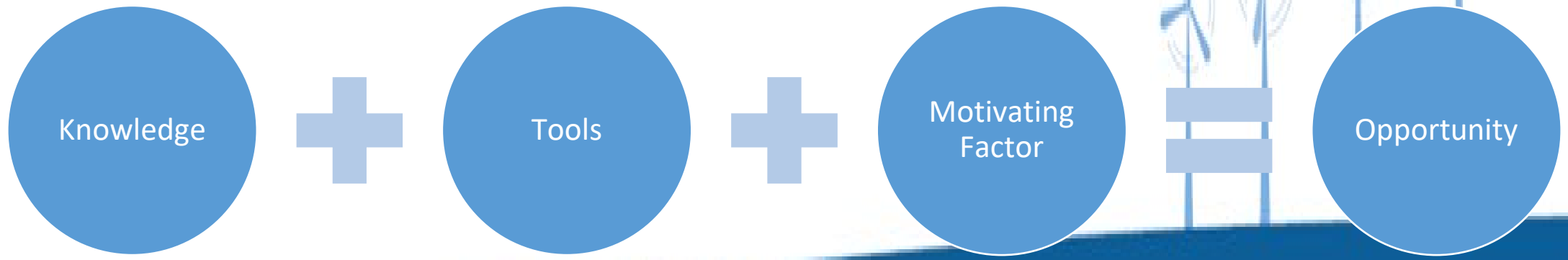
Mitigate and Manage Risk

Drive Innovation and Revenue

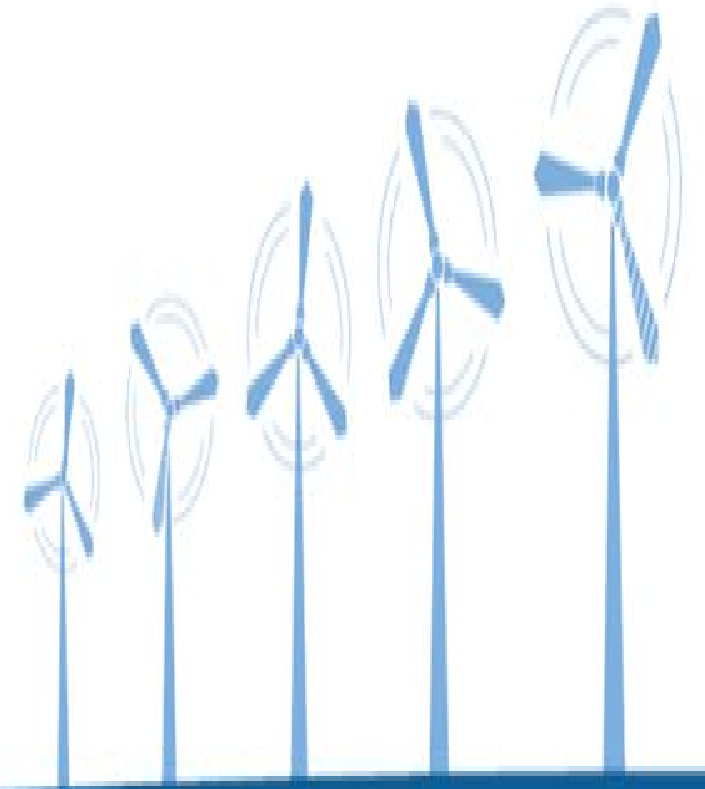
Increase the Brand



((what is sustainability)) – sustainability equation



((case for why))



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((case for why))

Community



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((case for why))



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((case for why))



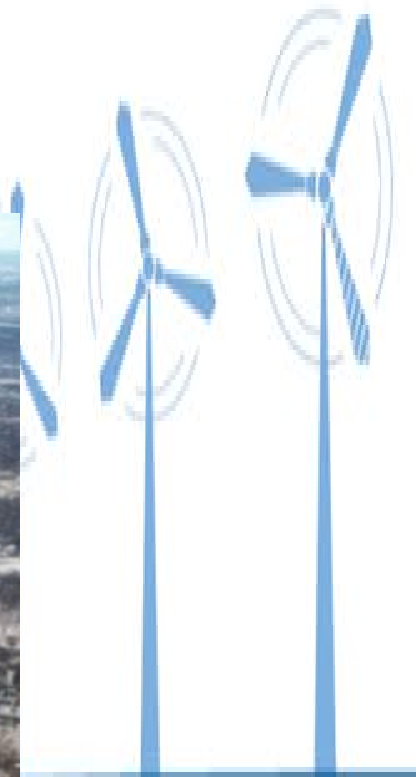
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((case for why))



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((case for why))

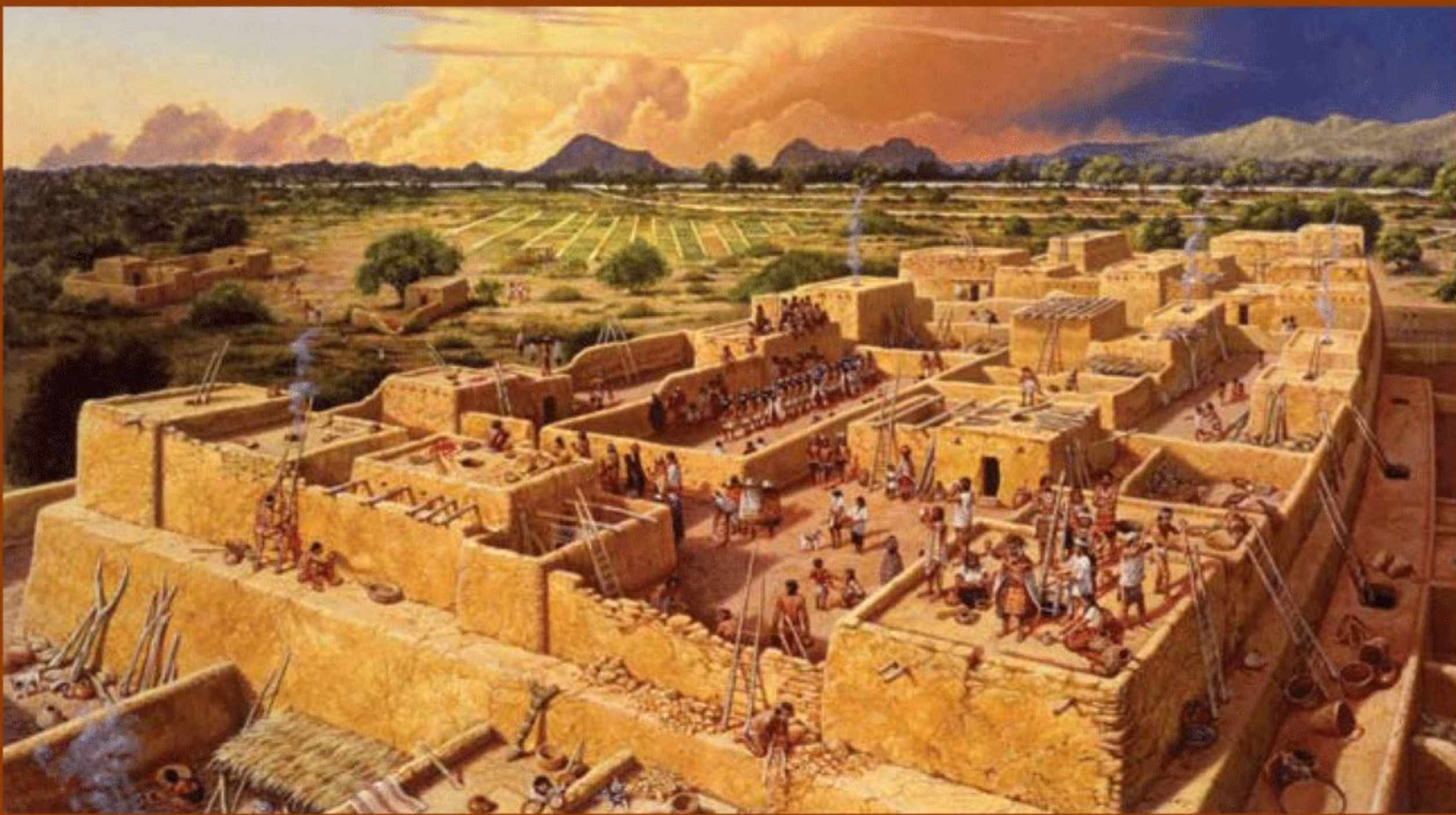


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((case for why))



om s-2consulting.com



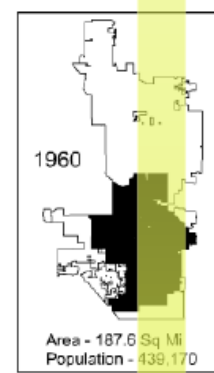
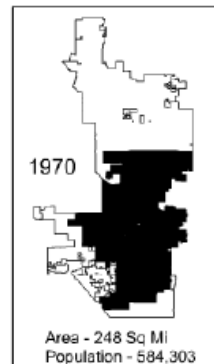
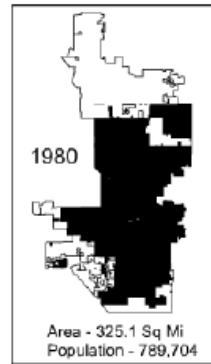
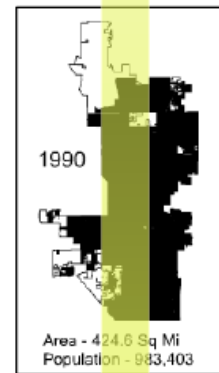
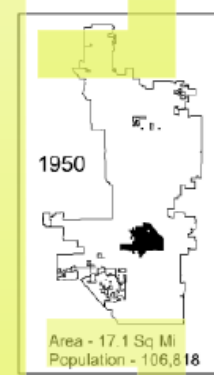
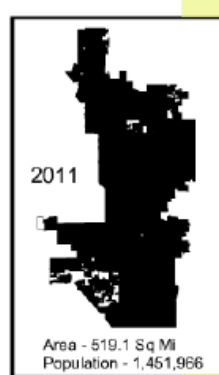
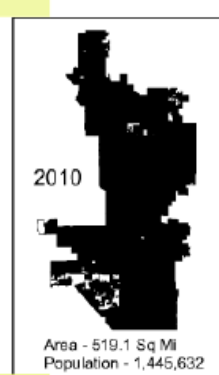
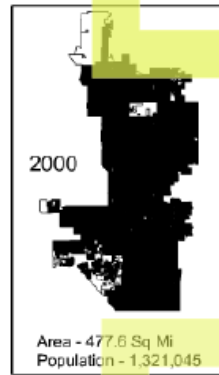
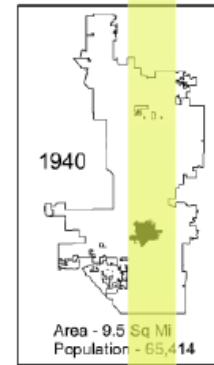
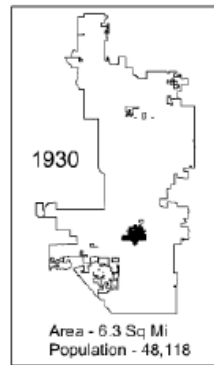
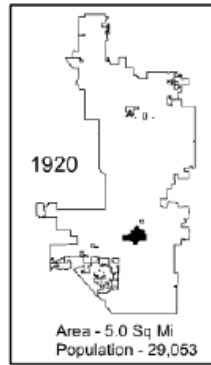
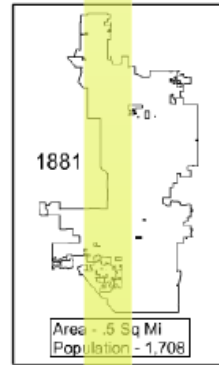








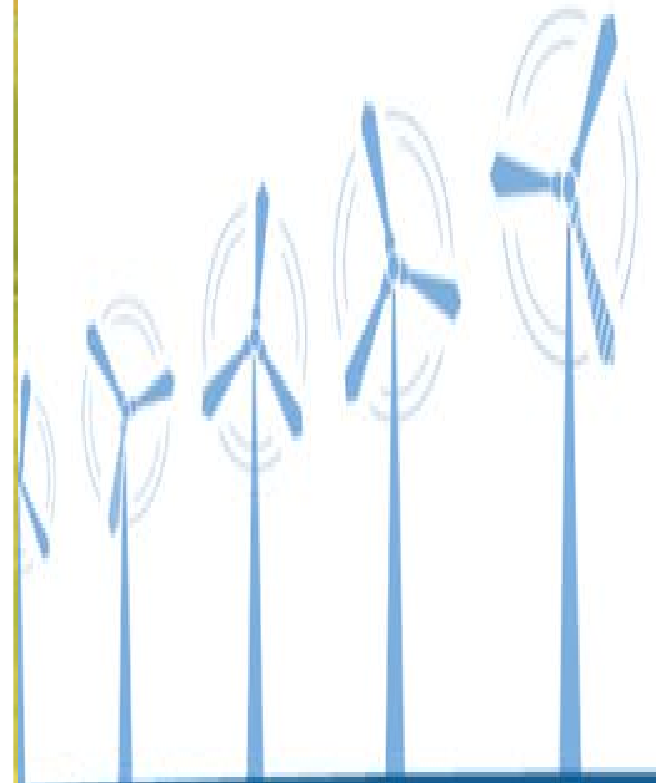
PHOENIX GROWTH



SOURCES:

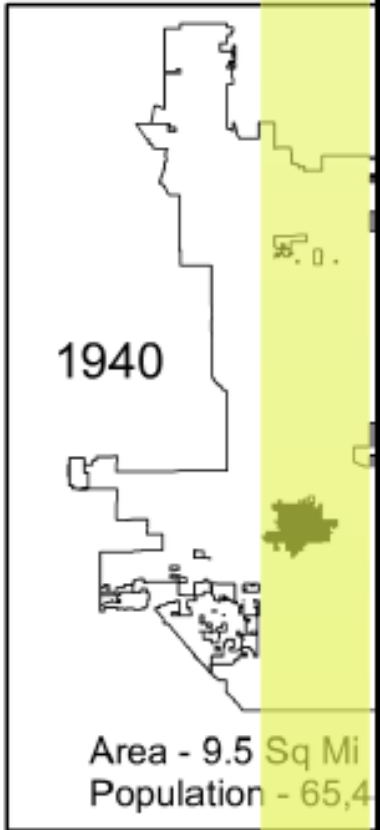
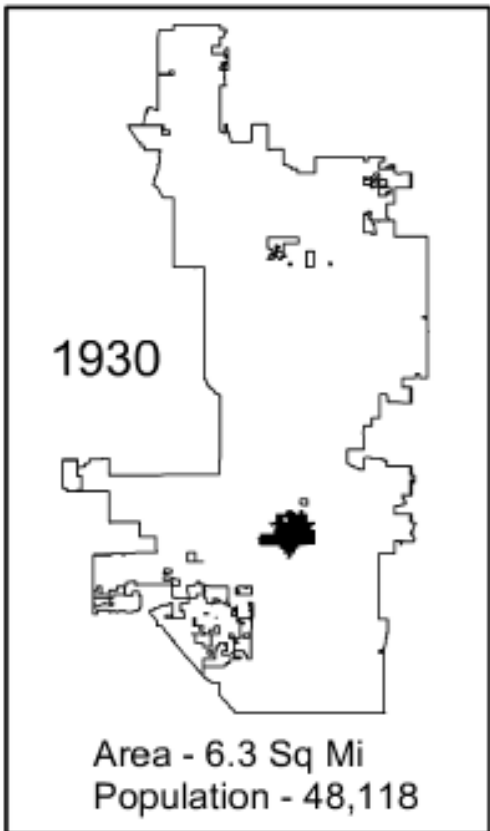
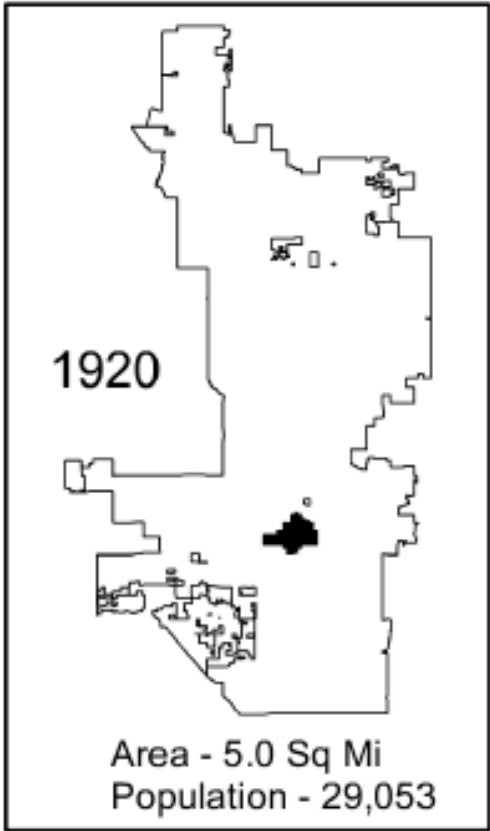
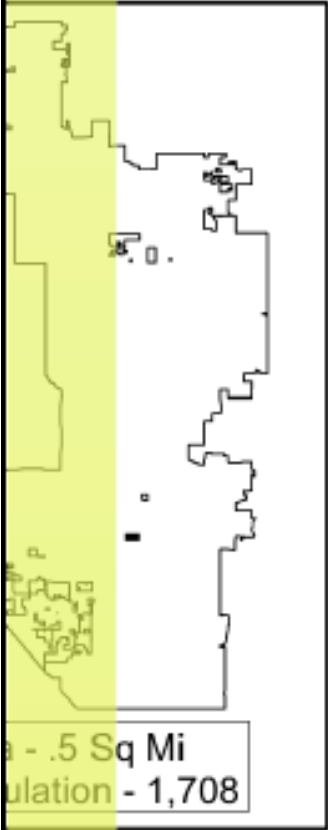
1. US Census Bureau. "1980 through 2010 Census Data." Washington D.C. April 1, 2010.
2. City of Phoenix City Clerk Department. "Area in Square Miles." Phoenix, Arizona. March 2011.
3. Arizona Department of Administration. "Population Estimate for July 1, 2011." Phoenix, Arizona. December 15, 2011.

Planning and Development
Department
March, 2012



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PHOENIX GROWTH

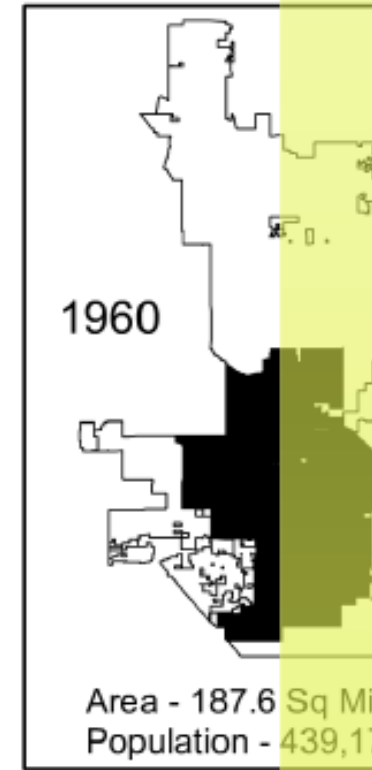
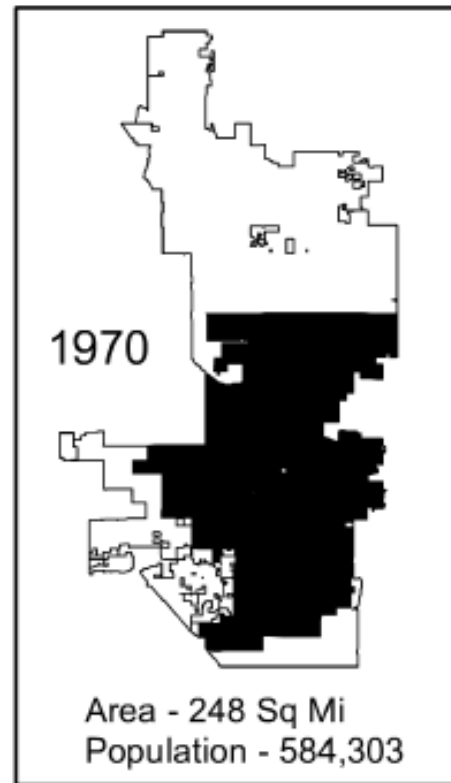
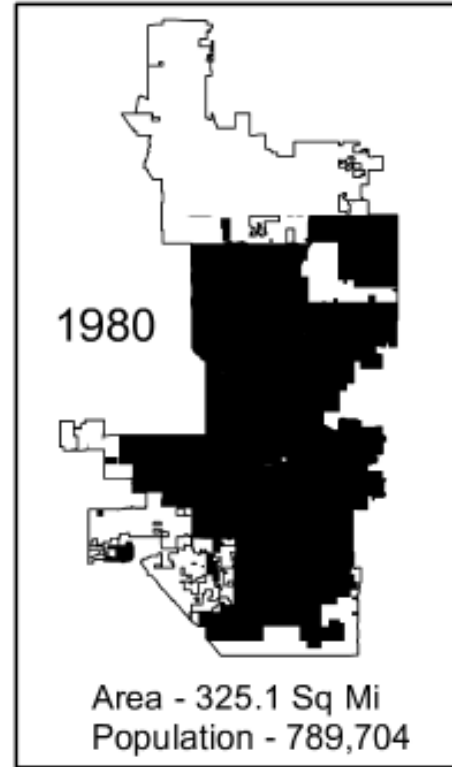


7.6 Sq Mi
Population - 1,321,045

Area - 519.1 Sq Mi
Population - 1,445,632

Area - 519.1 Sq Mi
Population - 1,451,966

Area - 17.1 Sq Mi
Population - 106,8



u. "1880 through 2010 Census Data."
ril 1, 2010.

ty Clerk Department. "Area in Square
ona. March 2011.

ent of Administration. "Population Estimate
oenix, Arizona. December 15, 2011.

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Department
March, 2012

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2010



Area - 519.1 Sq Mi
Population - 1,445,632

2011



Area - 519.1 Sq Mi
Population - 1,451,966



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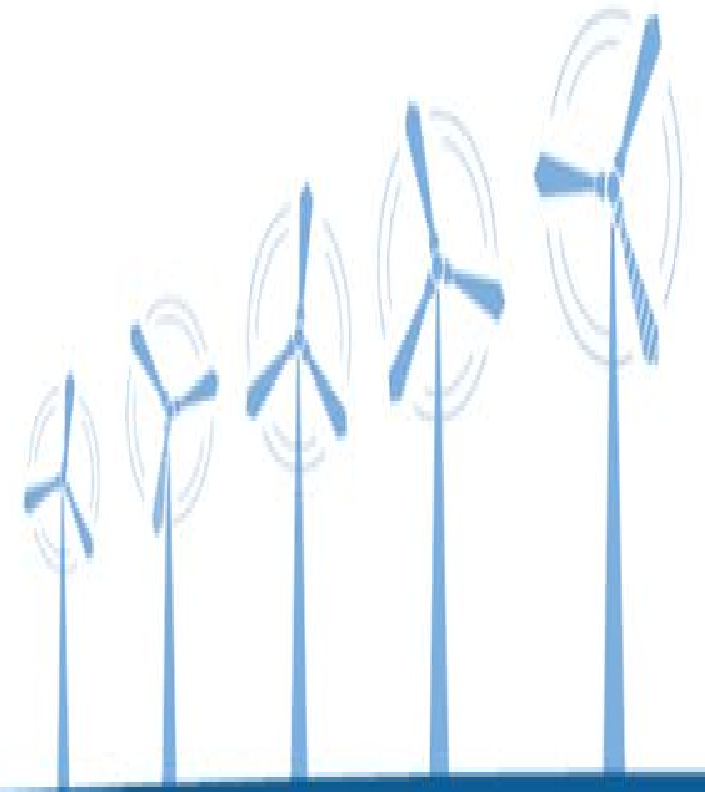


NORTH
I-55
McCormick



((case for why))

- For Cities and Governments
 - Mitigate and Manage Risk
 - Act in streamlined and efficient manner
 - Steward taxes and constituent services, well
 - Drive Innovation and Revenue
 - Find alternative measures to operate, beyond tax
 - Furthers culture and breeds happiness
 - Advance the Brand
 - Transparency, Disclosure, Relationship with Constituents



((case for why))

- Top performing cities and governments
- Not D or R; just good policy and practice
- Can actually lead the way to make impact
- Small – medium are poised for rapid impact and leadership
 - Gary, Indiana?
- Plays to self-reliance and resilience

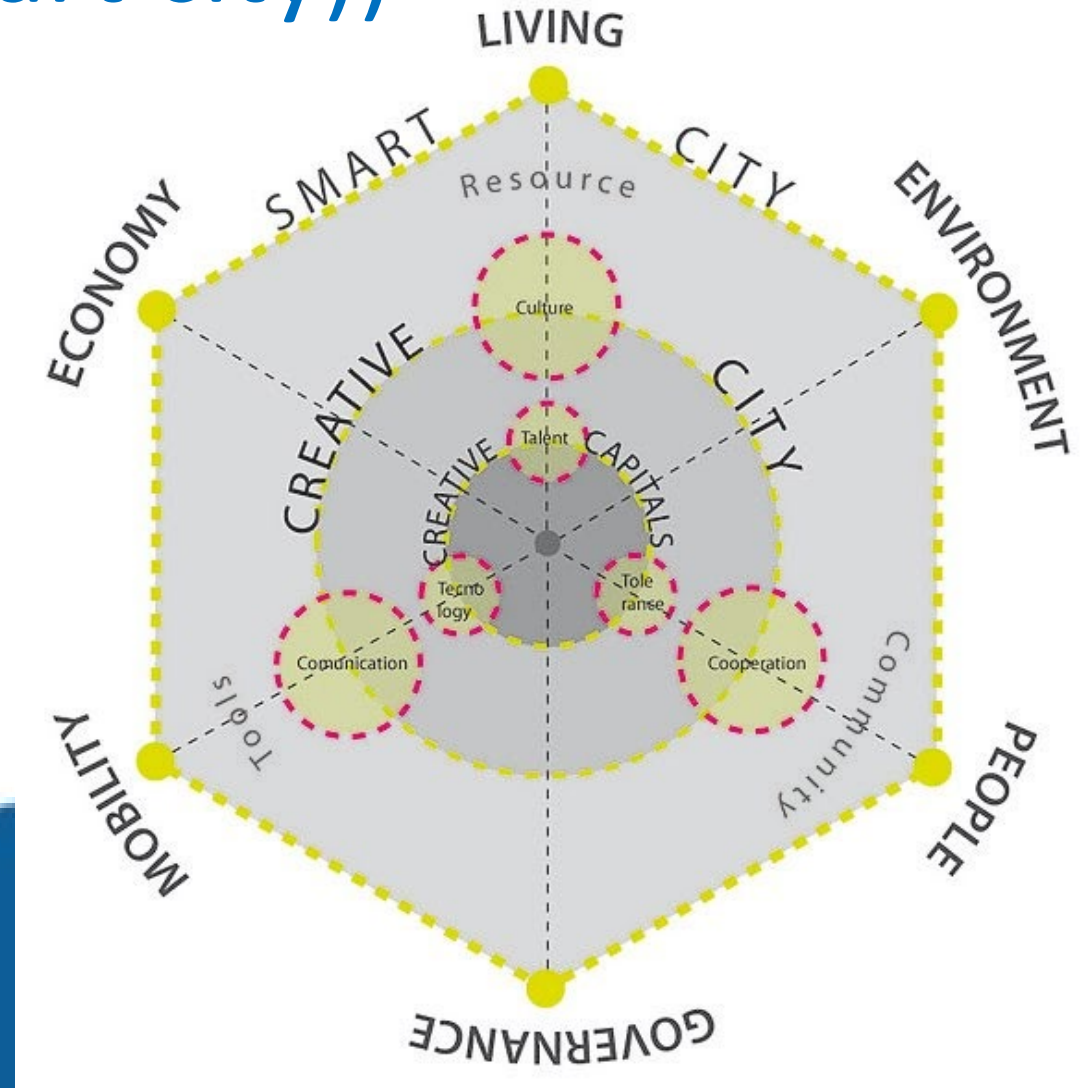


((case for why))



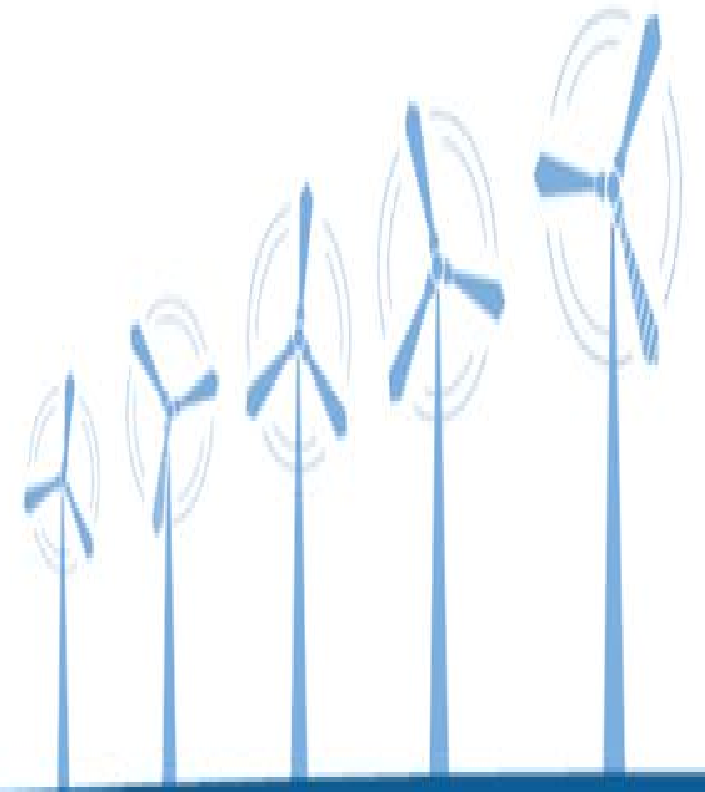
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((what is a smart city))



((what is a smart city)) - sectors

- Governance
- Education
- Urban/City Design
- Built Environment
- Water
- Energy
- Big Data and Connectedness
- Transportation
- Human Systems Engagement, Arts&Culture, Recreation, natural Environment



((what is a smart city)) - transportation



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((what is a smart city)) - transportation

- It's not one versus the other

Ask yourself:

How do you move goods, people, ideas, and services...

Safely, effectively, affordably, and efficiently?





LIGHT RAIL LINE



LEGEND

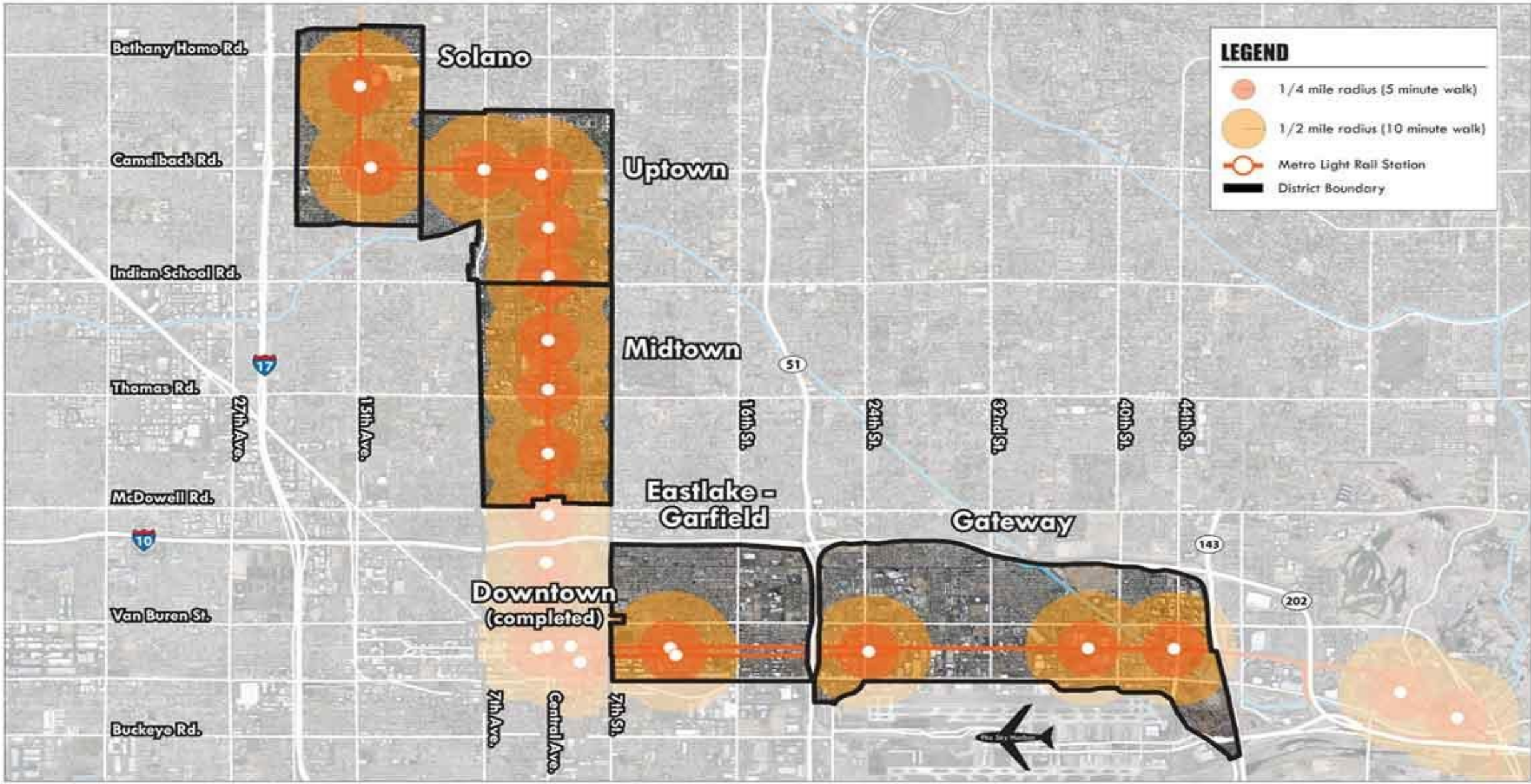
- Light Rail Line
- PHX Airport Shuttle
- Station Location
- Park-and-Ride Location



((communities)) – transit oriented
development



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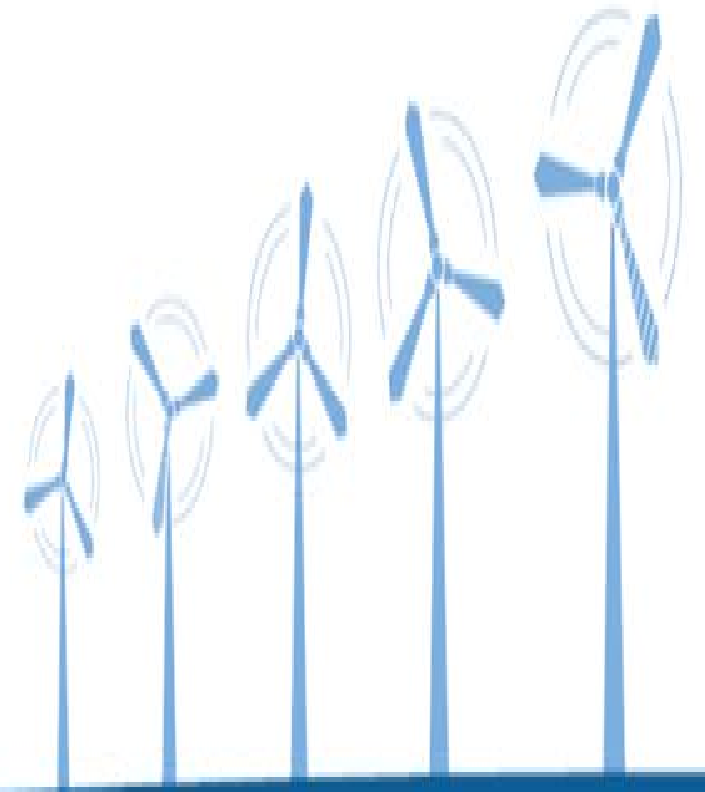
ReinventPHX
Project Map







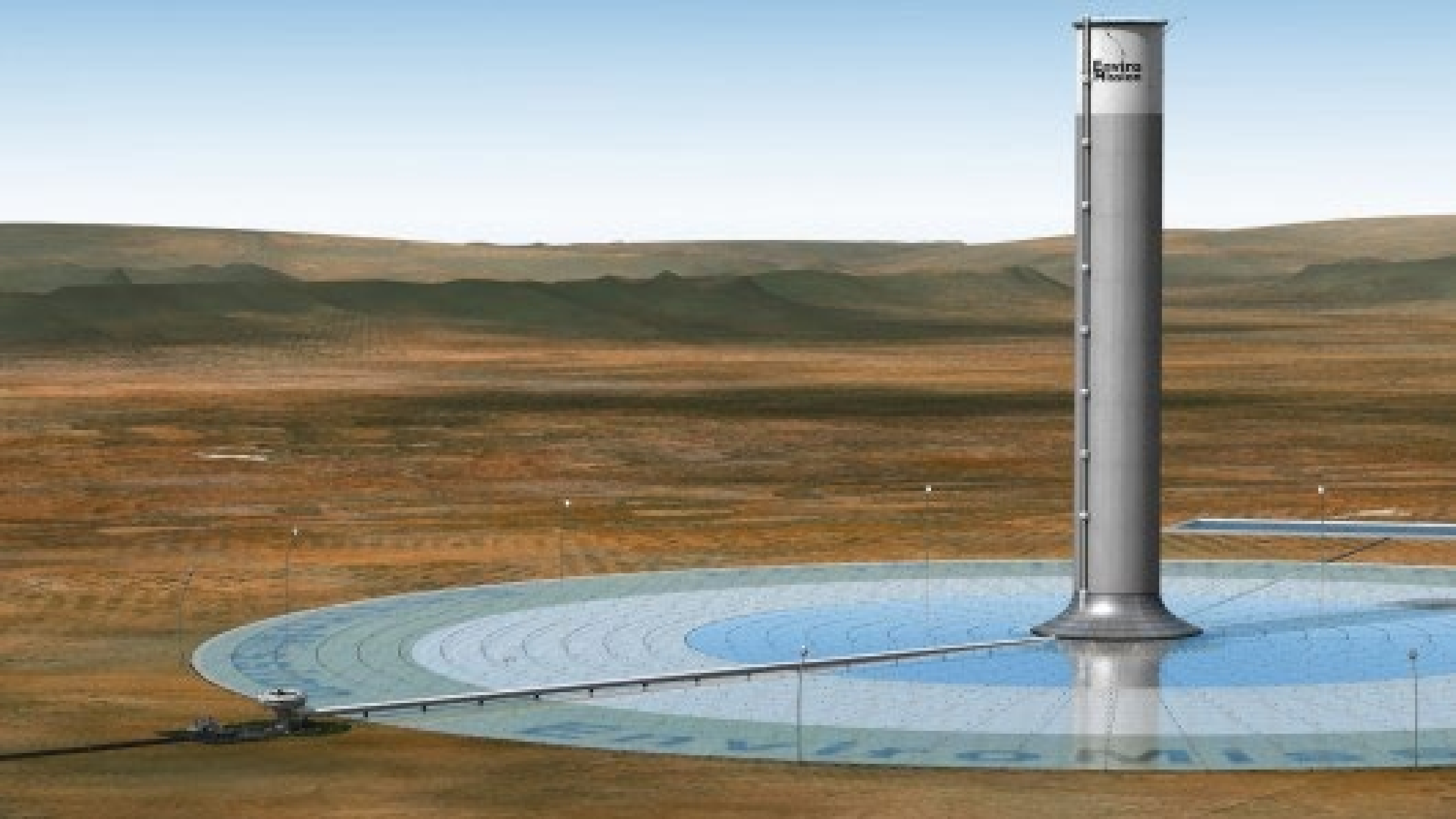
((energy))



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THE LEADERSHIP
CHALLENGE
SOCIETY OF AMERICANS





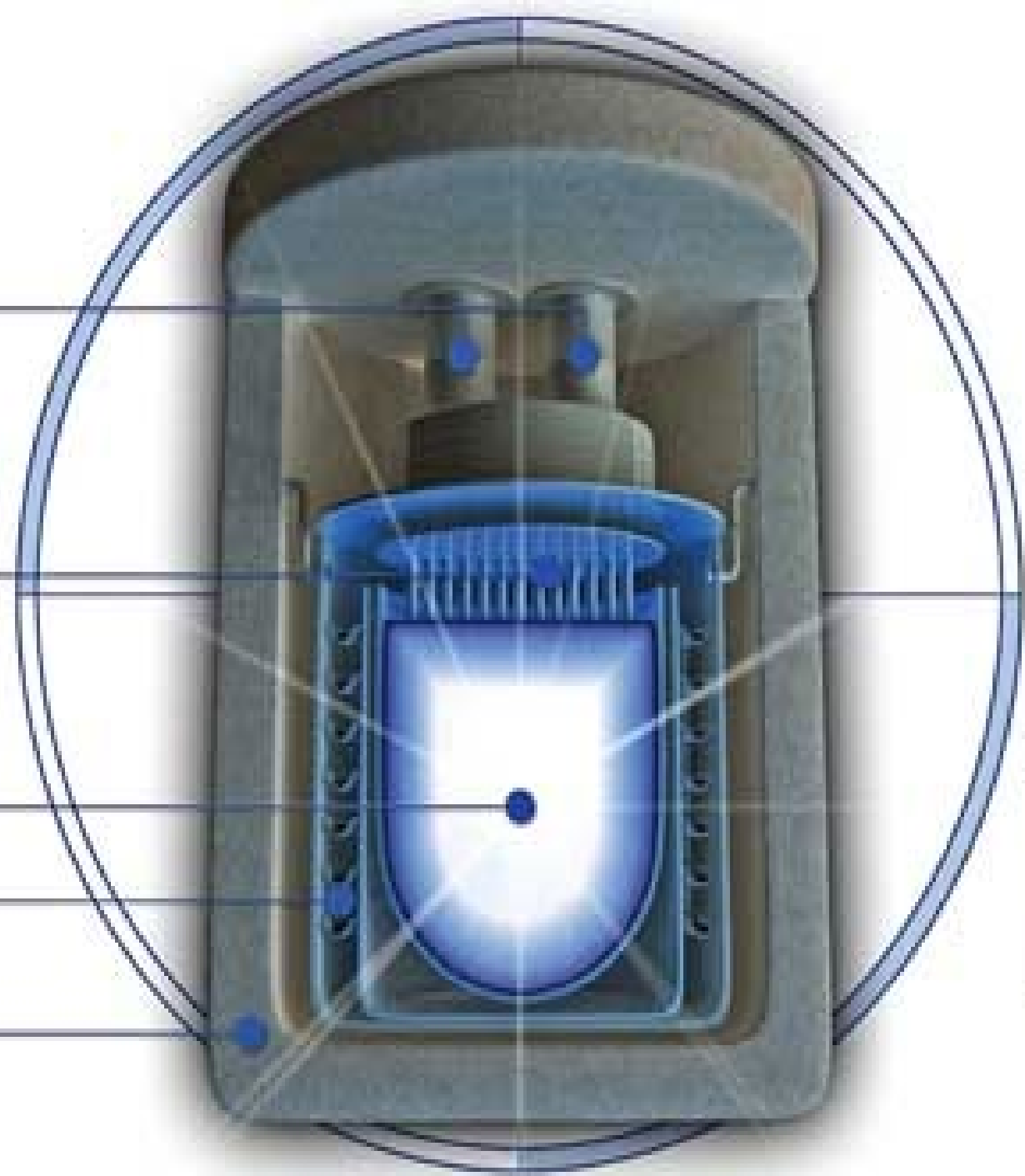
Heat transfer pipes

Heat pipes

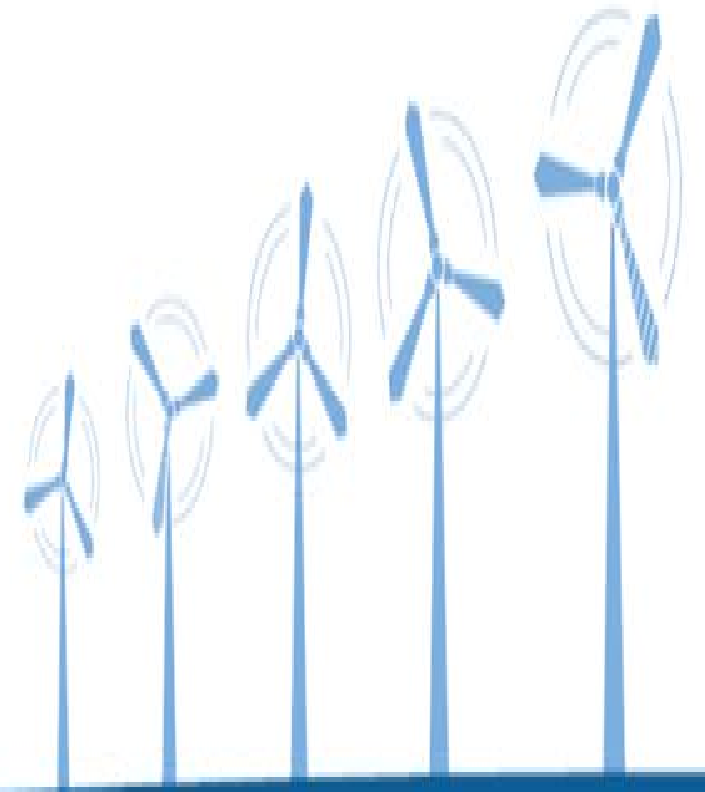
Uranium hydride fuel/moderator

Hydrogen storage trays

Containment

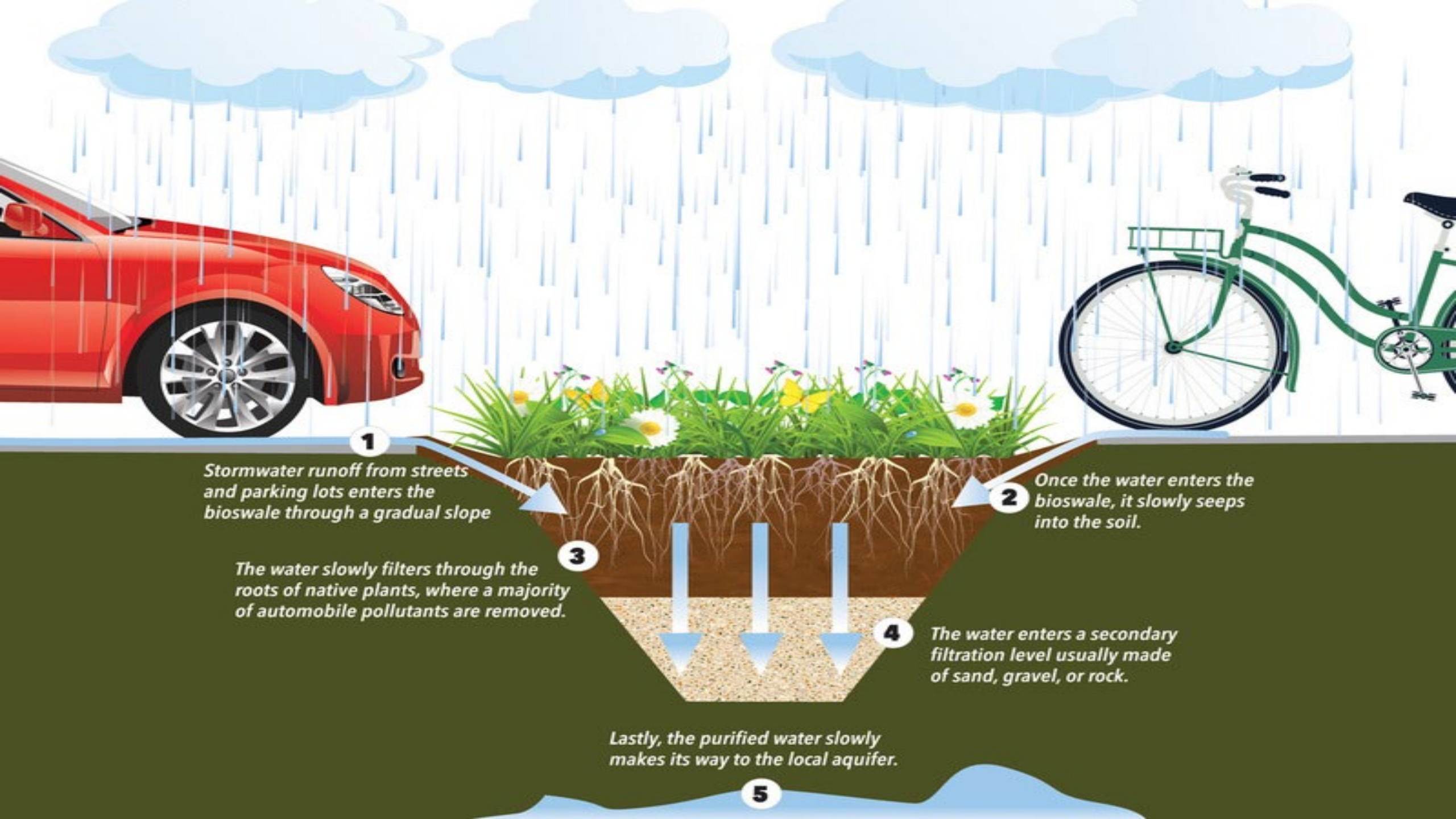


((water))



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1 Stormwater runoff from streets and parking lots enters the bioswale through a gradual slope

2 Once the water enters the bioswale, it slowly seeps into the soil.

3 The water slowly filters through the roots of native plants, where a majority of automobile pollutants are removed.

4 The water enters a secondary filtration level usually made of sand, gravel, or rock.

5 Lastly, the purified water slowly makes its way to the local aquifer.

Sources of Grey Water:

Shower/Bath



Laundry



Faucet



Water coming from Shower and Bath is the cleanest form of Grey Water.

((people and culture))



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CEVITO | Scandinavian Urban Transect

Thomas L. Sidelmann





Verrado Golf Club

Edward Jones - Financial Advisor: Wayne Polk

The Goddard School

Verrado Elementary School

Verrado Middle School

Walton Park

Windlan School Rd

Windlan Tractor Wash

Crazy Daisies Flowers

Imagine That Pottery Werks

Danger Kitty Fashions



3D



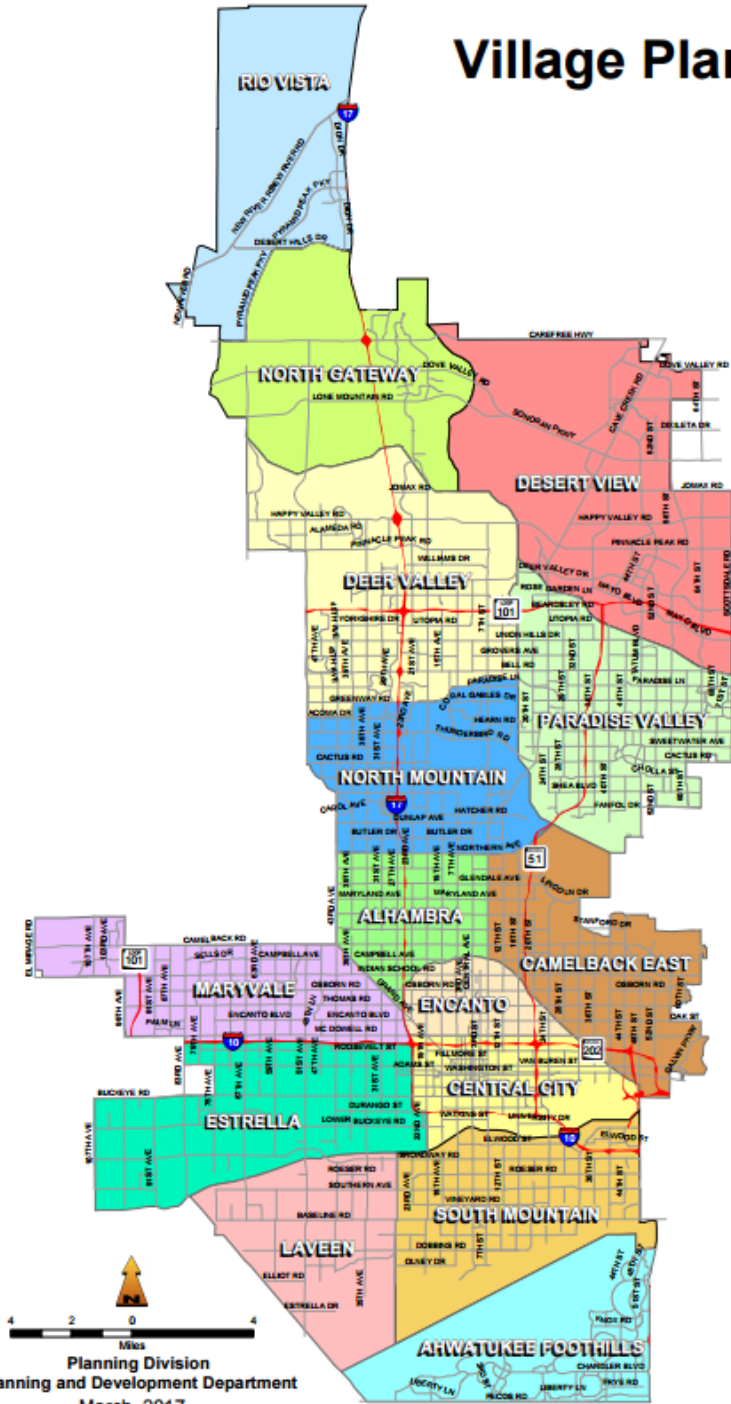
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Google

Village Planners



- Ahwatukee Foothills**
Adam Stranieri
(602) 534-5829
- Alhambra**
Joël Carrasco
(602) 262-4072
- Camelback East**
Adam Stranieri
(602) 534-5829
- Central City**
Hannah Oliver
(602) 256-5648
- Deer Valley**
Racelle Escolar
(602)-262-6949
- Desert View**
Joël Carrasco
(602) 262-4072
- Encanto**
Hannah Oliver
(602) 256-5648
- Estrella**
Elyse DiMartino
(602) 534-7696
- Laveen**
Elyse DiMartino
(602) 534-7696
- Maryvale**
Joël Carrasco
(602) 262-4072
- North Gateway**
Racelle Escolar
(602)-262-6949
- North Mountain**
Maja Brkovic
(602) 261-8701
- Paradise Valley**
Maja Brkovic
(602) 261-8701
- Rio Vista**
Racelle Escolar
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- South Mountain**
Adam Stranieri
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Planning Division
Planning and Development Department
March, 2017

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((waste))



Reimagine Phoenix

Transforming Trash Into Resources



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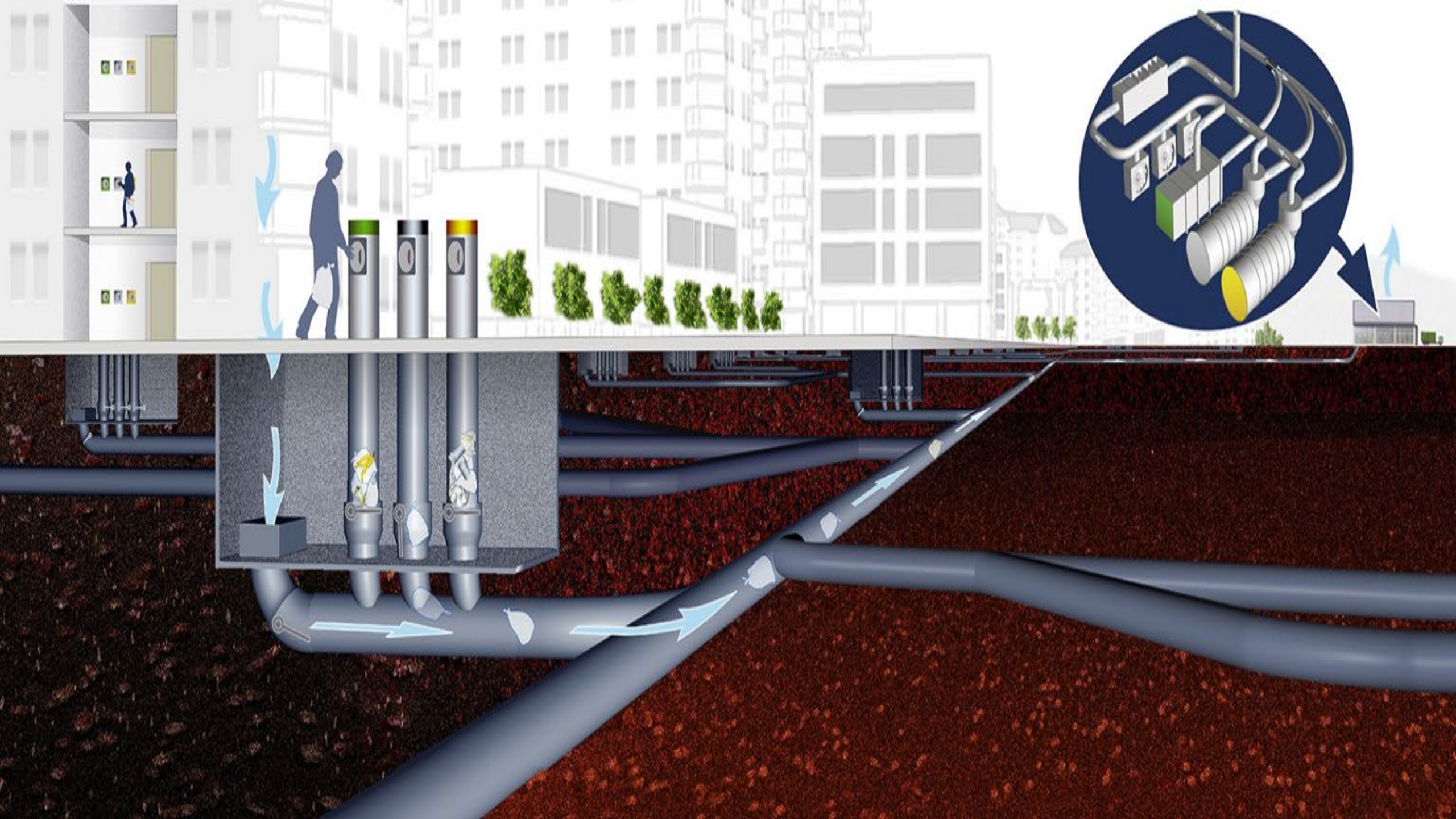
((waste))

- Public Works Solid Waste
 - Largest Fleet in US
 - 1.1 Mmt
 - 7M
 - 520 miles²
- One of many in Valley
- Long-term Cost Incursion
- Increasing Regulation
 - Carbon, CH₄
- Tough Policies



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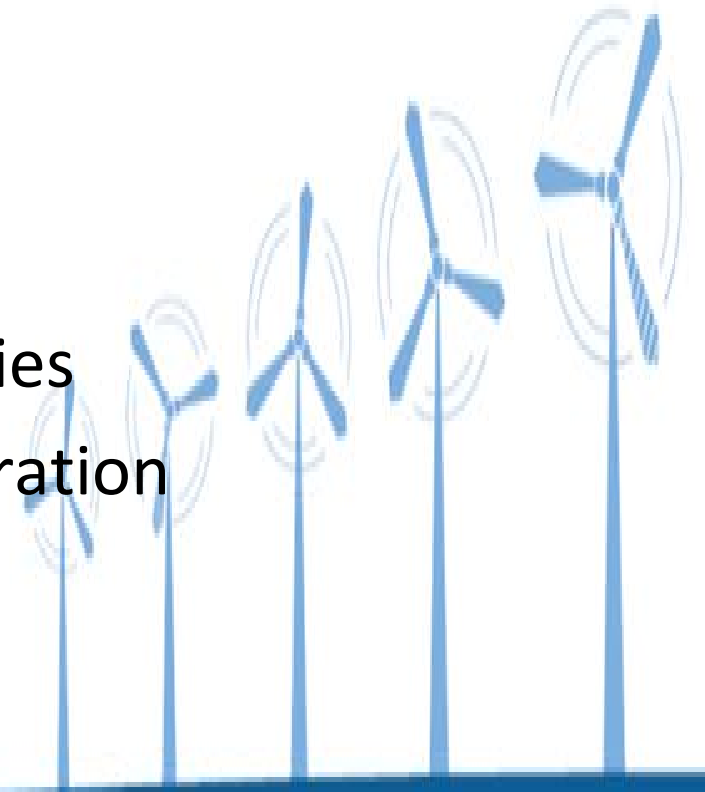






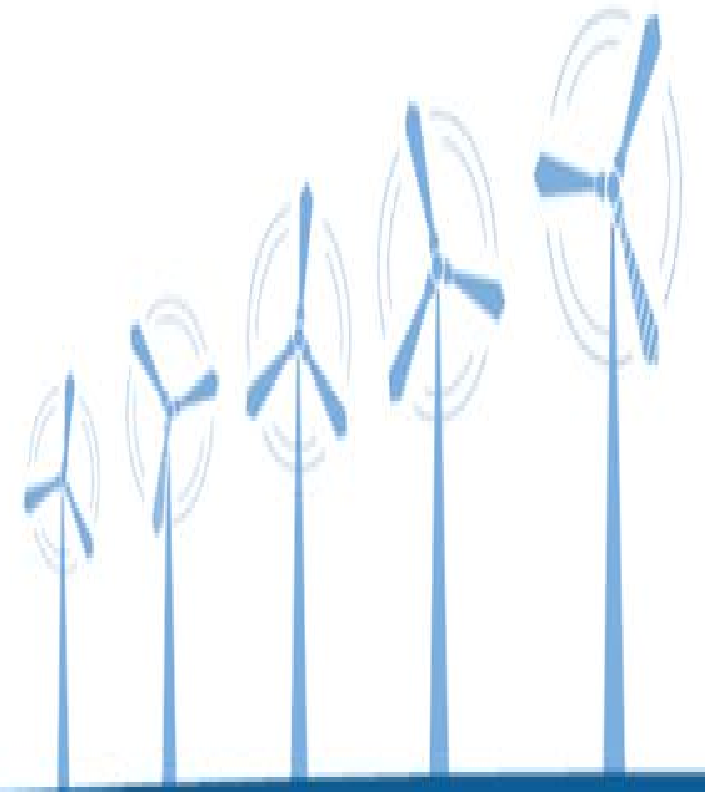
((how to make impact))

- Drivers and Barriers to sustainability and Smart Cities
- Think hard about public and private sector collaboration



((areas of opportunity))

- Food
- Social Justice and Stratification
- Energy
- Water
- Land Use and Planning
- Transportation
- No Waste
- Biomimicry
- Cities are the Future



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NOW!

Serve the State and Be Change Agents



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