

**November 30, 2020**

# SMART CITIES, SMART REGIONS, & A SMART STATE...OH MY

## **Digital Access Task Force Meeting**



Dominic Papa

VP Smart State Initiative at Arizona Commerce Authority



City of Phoenix



**ARIZONA**  
COMMERCE AUTHORITY



# What is a “Smart City?”






I HAVE NO IDEA!







Over time, cities have come to understand that it is not a single project that makes them smart, rather it is the process of using technology to continually improve government efficiency, enhance citizen well-being and solve complex problems.

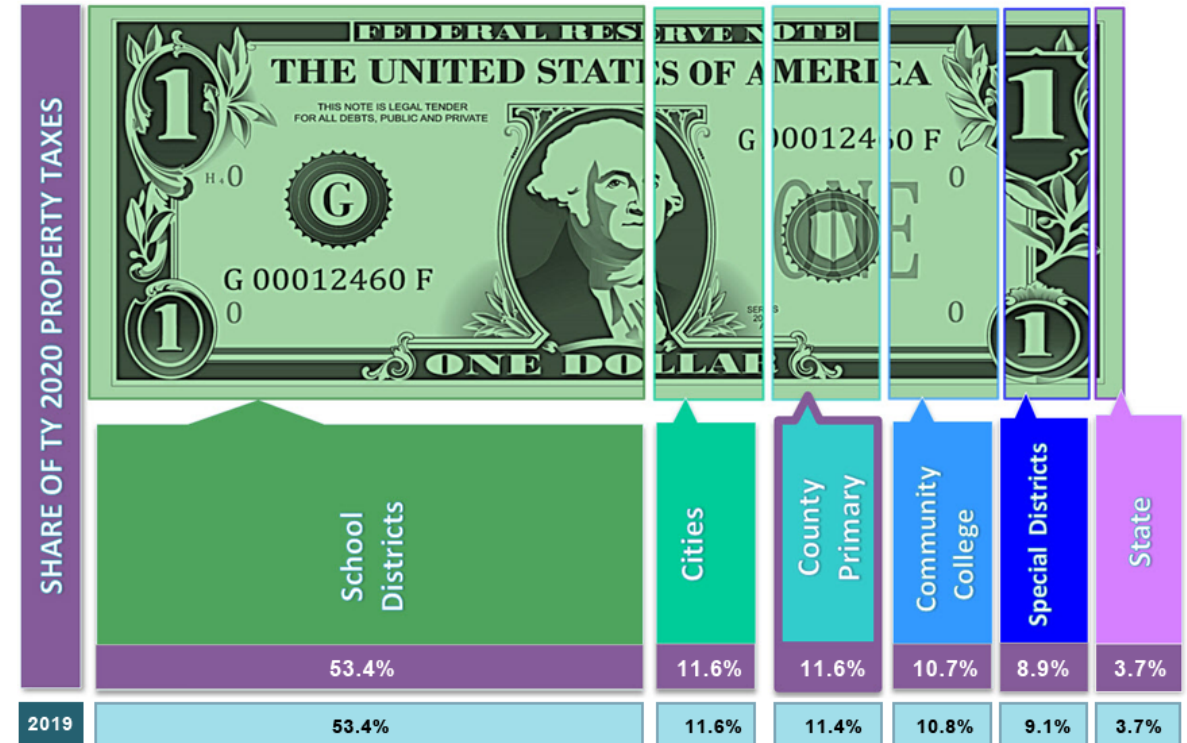
*The technology is easy, it's the people and the process that are difficult.”*

# Digital Divide



# Traditional City “Management” Challenges

- Limited Budgets w/Increasing Citizen Demands
- Burdensome Regulatory Frameworks (legal mandates)
- Limited Staff
- Procurement Challenges
- 21<sup>st</sup> Century Challenges w/19<sup>th</sup> Century processes







# Smart Cities

- It's a intentional change in local government culture (organizational)
- It is definitely NOT about the technology
- It's about breaking down traditional departmental silos and building up new partnerships (new processes)
- All in an effort to solve 21<sup>st</sup> Century challenges

# SMART CITIES



# Smart(er) Cities





# "Smart(er) Cities"

## PROJECT Broadband and WIFI Expansion

The City has approximately 110 miles of fiber optic cable installed, much of which is currently in use. A Public Safety bond approved by the voters in November 2018, will add an additional 37 miles of fiber optic cable and enable completion of the downtown fiber ring architecture over the next three years. The Downtown broadband service will provide 1 Gigabit per second speeds to subscribers to enable high technology connected businesses to thrive in downtown Mesa.

**Benefit to the City** The Public Safety Fiber project will allow the City to complete a fiber ring around downtown Mesa, providing added reliability to the network in support of police and fire. It will also support other smart projects, such as the Downtown digital kiosks, downtown LED light smart nodes and leveraging installed closed-circuit television cameras for Smart Cities parking.



the public experience.

**Status** Strategy and schedule were confirmed fall 2019. The first wave will be to enhance public Wi-Fi in the downtown area (Country Club to Mesa Drive, 1st Street to 1st Avenue). This project includes both replacing and extending Wi-Fi to enhance

## Tempe Innovation Fund

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Tempe City Council awarded a total of \$500,000 to nine innovative, community-improving projects in May 2018.

Scientists, community groups and non-profits competed for a portion of the \$500,000. Tempe City Council created the **one-time** fund to encourage and promote new and creative ideas that will significantly improve the community and keep Tempe as the regional leader in innovation.

## SCOTTSDALE'S SMART CITY YOUTH CONGRESS

Do you have an interest in technology?

Do you have a passion for your local community?

Do you want to learn more about the future of cities?

If you answered "yes" to any of these and are a high school student, join us!

**Calling All PHX Developers**

**CITY OF PHOENIX  
CISCO IOT CHALLENGE**

Be on the Forefront of Making  
Phoenix a Smart City  
& Start a Business in the Process.

**Registration Ends FRI FEB 3, 2017 11:59 PM**

**Smart City Hack 2017**  
**City Finale!**

Help us choose the winner that will  
represent #yesPHX in Barcelona!

**FRIDAY OCTOBER 13, 2017**  
Galvanize  
Warehouse District  
515 E Grant St, Phoenix, AZ 85004

Free Beer, Free Food &  
A Smart City / IoT Tech Competition

Doors Open at 5:00 PM  
Wren House Happy Hour - Meet & Greet w/ Finalists  
Smart City Hack Competition  
LIVE AUDIENCE VOTE  
Grand Champion Announcement!

More information on our website [www.azidp.com](http://www.azidp.com)

# “Smart(er) Cities”



## GE Will Launch 'Smart City' Initiative in San Diego

*GE is teaming up with Intel and AT&T to install cameras, microphones and sensors in San Diego this year.*

Giovanni Bruno [Follow](#) Feb 22, 2017 11:01 AM EST





# “Smart(er) Cities”

## **White House announces Smart Cities Initiative; Dallas to launch Innovation Alliance**

The Smart Cities Initiative will invest more than \$160 million in research and leverage new technology collaborations to help communities tackle key challenges. The effort uses federal resources to meet local needs; helping to reduce traffic congestion, fight crime, foster economic growth and improve delivery of city services.

Dallas is one of 25 cities participating in the Initiative, garnering multi-city collaborations between universities and industry. For their part, Dallas is launching the Dallas Innovation Alliance, led by the Dallas Entrepreneur Center, which will focus its initial efforts in the West End district by tackling infrastructure, mobility and connected living.



# “Smart(er) Cities”



## EXPANSION MANAGEMENT

### Kansas City, Missouri Transformed into Smart City

The city's new program includes 125 “smart” streetlights, 25 interactive kiosks to engage citizens and 50 blocks of free outdoor public Wi-Fi.

Adrienne Selko | May 18, 2016

# “Smart(er) Cities”

## USC, Los Angeles IoT Consortium Takes Shape

*The USC Marshall School of Business and Viterbi School of Engineering along with the city have formed the Intelligent Internet-of-Things Integrator, otherwise known as the I3 Consortium, in an effort to further collaboration related to IoT project testing and development.*

BY SKIP DESCANT / DECEMBER 19, 2017



SHUTTERSTOCK



The University of Southern California will serve as a test bed for smart city initiatives that could see wider deployment across Los Angeles and other



# Fundamental Flaw in Smart Cities

Homelessness

Air Pollution

Economic Resiliency

Traffic Congestion

Digital Access

Water Scarcity

COVID

ETC.....



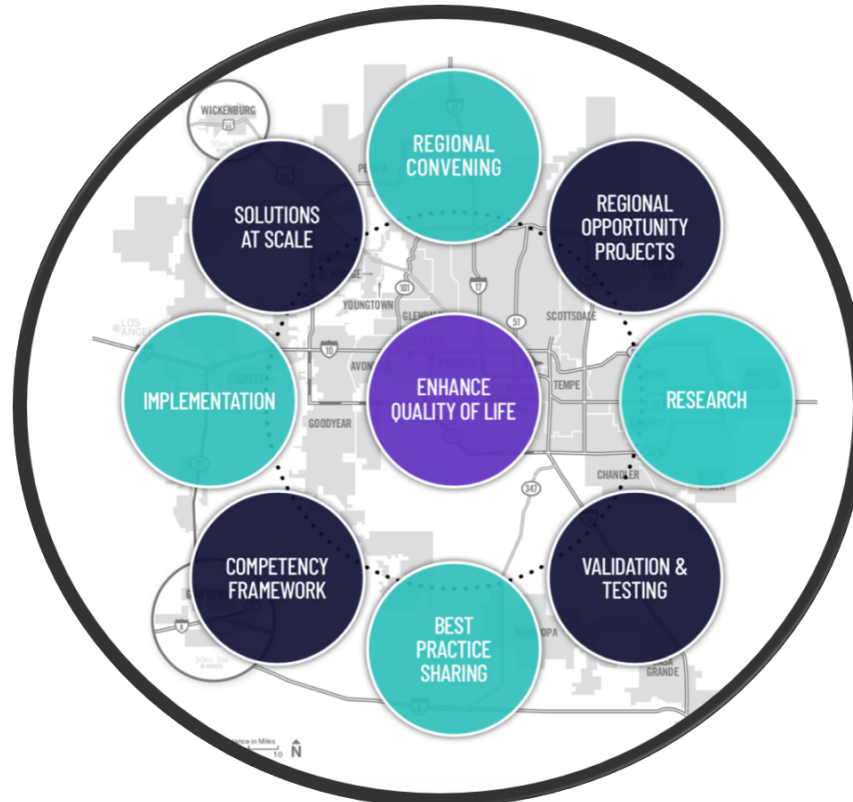


# SMART REGION(S): THE ARIZONA APPROACH

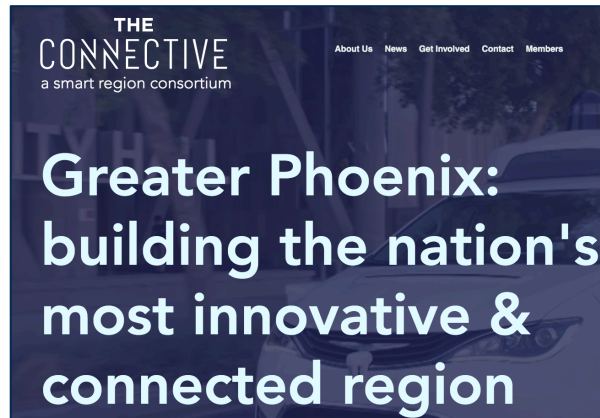
- The fundamental understanding that urban and social challenges do not start and stop at municipal boundaries
- Challenges will REQUIRE collaboration not only across sectors but across industries'
- Scalable technology deployment would attract next generation technology deployment and enable regions to compete globally

# SMART REGION(S): THE ARIZONA APPROACH

- Collaboration would not only be our new economic competitive advantage but it would also enable us to develop a new governance model to empower and innovative approach to problem solving that would lead to the creation of implementable, interconnected, affordable, and interoperable services that enhance the quality of life for the citizens and businesses in regions.



# SMART REGION(S): THE ARIZONA APPROACH



## The Connective | Regional Priorities



### Solve Regional Challenges

Collaborative total solutions approach to solving the most pressing civic issues at scale



### Standard & Secure Regional Data Collaboration

Shared collaborative data standards, agreements, and user portal to facilitate data driven decision making on a regional scale



### Regional Collective Technology Procurement Vehicles

Collective regional purchasing processes, tools, and agreements to mitigate risk and enable faster more efficient technology testing, implementation, and scaling

## THE CONNECTIVE



### Seamless Community Engagement & Collaboration

Enablement of a culture of multi-channel collaboration between communities, partners, academic institutions, and the general public they serve



**Workforce of the Future**  
Provide innovative training and education programs to train current and future members of the workforce for the jobs of tomorrow



### Enable Regional Infrastructure

Optimize and improve shared infrastructure resources to enable the communities of the future and service delivery to all in the Region

## Designing our FUTURE



Public-private partnerships working to enhance the region's economic competitiveness in six key areas to improve our region's mobility, sustainability and livability.



**RPC**  
Regional Partnering Center

**ARIZONA**  
COMMERCE AUTHORITY



# BUILDING THE SMART STATE



# BUILDING THE SMART STATE

- Challenges are not confined to urban areas... rural areas are vital to Arizona's economy
- Vertical and horizontal alignment across all levels of government.
- Leverage regional platforms to advance sector-specific focus and accelerate the commercialization of technologies and solutions.



ARIZONA DEPARTMENT  
OF HEALTH SERVICES

**ARIZONA**  
COMMERCE AUTHORITY

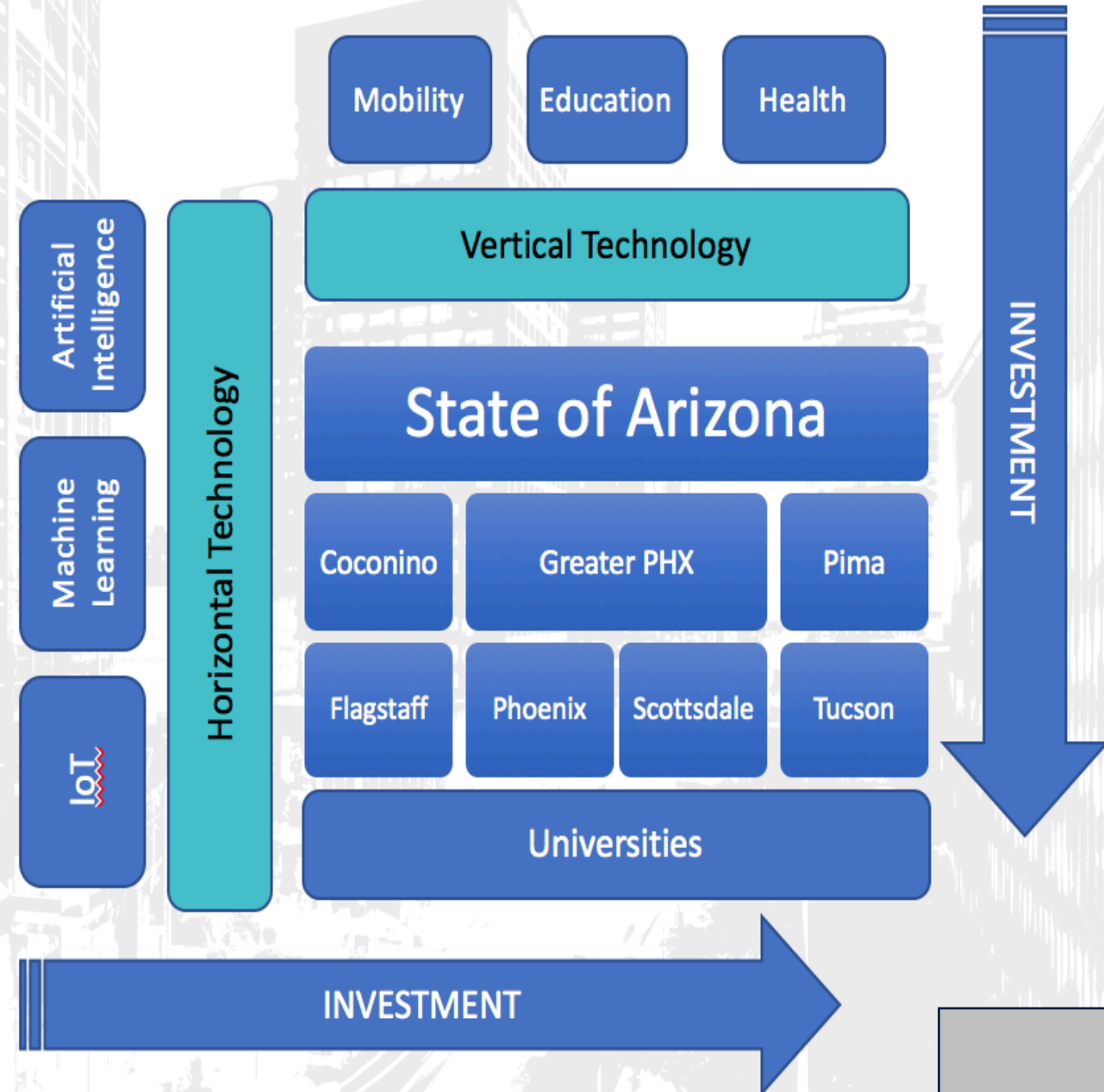


## Why a Smart State

- Technology disruption is a global force we must confront and harness together to our advantage.
- Developments in digital technology present opportunities for Arizona to enhance our strengths, overcome our economic challenges and physical limits, and build new sources of comparative advantage.

## How do we become a Smart State

- In a Smart State, we will see transformation in key domains – **health, mobility, urban solutions, finance, and education** (still to be determined).
- This means every industry, business and government (at all levels) stepping up to collaborate and accelerate our digitalization efforts, to drive a state-wide movement.
- A unified approach built on a strong systems foundation with clear, connected, and aligned investment channels.







# Digital Access through the Smart State Paradigm





# EVALUATING THE CHALLENGE

- Does the challenge cross municipal boundaries?
- Is it unique to urban areas, or do rural areas face the challenge as well?
- Do all level of government care about (or are in the service of) the challenge?
- Are economies of scale available?
- Does it require multi-sector and multi-industry collaboration?





IF YES, APPLY THE SMART STATE PARADIGM



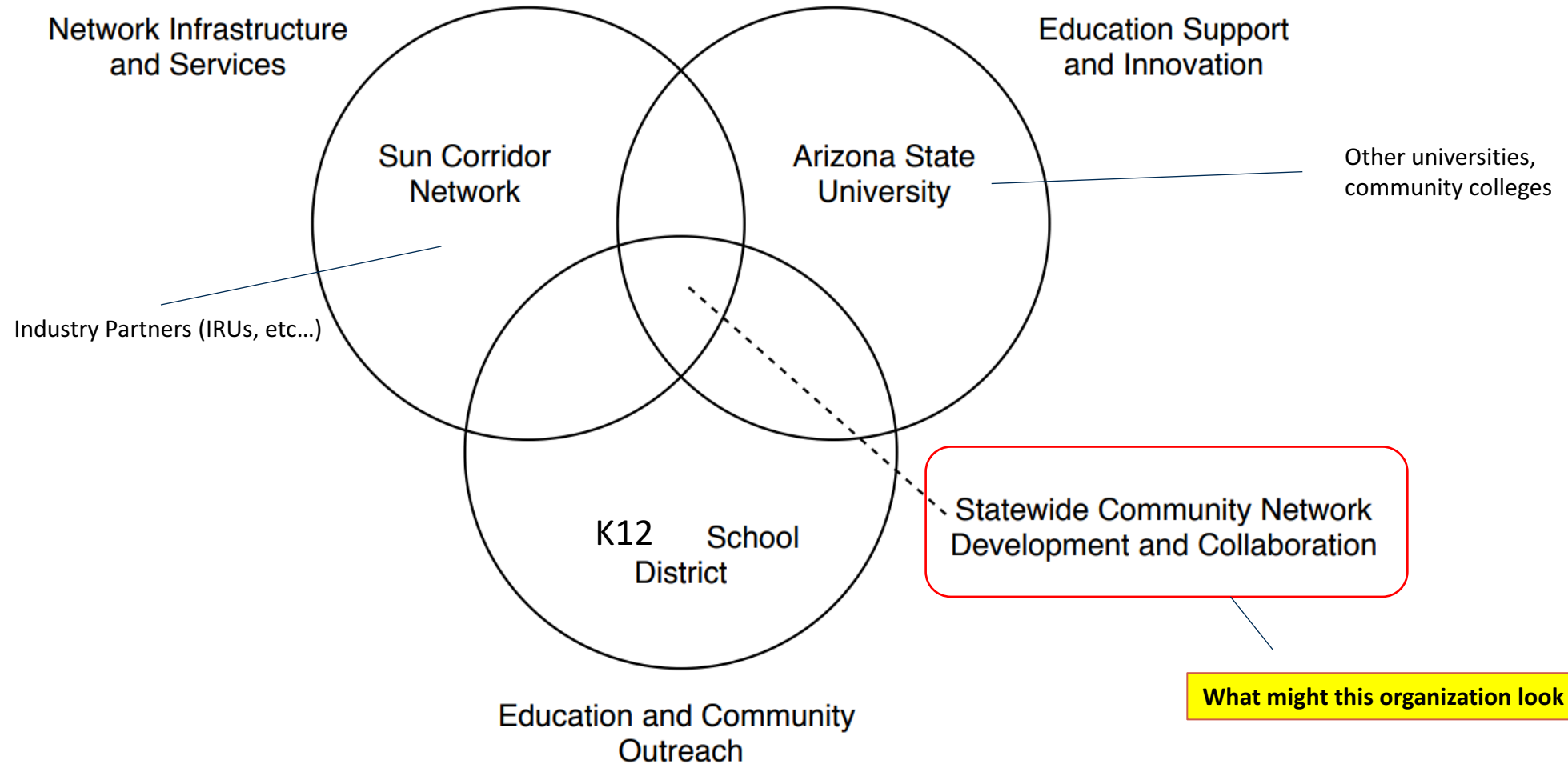




# APPLYING THE SMART STATE PARADIGM

- How might we develop a new governance framework to model to empower and innovative approach to solve the digital access challenge that would lead to the creation of implementable, interconnected, affordable, and interoperable service across the state of Arizona

# APPLYING THE SMART STATE PARADIGM





THANK YOU

