

# PROACTIVE INGENUITY

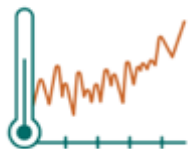
SAME Philadelphia Resiliency Day

10 November 2021

SPEAKER:  
Tad Wood – MCFA

## SEVEN ESSENTIAL CAPACITIES FOR URBAN ADAPTATION

1



### SCIENTIFIC FOUNDATION

Capacity to assess and understand climate risks and vulnerabilities of city's built, natural, and economic assets and its populations, and use these analyses for ongoing adaptation planning

2



### COMMUNICATIONS

Capacity to communicate with and educate civic leaders and community members in ways that build and sustain a sense of urgency to adapt for climate changes

3



### EQUITABLE ADAPTATION

Capacity to make social and economic equity a central driver of the city's adaptation approach

4



### INCLUSIVE COMMUNITY ENGAGEMENT

Capacity to fully engage stakeholders and the public, especially vulnerable and underrepresented populations, in developing, implementing, and monitoring adaptation plans

5



### INTERGOVERNMENTAL ALIGNMENT

Capacity to coordinate planning and action across governments at local, regional, state, tribal, and federal levels

6



### TECHNICAL DESIGN

Capacity to design, test, and implement adaptation actions that require engineering, legal, and other highly specialized details, as well as performance metrics for monitoring

7



### FINANCIAL RESOURCES

Capacity to repurpose, leverage, and obtain public and private funds to invest in infrastructure development and other adaptation actions



Innovation Network  
for Communities

# ESSENTIAL CAPACITIES FOR URBAN CLIMATE ADAPTATION

A Framework for Cities



mcfa



# WHAT'S REQUIRED?

**1. Ingenuity**

**2. Forethought**

**3. Collaboration**

**4. Tenacity & Discipline**

**5. Creative Finance**

Engineering

Policy

Banking

Legal Creativity

Collaboration

# ADDING A MAJOR THEME

## Financing

- Creativity
- Reduce or eliminate redundancy

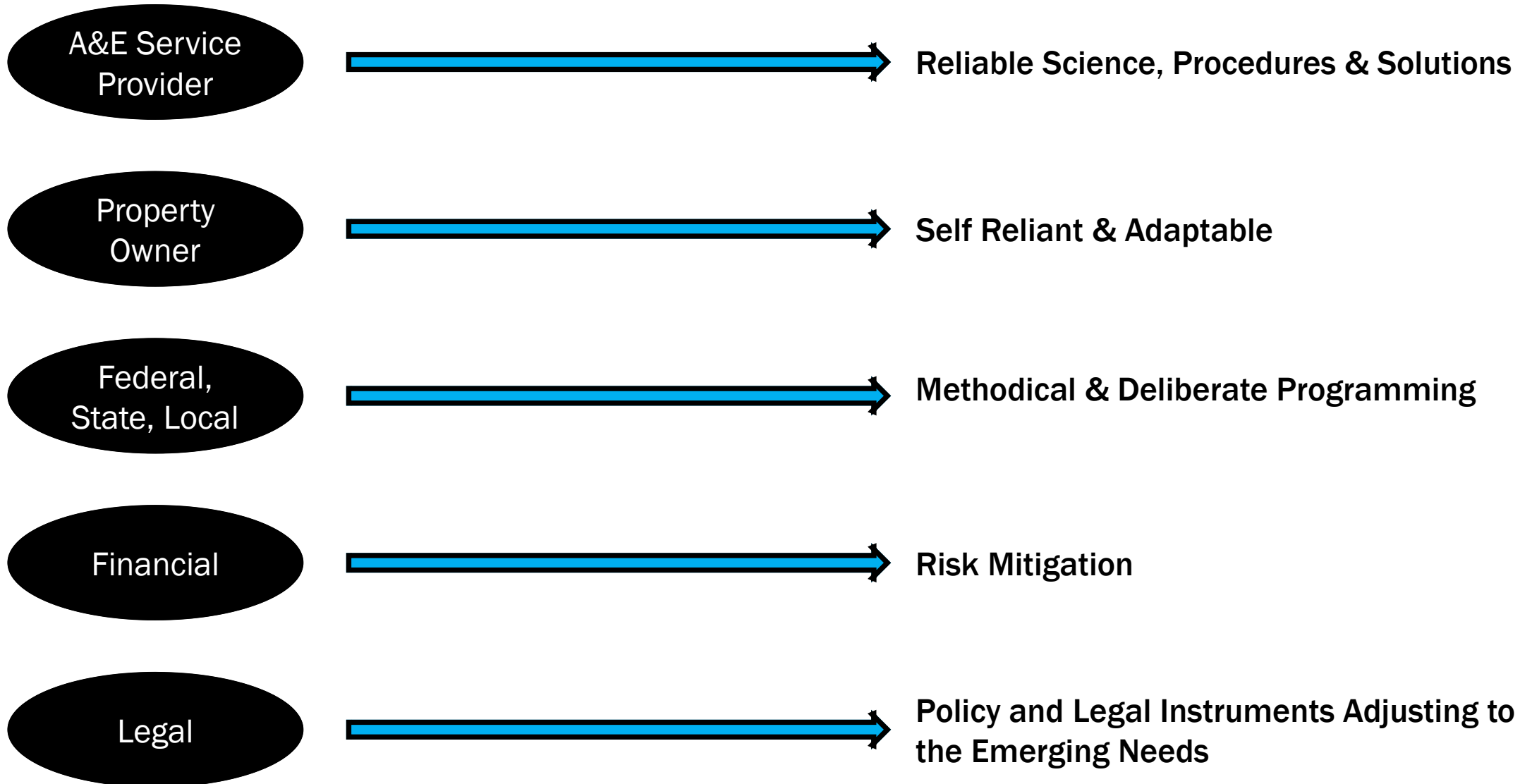
## Stakeholder Collaboration

- Sharing science
- Sharing concerns
- Joint planning that takes everyone into account
- Great technology

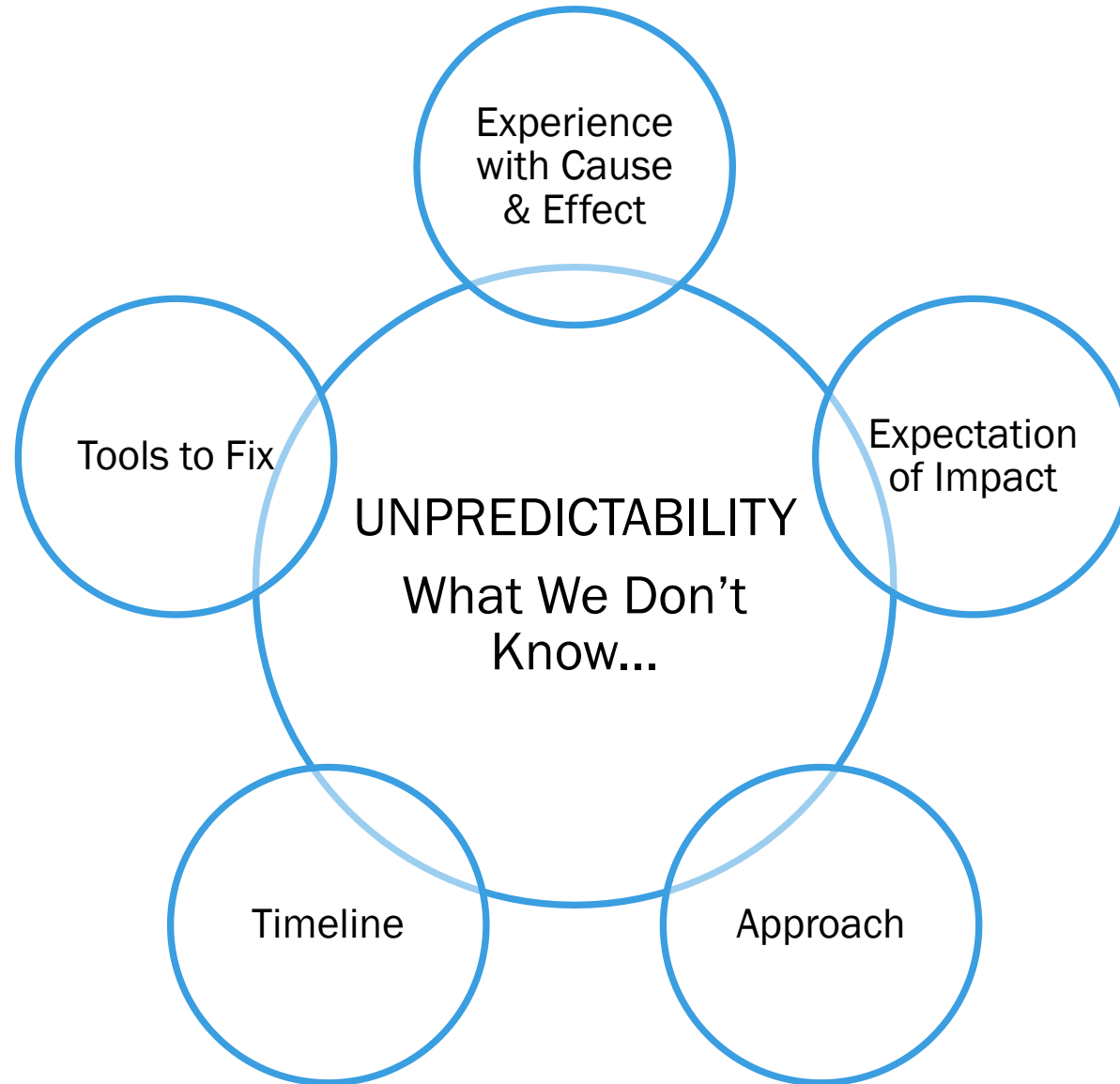
## PROACTIVE INGENUITY

- Anticipation
- Partner with professional services
- Partner with government
- Partner with other Stakeholders

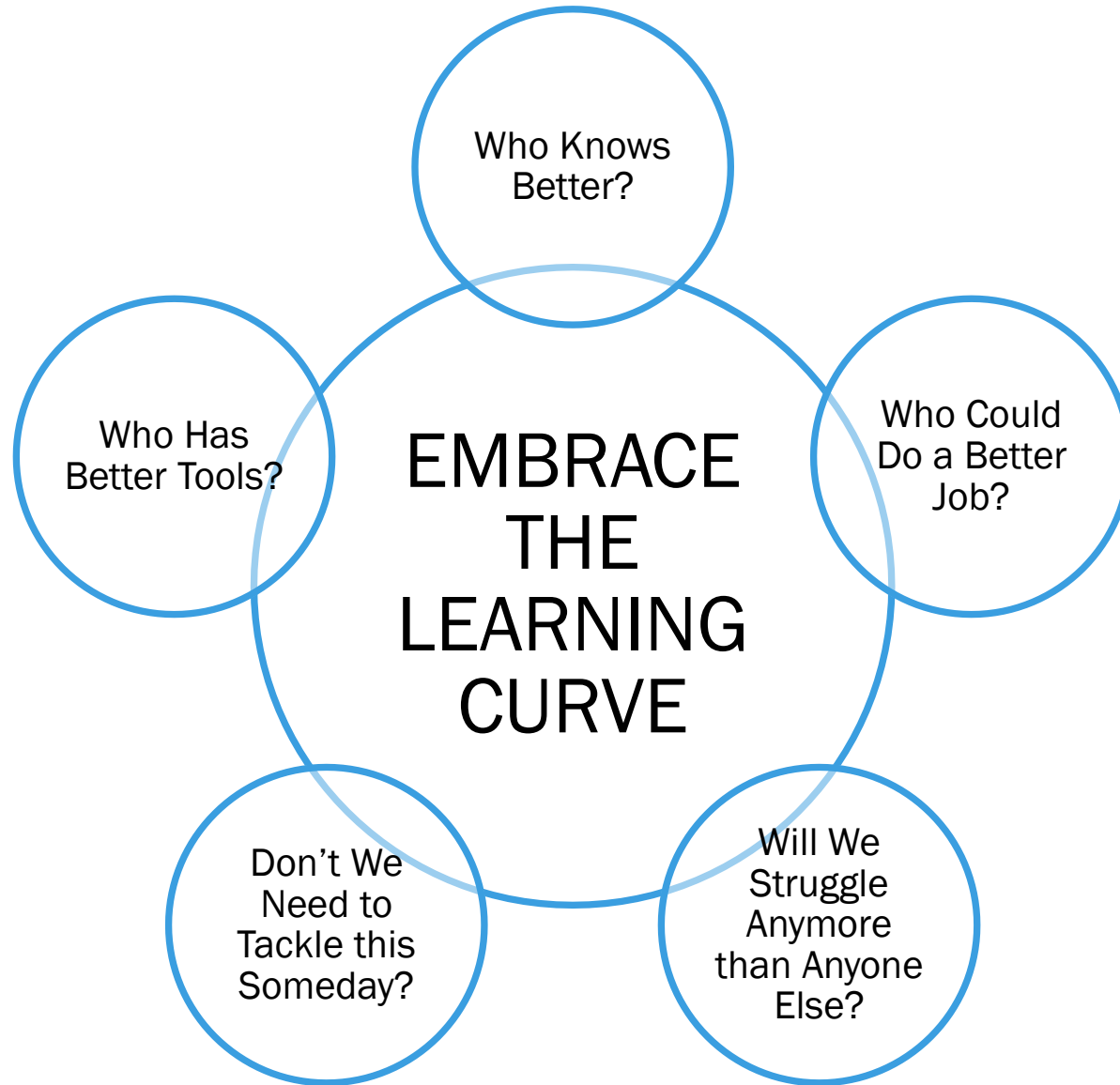
# PROFESSIONAL COMFORT ZONE



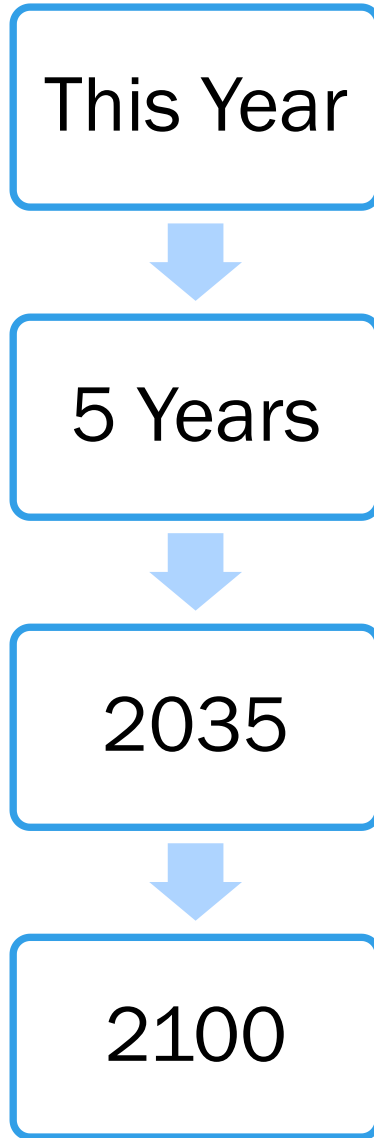
# PROFESSIONAL PROBLEM SOLVING



# ADJUST OUR MINDSET!



# “SCOPING” THE SOLUTION



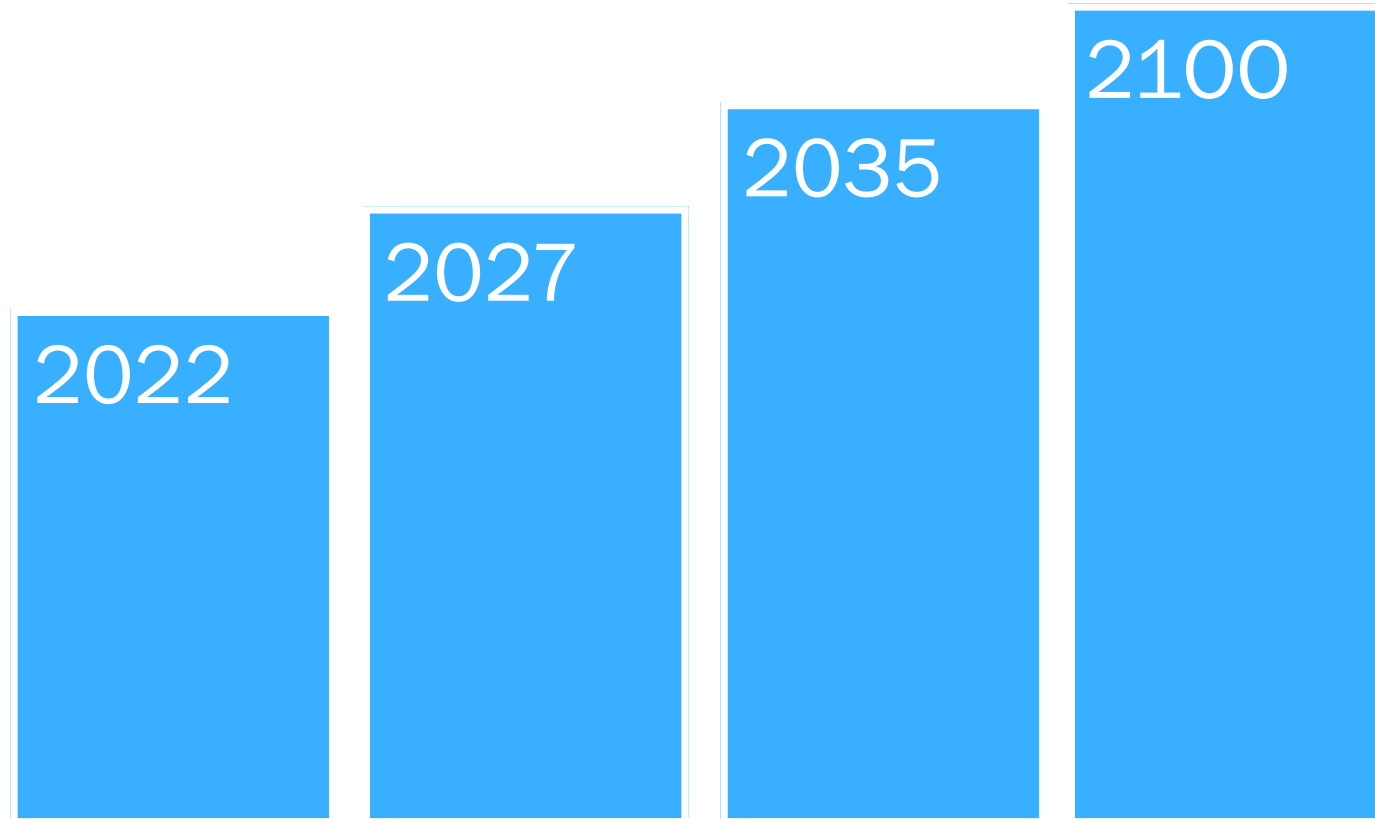
How Far and How Fast?

**INCREMENTAL**



# THE BEST PLAN! ADAPTATION = INCREMENTAL & PROGRESSIVE

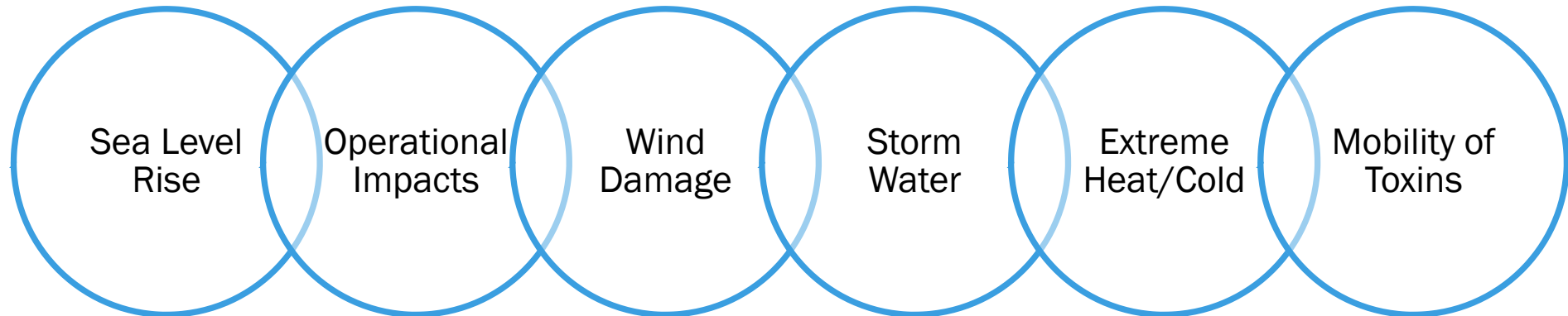
THE BEST PLAN BUILDS UPON ITSELF WITH A VIEW  
TOWARD FUTURE GOALS



# STEP ONE IN ADAPTATION MINDSET

GOING BEYOND OLD STANDARDS

## Scenario Anticipation



# TOOL BELT

## ENHANCING THE TRUSTED ADVISOR ROLE

Alliances & Affiliations - Expand Your Sphere of Knowledge

Association Involvement - Setting the Right Standard

Certification & Training - Mastering New Standards

Events - Sharing with Others



AMERICAN SOCIETY OF  
ADAPTATION PROFESSIONALS



# TOOL BELT TACTIC – SPECIAL PURPOSE EVENT

## DELAWARE RIVER CLIMATE SERIES

- Stakeholder Collaboration
- Scientific Support
- Active Problem Solving
- Public Sector Awareness
- SAME Member Involvement
- Perpetual Effort

# TOOL BELT TACTIC – CERTIFICATION

## ENVISION SP

- **Founding Organizations**
  - Institute for Sustainable Infrastructure  
<https://sustainableinfrastructure.org/>
  - American Public Works Association (APWA)
  - American Society of Civil Engineers (ASCE)
  - American Council of Engineering Companies (ACEC)
  - Zofnass Program / Harvard University
- **Mission** – Help communities around the world build sustainable, resilient & equitable infrastructure
- **Funded & Informed** by A&E industry Partners
- **Overview of Approach**

# TOOL BELT TACTIC – CERTIFICATION

## ENVISION SP

- **Blueprint for Sustainable Infrastructure**
  - Quality of Life – Wellbeing, Mobility, Community
  - Leadership – Collaboration, Planning, Economy
  - Resource Allocation – Materials, Energy, Water
  - Natural World – Siting, Conservation, Ecology
  - Climate and Resilience – Emissions, Resilience

# DIFFERENT CAUSES..... SAME OUTCOME

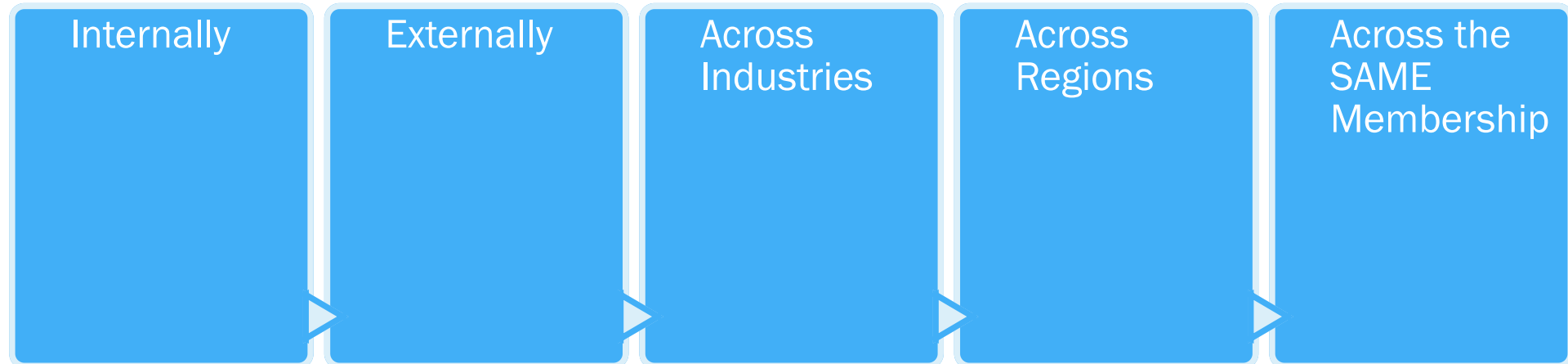


**TYNDALL AIR FORCE BASE**  
Florida Pan Handle



**OFFUTT AIR FORCE BASE**  
Nebraska

# LET'S START COLLABORATING...MORE!



**SHARE YOUR KNOWLEDGE, EXPERIENCE, VICTORIES AND LOSSES.**



# SPEAKER INFORMATION



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**Wishing everyone a healthy day of appreciation  
tomorrow!!!**

**As SAME members clearly know, Veteran's Day  
is more than just a "day off"**

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DOD TO AEC

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UNLOCKING THE  
FUTURE  
FOR  
VETERANS



TRAINING  
HOUSING



ENTREPRENEURSHIP

MCFA is committed to making the world a better place by investing in transitioning military veterans to become leaders in the construction, engineering, architectural and real estate development professions. Through this, we strive to inspire and transform a new generation of leaders in both the public and private sectors to continue to serve our nation.