

Innovation and Emerging Technologies in Government: Keys to Success

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When combined, federal state and local governments spend some **\$200 billion** annually on technology

Unfortunately, the general public only hears about IT projects that fail, project cost overruns, massive delays, and questionable means for measuring performance.

The Emerging Tech Tool Box:



Artificial Intelligence



Blockchain



Hybrid Cloud Technologies



Data Analytics

Participants:

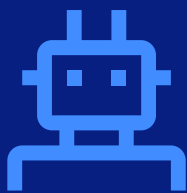
The study revealed a consistent pattern of innovation and self-motivation that when told is nothing less than inspiring. This study includes high-level IT executives at:

Utah
State of
Bureau
US Census
National Oceanic and Atmospheric Administration (NOAA)
Department of Health and Human Services (HHS)
Veterans Affairs (VA)
United States
Agency for International Development (USAID)
General Services Administration (GSA)
National Science Foundation (NSF)
Sonoma County CA
Government Entities



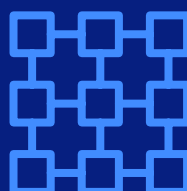
CLOUD

The National Oceanic and Atmospheric Administration provides all of its weather data in the cloud for companies to access and process the data. Companies pay for access and maintenance of the cloud. This novel idea had never been tried in government. NOAA maintains complete control and saves taxpayers hundreds of thousands of dollars per year.



ARTIFICIAL INTELLIGENCE

The National Science Foundation is applying AI to research proposals submitted by university scientists to look for patterns and areas of common interest that might better fit with other federal research agencies.



BLOCKCHAIN

The Department of Health and Human Services has created the first proof of concept using blockchain technology in the federal government. It now has four functioning blockchains. It is using blockchain to instill trust in its underlying COVID-19 datasets which will eliminate the cost burden of replicating data as it moves to various databases.

Common Cross-Cutting Elements of Success:

While each story is different there are many common elements that span each application and innovation. These elements include:



Entrepreneurial Mindset

- Adherence to and passion for public service
- Exemplify Type A+ Self-driven personalities,
- Passion for helping the citizen/customer
- Ability to experiment without fear of failure
- Secure enough to leave egos at the door
- Self-motivated and driven by curiosity and problem-solving



Collaborative Mindset

- Building core groups and individual human networks of experts across complementary but different fields
- Artful in crossing traditional agency and department boundaries
- Willingness to share in success,
- Excellent at managing expectations and building champions of support
- Cutting across traditional boundaries of thought and past practice



Adaptive Mindset

- Willingness to experiment and adapt based on results intended and unintended
- Strong focus on emerging technologies and how they are being adapted
- Motivated by trying to improve business processes that positively impact the citizen/customer experience
- Innovation is creative process that has more do with people, governance, then technology



Mastery of Emerging Technology Mindset

- Confidence in the program's approach and direction
- Grounded appreciation on the limits of technology
- Deep understanding of the problem to be solved with the appropriate solution
- Fearless in seeking answers to technology challenges
- Ability to change course when unsurmountable roadblocks appear



Leadership Mindset

- Self-confidence and inspiring to others
- Knows when to pull back and let others take charge
- Places the ego at the entrance door
- Encourages reasonable risk taking
- Makes it clear they are open to new ideas and approaches
- Leads by example
- Sets high, ethical, and honest standards



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