

Gun Violence: It Can Happen Anywhere

• <u>PM April 2013</u>





# Leadership and Professional Local Government Managers Before, During, and After a Crisis

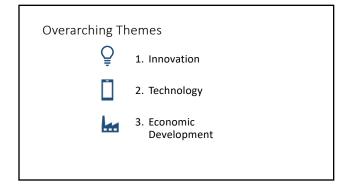
- Understand the common and effective leadership and management skills and techniques.
- Understand the lessons learned and best practice approaches.
- 25 Managers: civil disturbance, shootings, floods, fires, & storms.



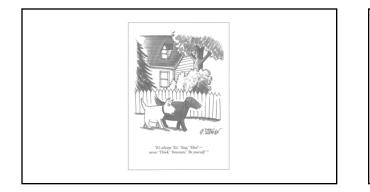








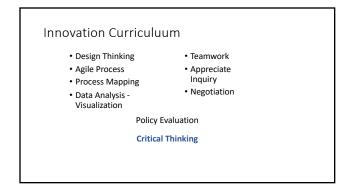


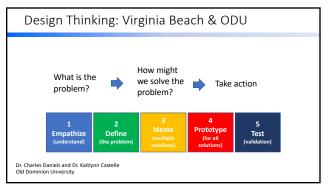




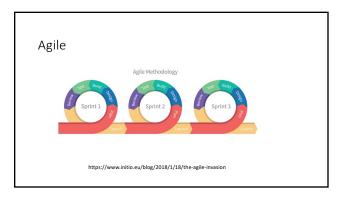


Peak Academy believes...
In achieving measurable results through continuous improvement;
In our ability to make Denver the most well-run city in the nation;
In patience with people and impatience with processes;
In supporting colleagues to innovate;
In failure; because failure leads to breakthrough.









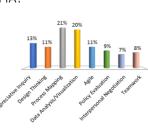
A failure is only a failure if we do not learn from it.

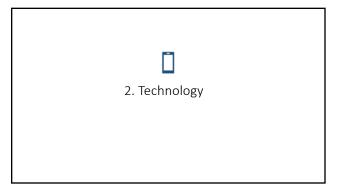
# What four sessions do you consider most important to continue in IA?

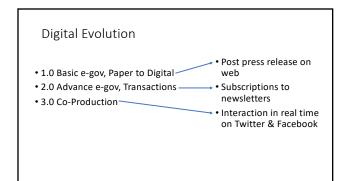
- A. Appreciative Inquiry
- B. Design Thinking
- C. Process Mapping
- D. Data Analysis/Visualization
- E. Agile
- F. Policy Evaluation
- G. Interpersonal Negotiation
- H. Teamwork
- n. leanwork

What four sessions do you consider least important to continue in IA?

- A. Appreciative Inquiry
- B. Design Thinking
- C. Process Mapping
- D. Data Analysis/Visualization
- E. Agile
- F. Policy Evaluation
- G. Interpersonal Negotiation
- H. Teamwork







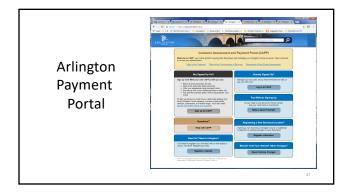




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# Smart City Technologies

- Intelligent lighting
- Smart building controls
- Demand response
- LED lighting
- Solar panels
- Fuel cells
- Wireless charging for automobiles
  NFC (Near-Field Communication)
- Facial recognition

https://smartcities.ieee.org/about.html

- Transportation sensors • Wind turbines
- Intelligent Buildings
- Micro and Macro GMDs
- Low power semiconductors
- An "RF-like" fabric
- Integrated transportation
- A connected self-aware environment that includes but is not limited to weather changes, traffic control, crowd sourcing strategies, medical alerts, etc.

#### GMD

- 1. Ground-Based Midcourse Defense
- 2. Gay Midget Dwarf
- 3. Global Monitoring Division
- 4. Geoscientific Model Development
- 5. Generalized Minimum Distance
- 6. Geomagnetic Disturbance
- 7. Gambian Dalasi
- 8. Groundwater Management District

Smart Cities: Wide Open to Cyber Attacks, Civilization Threatening Events and other Unintended Consequences

https://smartgridawareness.org/2015/04/27/smart-cities-wide-open-to-cyber-attacks-and-civilization-threatening-events/



"The more technology a city uses, the more vulnerable to cyber attacks it is, so the smartest cities have the highest risks."

Smart City Vulnerabilities

- Lack of Cyber Security Testing
- Poor or Nonexistent Security • Encryption Issues
- Lack of Computer Emergency
- Response Teams
- Large and Complex Attack Surfaces
- Patch Deployment Issues
- Insecure Legacy Systems
- Simple Bugs with Huge Impact
- Public Sector Issues
- Lack of Cyber Attack Emergency Plans
- Susceptibility to Denial of Service
- Technology Vendors Who Impede Security Research

Cerrudo, Cesar. 2015. An Emerging US (and World) Threat: Cities Wide Open to Cyber Attacks. White Paper produced by IOActive Security Services, retrieved from https://skyvisjonsolutions.files.wordpress.com/2015/04/oactive-hacking-cities-white-paper-2015-cesar-cerrudo.c

## Mecklenburg County, NC (12/2017)



CHARLOTTE, N.C. - Mecklenburg County leaders provided an update Wednesday afternoon regarding Characterization in the county's servers that caused a massive outage. Hacking attack on the county's servers that caused a massive outage. Hacking attack on the county's servers that caused a massive outage. Hacking attack on the county's servers last week and held files for ransom. The cybercriminals, believed to be from Ukraine or Iran, froze 48 of the county's 500 servers. On Tuesday, county officials said 27 of the affected servers have been restored and that they are making progress.

Mecklenburg County Manager Dena Diorio said a county employee opened an email they shouldn't have, which helped the hackers infiltrate the system. The ransomware used during the attack is a new computer virus strain called LockCrypt.

The hackers demanded two bitcoin, which equaled about \$25,000 at the time, in exchange for the files. Mecklenburg County leaders refused to pay the demand, and instead, they decided to use backup data available prior to the hack to rebuild applications from scratch.

## Sacramento Regional Transit (9/2017)



- Hackers announced their presence by defacing the agency's website with a note that read: "I'm sorry to modify the home page, i'm good hacker, i I just want to help you fix these vulnerability. This is one of the loopholes, modify the home page ..."
- · However, the message was a trap. When techs made the decision to see if any damage had been done by going into the system, they activated the hacking attack that deleted 30 million files.

http://bitcoinist.com/hackers-demand-single-bitcoin-ransomware-attack/

#### Greenfield, Indiana(1/2018) Population 22,602

GREENFIELD, Ind. -- Hancock Regional Hospital has control of its computer systems once again, after management decided to pay the ransom demanded by a hacker.

The hospital's files were attacked last Thursday by ransomware known as SamSam, infecting more than 1,400 files before hospital security managed to contain it. Hancock Regional's CEO says they considered attempts to bypass the hack and not pay the amount demanded by the hacker – four bitcoins, worth roughly \$55,000 at the time. But several factors changed their minds.

"With the ice and snow storm at hand, coupled with the one of the worst flu seasons in memory, we wanted to recover our systems in the quickest way possible and avoid extending the burden toward other hospitals of diverting patients," said Steve Long, Hancock Regional CEO. "Restoring from backup was considered, though we made the deliberate decision to pay the ransom to expedite our return to full operations." https://w

Brave Leadership During Challenging Times



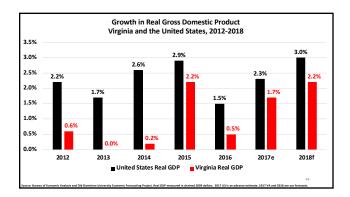
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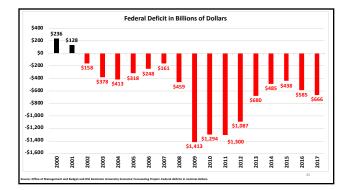
- SALT & PAB
- Advance Refundings No longer tax exempt
   Tax advance refundings
   Forward delivery bonds
   Tenders
   "Cinderella" Structures
   Synthetic advance refundings

- New Bonds
   Variable rate
- Short calls
  Make-whole calls
  Hybrid calls

PFM, January 29, 2018. After Tax Reform: Municipal Market Update and Considerations



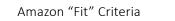












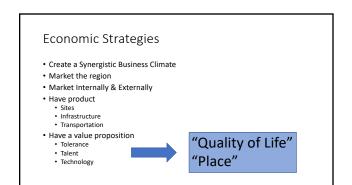
### **Cultural Community Fit**

- Diverse population
- Excellent institutions for higher learning
- Local government structure and elected officials eager and willing to work with the company
- Stable and consistent business climate

 Recreation Opportunities • Educational Opportunities

Community/Quality of Life

- Overall "high quality of life"
- https://images-na.ssl-images-amazon.com/images/G/01/Anything/test/images/usa/RFP\_3.\_V516043504\_.pdf



# **Overall Leadership Approach**

- Have a vision (and values)
- · Focus on the positive
- Connect the dots
- Cross boundaries; create synergy
- Push performance
- Take risks

O'Neill, Robert J., Jr. and Carlee, Ron. 2011. Reflections on the First Decade of the 21st Century: Leadership Implications for Local Government. Chapter 1, ICMA Municipal Yearbook.



