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Digital Governance in Pennsylvania – Successes, Opportunities, and Challenges – Recommendations for the Pennsylvania State Planning Board

Sabina Deitrick, PhD
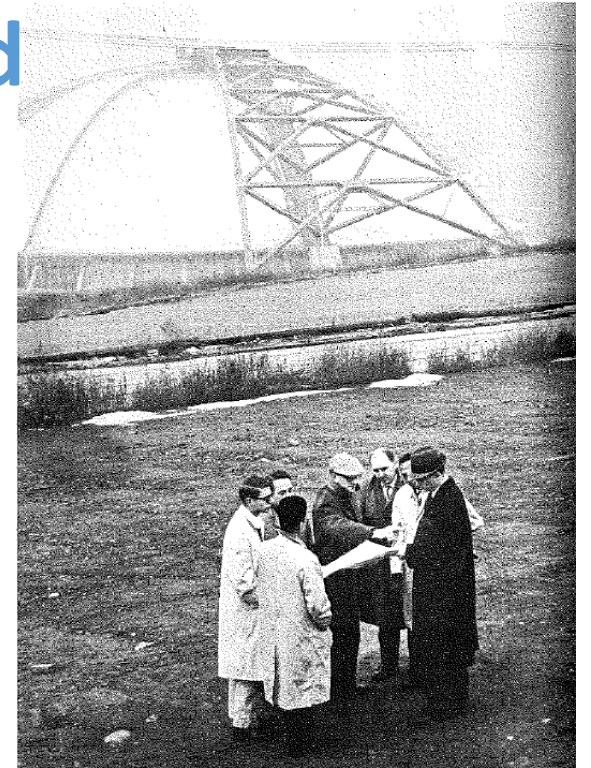Associate Professor
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Annual Conference, State College, October 23, 2017
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Digitizing Governance in Homestead and West Homestead

DATA LIBERATION CAPSTONE PROJECT – SPRING 2015 – APRIL 20TH, 2015

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The State of Digital Governance in Pennsylvania

April 25, 2016

Faculty Advisor: Sabina Deitrick

Max Cercone   Joshua Thomas
Ziqiao Chen   Tracy Xu
Patrick Conners   Shalu Xue
Susan Gilbert   Jia Yang
Lucy Gillespie

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APA PA Student Project Award Winner 2017!

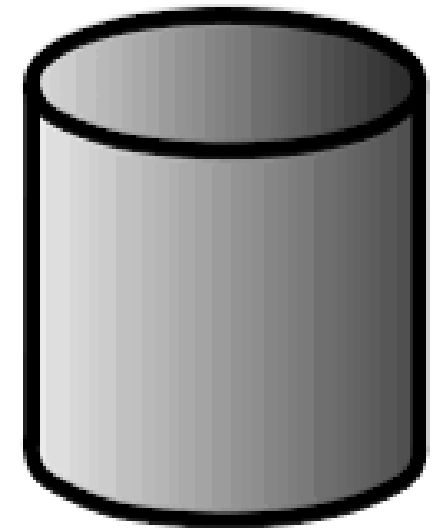Expediting the Expansion of Digital Governance and Planning by Pennsylvania Municipalities

April 2017 Report
Emily Hammers, Max Harleman, Brett Morgan, Kara Olson, Michael Roth, Anna Salvador, Taylor Stessney, Liu Zhang
Faculty Advisor: Professor Sabina Deitrick
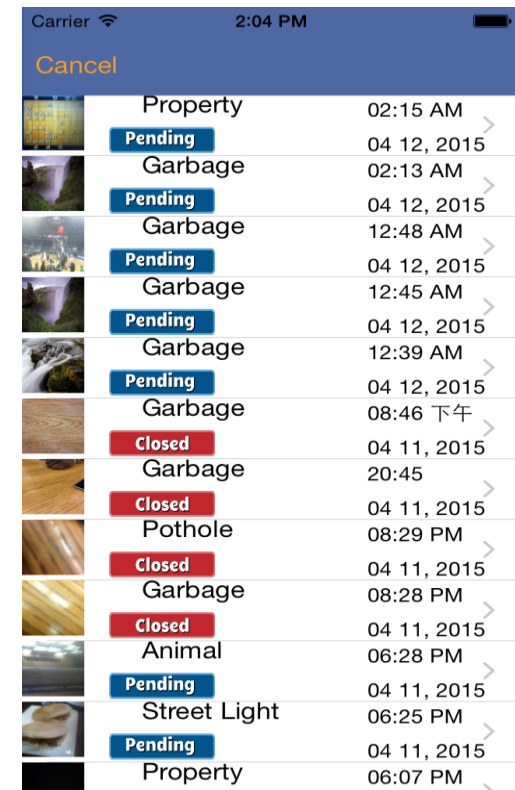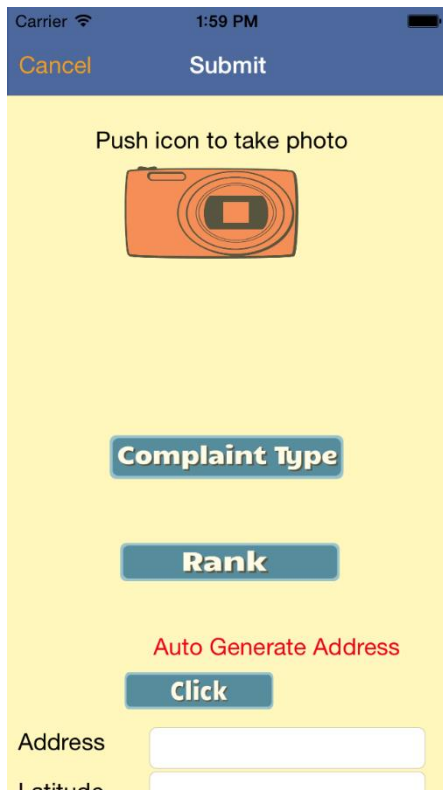University of Pittsburgh

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PLACE FINE IN TRAFFIC VIOLATION ENVELOPE. DEPOSIT IN SLOT ABOVE.

DUNCAN FINE·O·METER

TRADE MARK

WARNING: ANYONE MISUSING OR TAMPERING WITH THIS BOX IS SUBJECT TO ARREST. PATENTED

GO!

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TICKET BOX

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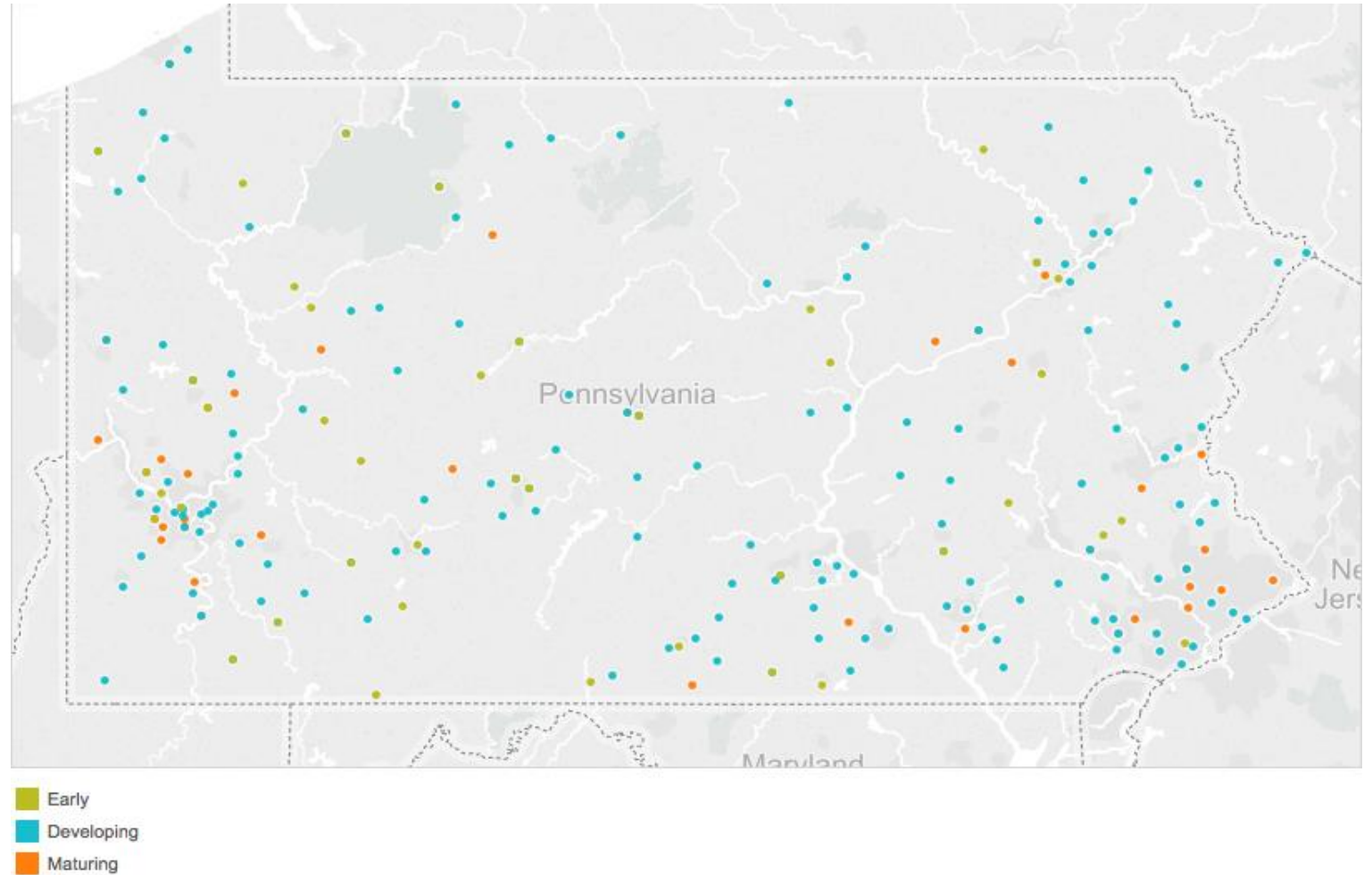# What can digital governance and planning do?

What can digital governance and planning do?

To Achieve Digital Maturity, You Need:

- **Strategy**
- **Culture**
- **Workforce**
- **User-focus**
- **Leadership**
- **Engagement**

Survey Results -- Digital maturity of PA municipalities
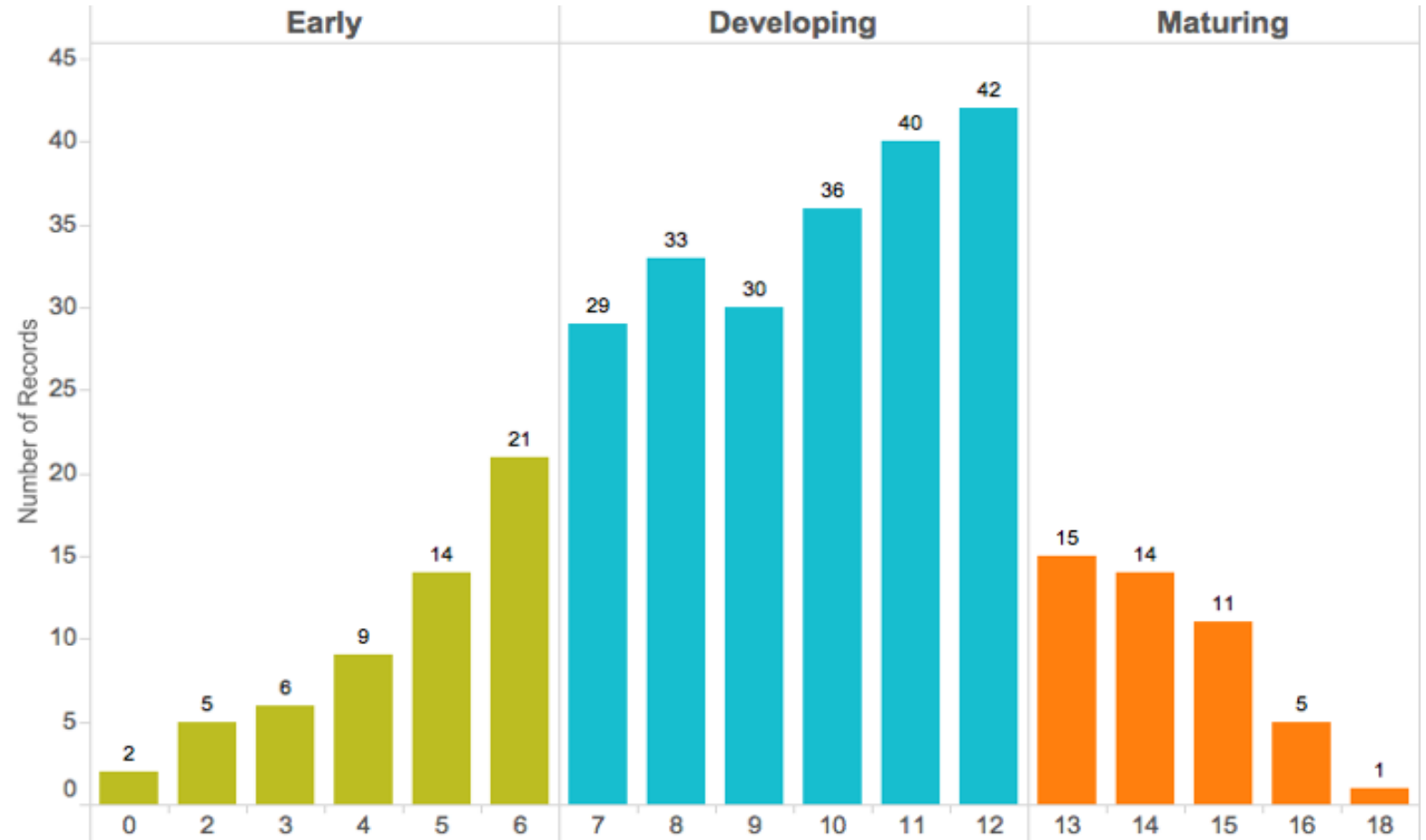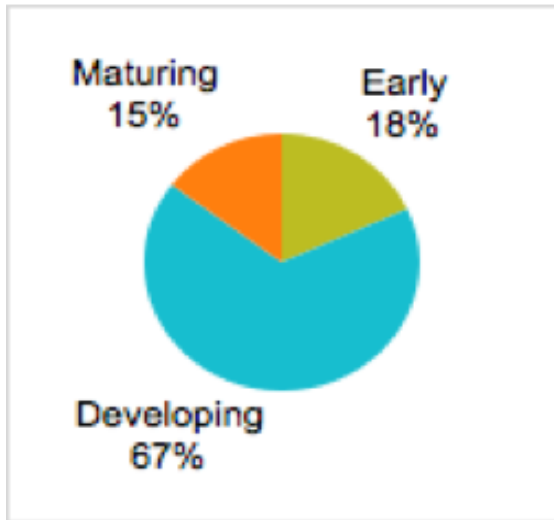
Example: Leadership

Early	Developing	Maturing

Early: 11%, 56%, 33%

Developing: 2%, 2%, 66%, 30%

Maturing: 2%, 39%, 59%
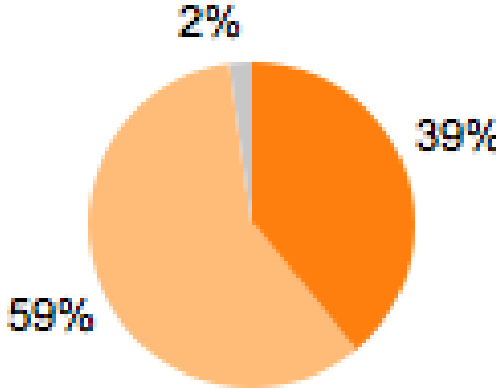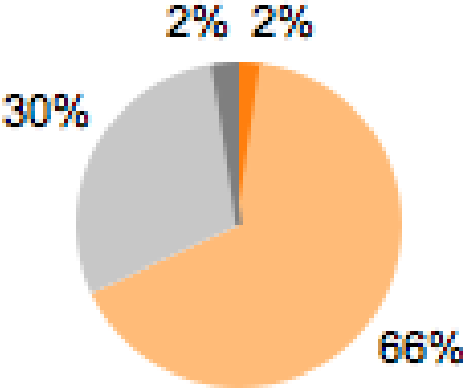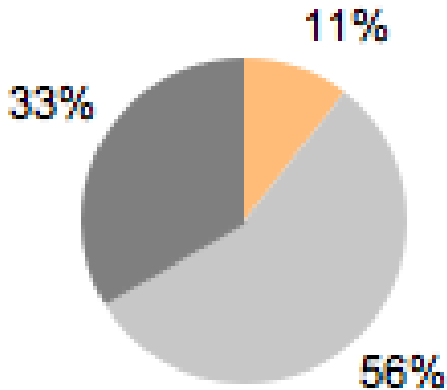
Q8: Our elected officials encourage the use of digital technologies.

- Strongly agree
- Agree
- Disagree
- Strongly Disagree

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Commonwealth of Pennsylvania

Thomas W. Wolf
Governor

Governor's Charge to the State Planning Board

The State Planning Board, which was first established in 1929, was reconstituted by Act 41 of 1989, as an advisory board within the Governor's Office entrusted with the following powers and duties:

1. Conduct research and collect, compile and analyze data bearing upon social, economic, physical, demographic, and other factors which may influence the present and future welfare of the Commonwealth.
2. Monitor nation and State trends, identify issues of potential interest and concern to the Commonwealth and prepare for the Governor and the General Assembly on an annual basis, or more often if necessary, reports detailing the findings of the board.

State Planning Board Efficient Government Work Group
Issues & Ideas Scan

For State Planning Board meeting, October 14, 2016
Governor Wolf's Charge – How does the fragmentation of government at the state, county and local level affect decision-making on issues such as school funding?

State Planning Board Community Revitalization Work Group
Issues & Ideas Scan

For State Planning Board meeting, October 14, 2016
Governor Wolf's Charge – How can the state do more to support Pennsylvania's struggling older cities and towns? Identify policies, including tax policies, which contribute to the divide between urban and suburban areas, and to the twin challenges of concentrated poverty and sprawl.

Lessons for the PA State Planning Board: Digital Technology and Digital Maturity Requires Solutions at Different Operational Levels

1. Technology
2. Equity Improvements
3. Statewide Policies

Internal

External

Cross-Jurisdictional
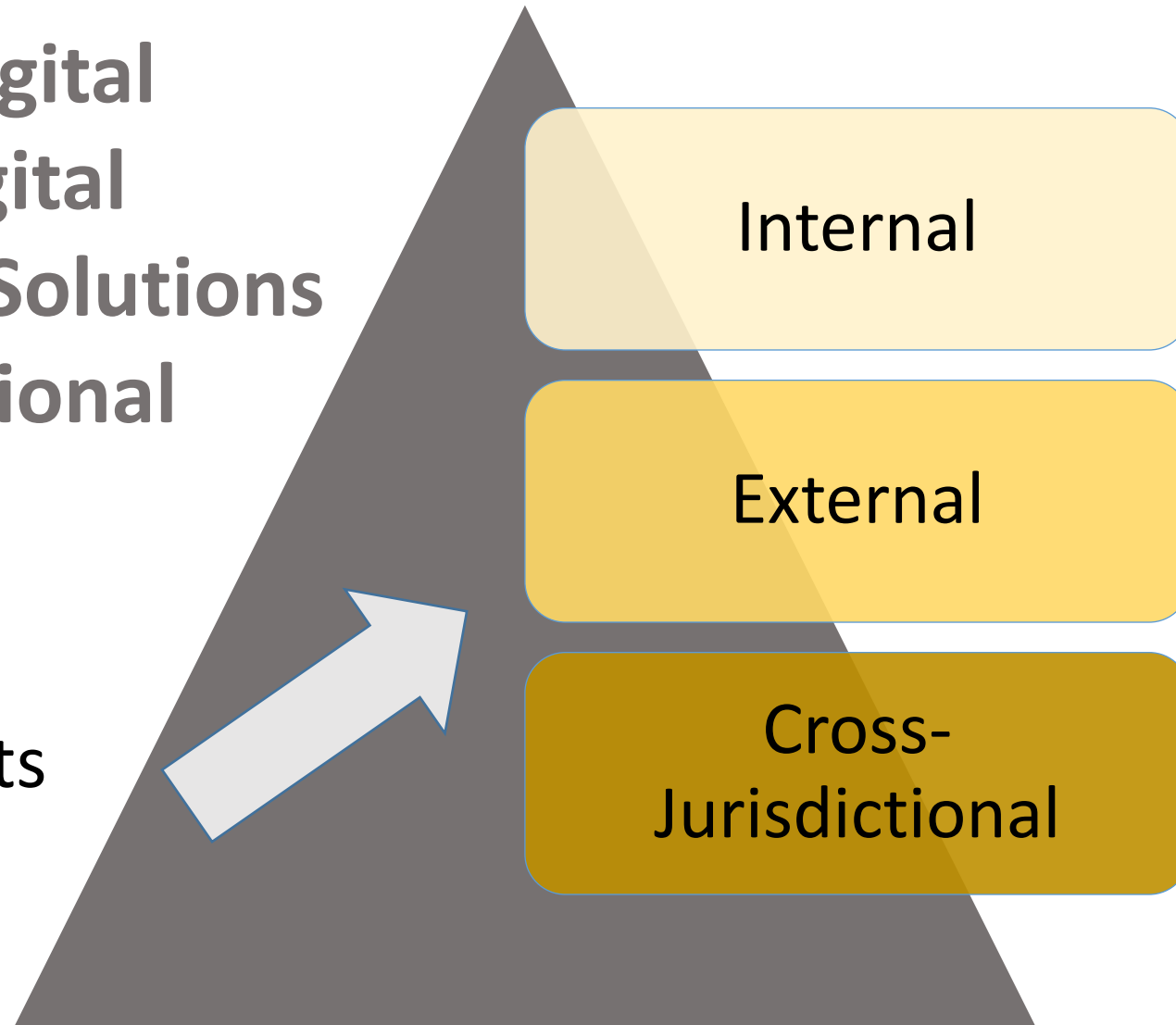
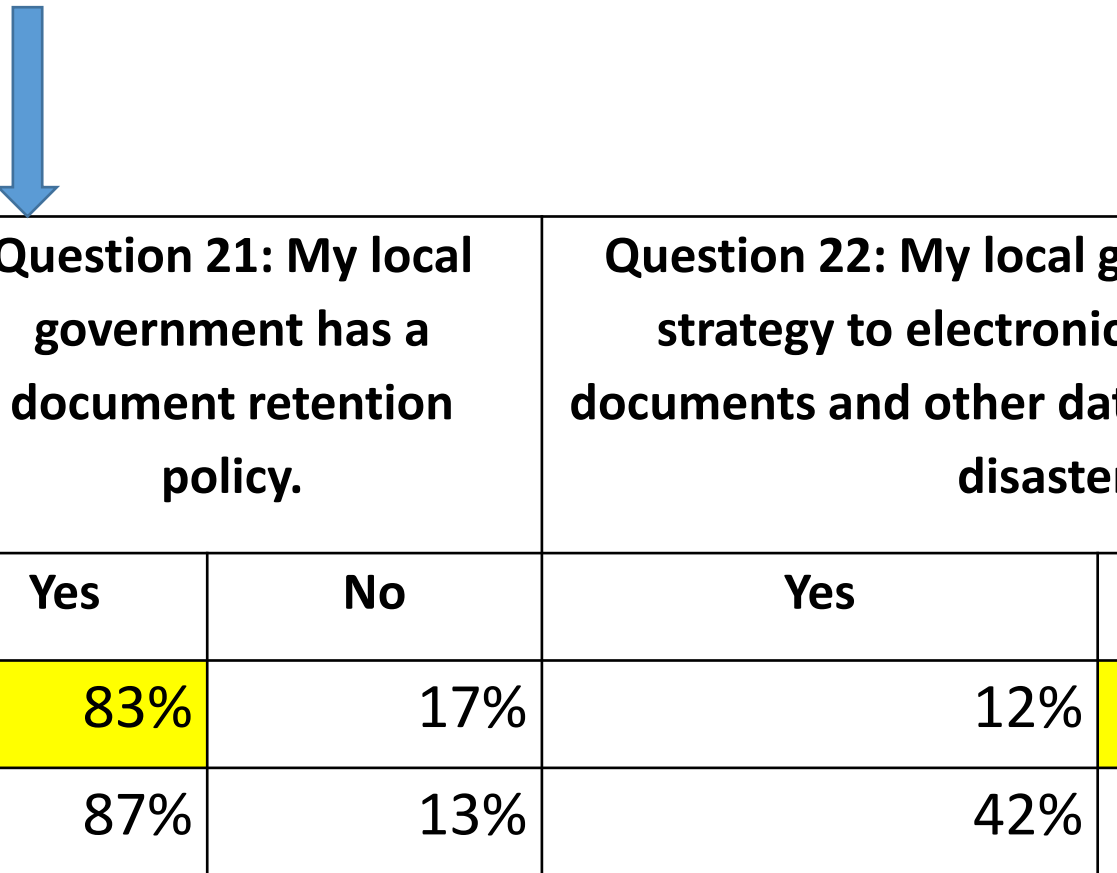# Internal Technological Solutions

Digitizing Paper Records

Employing Cloud-Based Strategies

Adopting Within Department Applications

Internal Technology Solutions – Survey Results Say …

But does it work?

Stages of Digital Maturity	Question 21: My local government has a document retention policy.		Question 22: My local government has a strategy to electronically reproduce documents and other data in the event of a disaster.	
	Yes	No	Yes	No
Early	83%	17%	12%	88%
Developing	87%	13%	42%	58%
Maturing	93%	7%	78%	22%

Statewide Policies -- Digitizing Paper Records

DCED should standardize document retention by requiring municipalities to digitize their records.

DCED should lead the effort to design and implement a statewide policy that sets a timeline for digital storage of all records that are required by state agencies.

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WANTED

Cross Jurisdictional:

Chief Data Officer

- Statewide CDO
- Regional CDOs at MPOs/RPOs
- COGs

PennDOT Bike/Ped Coordinator as Model

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State	Chief Data Officer	Date HIred	Bio of CDO	Open Data Score	Notes
Alabama	Rick Boyce	Feb. 2016	Boyce used be a Y2K coordinator and served at Office of Information Tech in 2014.	37%	
California	Zachary Townsend	Jun. 2016	Townsend was a tech executive in Silicon Valley.	42%	Leads the development of statewide data sharing policies
Colorado	Jon Gottsegen	Apr. 2016	Gottsegen used to be a state GIS coordinator	57%	Developed open data strategy Promoted interoperability of data assets among state entities
Connecticut	Tyler Kleykamp	Feb. 2014	Kleykamp worked on GIS databases	84%	Standardized and manages data assets
New Jersey	Liz Rowe	Mar. 2015	Codified the CDO position into state law	43%	Developed a dataset format standard across all agencies Monitors and ensure compliance
New York	Todd Harbour	Nov. 2016	Harbour was a senior federal government official based in D.C.	74%	Developed data governance strategy Unified information architecture Coordinates data sharing Maintains master data
North Carolina	John Correllus	Apr. 2016	Correllus served as director of NC government Data Analytics Center	56%	Manages master data, governance, standards and data architectures.
Tennessee	Jeffrey Kriseman	Nov. 2015	Kriseman was chief public health informatics officer in TN Dep't of Public Health.	51%	

Improve Equity through Digital Governance

"The impact of disability is radically changed on the Web because the Web removes barriers to communication and interaction that many people face in the physical world" (W3C 2017).
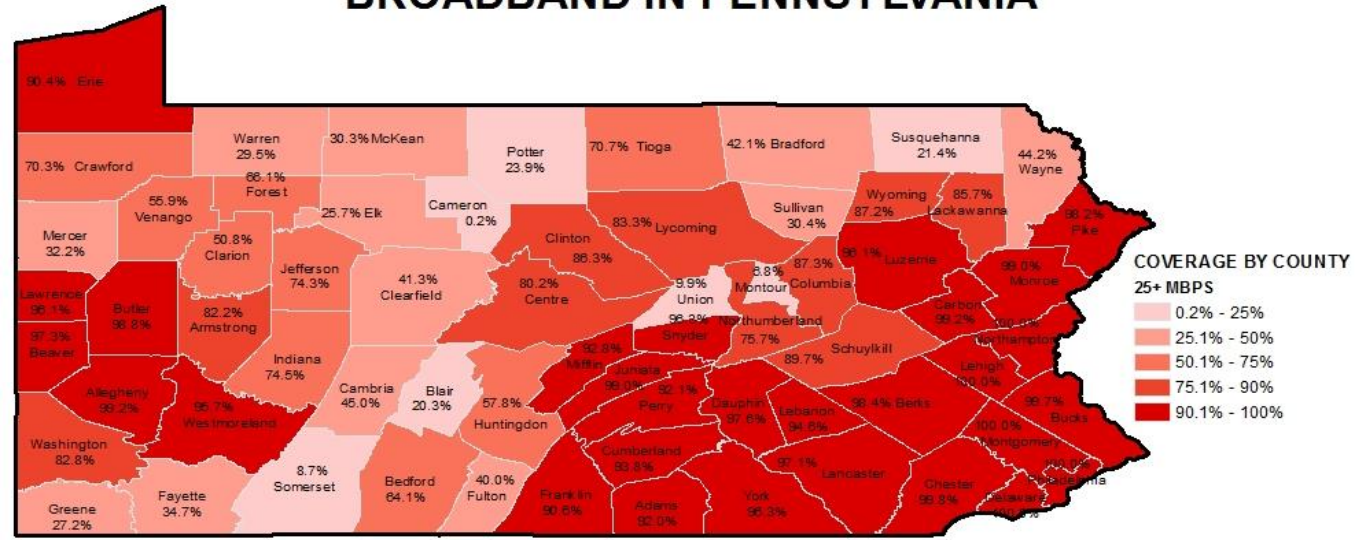
"Digital Equity is a condition in which all individuals and communities have the information technology capacity needed for full participation in our society, democracy and economy. Digital Equity is necessary for civic and cultural participation, employment, lifelong learning, and access to essential services" (National Digital Inclusion Alliance 2017).

Equity: Let's see where we are (at) on Internet Access

- 90% of PA has access to wired broadband 25 megabits per second or faster … **BUT** *on the other hand:*

  - *1.3 million people don't have connections capable of 25 Mbps.*

  - *115,000 people in Pennsylvania don't have any wired internet providers where they live.*
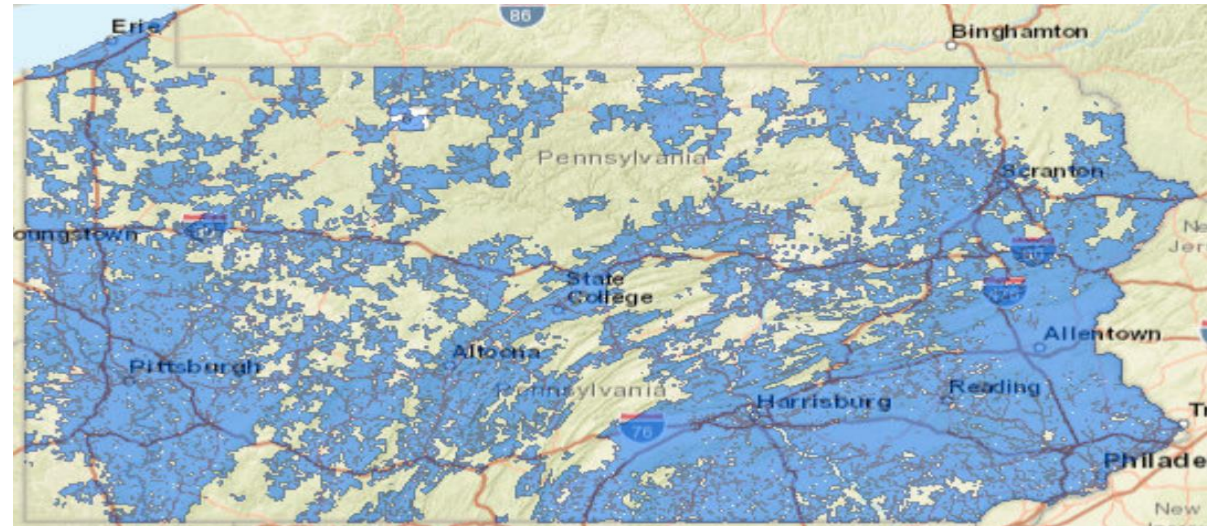
BROADBAND IN PENNSYLVANIA

COVERAGE BY COUNTY
25+ MBPS
0.2% - 25%
25.1% - 50%
50.1% - 75%
75.1% - 90%
90.1% - 100%

Source: BROADBANDNOW, 2017, http://broadbandnow.com /Pennsylvania.

Map Layers

DSL

Cable

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Training: PATH Site Update

- We recommend DCED engage local governments & other stakeholders at the regional level to design and implement "Digital Adoption Plans."

- Engage through MPOs, RPOs, LDDs, COGs

- Seminars and forums at:

PSATs, PA Digital Gov't Summit,

PA State Assn of Boroughs

PA Municipal League

PA Electronic Gov't Consortium

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