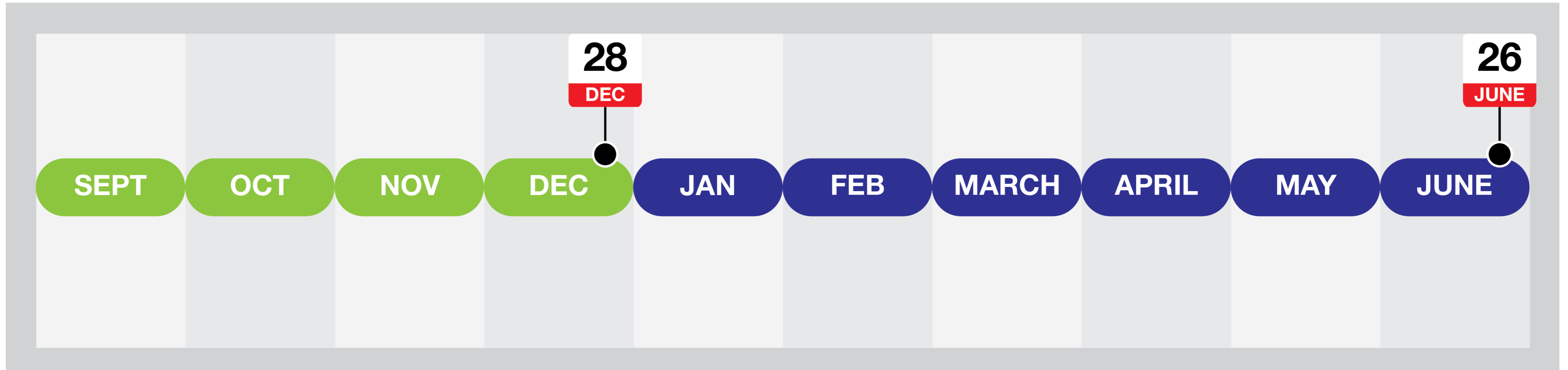




**Joint Hearing before the PA Senate and House Committees on Veterans Affairs and
Emergency Preparedness and Senate Committee
on Communications and Technology**

October 19, 2017

Opt for Pennsylvania




Under federal law, the Opt-Out choice lets Governor Wolf make an Opt-Out election before December 28, 2017:

- Opting Out gives Pennsylvania more time to negotiate the best public safety solution
- By Opting Out, Pennsylvania can **still** choose either option for a further 180 Days
- The Opt-Out choice benefits Pennsylvania State Police, state agencies, county and local governments in control of their multi-billion communication assets.
- The Opt-Out choice ensures Pennsylvania gets a purpose-built Band-14 statewide public safety broadband network versus a commercial LTE network.

Opting Out : Nothing to lose and MUCH MORE TO GAIN

Opt for Pennsylvania

Comparative Value to the State of Pennsylvania :

	 Spectrum Value	 New Jobs	 Federal Grants	 Revenue Sharing	 PS* Local Savings
	\$520 MILLION	6,000 + MORE	\$168 MILLION	\$383 MILLION	\$1.14 BILLION
at&t	\$0	N/A	NO	NO	N/A

*public safety

Opt for Pennsylvania



- The badly needed \$520 Million spectrum is Band-14 which has 7 times more power than LTE to increase rural broadband coverage and penetrate thick buildings, walls, stairways.
- The Rivada plan creates 6,000 more JOBS than AT&T, drives economic development across 67 counties.
- At least \$168 Million in Federal grants to Pennsylvania to construct purpose-built Band-14 across 67 counties with 1,162 new towers.
- \$383 Million stays in Pennsylvania instead of sent to Washington. The \$383 Million is used to maintain, operate and improve the system.
- More than \$1.14 Billion in cost-savings to PA State Police, state agencies, county and local governments, plus they get better coverage and safety with Band-14.

Comparative Value to the State of Pennsylvania :					
	Spectrum Value	New Jobs	Federal Grants	Revenue Sharing	PS* Local Savings
RIVADA	\$520 MILLION	6,000 + MORE	\$168 MILLION	\$383 MILLION	\$1.14 BILLION
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Opt for Pennsylvania

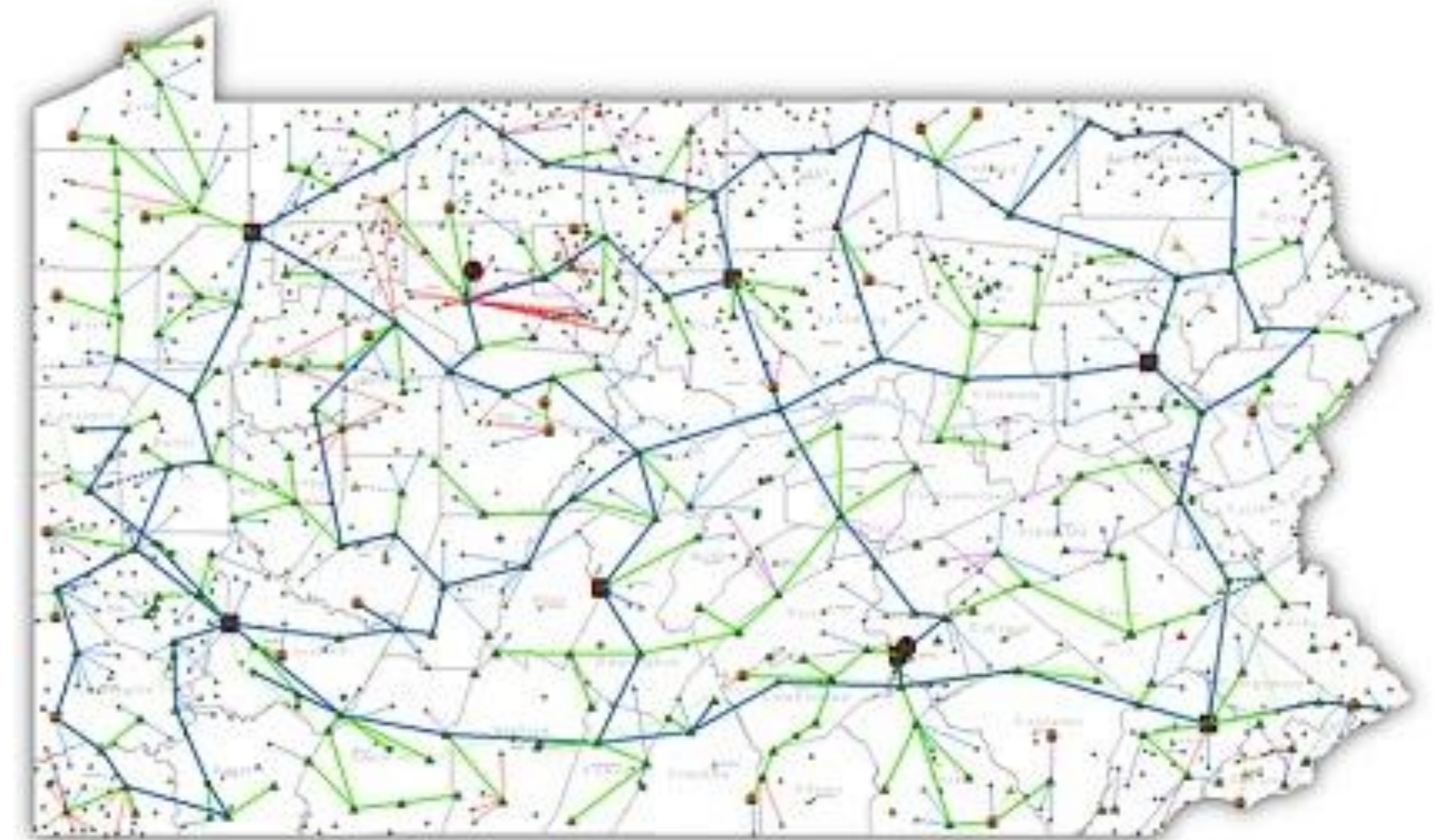
PA-STARNet

PA-STARNet – Broadband Communications Opportunities:

- System capacity increased, starting in 2012, funded by \$28.8 million Federal broadband stimulus grant.
- An additional 150 Mbps capacity was added to the PA-STARNet digital microwave network, using Multi-Protocol Label Switching (MPLS)
- Connections are available to ‘last mile’ providers (ISPs, telcos, cellular providers) and anchor institutions (schools, hospitals, public safety agencies).
- Available in 32 counties in northern Pennsylvania: MPLS Layer 2 Ethernet
- Continuous network monitoring, 99.999% reliability and availability.

PA-STARNet Tower Space Opportunities:


- Tower space available for commercial rent at approximately 150 sites.
- Reciprocal agreements for public safety through county governments.




Opt for Pennsylvania



**Band 14 is Safer
and Better for
Pennsylvania
Public Safety**

**More Rural
Coverage and
Greater Building
Penetration**



**NO
CHANGE**



Non-Band-14



**7x
POWER**



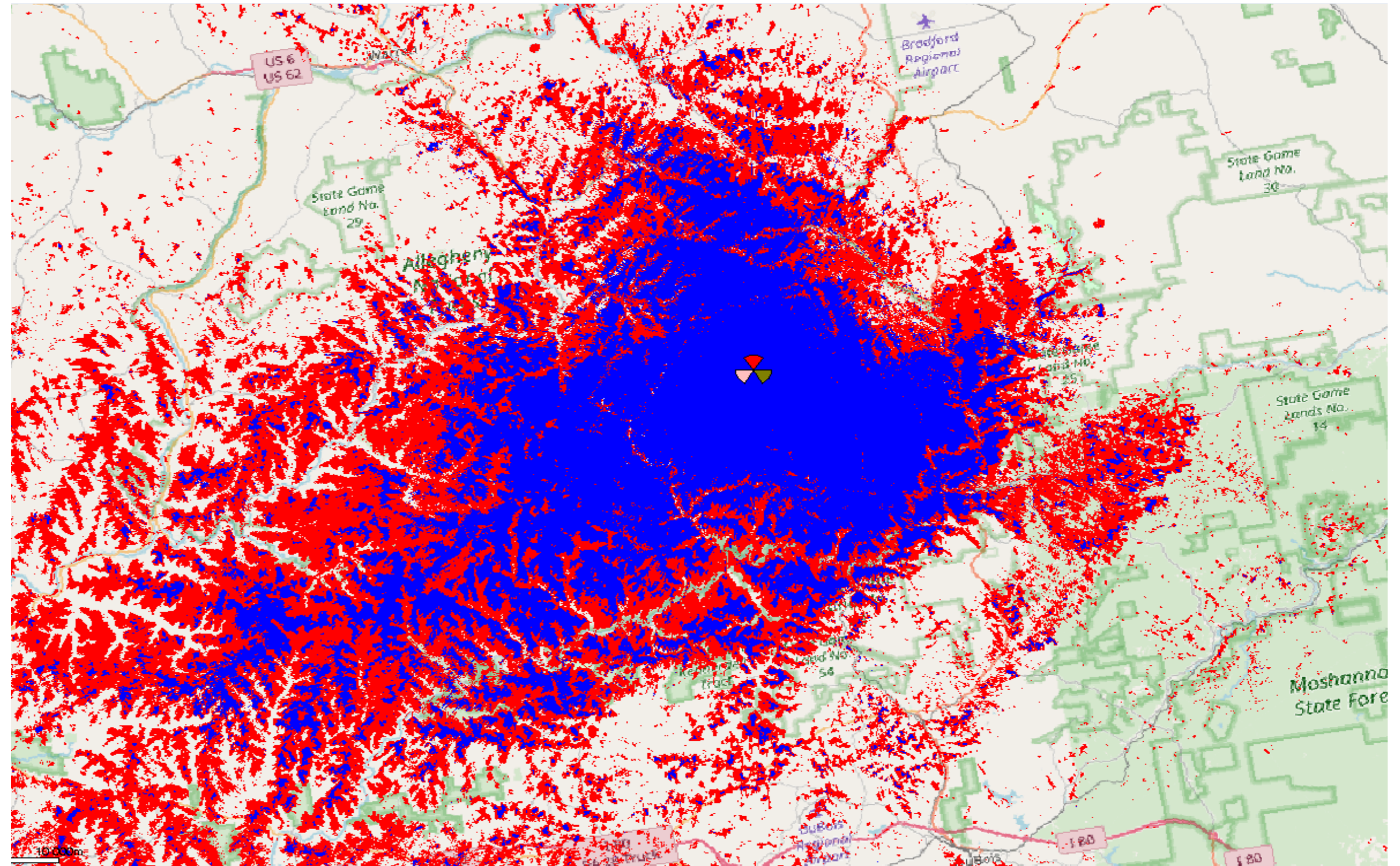


Band-14

Opt for Pennsylvania

**Band 14 is Safer
and Better for
Pennsylvania
Public Safety**

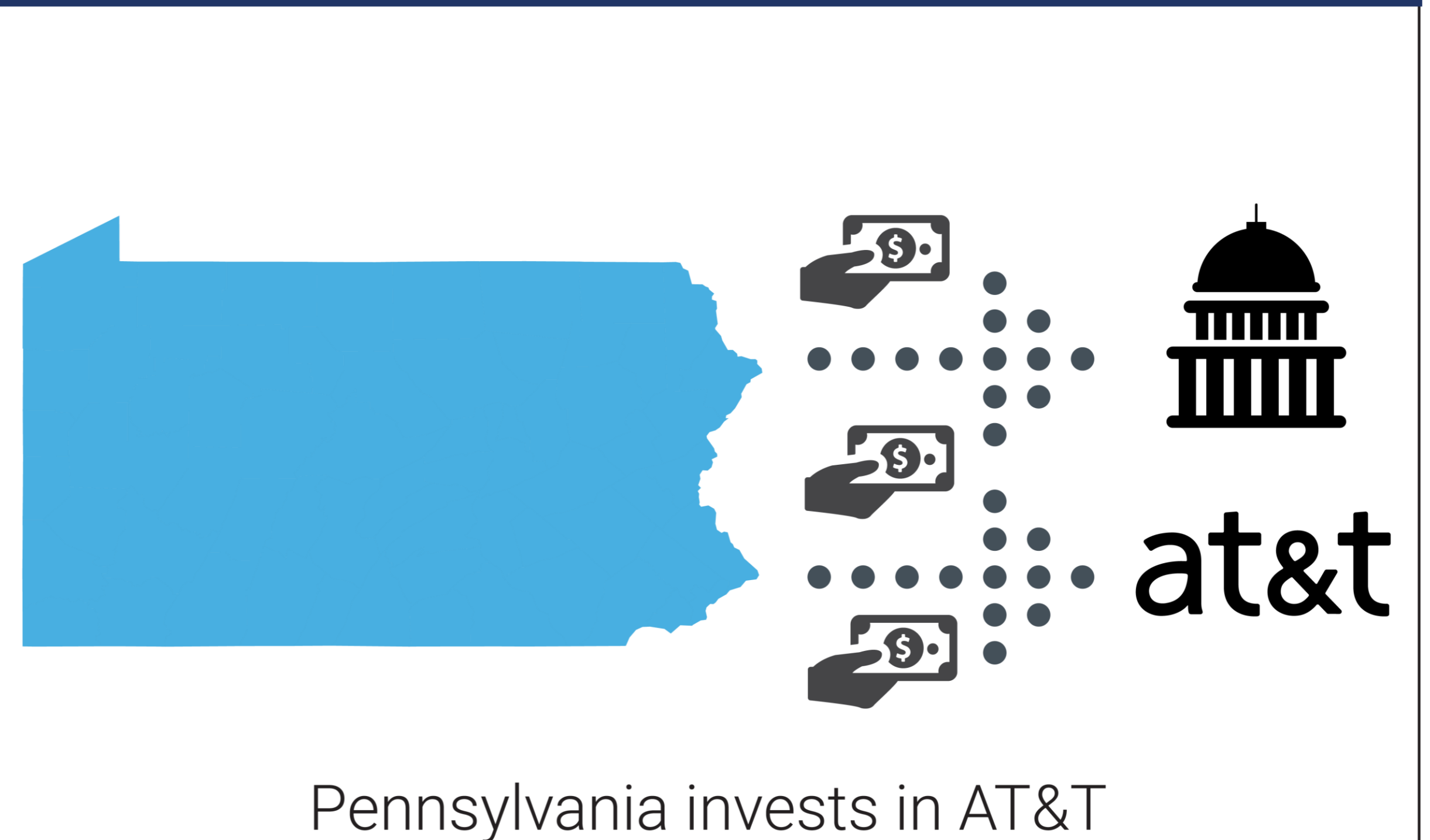
**More Rural
Coverage &
Greater Building
Penetration**



AT&T Opt-In Monopoly

- Revenues collected in Pennsylvania benefit AT&T
- Fees paid by AT&T to FirstNet redistributed by Washington to 50 states and territories
- AT&T decides where and when to invest in Pennsylvania
- FirstNet controls all aspects of the Network from Washington
- AT&T has not disclosed monthly subscription fee
- AT&T not making a significant investment in Pennsylvania infrastructure
- Little or No BAND-14

AT&T Offer

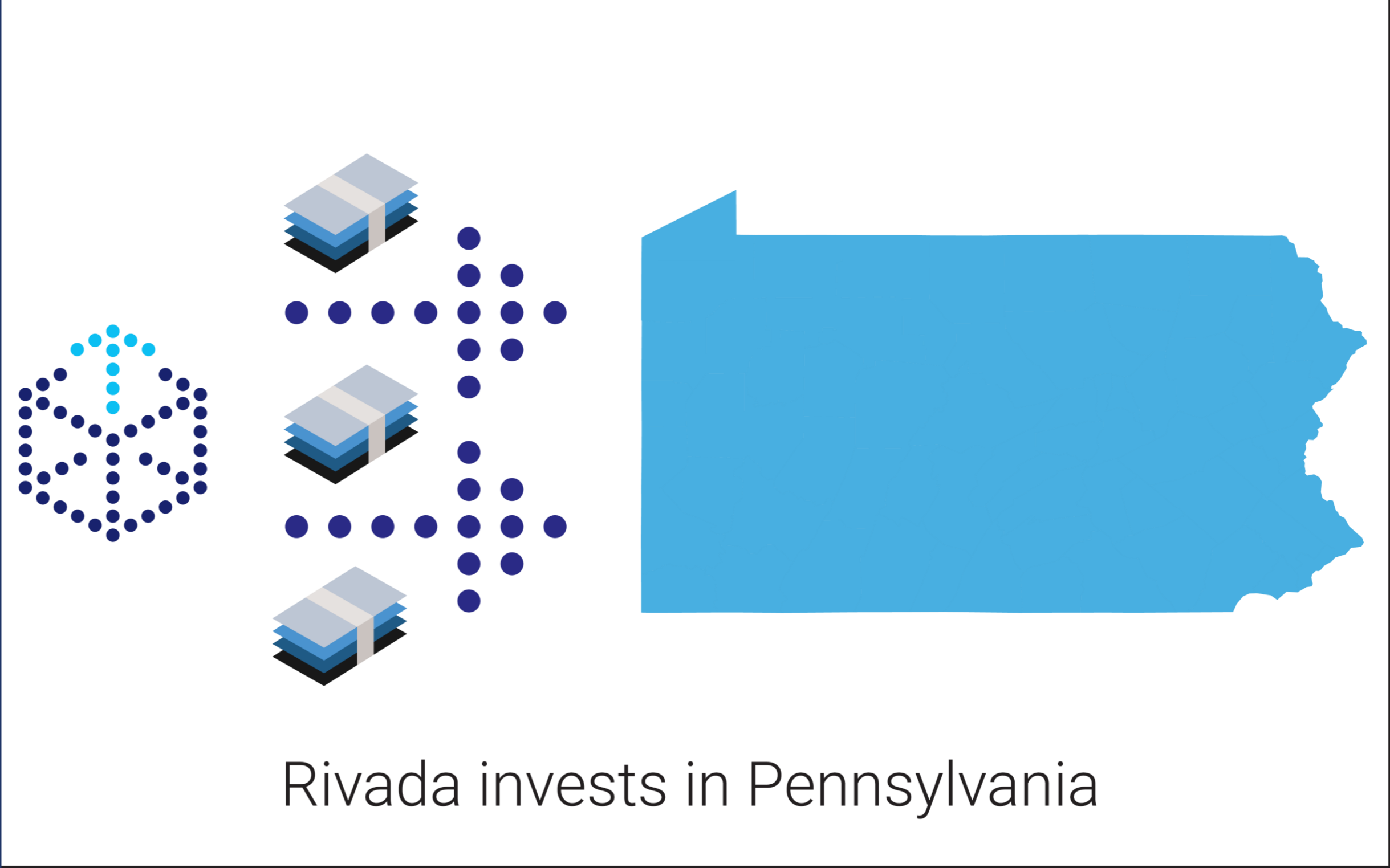


Opt for Pennsylvania

Opt-Out Plan with Rivada

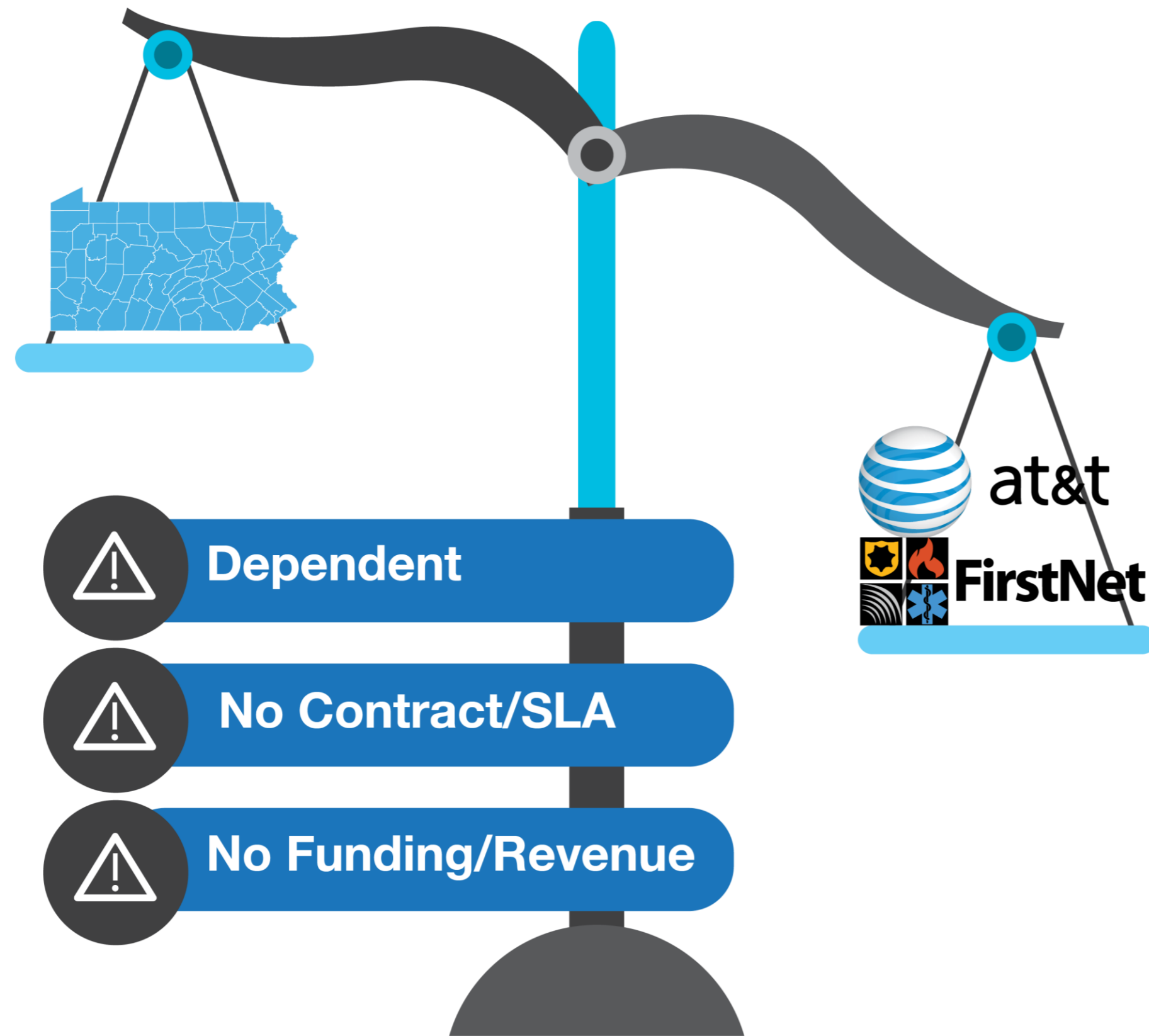
- Revenues collected in Pennsylvania benefit Pennsylvania
- Pennsylvania Partner Rivada works with state, county and local officials to maximize investment into PA
- PA local and state officials control Public Safety Network
- Rivada will pay millions in lease payments to state, county and local government
- Rivada in mutual public/private agreement with Pennsylvania
- BAND-14
- Significant reduction in STATE, COUNTY and LOCAL budgets and a great benefit to Primary First Responders

Rivada Solution

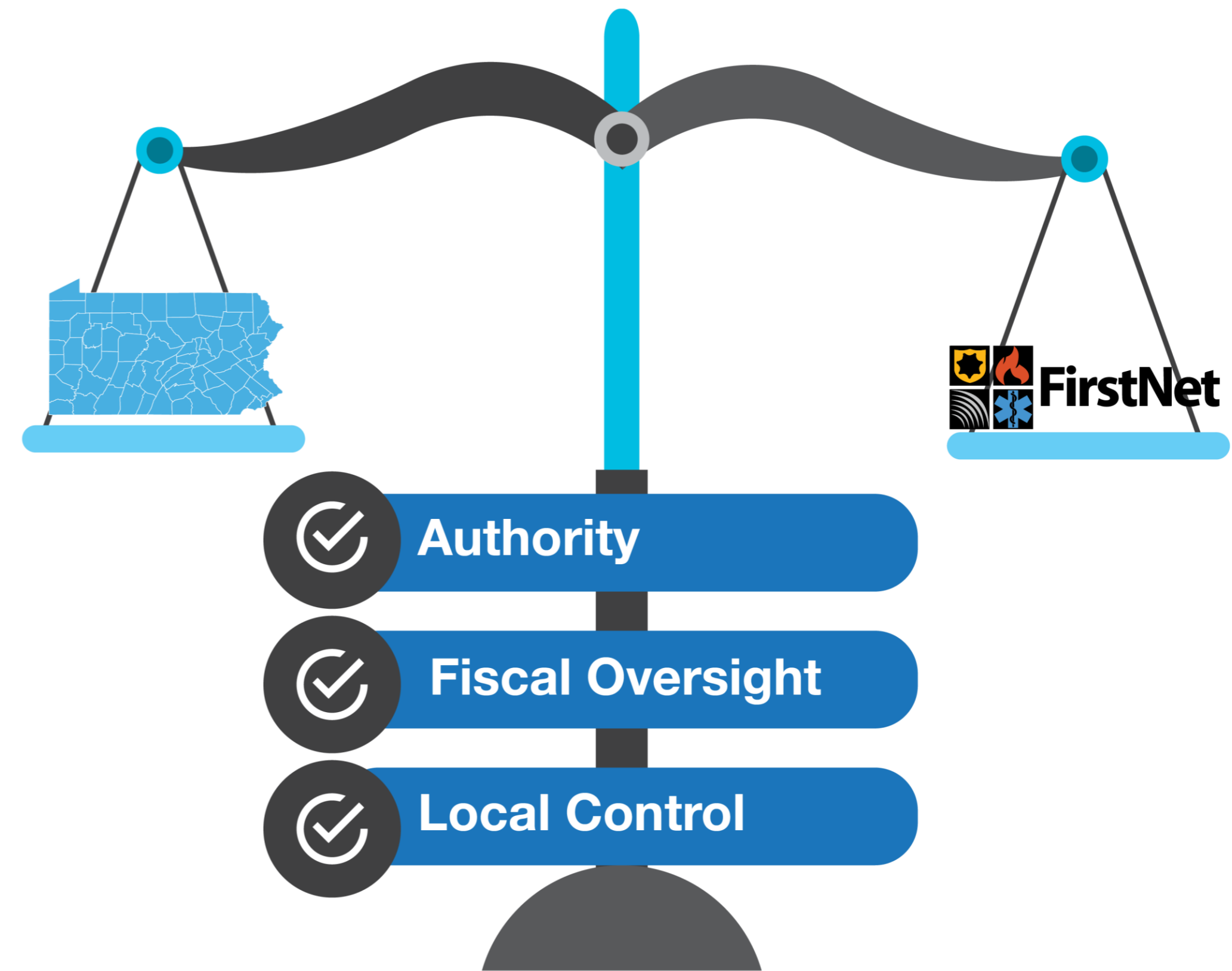


Rivada invests in Pennsylvania

Opt for Pennsylvania



Unbalanced Relationship



Partnership

Opt out states are in a balanced and empowered relationship with FirstNet