

# Kentucky Office of Homeland Security (KOHS)

## Kentucky 911 Services Board Next Generation 911 Overview & Adoption Update January 23, 2024

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# Role of 911 Services Board

- Collect and distribute wireless 911 surcharge to **117** certified PSAPs
  - Postpaid/Lifeline = \$.70/mo. (1998)
  - Prepaid = \$.93/transaction @POS (2016)
  - Distribution formula \*97.5% returns to local 911
    - 42.5% pro rata (equal share to all)
    - 42.5% wireless subscribers
    - 7.5% competitive grants (\$2.5 million cap)
    - 5.0% Statewide Next Generation 911 projects
    - 2.5% administrative

# Funding trends

- Wireless
  - \$26.5 million FY 2015
  - \$34.0 million FY 2019
    - Impact of prepaid
  - \$39.6 million FY 2023
    - \$29.1 million postpaid
    - \$10.5 million prepaid
- Landline
  - Effect of decreasing landline subscribers

# What does the future hold?

- **Next Generation 911**

- What is NG911?
  - Geospatial call routing
  - Text/video to 911
  - All PSAPs connected via IP network
- Benefits of network connectivity
- Role of GIS in NG911

# Challenges to meeting NG911 readiness the local level

- Ever-diminishing landline fees
- Understaffed PSAPs
- Meeting enhanced NG911 mapping standards

# Resources to aid NG911 readiness

- 911 Services Board competitive grants
- NG911 Technology Fund
  - 2020 HB 229 (redirected cost recovery)
  - 2022 HB 363 (bolstered NG 911 fund)
- Federal NG911 grants

# Federal NG911 Grant Program

- 2019: \$3.6 million for statewide foundational NG911 projects
  - \$2.2 million federal grant
  - \$1.4 million required local match
    - 100% covered by 911 Services Board Administrative Fund

# Federal NG911 Grant Program

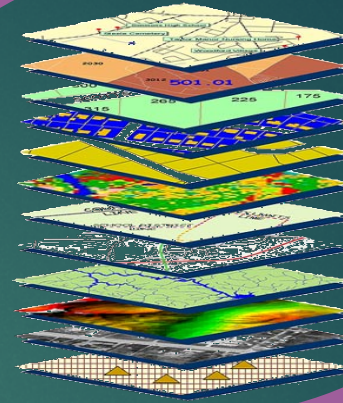
- Update Kentucky NG911 plan
- Statewide GIS mapping
  - GeoComm QA/QC, one-time remediation
- Mapping & data display/analytics
  - RapidDeploy Radius & Eclipse
- Aerial photography
- Local GIS projects



# DATA VERIFICATION AND AGGREGATION

Every PSAP uploads data layers as changes are integrated into their local datasets.

Data is reviewed to meet NENA i3 standards before aggregation into the statewide layers.



# DIVISION OF GEOGRAPHIC INFORMATION

The GIS Clearinghouse has data from many state agencies and local entities, including all data submitted to meet the KY 911 Services Board requirements. The data is available for public consumption and is submitted to the NAD.



# INDIVIDUAL PSAPS

PSAPs are required to submit GIS data quarterly. PSAPs may produce the data internally or secure outside contracts for collection and maintenance.



# STATEWIDE MAPPING DISPLAY

The Board-sponsored mapping display pulls directly from the GIS Clearinghouse and is available within every PSAP at each workstation throughout the Commonwealth via RapidDeploy Radius Mapping. The portal is the single interface for mapping/data integration, displaying on the most robust GIS data available.



# Accomplishments

- Dec. 2020: New state NG911 road map
- Dec. 2021: Board funded high-resolution aerial photography for 10 counties covering 4,468 sq. miles
- March 2022: Distributed 700+ monitors/workstations for data portal display at no cost to local 911 call centers
- Jan 2024: 110 PSAPs live with RadiusPlus mapping
  - 75% agencies active users/ 500+ unique users
- Jan 2024: 90 PSAPs live with Eclipse Analytics
- Jan 2024: 99 PSAPs GIS data [NG911 ready](#)



# What's next?

- ESInet
  - IP connectivity for all certified PSAPs
- Next Generation 911 Core Services
  - Geospatial call-routing
- Another round of federal funding?

# NG911 deployment: obstacles and opportunities

- Funding
  - 911 Services Board has maxed out existing resources
  - Projected costs for statewide deployment
  - Benefits to local 911 call center

# NG911(ESInet and NGCS) Cost Estimate

State with population over 6.0 Million							
	Cost per population		Monthly*		Annual		5 Years
Minimum	\$	0.0625	\$	279,147.84	\$	3,349,774.04	\$ 16,748,870.21
Maximum	\$	0.0776	\$	346,881.57	\$	4,162,578.89	\$ 20,812,894.43
Average	\$	0.0717	\$	320,501.13	\$	3,846,013.56	\$ 19,230,067.81
State with population under 3.0 Million							
	Cost per population		Monthly*		Annual		5 Years
Minimum	\$	0.0878	\$	392,222.17	\$	4,706,666.09	\$ 23,533,330.46
Maximum	\$	0.1275	\$	569,656.29	\$	6,835,875.45	\$ 34,179,377.24
Average	\$	0.1062	\$	474,580.93	\$	5,694,971.21	\$ 28,474,856.04

- Variables that can impact pricing:
  - Regional Hosted vs. State hosted facilities
  - Redundant Connections at PSAPs
  - Last mile transport and bandwidth sizing needs

# Kentucky Office of Homeland Security (KOHS)

## Discussion and Questions

**Kentucky Office of Homeland Security**

<https://homelandsecurity.ky.gov>

**911 Services Board**

<http://911board.ky.gov>

