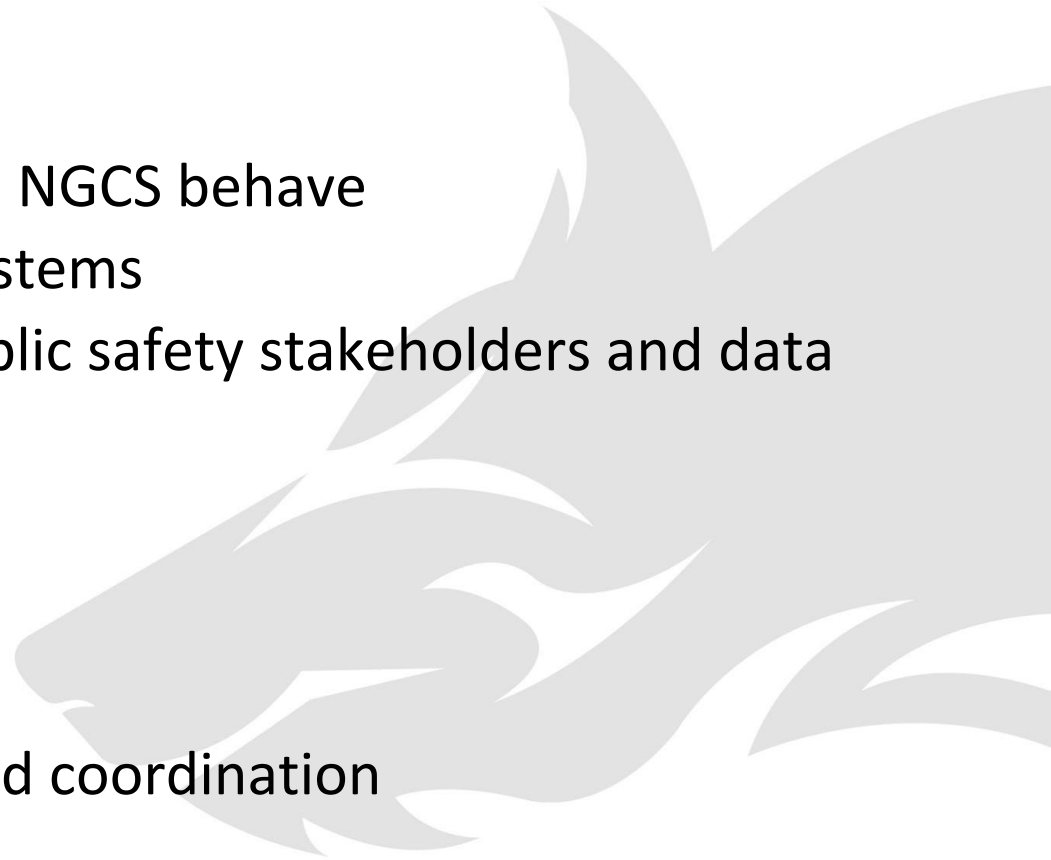# How to Workshop:

Building a Soapbox

- The challenge
- The gaps
  - Understanding how the NGCS behave
  - GIS data for all 9-1-1 systems
  - The "who's who" of public safety stakeholders and data stewards
- The resolution
  - Data forward solutions
  - QA plans
  - Outreach, education and coordination

We Make a Difference

"…the strength of the Pack is the Wolf, and the strength of the Wolf is the Pack…"

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The Gaps

LVF

All LIS features must have a valid geospatial location

Only one unique representation of a civic location may be contained in address points or centerlines; no duplicates

Results in discrepancy reports

Forklift (no change detection), thus no persistent unique ID needed

ECRF

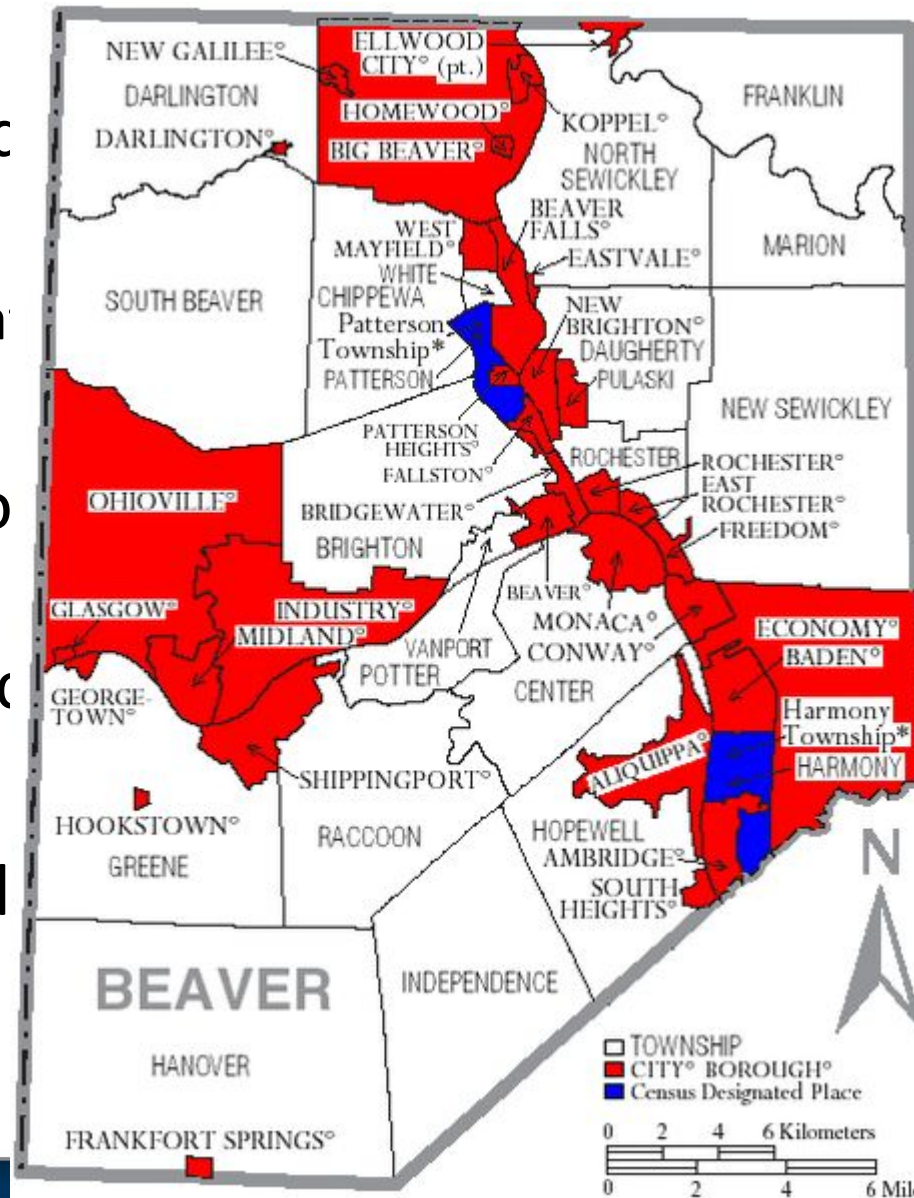Uses GIS data in attempt to identify location of civic address

Can use business rules in a "policy store" to bypass addressing anomalies

Forklift (no change detection), thus no persistent unique ID needed

- Need to unc   eans

  - Mapped a

- Need GIS so   analytics

  and QC chec   ND NGCS

- Data QC pol

GIS Data for all 9-1-1 Systems

Call Taking System

Automated Vehicle Location
(AVL)

Dispatch System (CAD)

CAD Mapping System

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9

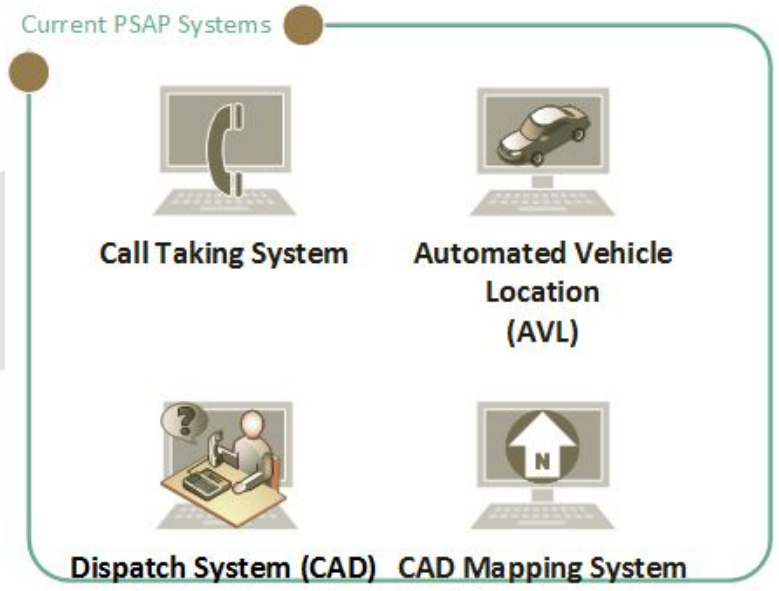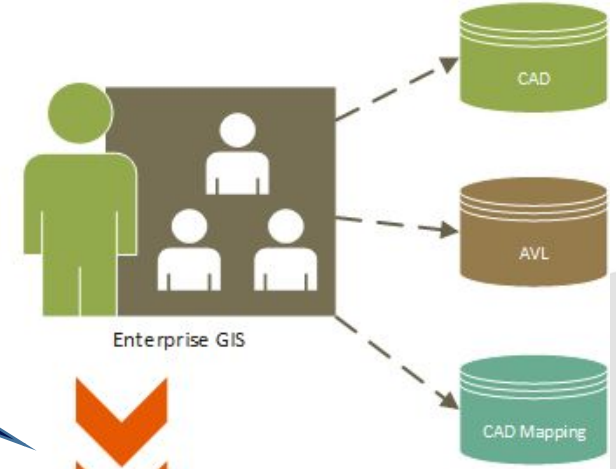*"…the strength of the Pack is the Wolf,
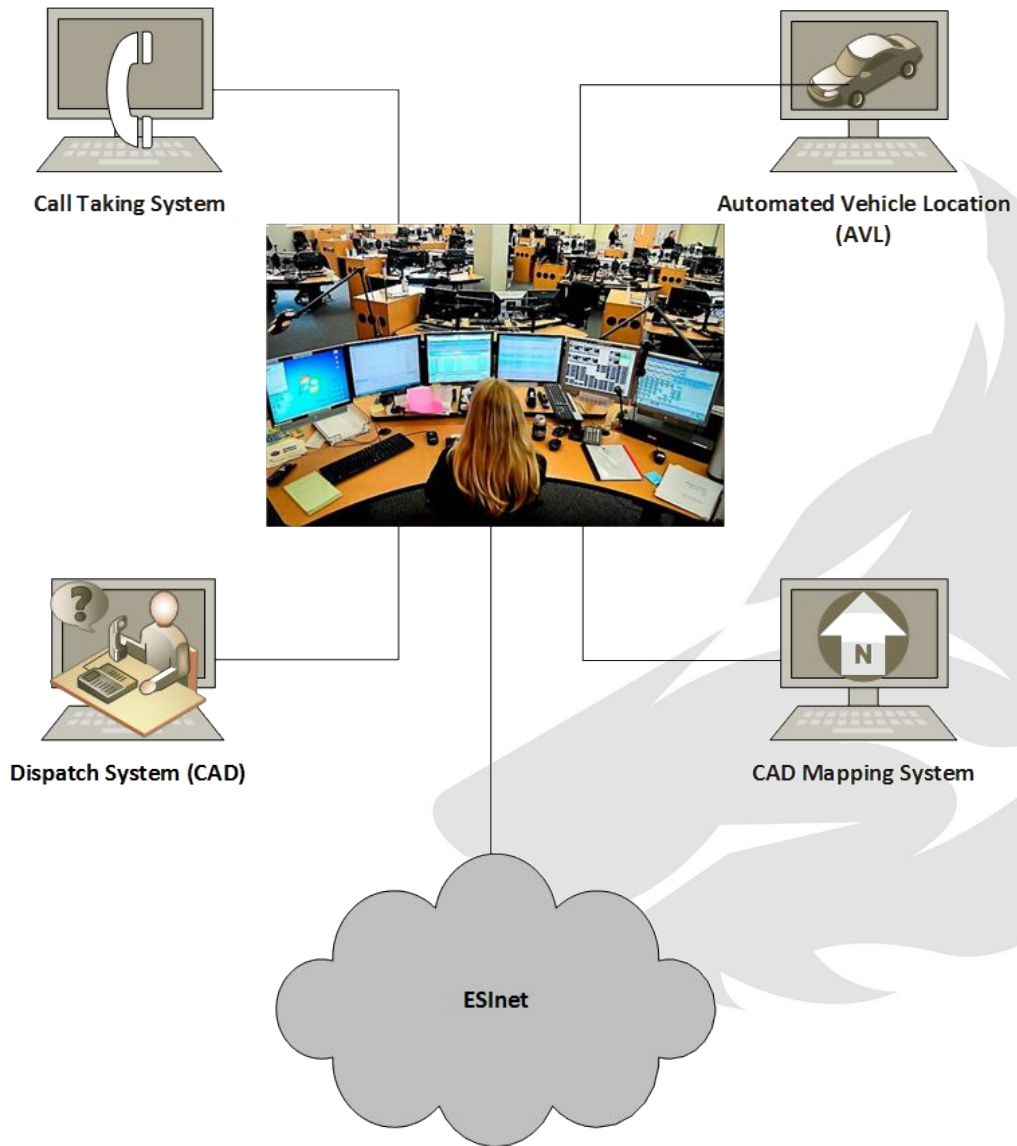and the strength of the Wolf is the Pack…"*

1. Not all local government's have a enterprise GIS

2. Not all PSAP's who have GIS data available via a enterprise GIS use it in their current PSAP systems. WHY?

   a. **System specific data maintenance silos**

   b. **Little to no inter-governmental coordination**

   c. **Lacking of GIS knowledge and resources to support 9-1-1 systems**

Optional; not required

Enterprise GIS

CAD

AVL

CAD Mapping

Current PSAP Systems

Call Taking System

Automated Vehicle Location (AVL)

Dispatch System (CAD)   CAD Mapping System

Call Taking System

Automated Vehicle Location (AVL)

Dispatch System (CAD)

CAD Mapping System

ESInet

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"...the strength of the Pack is the Wolf,
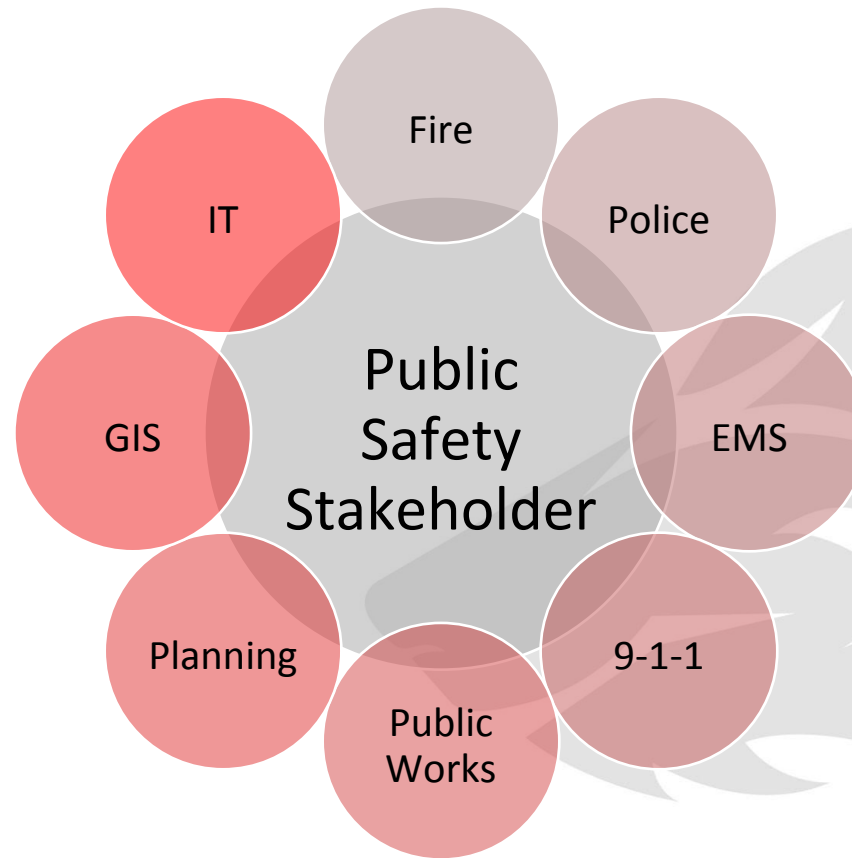*and the strength of the Wolf is the Pack..."*

1. Not all local government's have a enterprise GIS, thus will need to create the data and identify resources to maintain the data in near real-time fashion.

2. PSAP's who have GIS data available via a enterprise GIS but don't currently use it in their current PSAP systems.

   a. **Need assistance in "speaking" GIS or find GIS support**

   b. **Assistance in creating policy for persistent inter-governmental coordination**

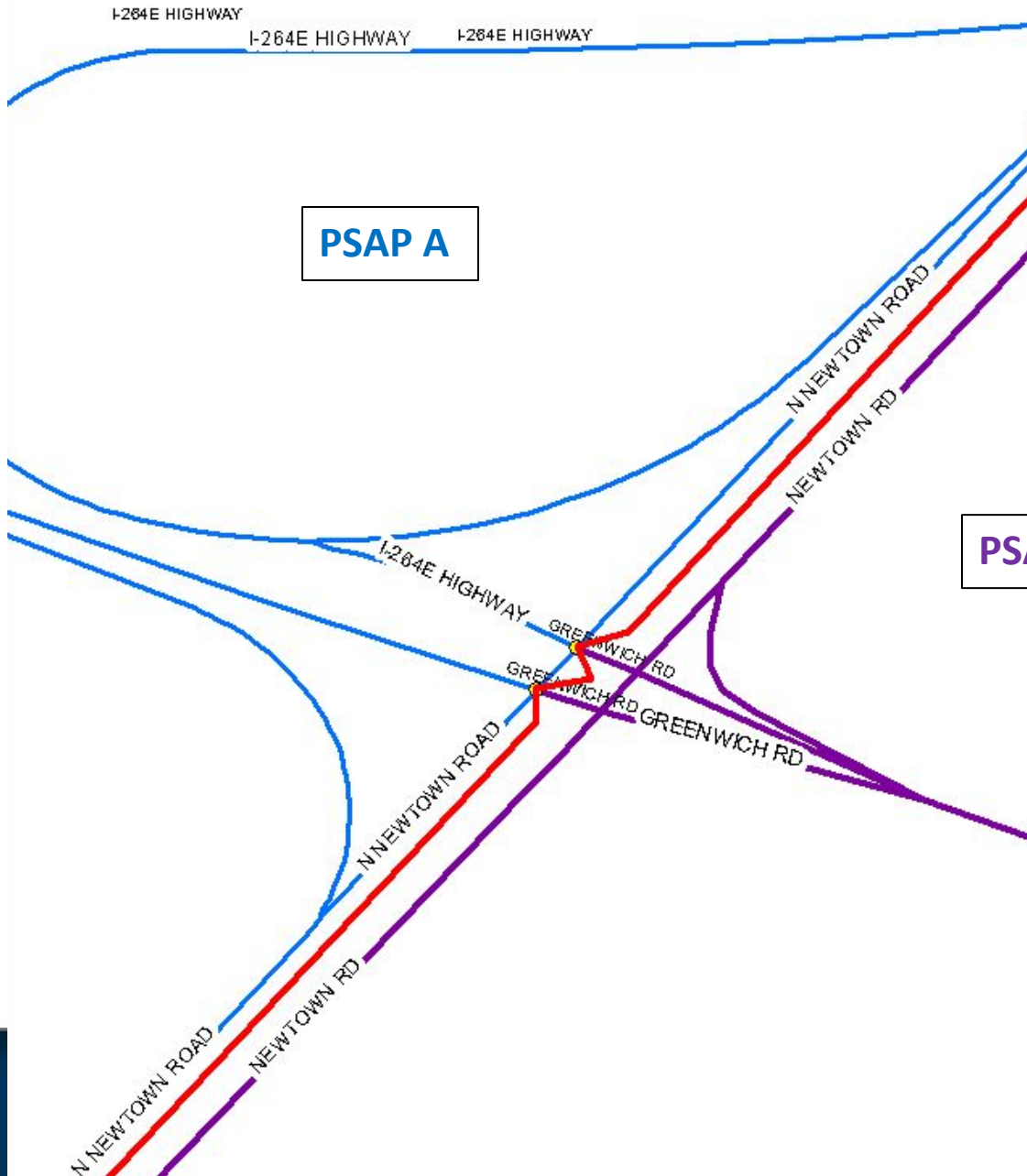   c. **Will need solutions to support data maintenance requirements.**

No longer optional
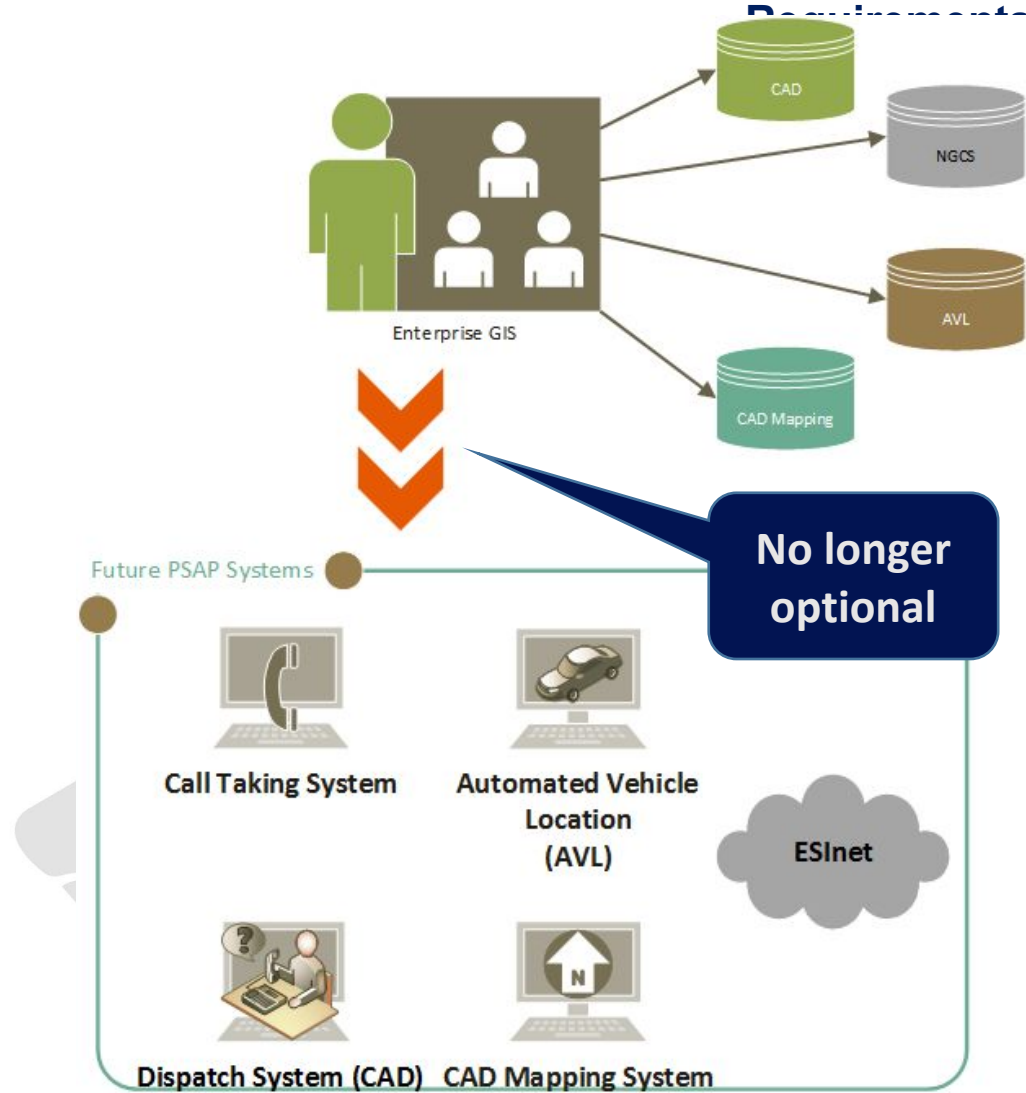
NG9-1-1 is the catalyst that adds to the list of "who" are the public safety stakeholder's in each locality

Public Safety Stakeholder

Fire

Police

IT

9-1-1

Police

Planning

EMS

9-1-1
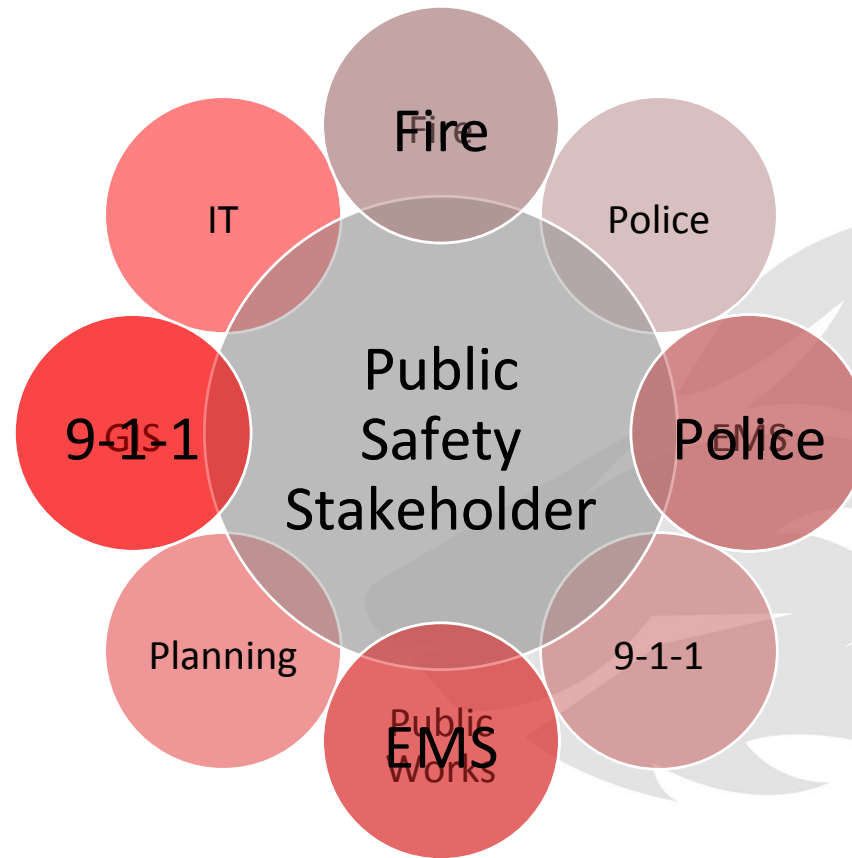
NG9-1-1 is the catalyst that requires current first responders to become data stewards

Public Safety Stakeholder

- Fire
- Police
- EMS
- 9-1-1
- Public Works
- Planning
- GIS
- IT

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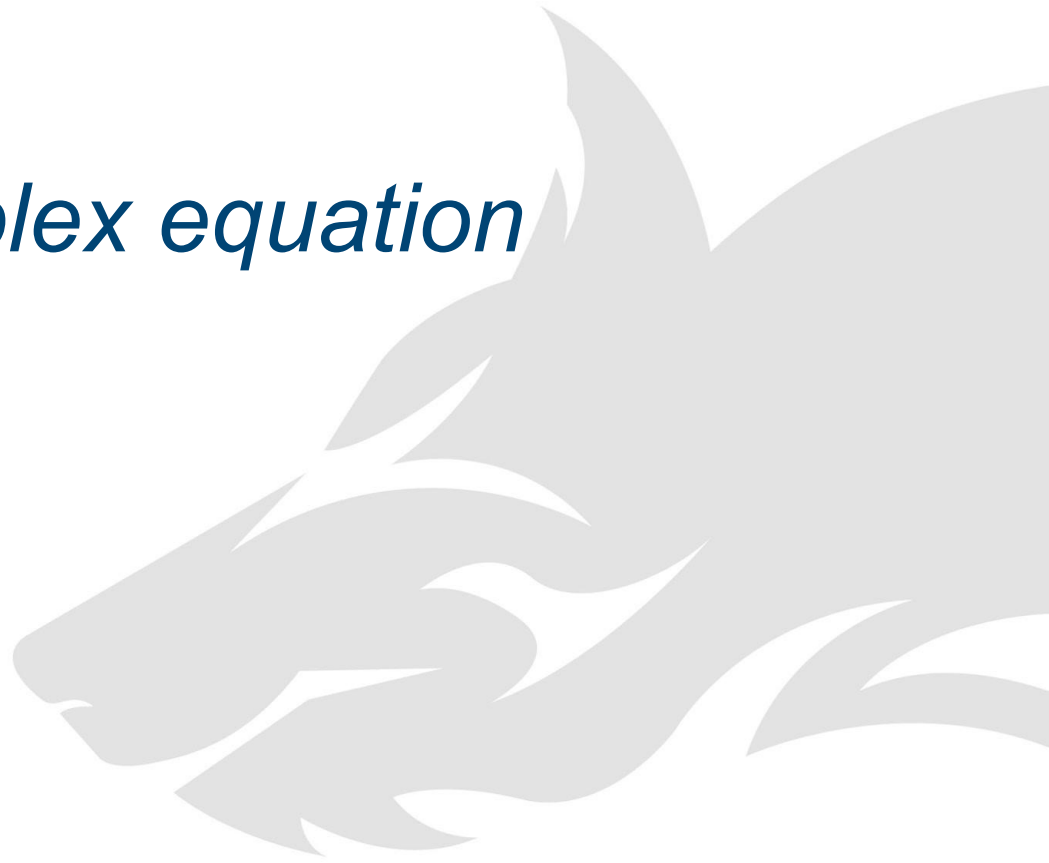"...the strength of the Pack is the Wolf, and the strength of the Wolf is the Pack..."

PSAP A

PSAP B
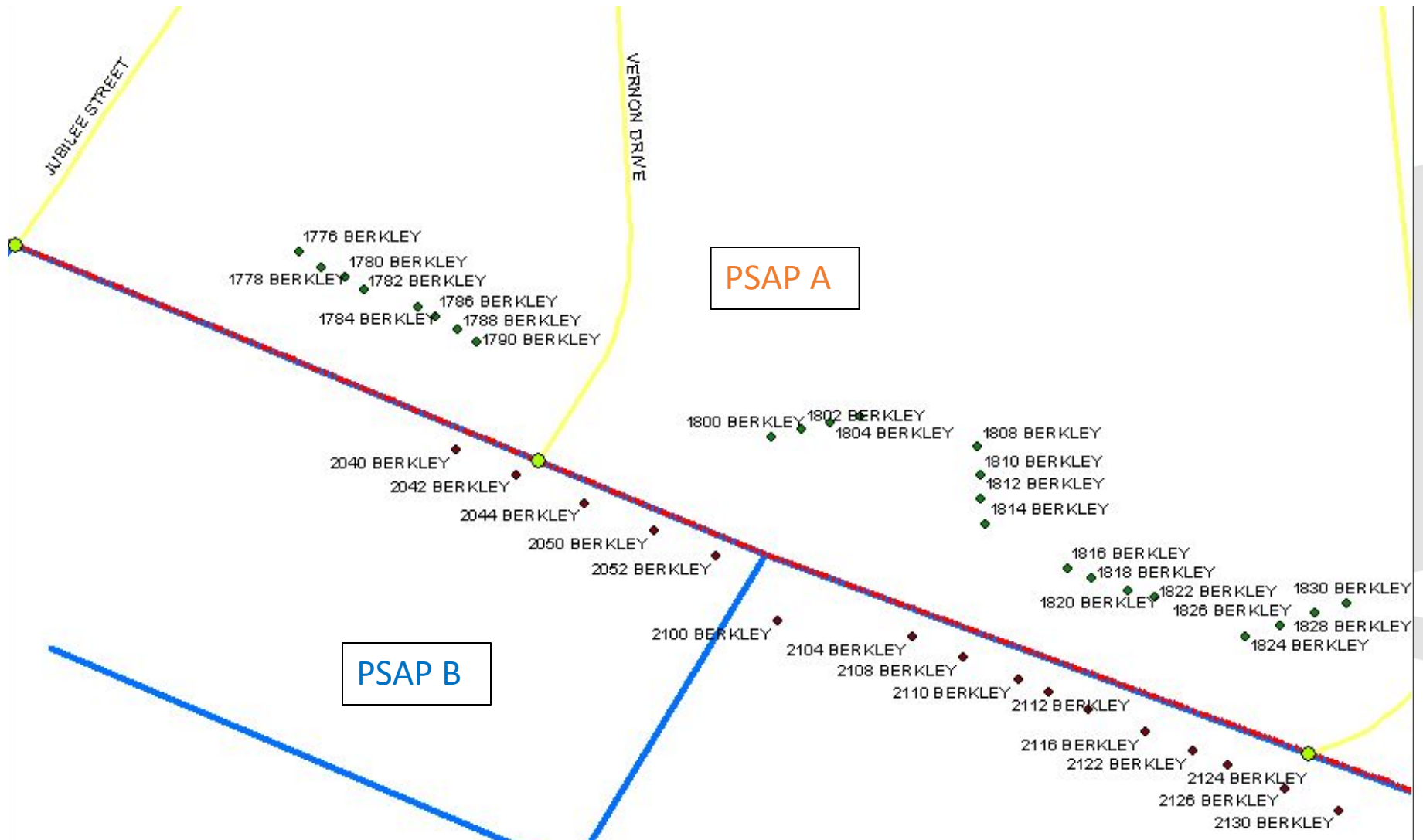
- The gaps

  - Understanding how the NGCS behave

  - GIS data for all 9-1-1 systems

  - Understanding the NG9-1-1 stakeholder catalyst "who's who" of public safety stakeholders and data stewards

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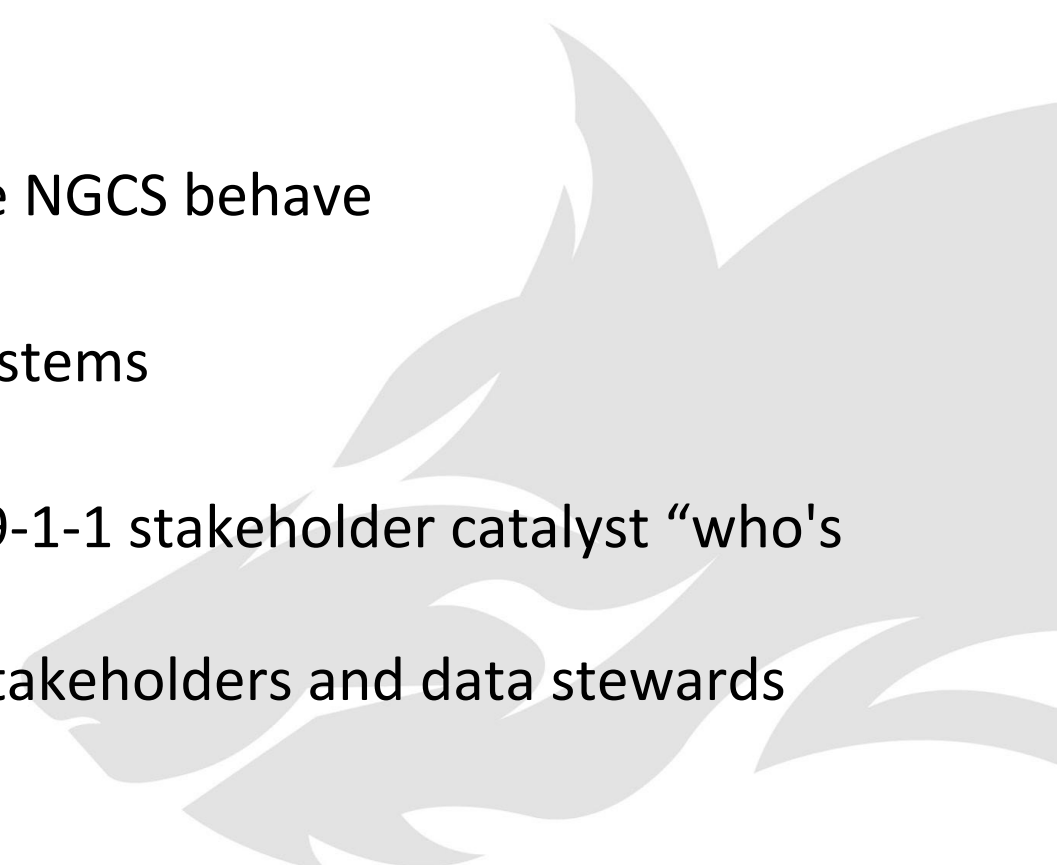
Solving the complex equation

DATAMARK
GIS for NG911

Strategic Planning	GIS Address Development	DataMark QC Checks	DataMark Solutions
• NG 9-1-1 Consulting and Systems Integration • NG9-1-1 Systems Design • Technology Assessment • Drafting a QA plan	• Existing workflow evaluation and support • Address database evaluation • Action Plan for optimization and sustainment	• Complete GIS address database analysis. • Address Schema evaluation/ optimization • Centerline Anomalies • Address Point Anomalies	• SaaS application for convenience • Modular thus configurable to specific client needs and budgets • Iterative validations allow you to "flag" and reduce anomalies • Editing environment

*"…the strength of the Pack is the Wolf, and the strength of the Wolf is the Pack…"*

How we are different?

Addressing Workflow
Through the depth of our GIS experience in working with state and local customers on building and maintaining data and solutions specifically for the addressing workflow, we can help guide each 9-1-1 authority as they begin responding to the anomalies in their data.
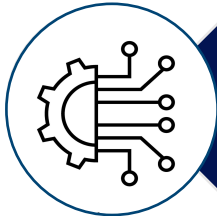
ECRF & LVF Agnostic
The solutions are purposefully configurable to be able to support any NGCS solution. We invite real-time collaboration with the selected vendor as there are spatial nuances that must be considered as part of the data aggregation and gap analysis.
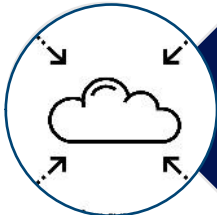
Data Aggregation
The DataMark solution coalesces the individual 9-1-1 authority datasets prior to provisioning through the SI. This allows for data quality checks on individual or statewide footprints of data which is critical as the ECRF and LVF "validate" data differently.
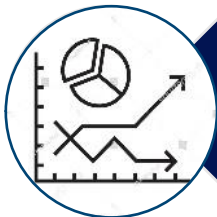
Data Analyitics and Audit trail
DataMark has the ability to record results of the data submissions over time in support of a full audit trail of data quality checks, allowing for tracking of data improvement over time.