



# SIF LITE

Presented by: John Joseph  
Western Regional Sales Consultant



# Introductions

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- John Joseph – Regional Account Manager
  - AZ, NV, CA, UT, HI, WA, OR, ID, MT, WY, AK
  - 16 years of GIS sales and services experience
  - Spent nearly 9 years with Esri
  - Supporting GeoComm clients since 2012
  - Committed to providing the highest quality of service
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# Why is the SIF so Important?

SIF Stands for “Spatial Information Function”

- ❑ In the future NG9-1-1 will rely on GIS data depicting not only the source of a call but the proper PSAP to route to based on GIS
- ❑ The SIF is an aggregation point for all the data being used in both the ECRF and LVF
- ❑ A SIF is the embodiment of Standards and acceptable best practices for managing GIS data
- ❑ The SIF is the gatekeeper ensuring data quality

# What is the SIF?

NENA Defines the SIF as:

A specialized form of Geographic Information System

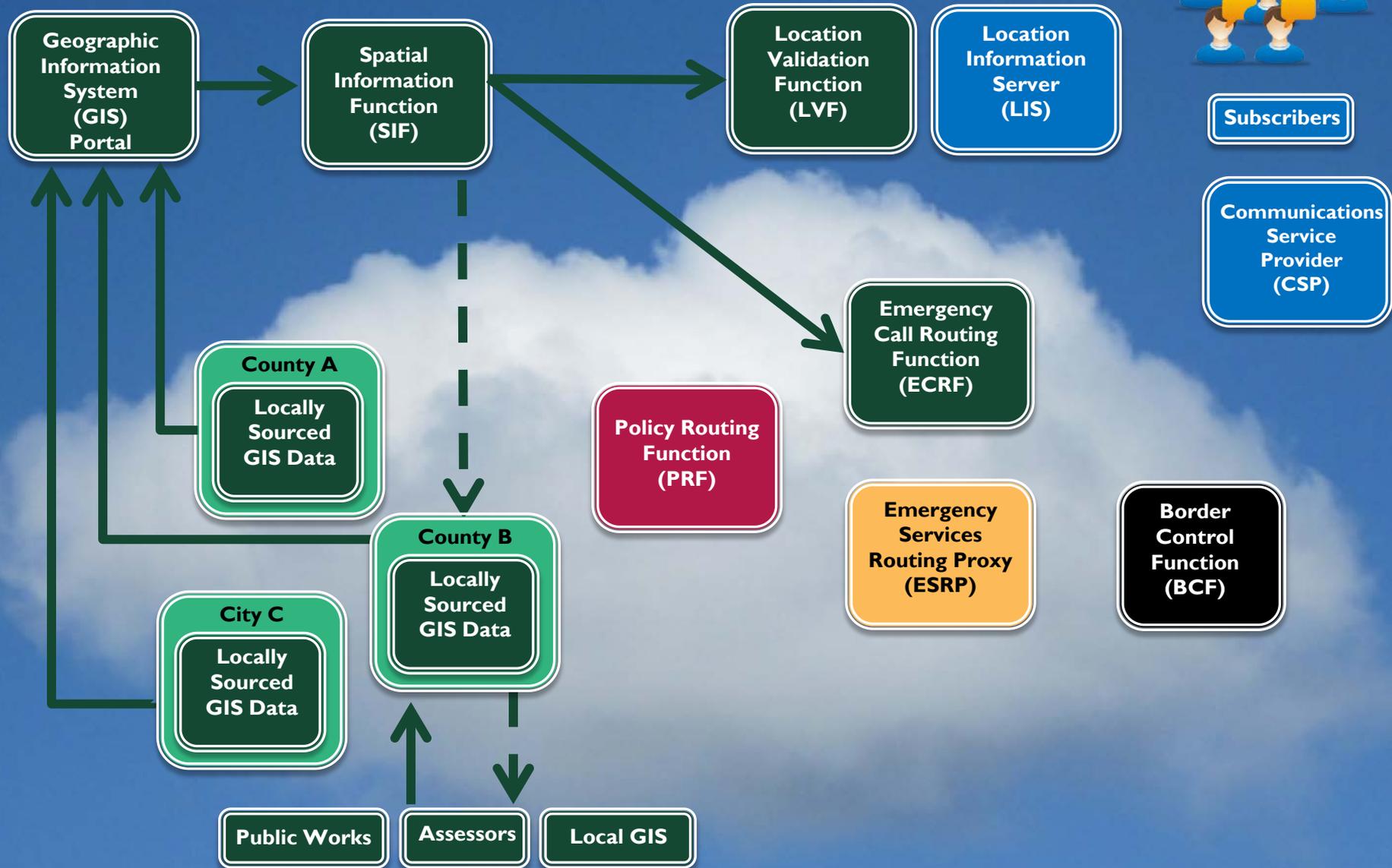
GIS is a System of  
hardware and software  
used for storage, retrieval,  
mapping, and analysis of  
Geographic data

# What is the SIF?

NENA Defines the SIF as:

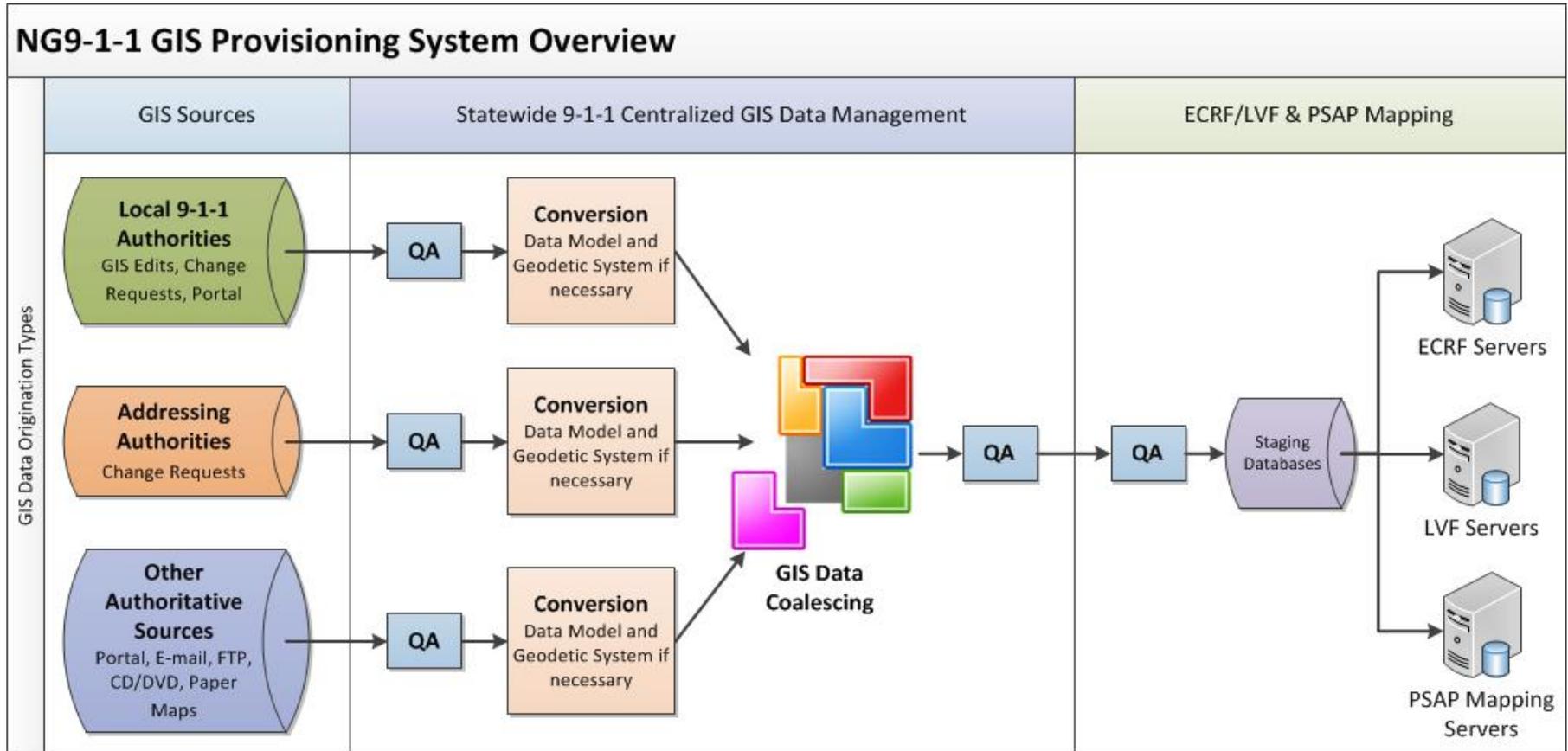
A specialized form of Geographic Information System

- ❑ Specifically the SIF is tasked with Provisioning Data to the function elements of NG9-1-1 based on i3
  - Portal for Uploading data, Esri geodatabase replication
  - Data normalization to common schema
  - QA/QC
  - Coalescing (“Quilting”)
  - Provisioning
  - Performance monitoring and feedback



# How the SIF serves NG9-1-1

# Look at the enormity of the GIS Challenge



# How do you deploy a SIF

## Multiple SIF Approach

- ❑ Rare
- ❑ Each PSAP provisions their data locally to a central ECRF/LVF
- ❑ Requires local GIS Professionals
- ❑ Standardized data must be loaded through a single common interface

## Single Shared SIF

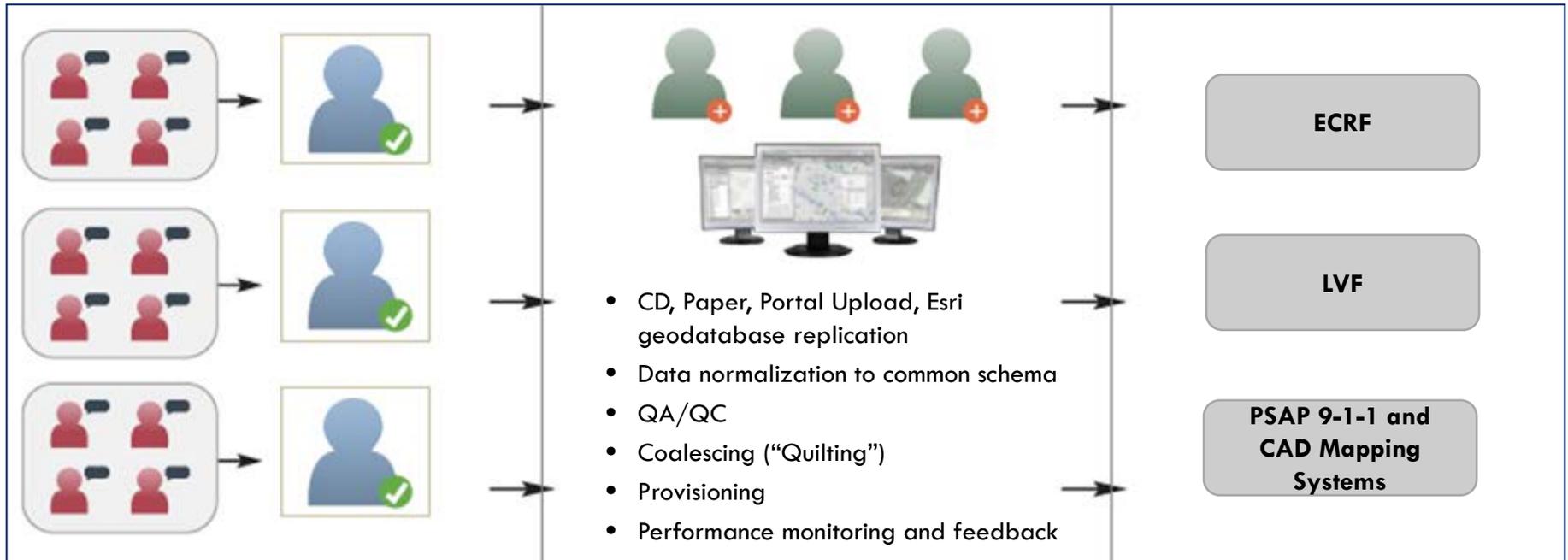
- ❑ Far more common
- ❑ PSAP authorities transfer GIS data to the State or Regional
- ❑ Data normalization process
- ❑ QA/QC, error process
- ❑ Requires a sophisticated level of GIS experience at the State level

# In-House vs. Managed Service

Local Authoritative Sources:  
Towns, Cities, Counties, etc.

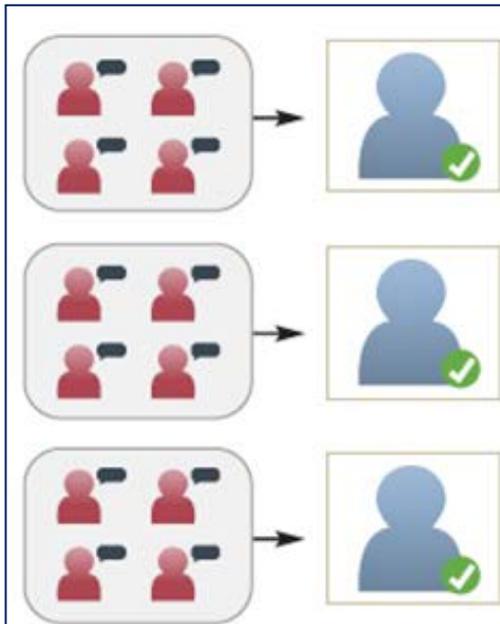
Locally supported NG9-1-1 Services  
for Provisioning GIS data into the  
ECRF/LVF

Provisioning to ECRF, LVF, and  
Existing PSAP Mapping Systems

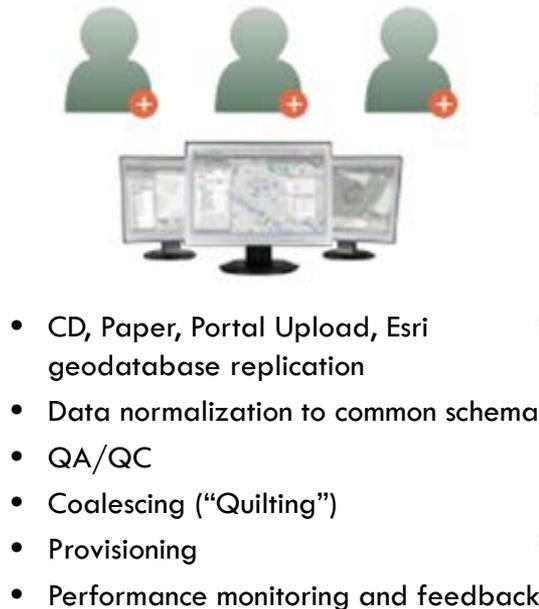


# In-House vs. Managed Service

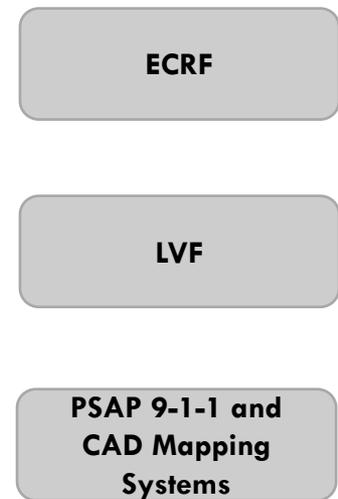
Local Authoritative Sources:  
Towns, Cities, Counties, etc.



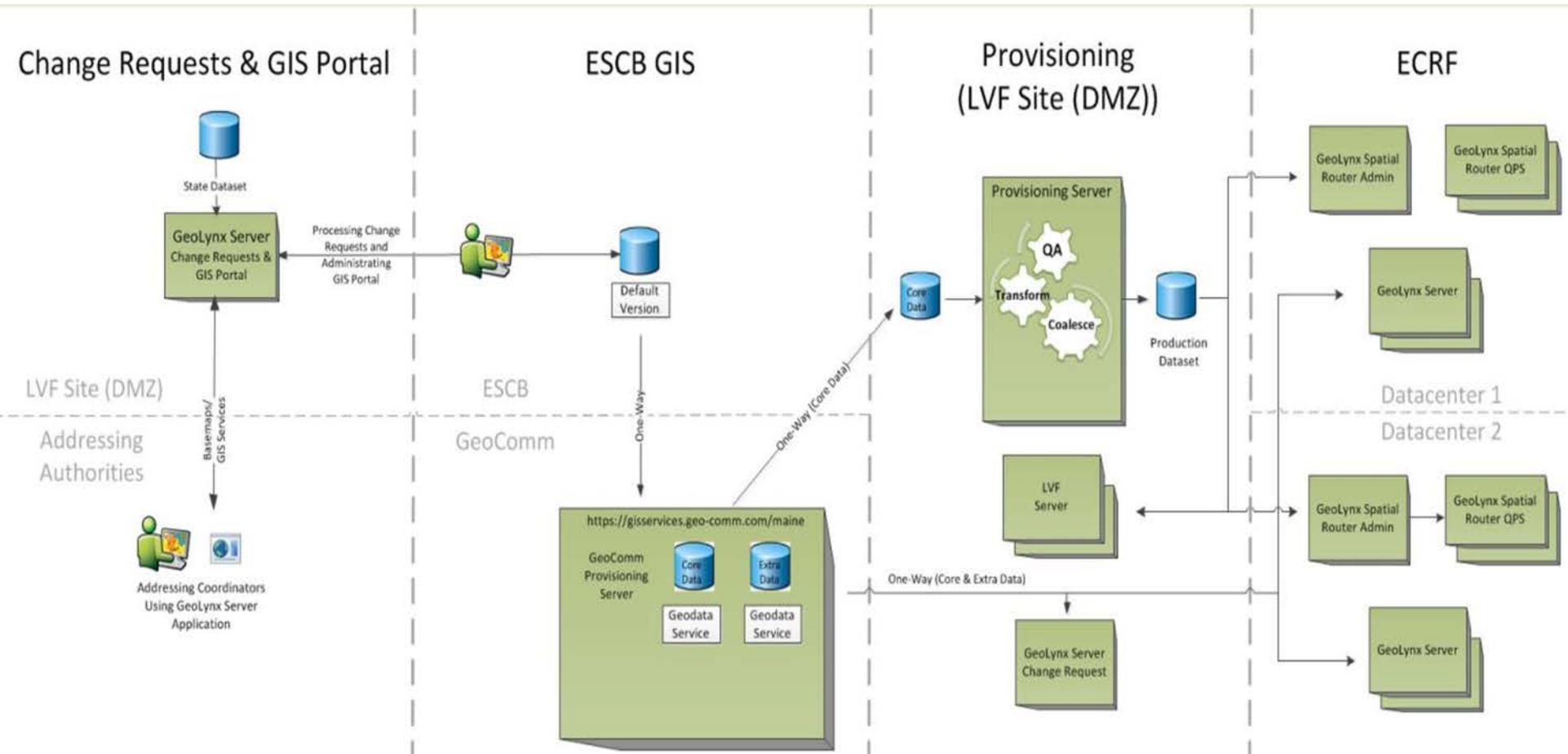
**NG9-1-1 GIS Managed Service:  
Regional or State Data Aggregation,  
Provisioning, and Monitoring**



Provisioning to ECRF, LVF, and  
Existing PSAP Mapping Systems



# What Does a SIF System Look Like

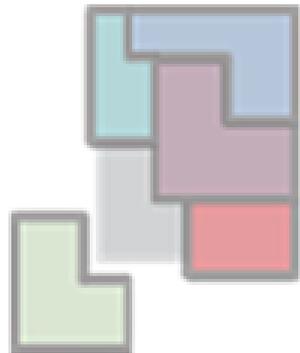


# Critical Considerations for the SIF

- Data Normalization
- Mission Critical Support 24x7x365
- The ability to leverage existing Enterprise GIS resources
- SIF Management is not a one time event, Design and Plan around the Daily transformation and clean-up of GIS data.
- Implement performance measures and feedback loops for error reporting, so data can be corrected in a timely fashion
- QA/QC protocols to ensure the highest quality of data
- The human factor, processes, workflows, roles and responsibilities
  - Do you have the GIS staff to tackle this issues in-house
  - Who will be responsible for provisioning an operational system

# Like to learn more about the SIF?

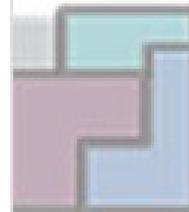
What You Need to Know about  
the Spatial Information Function



**Role of a SIF  
in NG9-1-1**

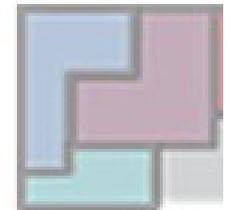


**Free Webinar: Understanding  
the Role of the SIF in NG9-1-1**



Thursday, September 25  
1:00 - 2:00 p.m. Central Time

**CLICK HERE TO SIGN UP  
FOR THE WEBINAR**





# QUESTIONS?

