

The Challenge of Creating Regional 911 Response Orders & Medevac First Dues

David J. Simms, GISP



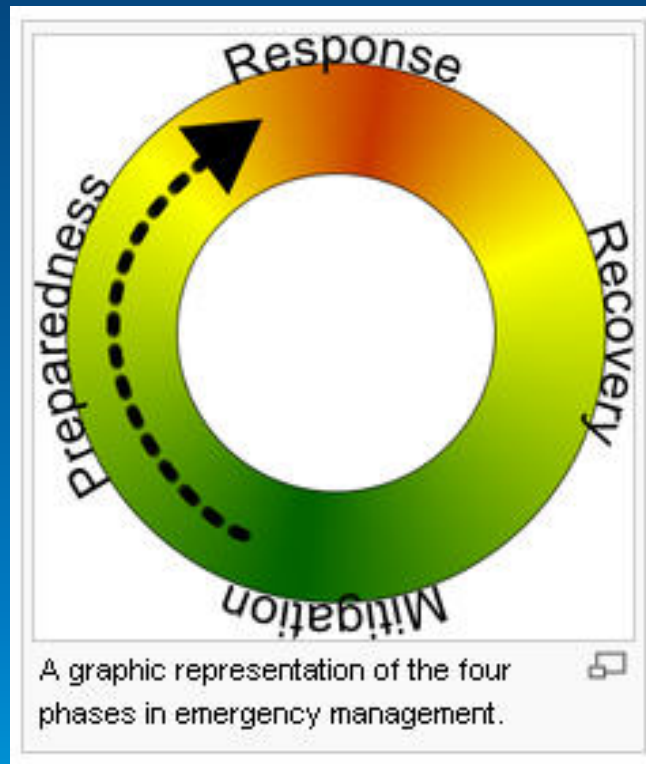
Emergency Management

Mitigation

Preparedness

Response

Recovery



**Always be prepared to
respond!**

Short Video “Fire Jump”

Emergencies & Disasters - No Boundary Restrictions!

**Regional Routable Centerline
(RRCL):**

Alexandria

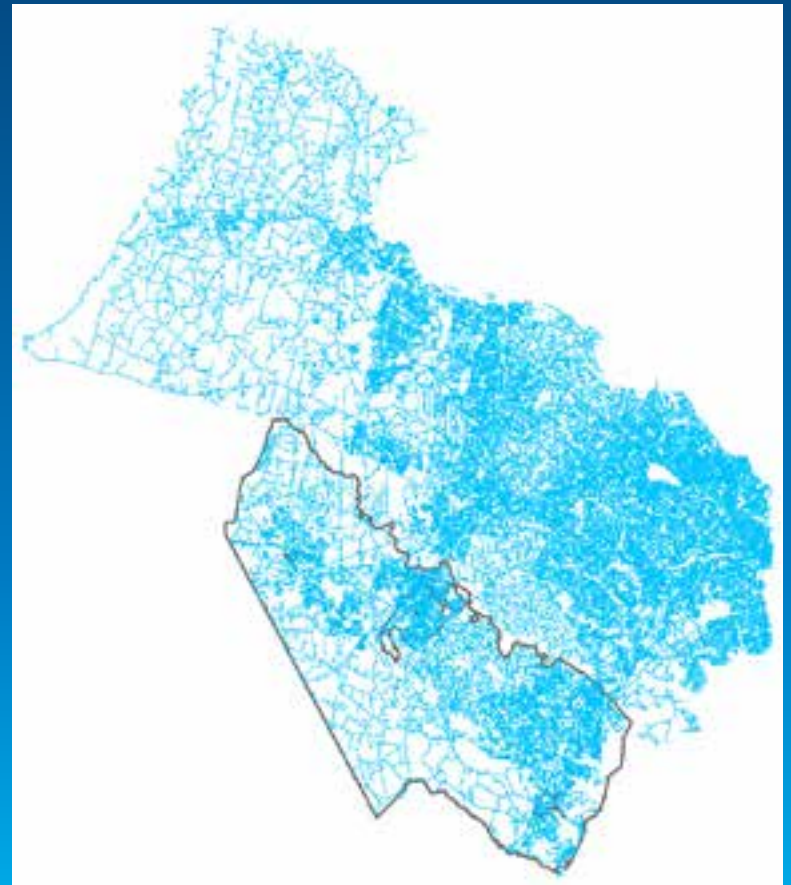
Arlington

Fairfax

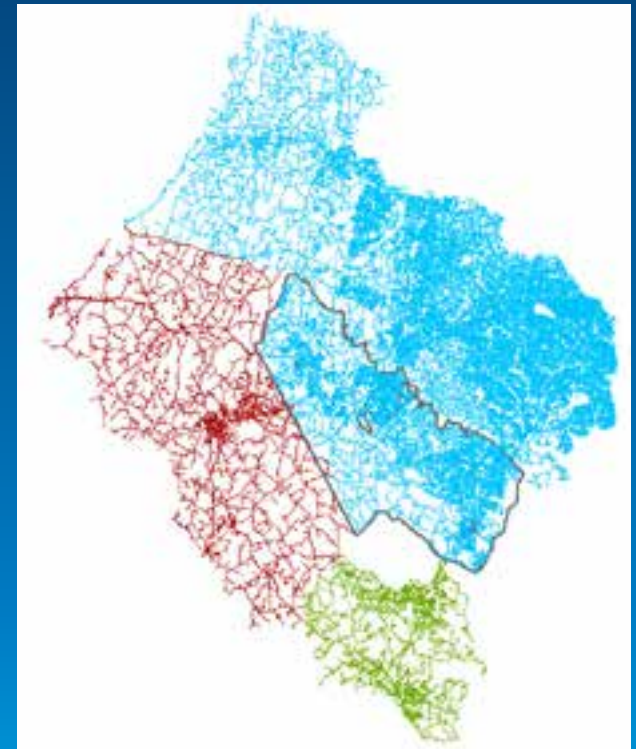
Loudoun

Prince William

**Aids in Multi-jurisdictional
Response & Support**



State of Virginia and Northern VA Region



Future Additions
Fauquier and Stafford Counties
(In Red and Green)

Project Highlights

Grant Funded

In Cooperation with State

Use of GIS Contractors

Some Data Standardization

Continued Maintenance of the RRCL

The Process

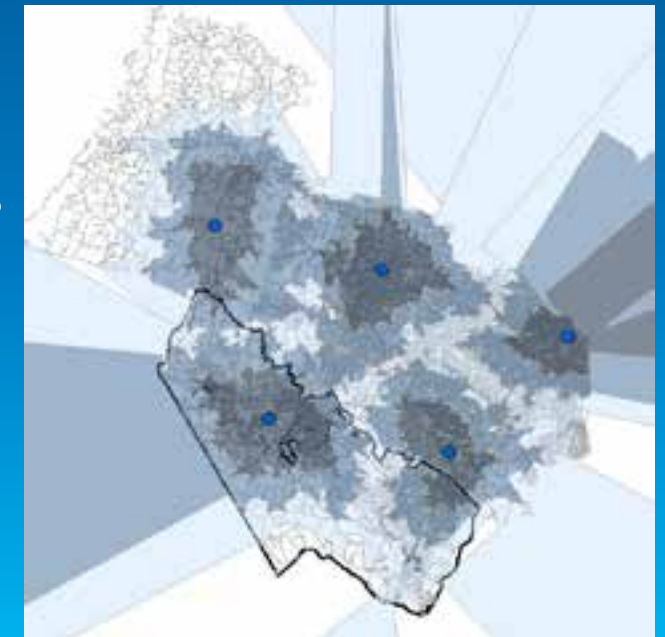
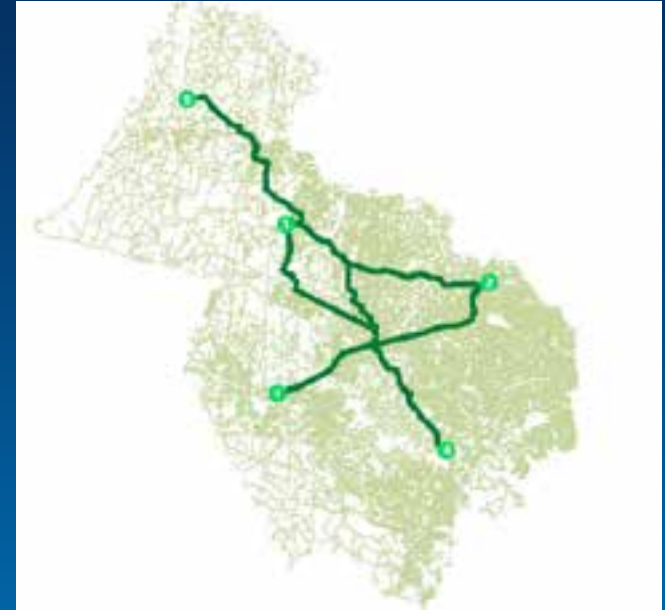
Identify Roles

Monthly Collaboration

Test & QC Data

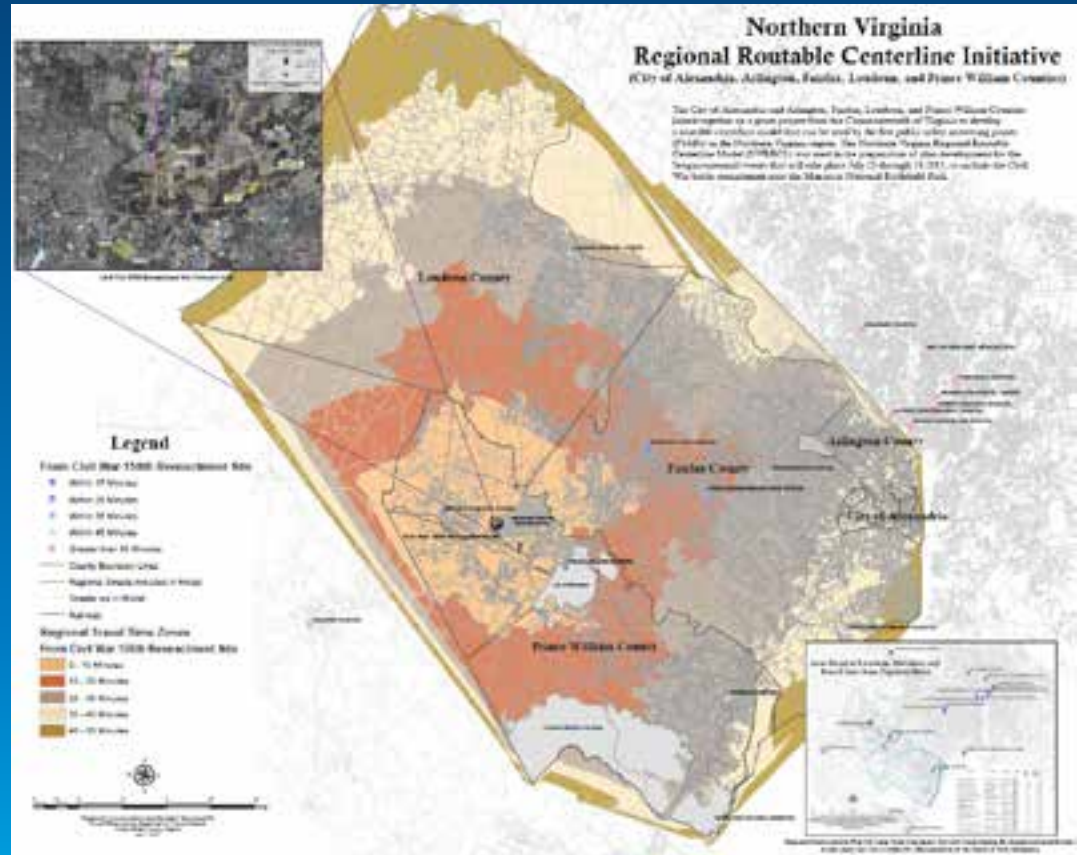
Upload data to the State

Receive Regional Monthly Updates



Results & Benefits

Data Consistency
Seamless Support
Improved Mapping &
Analysis



The Challenges

Dealing with CAD Limitations / Variations

- Error Reporting & Update Process
- Routing Issues
- Dual Centerlines

Effect of a New CAD Systems

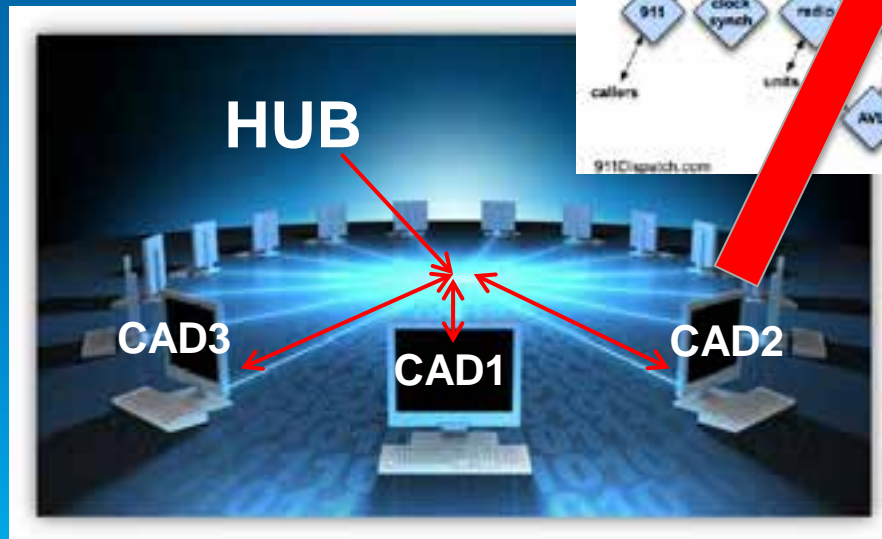
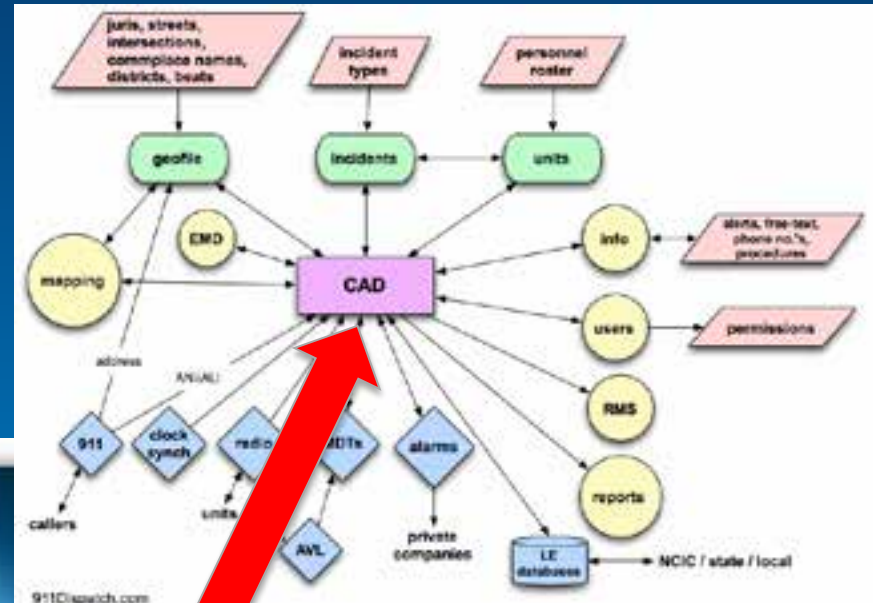
- Incompatibilities

Other Issues

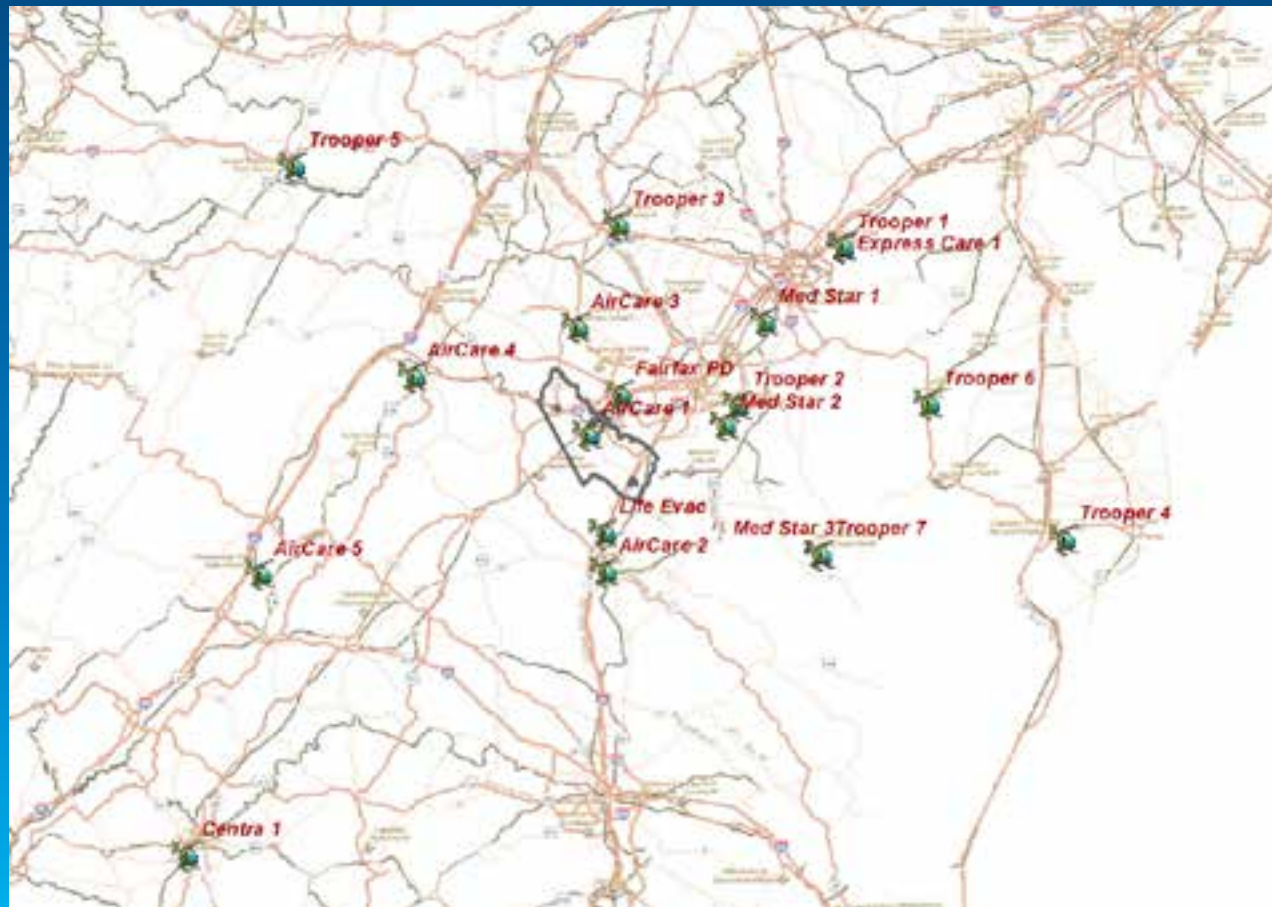
Future Challenges

CAD to CAD Functionality

- Regional
- State
- Federal



Establishing Medevac First Due Responses



Situation / Problem

Medevac Information Outdated

Increased Calls for Medevac Assistance

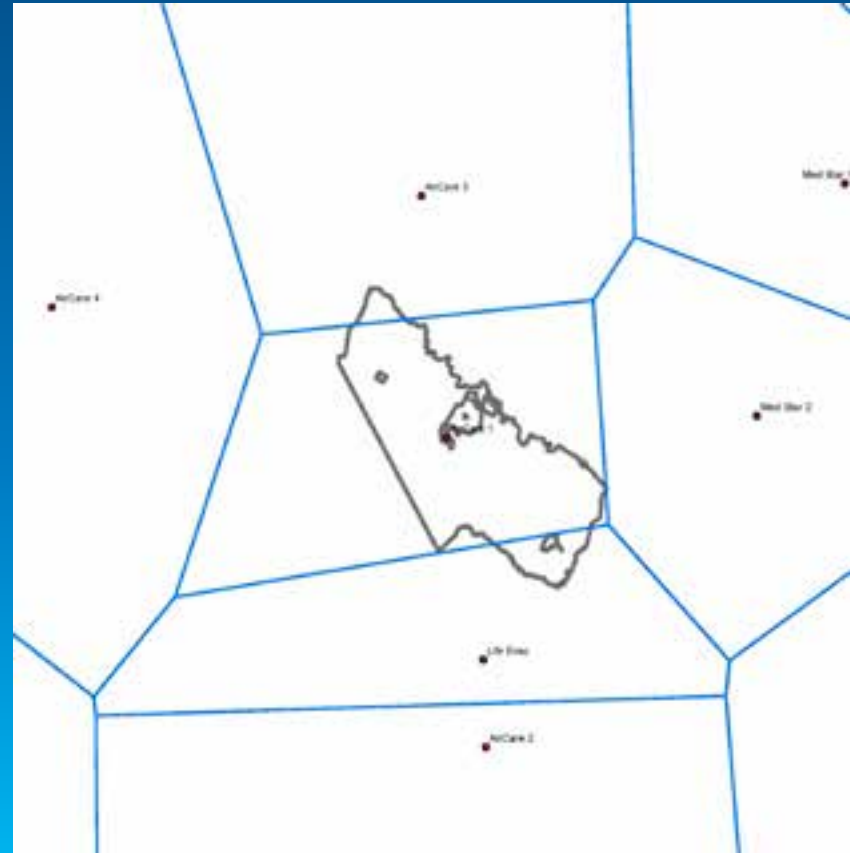
Wrong Medevac Units Called

Air Transport Untimely



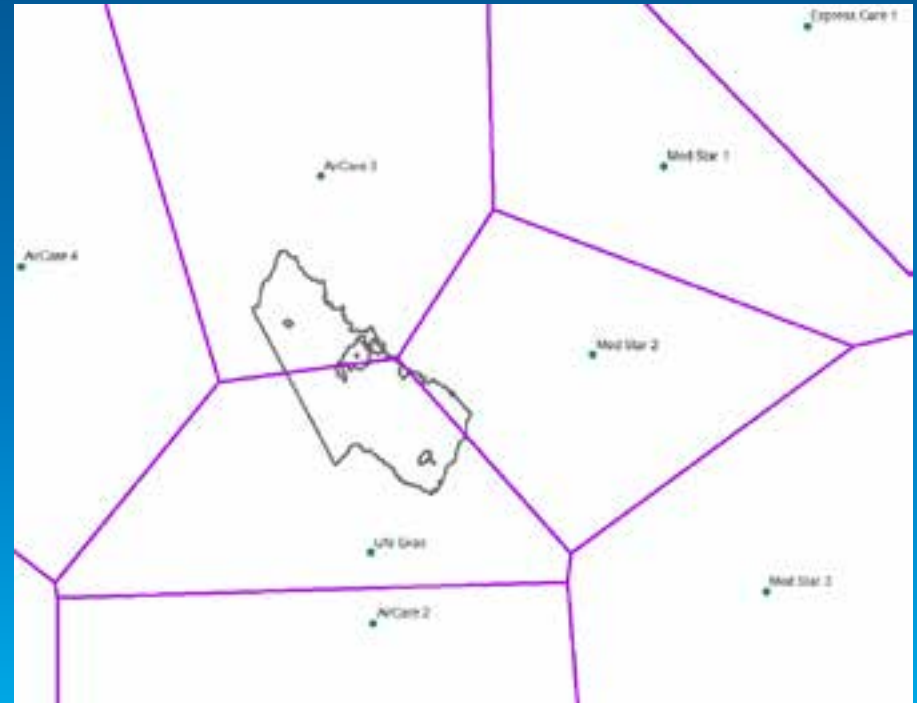
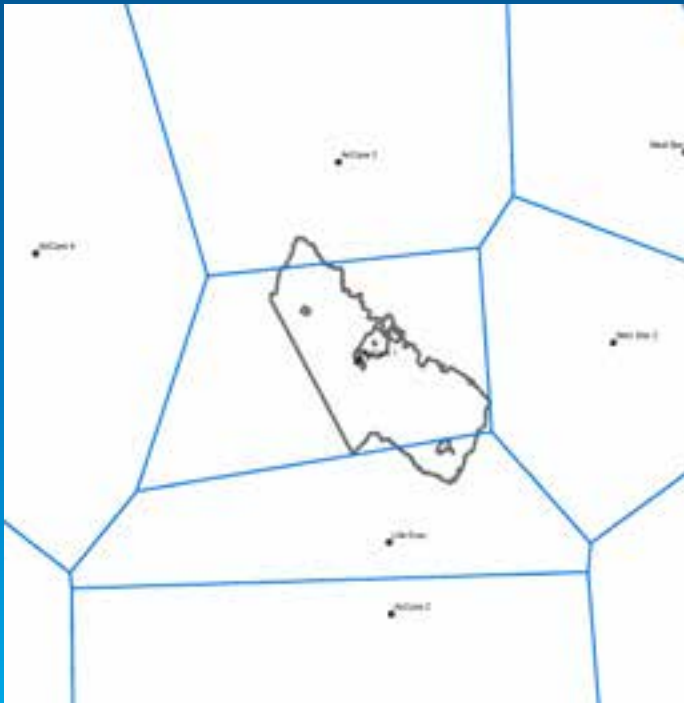
Solution: Thiessen Polygon Analysis

Model Straight Line Distances Between Medevac Sites



Solution: Thiessen Polygon Analysis

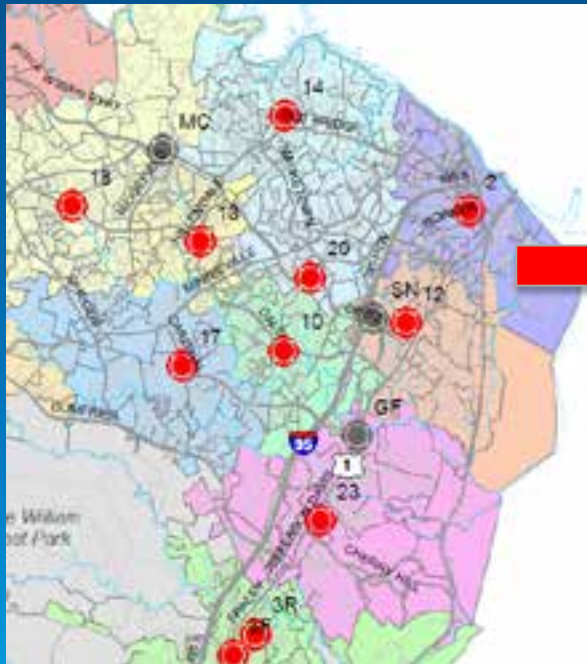
Process of Eliminating Medevac Units for Analysis



Results of The Process

Efficient Identification and Update of Medevac Units
Improved Medevac Response

Medevac Units Included in Response Order at
Box Level



	A	B	C	D	E	F	G	H	I	J
1	FIRSTDUE NAME		CAREERBAT	VOLBAT	FSOX	HYDRANT	AirMedic1st	AirMedic2nd	AirMedic3rd	AirMedic4th
2	2 Botts			1	6 0200	K	AirCare1	MedStar2	AirCare2	AirCare3
3	2 Botts			1	6 0201	K	AirCare1	MedStar2	AirCare2	AirCare3
4	2 Botts			1	6 0202	K	AirCare1	MedStar2	AirCare2	AirCare3
5	2 Botts			1	6 0203	K	AirCare1	MedStar2	AirCare2	AirCare3
6	2 Botts			1	6 0204	K	AirCare1	MedStar2	AirCare2	AirCare3
7	2 Botts			1	6 0204	K	AirCare1	MedStar2	AirCare2	AirCare3
8	2 Botts			1	6 0205	K	AirCare1	MedStar2	AirCare2	AirCare3
9	2 Botts			1	6 0206	K	AirCare1	MedStar2	AirCare2	AirCare3
10	2 Botts			1	6 0207	K	AirCare1	MedStar2	AirCare2	AirCare3
11	2 Botts			1	6 0208	K	AirCare1	MedStar2	AirCare2	AirCare3
12	2 Botts			1	6 0208	K	AirCare1	MedStar2	AirCare2	AirCare3
13	2 Botts			1	6 0209	K	AirCare1	MedStar2	AirCare2	AirCare3
14	2 Botts			1	6 0210	K	AirCare1	MedStar2	AirCare2	AirCare3
15	2 Botts			1	6 0211	K	AirCare1	MedStar2	AirCare2	AirCare3
16	3 Botts			1	6 0212	K	AirCare1	MedStar2	AirCare2	AirCare3
17	2 Botts			1	6 0213	K	AirCare1	MedStar2	AirCare2	AirCare3
18	2 Botts			1	6 0214	K	AirCare1	MedStar2	AirCare2	AirCare3
19	2 Botts			1	6 0215	K	AirCare1	MedStar2	AirCare2	AirCare3
20	2 Botts			1	6 0216	K	AirCare1	MedStar2	AirCare2	AirCare3
21	2 Botts			1	6 0217	K	AirCare1	MedStar2	AirCare2	AirCare3
22	2 Botts			1	6 0218	K	AirCare1	MedStar2	AirCare2	AirCare3
23	2 Botts			1	6 0219	K	AirCare1	MedStar2	AirCare2	AirCare3

Questions?

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David J. Simms, GISP
Department of Fire & Rescue
Prince William County, VA
dsimms@pwcgov.org
(703)792-7013

