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

David J. Simms, GISP
Emergency Management

Mitigation
Preparedness
Response
Recovery

A graphic representation of the four phases in emergency management.
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
Future Challenges

Managing a Regional System in Disaster Event

Next Gen 911
Establishing Medevac First Due 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- Medevac Information Outdated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
Questions?

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