



Planning for FirstNet in Maryland

Maryland Broadband Team
Regional Coordinators





VISION

**Provide emergency responders with the first nationwide,
high-speed, wireless broadband network
dedicated to public safety**

HISTORY & THE ACT

Title VI of the *Middle Class Tax Relief and Job Creation Act of 2012*

Spectrum

- Allocated the “D-Block” to public safety
- Added 20MHz (10x10 MHz) to existing Public Safety Frequencies

Governance

- FirstNet Board

Funding

- \$7B for deployment and operations
- \$135M for state implementation planning



Not So Long Ago...



Transmitting
Vital Data Used
to Be
Complicated...

St. Peter's Square: The Vatican



Only 9 Years Ago It Was Still Uncommon...

Look a Flip Phone!

St. Peter's Square: The Vatican



Now, Data and Devices are EVERYWHERE!



Except here...

WHY??

**Commercial
networks crash
when too many
users access
the network**



***Workers Evacuated in Washington, DC During Earthquake, Aug. 23, 2011**

WHY??

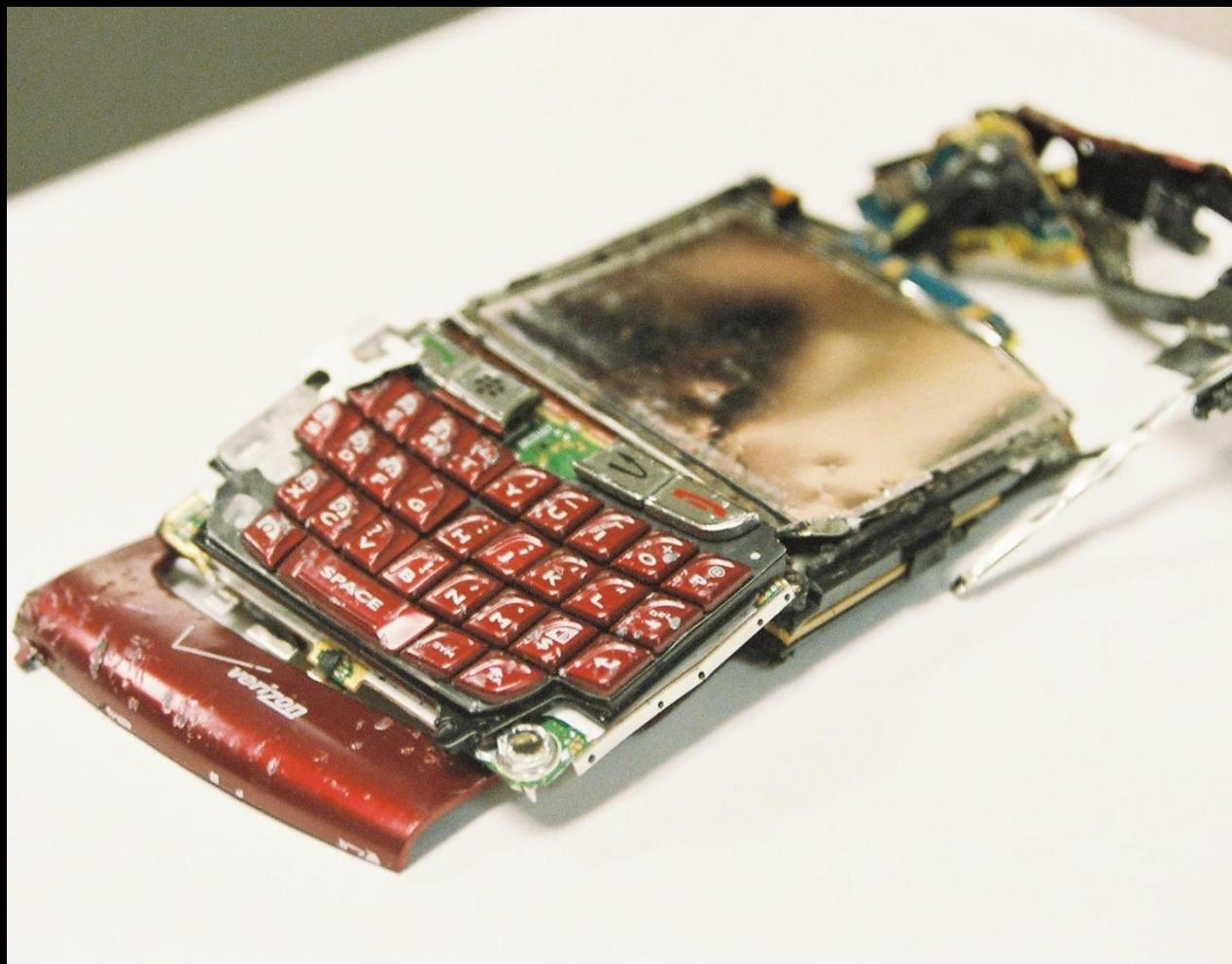


**Commercial networks
fail in severe weather
like Katrina and Sandy**

*Self-Supporting Tower Blown Down in High Wind

WHY??

**Devices Don't
Stand-Up to First
Responder Use**



Now...

Delta 984 sir, go.

Get help up from the medical tent. Get as many people up here as you can from the medical tent.

Alright.

Delta 984. Send more to the corner of Green (unintelligible) and Huntington... (unintelligible)...We're gonna need more ambulance here....

We need more ambulances....

They're goin'.

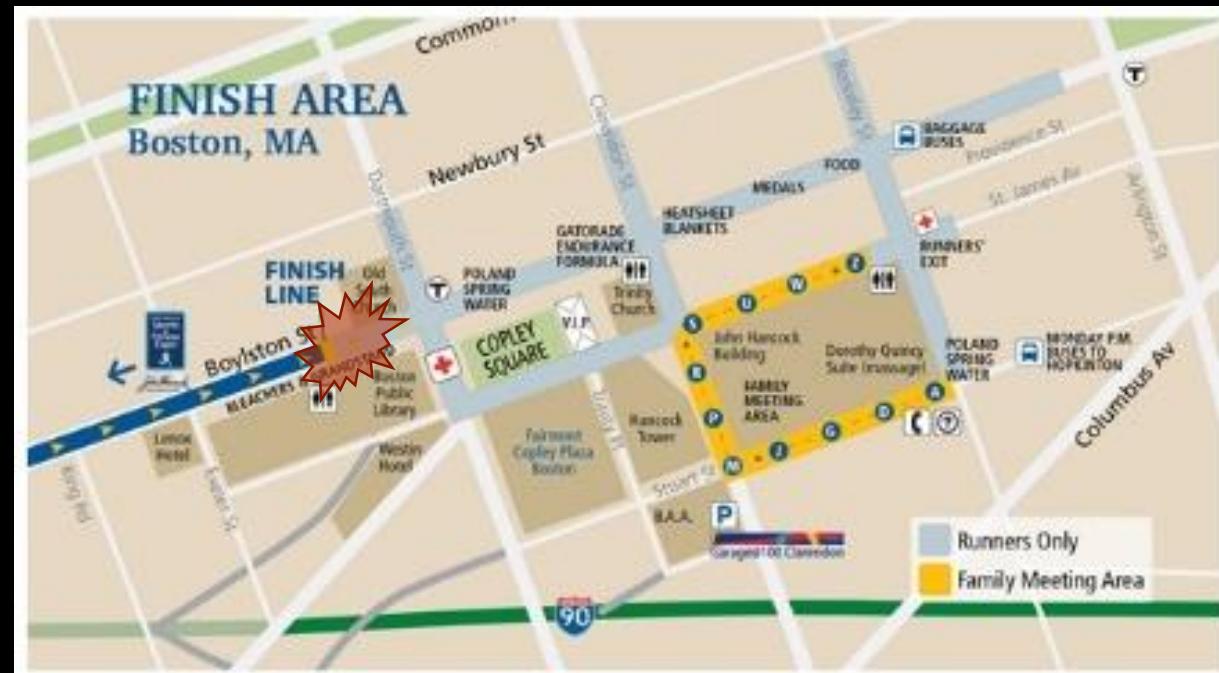
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Boston Regional Intelligence Center

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BRIC.bpd@cityofboston.gov | Phone: 617-343-4328 | Fax: 617-343-5222



Officer Awareness: Urgent Advisory

Officer Safety & Awareness

Possible Armed and Dangerous Suspect

April 19th, 2013



Dzhokhar A. TSARNAEV

DOB: 7/22/1993

LKA: 410 Norfolk St. Apt #3, Cambridge, MA

Information Update: the above suspect in hood, a suspect in the Boston Marathon Bombing, has been identified by the FBI as the individual in the photo on the right, Dzhokhar TSARNAEV (DOB: 7/22/93).

APPROACH WITH CAUTION. SUSPECT MAY BE ARMED AND DANGEROUS.

Anyone with information regarding the above individual is advised to please contact 1-800-494-TIPS or the BRIC at 617-343-4328 / BRIC.bpd@cityofboston.gov

Page 1 of 1

The attached information is produced by the Boston Regional Intelligence Center (BRIC) and contains sensitive material concerning law enforcement activity within the metropolitan Homeland Security region. Any dissemination of the attached information that is not authorized by the BRIC is strictly prohibited and may constitute a violation of Massachusetts General Laws, c. 268A, § 23 and c. 6, § 172 (the CORI statute), as well as Rule 102, §§ 3, 4, 8 and 35 of the Boston Police Department Rules and Procedures. Any individual, agency or organization, public or private, that receives or obtains this information without specific authorization from the BRIC, shall not collect, store, disseminate, or use such information in any manner or for any purpose. Unlawful dissemination of this information may adversely impact ongoing investigations, disclose protected witness identities, and thereby compromise law enforcement officers' safety and the safety and welfare of the public.



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Boston Regional Intelligence Center
Boston Regional Intelligence Center (BRIC) is a joint venture between the Boston Police Department (BPD) and the Boston Fire Department (BFD). The BRIC is responsible for the collection, analysis, and dissemination of intelligence information to support law enforcement and emergency response operations in the City of Boston.

Officer Safety & Awareness
Possible Armed and Dangerous Suspect
April 19, 2013

Dzhokhar A. TSARNAEV
DOB: 7/22/1993
IKA: 410 Norfolk St. Apt #1, Cambridge, MA

Information Update: the above suspect is in Boston, a suspect in the Boston Marathon bombing. The suspect is described as a young man with dark hair, wearing a dark baseball cap, a dark zip-up hoodie, and dark pants. He is shown in the photo on the right, Dzhokhar TSARNAEV (DOB 7/22/93).

APPROACH WITH CAUTION. SUSPECT MAY BE ARMED AND DANGEROUS.

Anyone with information regarding the above individual is advised to please contact 7-200-4944. TIPS to the BRIC at 617-343-4328 / BRICApp@cityofboston.gov

Now...

It's out West Fire, The uh West Fertilizer is uh... one of their mills is on fire...there's uh heavy smoke coming out of the top of it.

Stand by, was just about to do that.

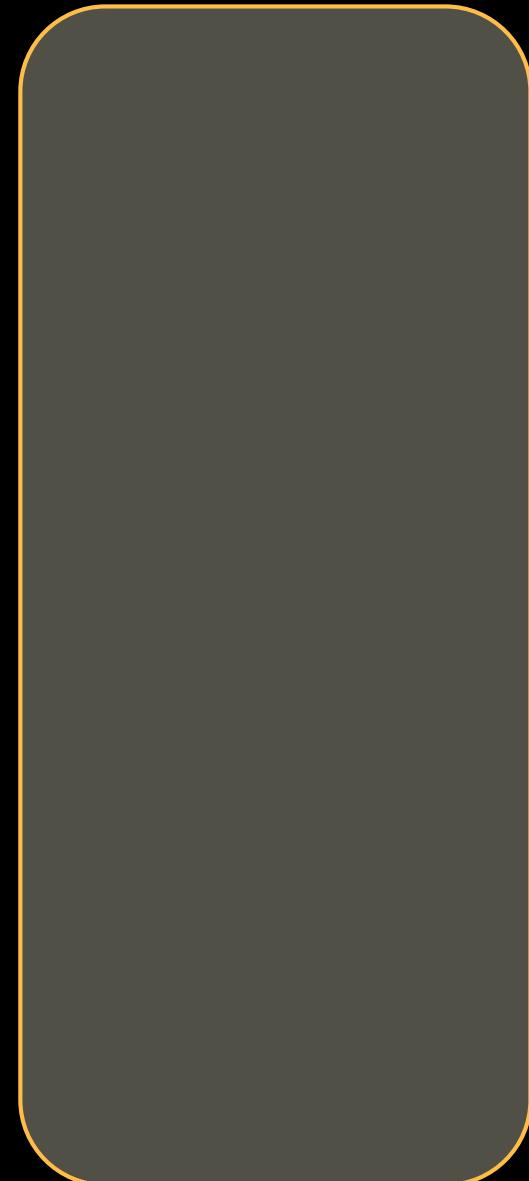
<Volunteer Fire Tone Goes Out>

...61, fire. 61, fire. We need you to respond to the West Fertilizer Plant. They have uh...fire out there again. West fire (unintelligible)...West Fertilizer Plant.

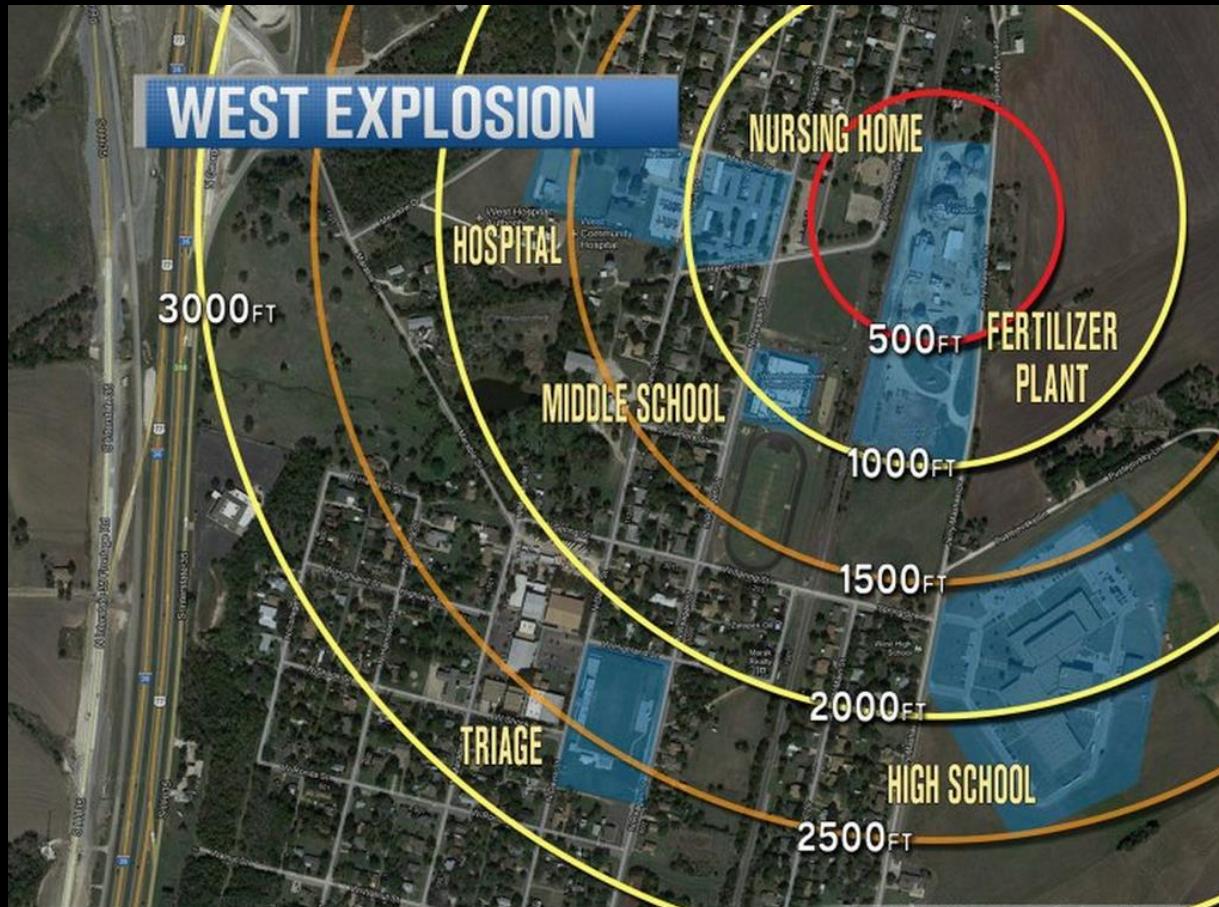
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Material Safety Data Sheet Ammonium nitrate MSDS



Health	2
Fire	1
Reactivity	1
Personal Protection	E

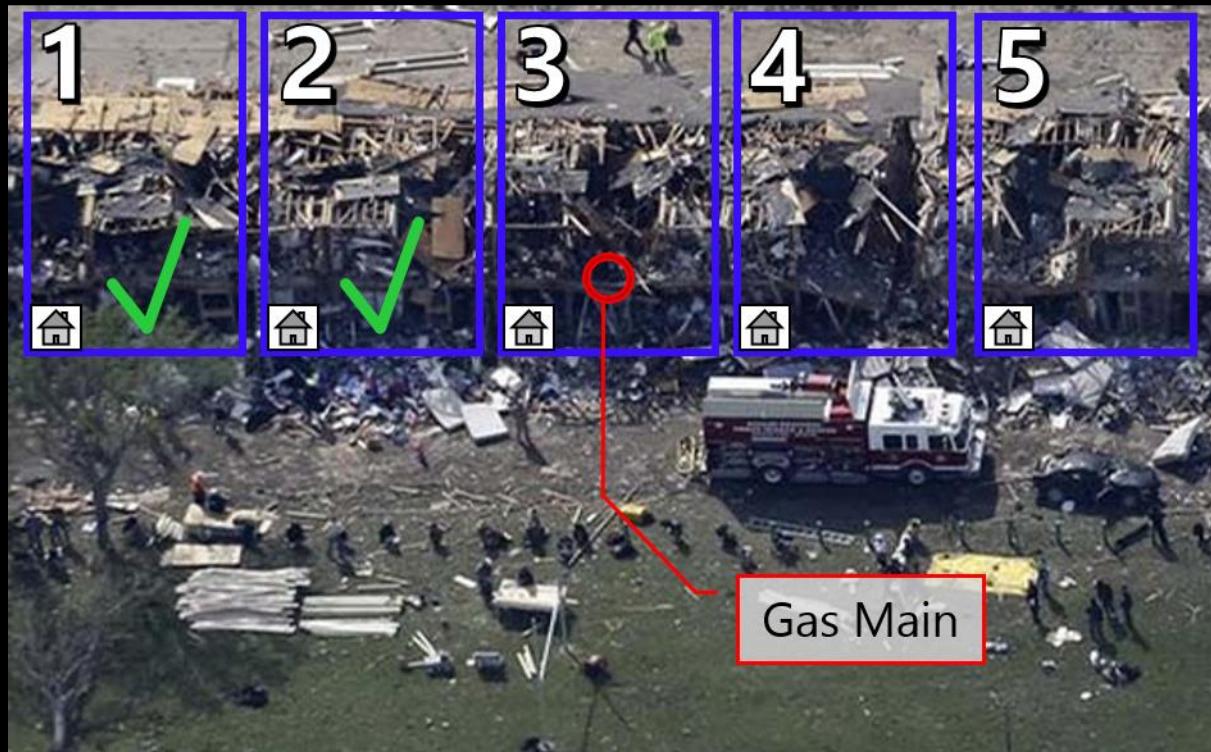
Section 1: Chemical Product and Company Identification	
Product Name: Ammonium nitrate	Contact Information:
Catalog Codes: SLA3082, SLA4585	Scienclab.com, Inc. 14025 Smith Rd. Houston, Texas 77396
CAS#: 6484-52-2	US Sales: 1-800-901-7247 International Sales: 1-281-441-4400 Order Online: ScienceLab.com
RTECS: BR9050000	CHEMTRAC (24HR Emergency Telephone), call: 1-800-424-9300
TSCA: TSCA 8(b) inventory: Ammonium nitrate	International CHEMTRAC, call: 1-703-527-3887
CI#: Not available.	For non-emergency assistance, call: 1-281-441-4400
Synonym: Ammonium Saltpeter; Nitric acid, ammonium salt	
Chemical Name: Ammonium Nitrate	
Chemical Formula: NH4NO3	

Section 2: Composition and Information on Ingredients		
Composition:		
Name	CAS #	% by Weight
Ammonium nitrate	6484-52-2	100
Toxicological Data on Ingredients: Ammonium nitrate: ORAL (LD50): Acute: 2217 mg/kg [Rat].		

Section 3: Hazards Identification		
Potential Acute Health Effects: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation (lung irritant). Slightly hazardous in case of skin contact (permeator). Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause respiratory irritation.		
Potential Chronic Health Effects: CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, mucous membranes. The substance may be toxic to blood, gastrointestinal tract. Repeated or prolonged exposure to the substance can produce target organs damage.		



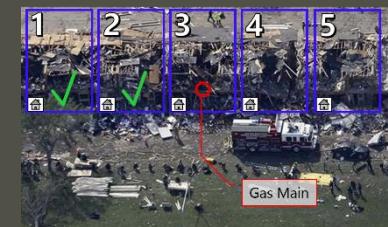
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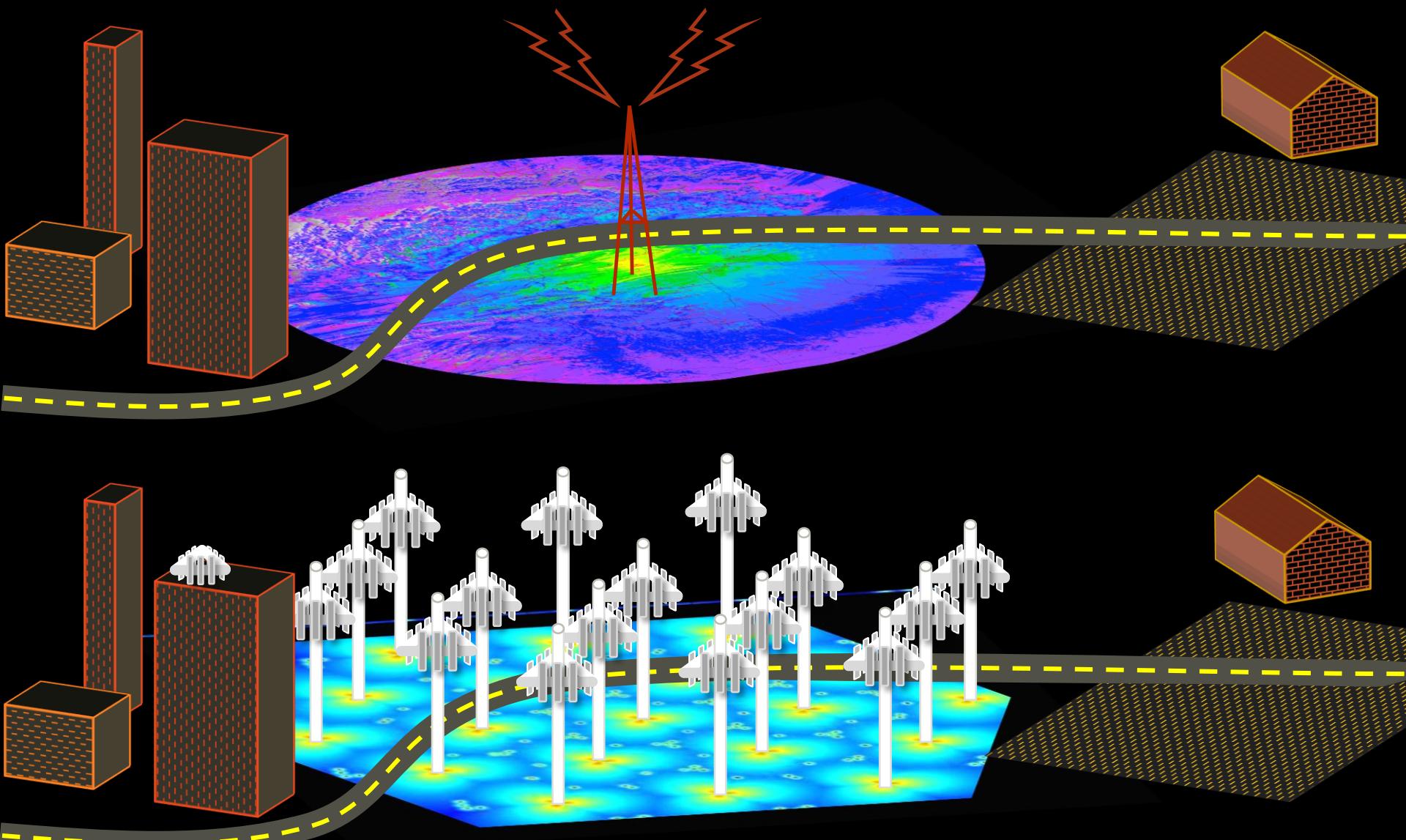
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© Scott Dorsett/Waxahachie Daily Light

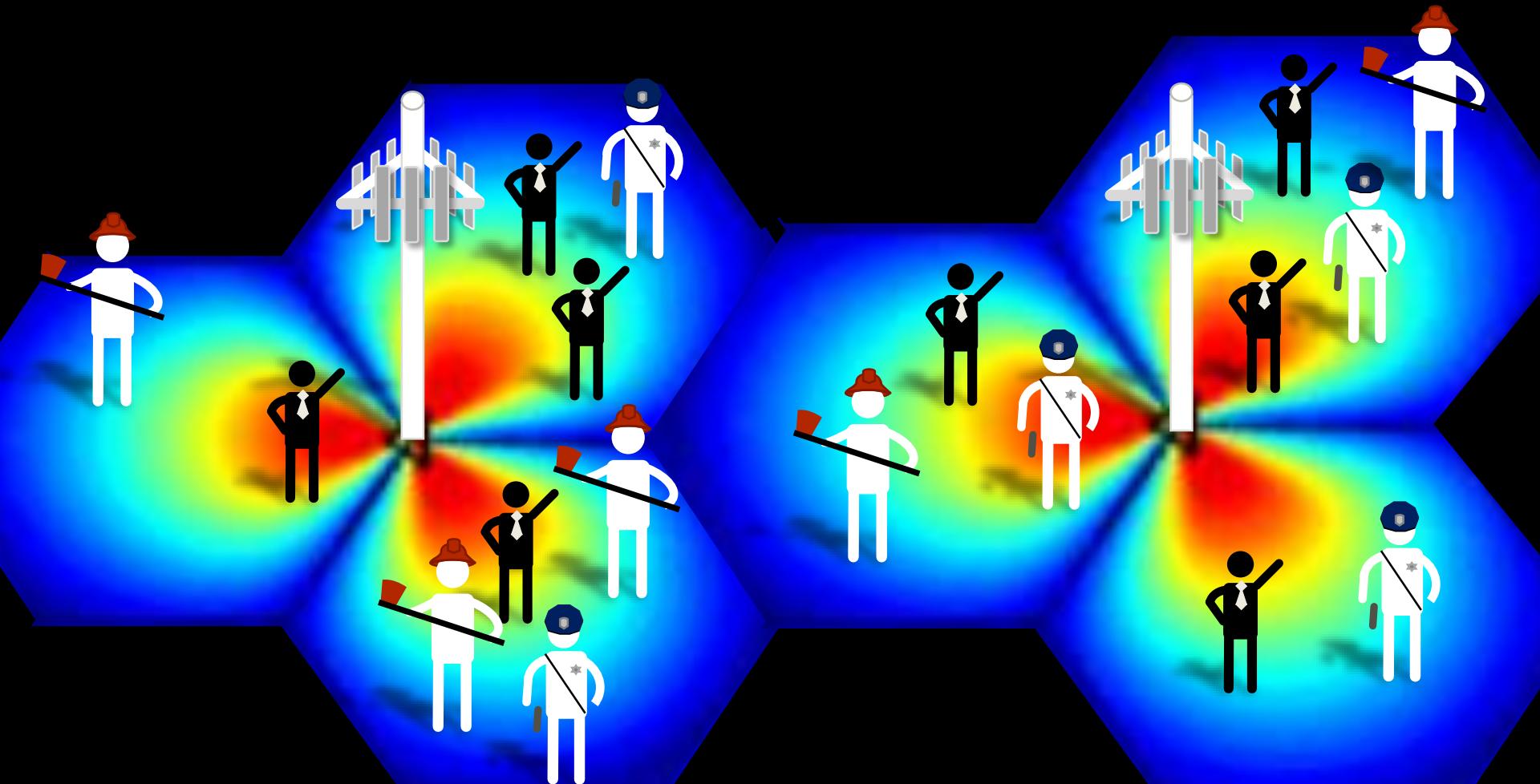


LTE ≠ LMR



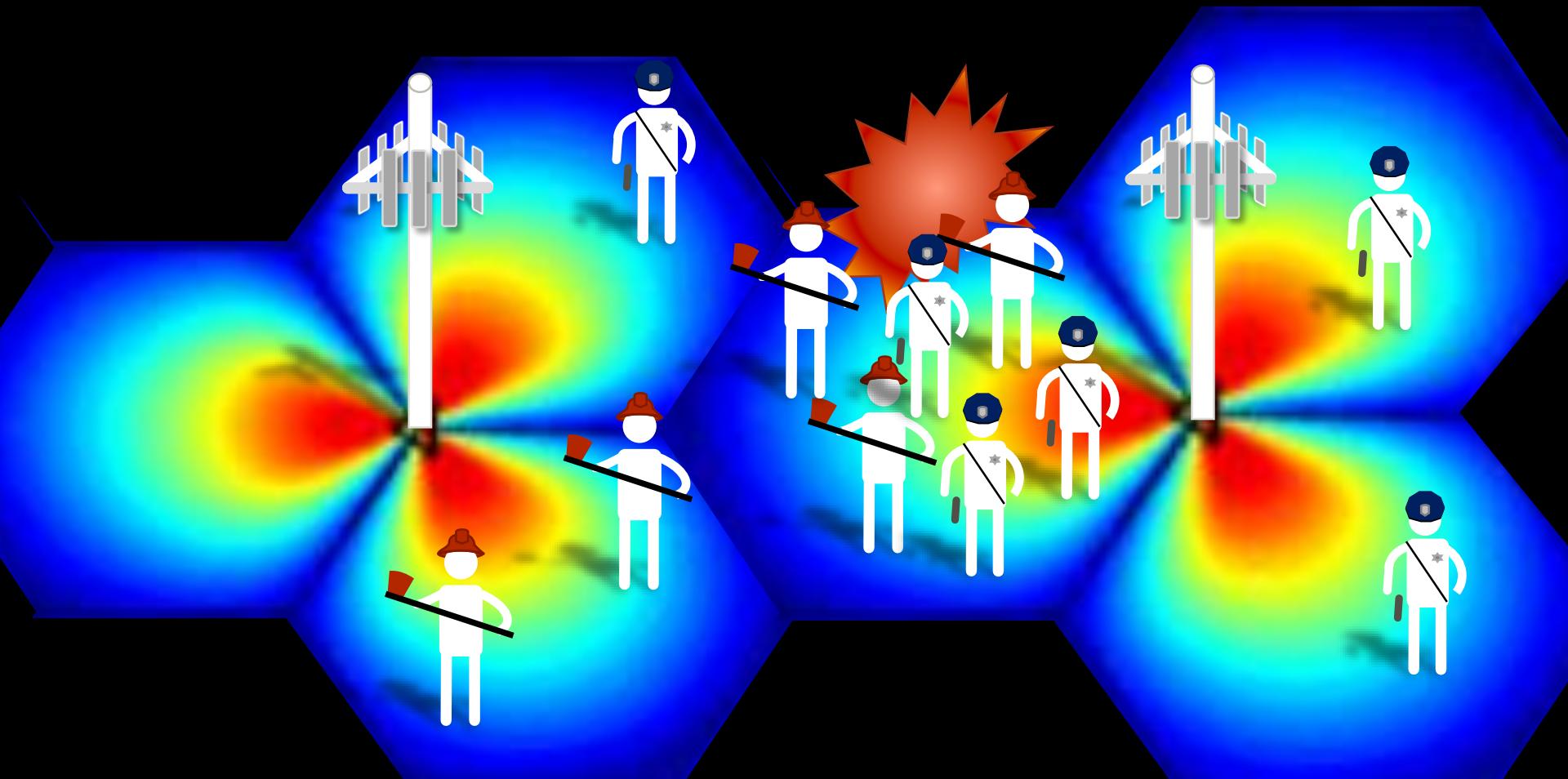
LTE Network

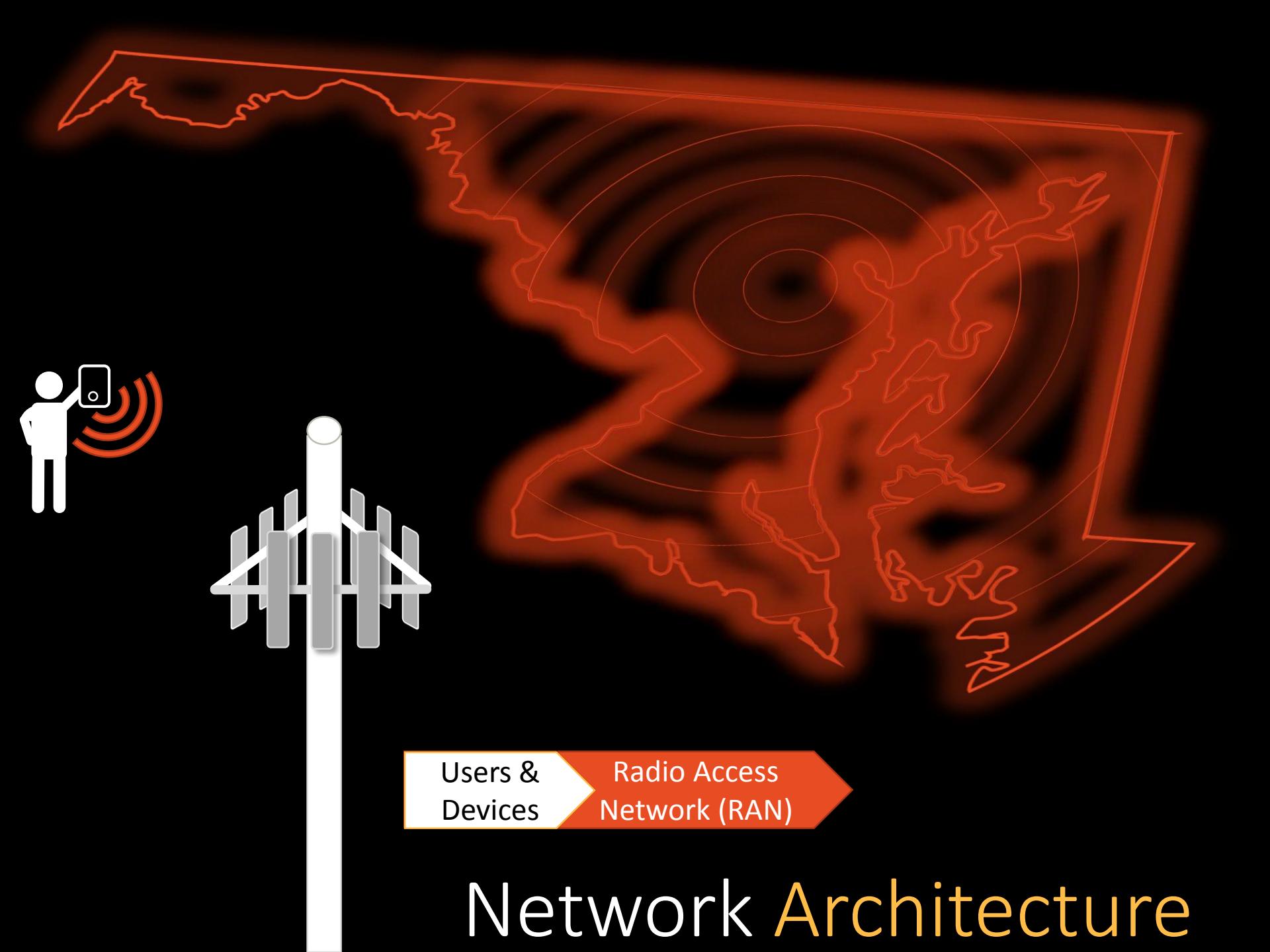
Preemption...



LTE Network

Ruthless!!
Preemption...

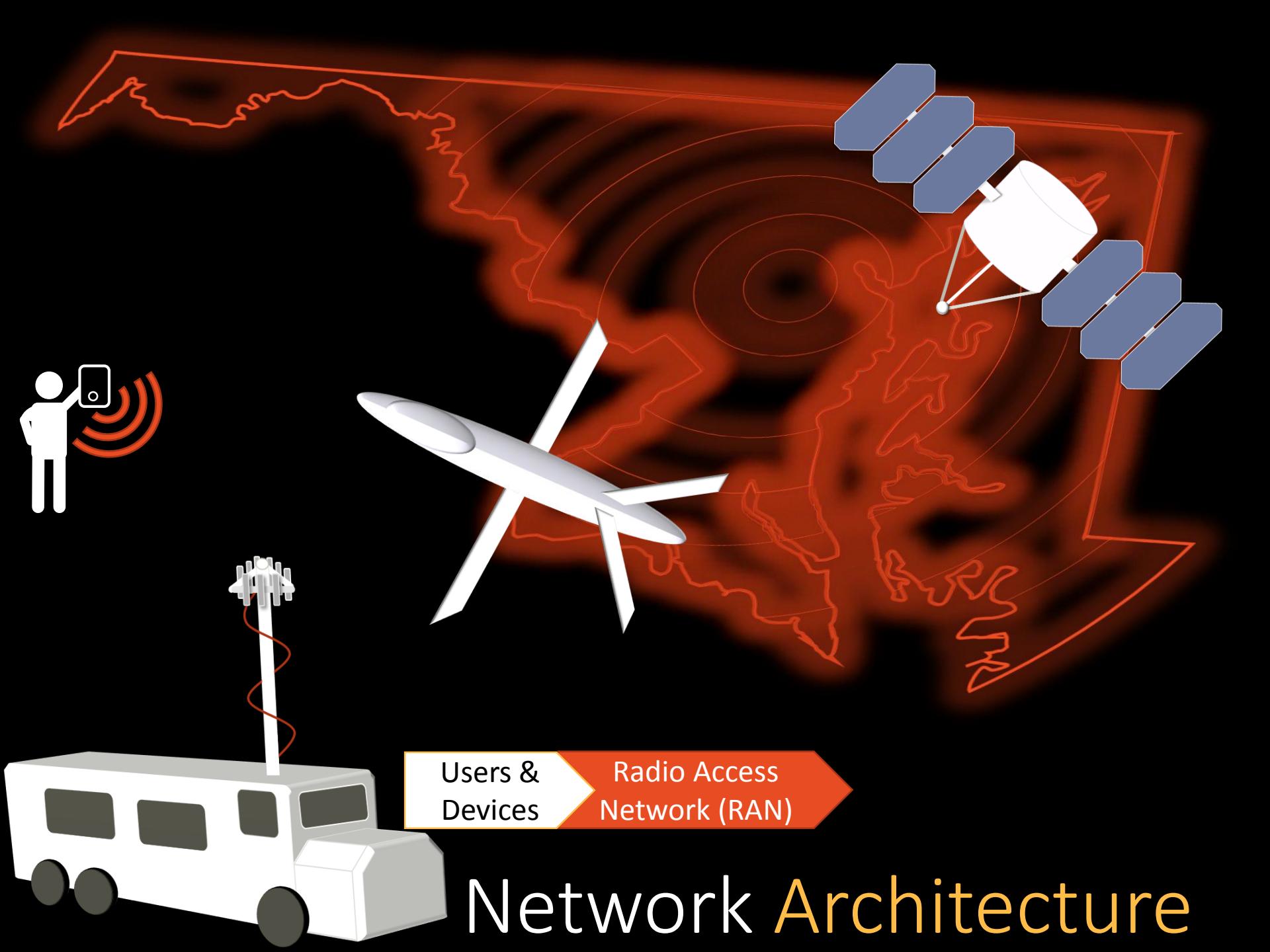


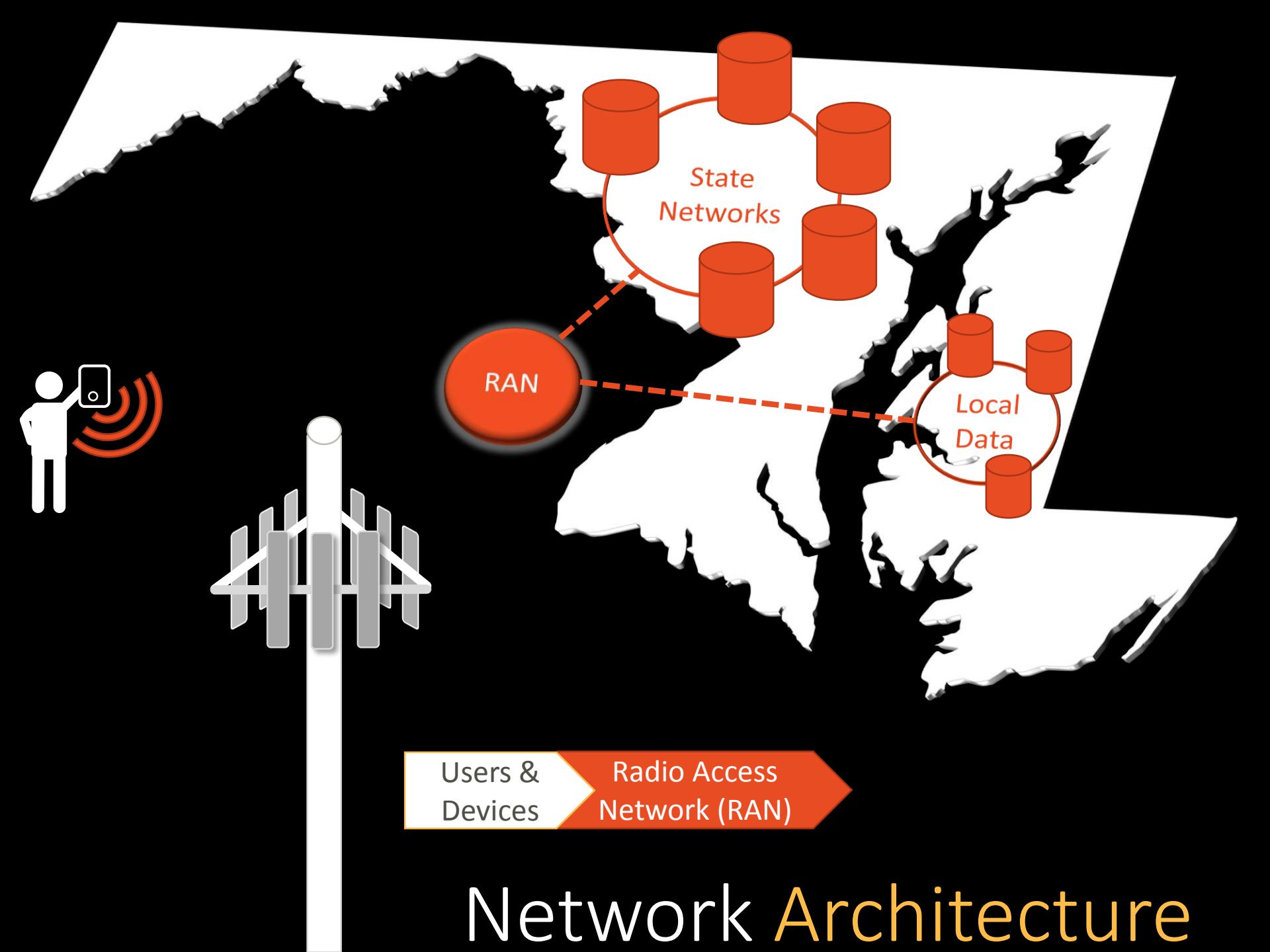


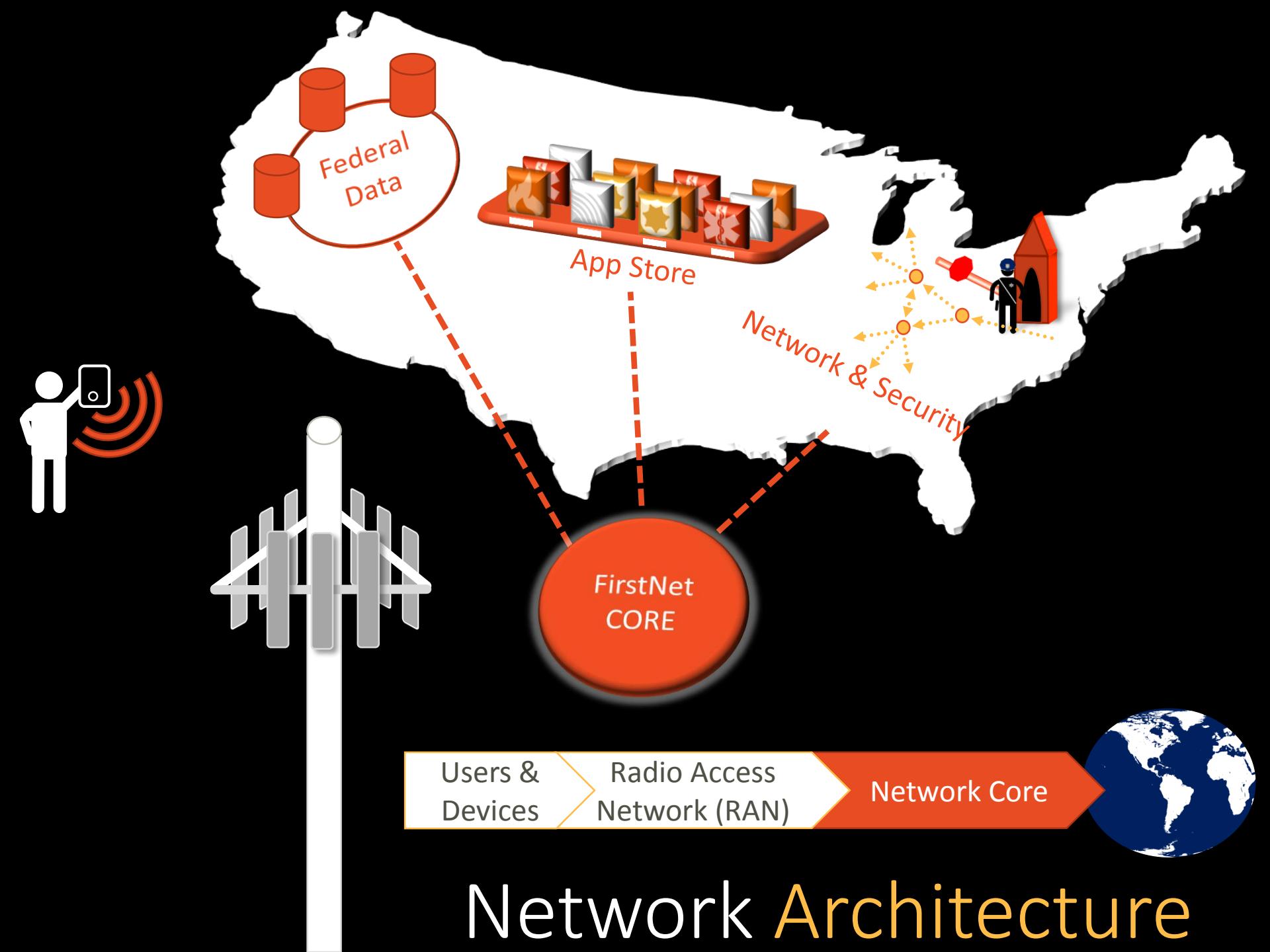
Network Architecture

Users &
Devices

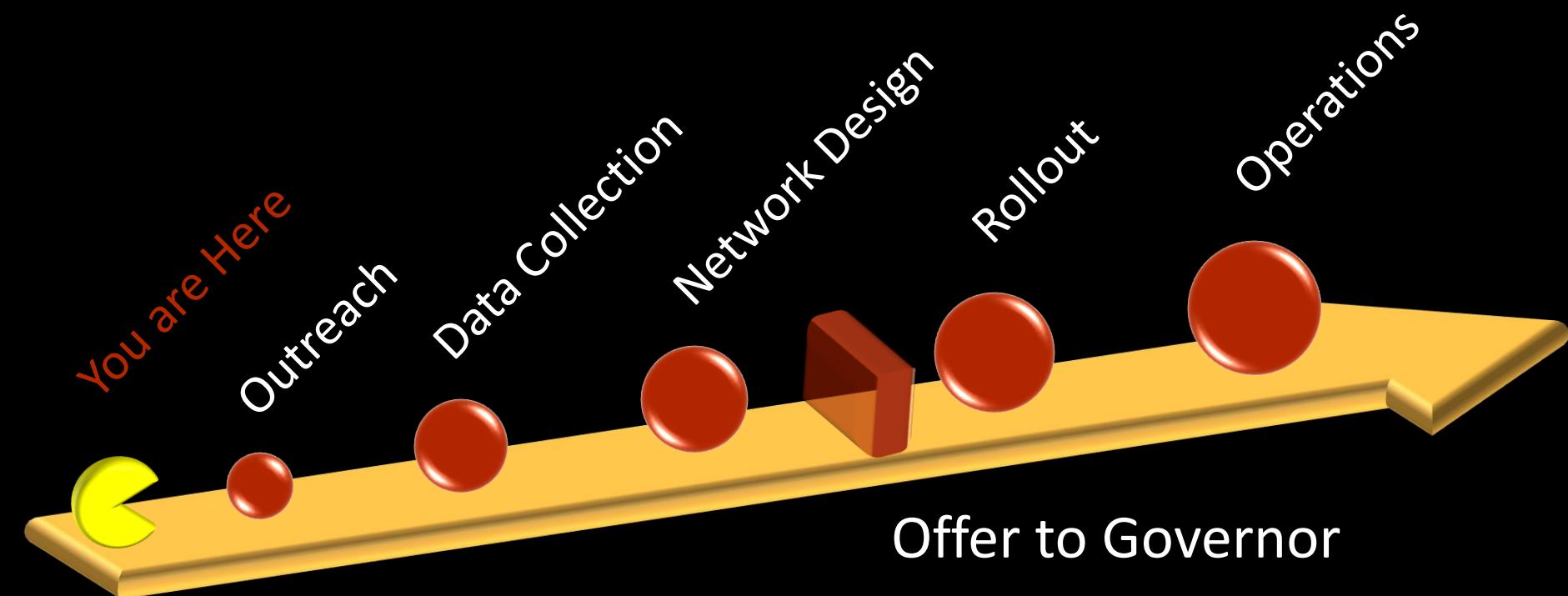
Radio Access
Network (RAN)







TIMELINE: NATIONAL



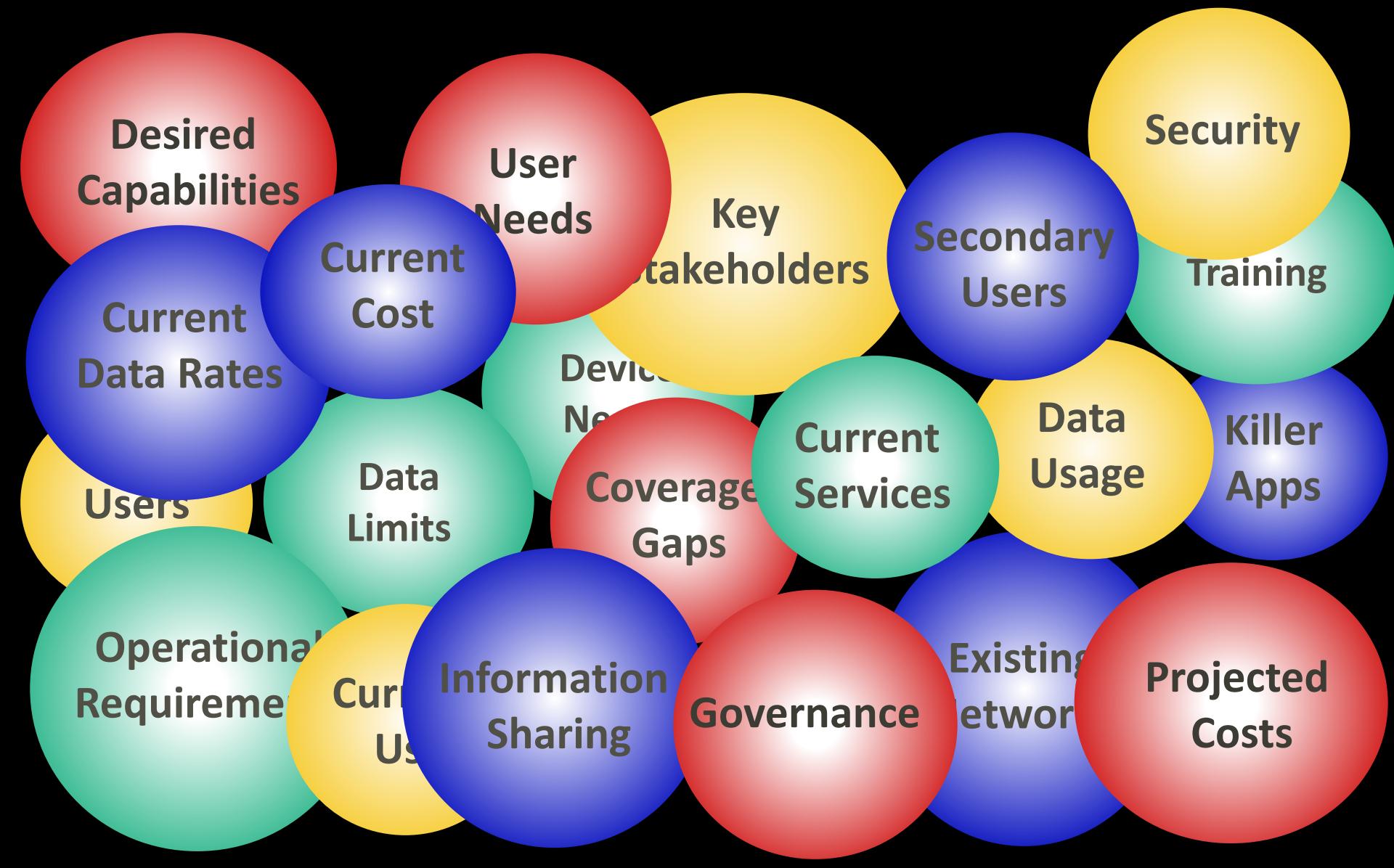
2014

2015

2016

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Outreach & Data Collection



PROCESS: MARYLAND

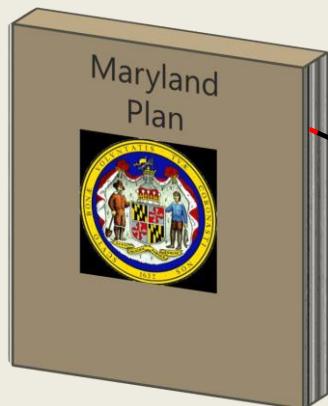
2014



Stakeholder Outreach

Data Collection

2015



... 2016



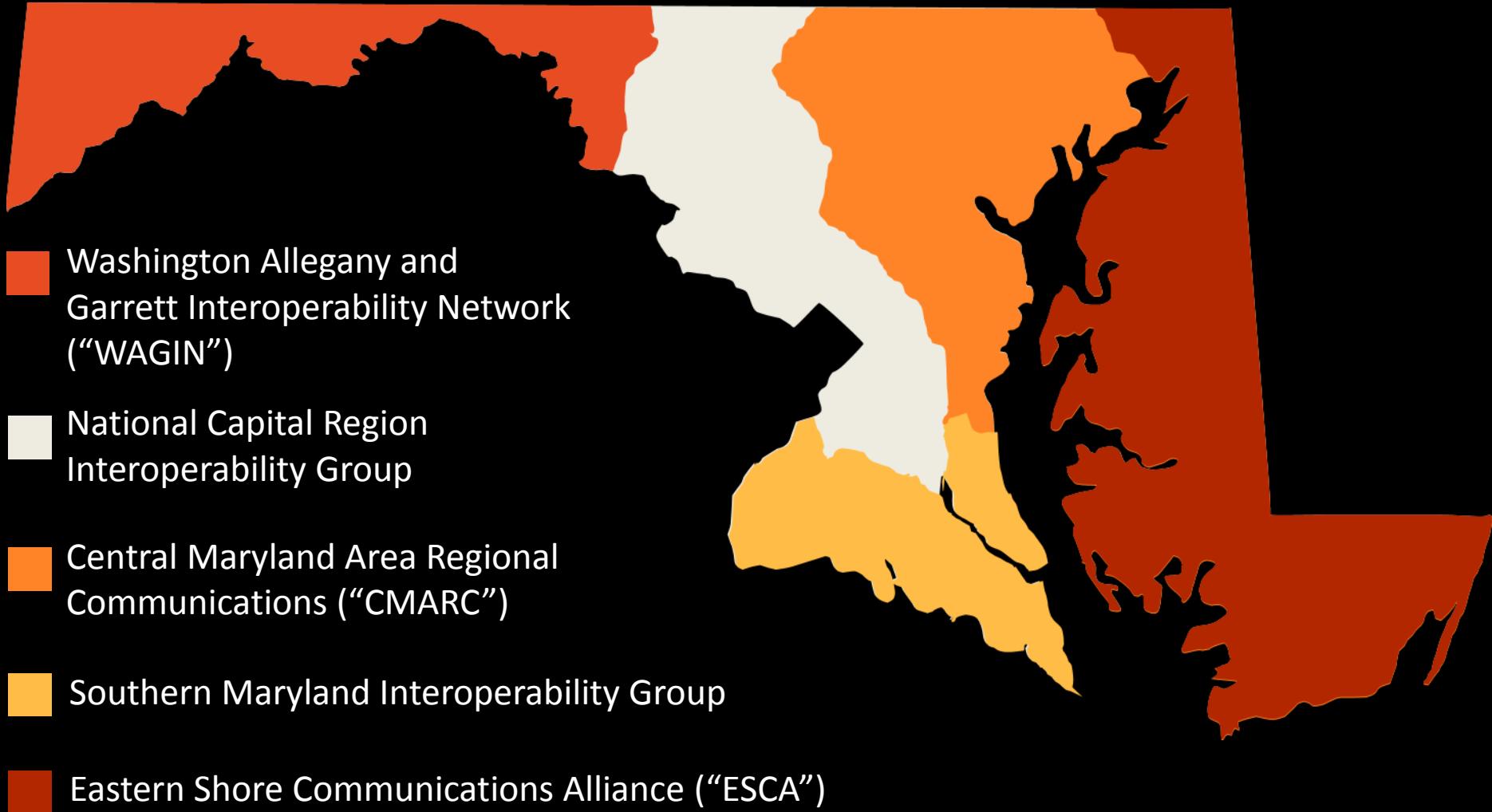
Consultation & Planning

Governance & Stakeholders

Statewide Interoperability
Executive Committee
("SIEC")



Governance & Stakeholders



What Can I Do To Help?

- Check Out Our Google Site!

<https://sites.google.com/site/statepstforums/>

- Find Us On Twitter!

@MDInterop

<https://twitter.com/MDInterOp>

A dramatic photograph of two firefighters in full protective gear, including helmets and oxygen tanks, working together in a thick cloud of smoke. One firefighter is on the left, leaning forward with a hose, while the other is on the right, also in a crouched position. The scene conveys a sense of danger and teamwork.

Get Ready for Consultation!

Disclaimer

This slide deck was prepared by the Maryland Department of Information Technology using funds under award 24-10-S13024 from the National Telecommunications and Information Administration (NTIA), U.S. Department of Commerce (DOC). The statements, findings, conclusions, and recommendations are those of the author(s) and do not necessarily reflect the views of the NTIA, DOC, or FirstNet.