

Houston IT Services (HITS)



Public Safety Radio Update

Public Safety Committee
April 12, 2016

Presentation Topics



- » Scope and History
- » Projects Updates
- » System Statistics
- » Shared Facility Update
- » Upcoming Request for Council Action



Old Systems



- » Antiquated
- » Low Capacity
- » Low Reliability
- » Poor Coverage
- » Poorly Maintained



Consolidated System



- » Modern
- » Ultra-High Capacity
 - > Room to Share
- » Incredibly Reliable
- » Dramatically Improved Coverage
- » Enhanced Security with Voice Encryption
- » Well Maintained



Consolidated System



- » RCA Approved – October 2008
 - > \$132.3 million contract value
- » Increased Coverage (16 to 48 sites)
- » Increased Capacity (5X)
- » Increased Reliability through redundancy
- » Increased Interoperability

Safety of First Responders and the Public They Serve



Coverage Testing



Coverage Testing



Public Safety

M3 Coverage Test

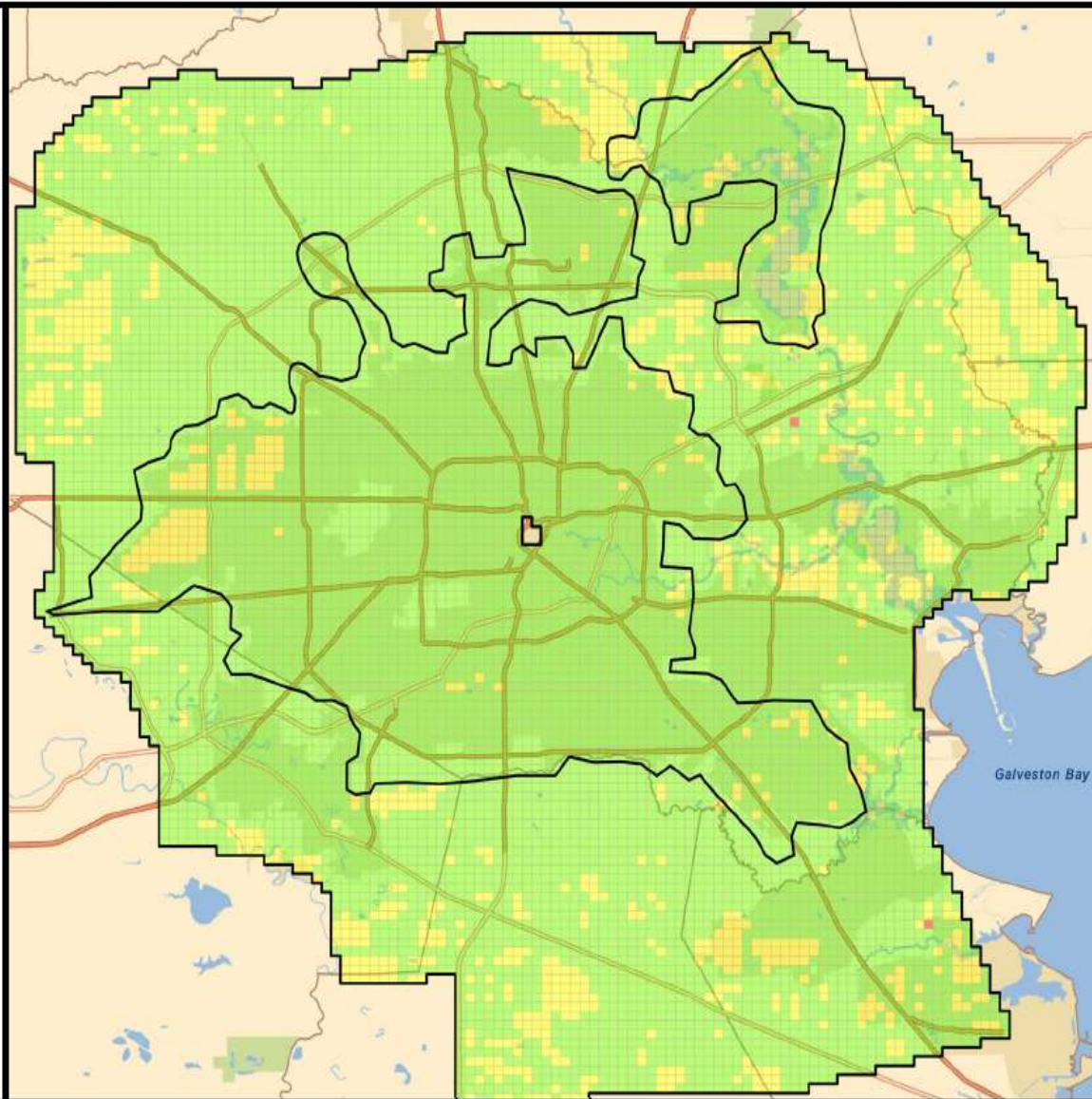
Portable On-Street

- Passed
- Failed
- Inaccessible

Grids Tested : 8,623

Grids Failed : 2

Tested & Passed : 99.98%



Coverage Testing

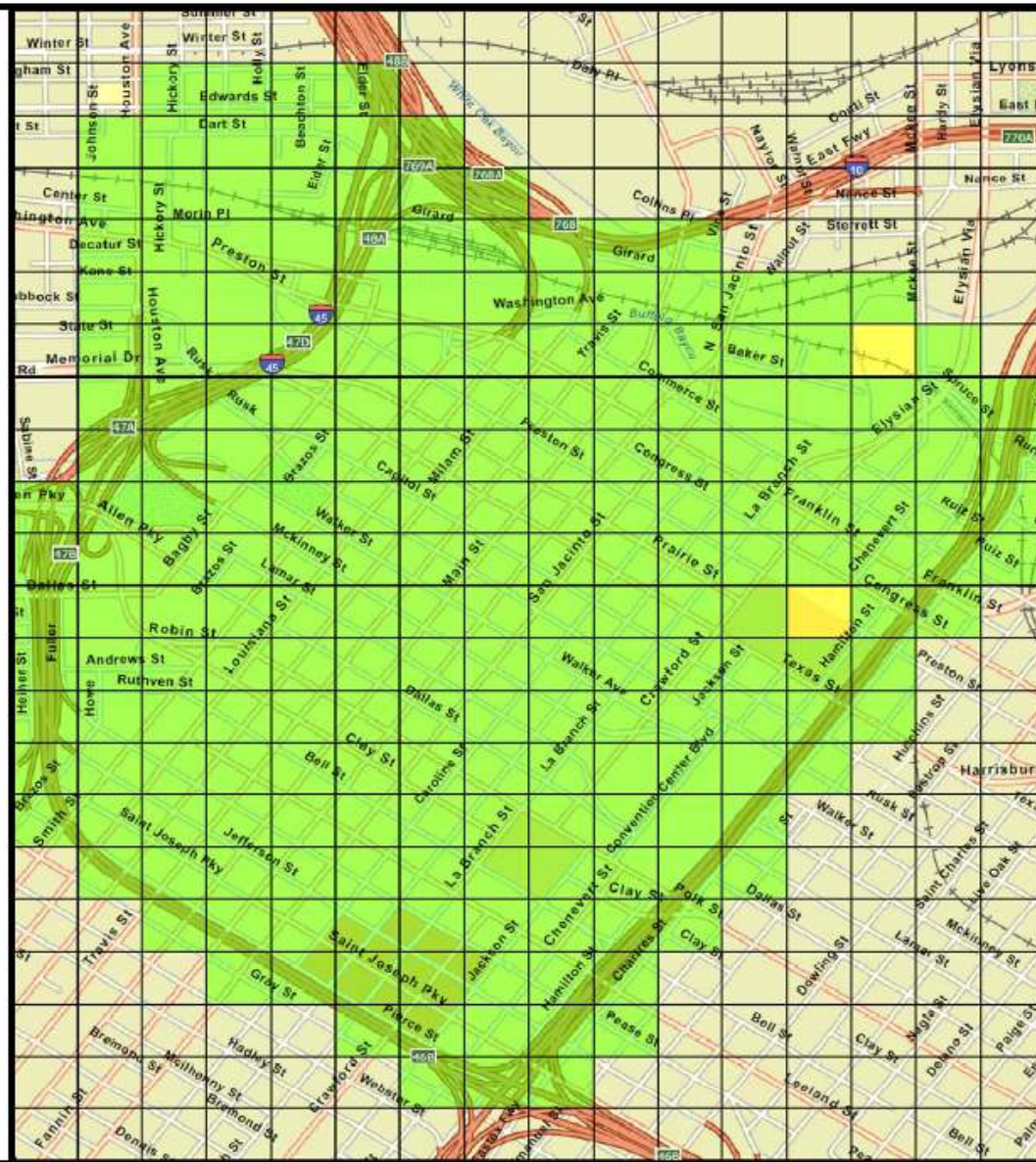


Public Safety M3 Coverage Test

Portable On-Street Downtown



Grids Tested : 217
Grids Failed : 0
Tested & Passed : 100%



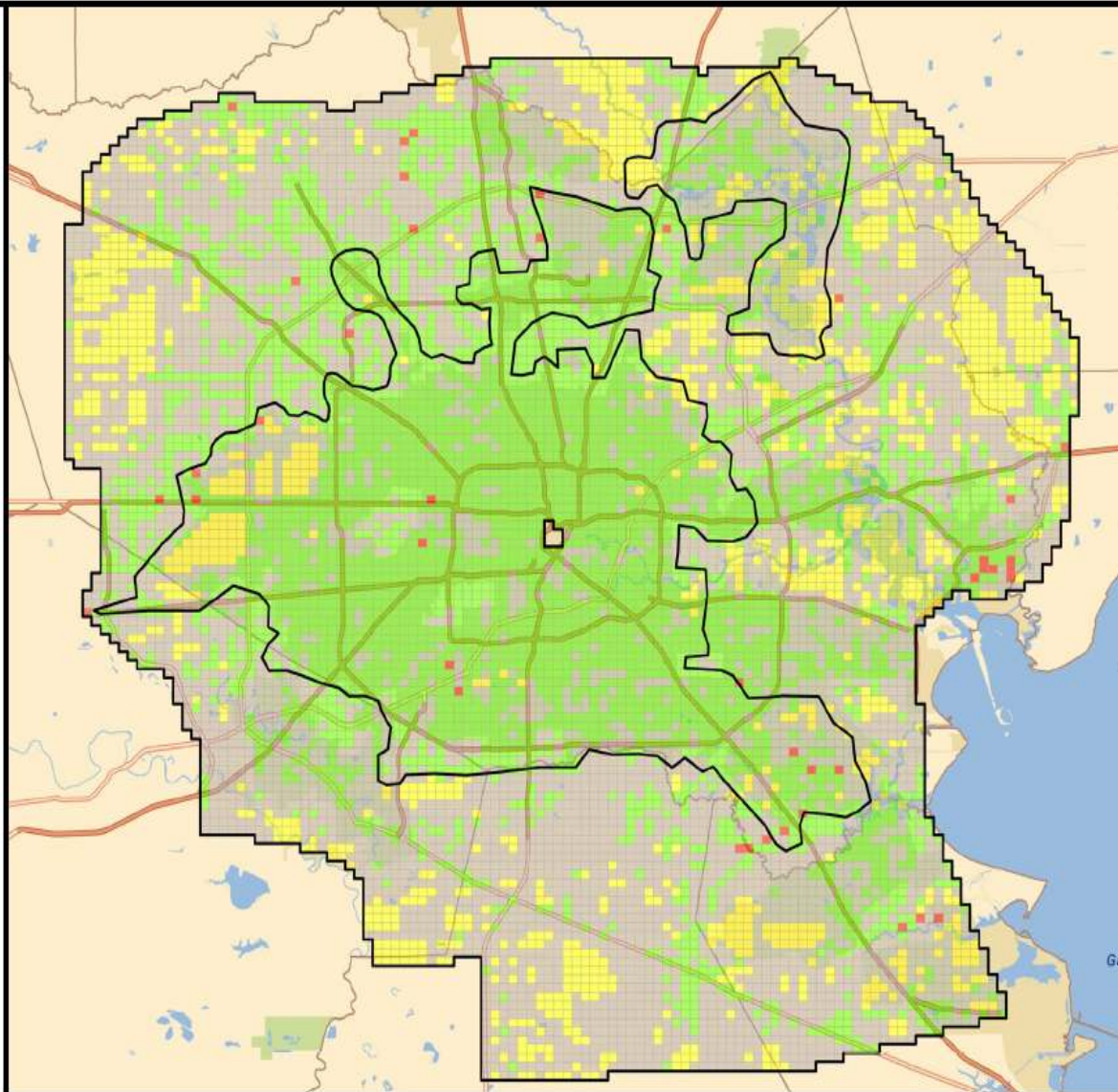
Coverage Testing



Public Safety M3 Coverage Test Random Buildings

- Passed
- Failed
- Inaccessible
- No Building

Grids Tested : 4,003
Grids Failed : 41
Tested & Passed : 99.0%

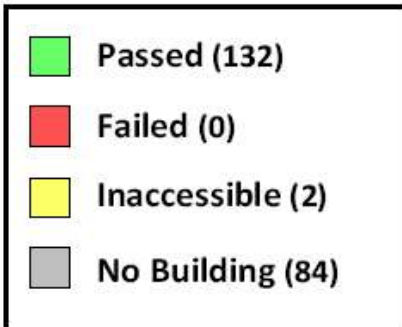


Coverage Testing



Public Safety M3 Coverage Test

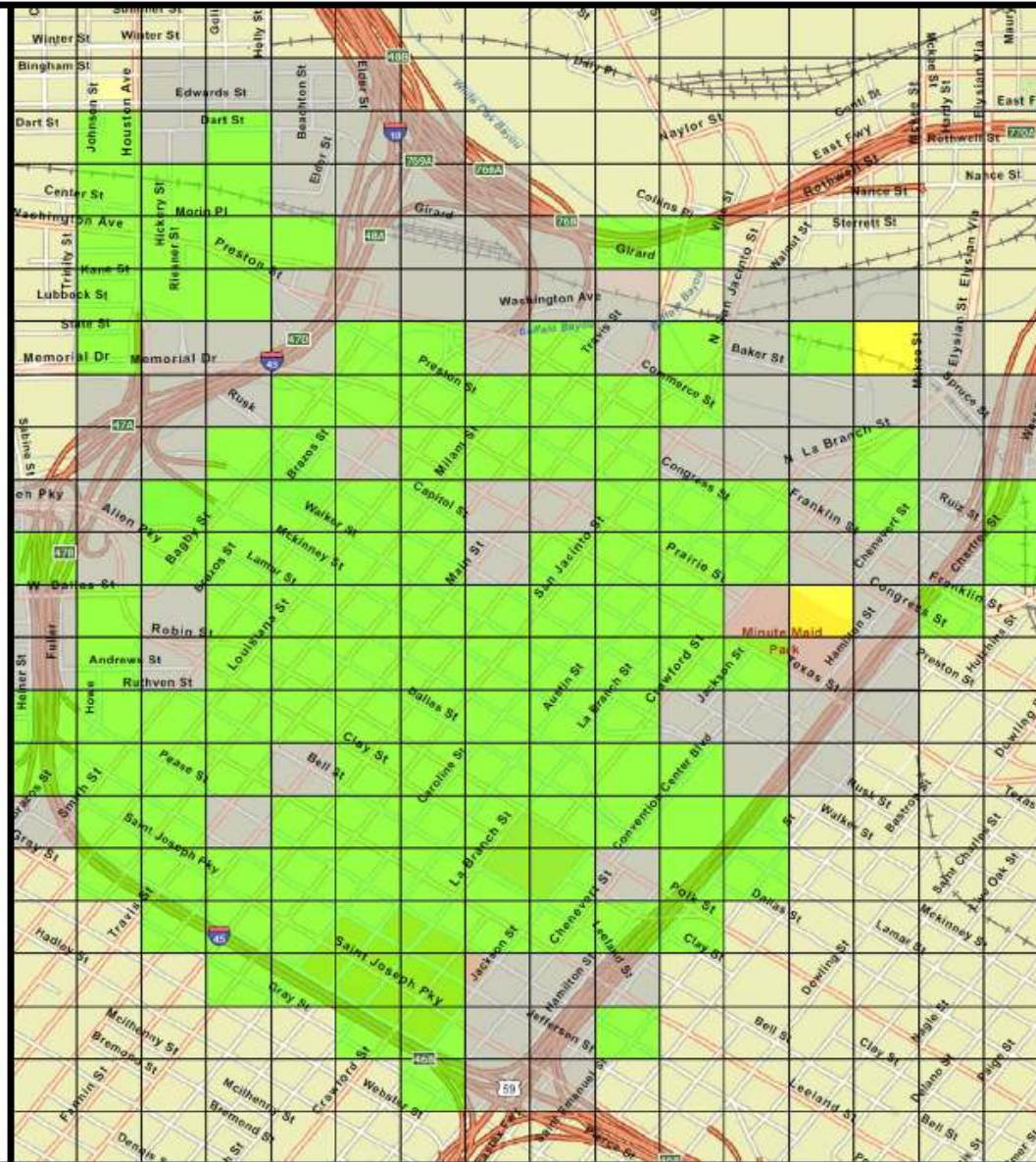
Random Buildings Downtown



Grids Tested : 132

Grids Failed : 0

Tested & Passed : 100%



Required Buildings



- » HFD & HPD identified 147 buildings that needed to have coverage no matter what
- » 147 buildings = more than 550 structures
- » 10 structures failed to meet the 95% coverage requirement
- » City-wide 43 structures tested required some type of remediation
 - > Average cost per square foot of \$0.61/ft²



Presentation Topics



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- » **Projects Updates**
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Fire Code Changes



- » Working for several years on Houston specific changes to the Fire Code
- » Vetted with Industry over last several years
- » December 2015 – City enacted 2012 Fire Code
- » Working on processes with Fire Marshal
 - > New Construction
 - > Existing Buildings



Downtown Tunnels



- » Agreement with Cellular consortia in August 2012
- » Individual Agreements with each Building Owner
- » Phase 1 Completed November 2015
- » Projected Completion - April 2016



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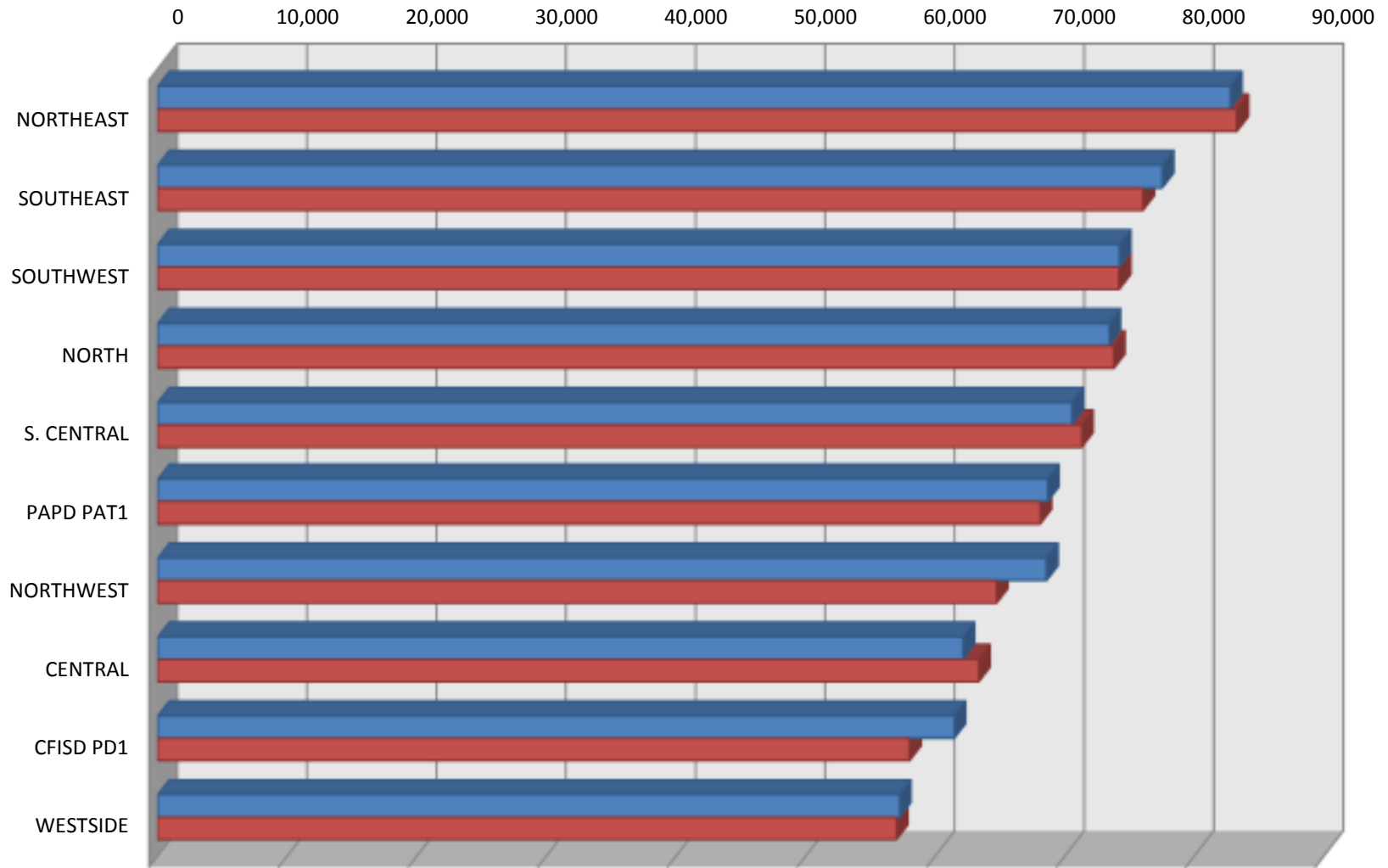
System Statistics



- » 1.2 million Push-To-Talks per week
- » 63 million Push-To-Talks per year
- » 31 partner agencies
- » 559 total Talk groups
 - > HPD = 93
 - > HFD = 57
 - > City = 109 (includes PS duplicated)
 - > Interoperability = 60
 - > Partners = 240



Monthly Top Ten Talkgroups 2016



	WESTSIDE	CFISD PD1	CENTRAL	NORTHWEST	PAPD PAT1	S. CENTRAL	NORTH	SOUTHWEST	SOUTHEAST	NORTHEAST
Feb. Total PTTs	57,258	61,474	62,144	68,591	68,673	70,548	73,428	74,217	77,533	82,800
Jan. Total PTTs	57,013	58,018	63,351	64,738	68,092	71,301	73,785	74,202	76,037	83,300

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Shared Facility



- » October 2012 - Executed an Interlocal Agreement with Harris County for the construction of a shared Radio Facility
 - > All costs and ownership rights split 50/50
 - > Purchased property from HAS at 2318 Greens Road
 - > Joint Design and Construction led by Harris County
 - > Estimated Cost/Initial budget \$5,410,000.00

- » October 2013 – Executed 1st Amendment to increase Total Budget by \$1m (Split 50/50)

- » April 2015 – Executed 2nd Amendment to clarify insurance terms





RADIO SERVICES



Service Bay



Network Operations Center



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Shared Facility



- » April 2016 – Request Approval for 3rd Amendment to enact provisions and guidelines for shared services
 - > Planned Shared Services
 - + Drive up Customers
 - + Equipment/Parts
 - + Procurement
 - > Requires establishment of proper controls and audits
 - > Reconciliation at least quarterly or if \$100k limit is reached

- » April 2016 – Request Approval to establish spending authority for Operations & Maintenance of facility (\$50K)

- » Requesting recommendation of approval for upcoming agenda items





Questions

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