

# Michigan's Public Safety Communications System

*It's not just a radio. It's a partnership.*





# Service to Citizens

*From unplanned emergencies...*



The Blackout



1-96 Pile Up



Floods



Wildfires



Riots



Enbridge Oil Spill

- Increased/Enhanced interoperability for first responders
- Shared Services and Consolidation.
- Savings across government by reducing:
  - Parallel infrastructure
  - Multiple disparate radios
  - Operating costs
  - Hardware and software costs
  - Maintenance costs

*... to planned events*



MIS - NASCAR



All Star Game



Super Bowl

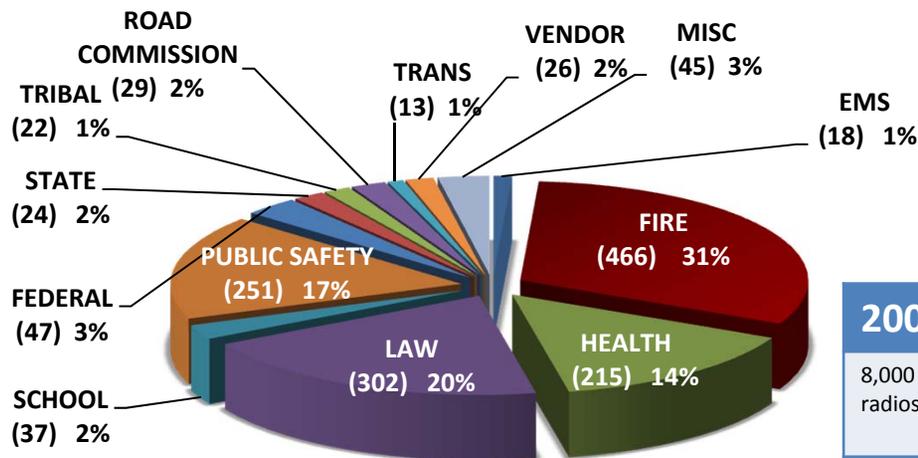


NCAA Tournament



# MPSCS Evolution – From One to Many

Agencies	
EMS	18
Fire	466
Health	215
Law	301
Miscellaneous	45
Public Safety	251
Road Commission	29
School	37
State	24
Transportation	13
Federal	47
Tribal	22
Vendor	24
Grand Total	1,494



**Radios Approved for System**  
 5 Mobile Manufacturers = 21 models  
 7 Portable Manufacturers = 28 models

2002	January 2016
8,000 mobile and portable radios	74,857 mobile and portable radios (810% increase)
180 tower sites	246 tower sites (64 sites are locally owned but integrated into the MPSCS)
6 Dispatch Centers 38 console positions	63 Dispatch Centers 272 console positions
2 million/month Push-To-Talks (PTT)	11 million/month Push-To-Talks (PTT) (525% increase)
152 agencies with interoperable voice and data communications	1,495 agencies with interoperable voice and data communications (880% increase)





# MPSCS Remediation Project

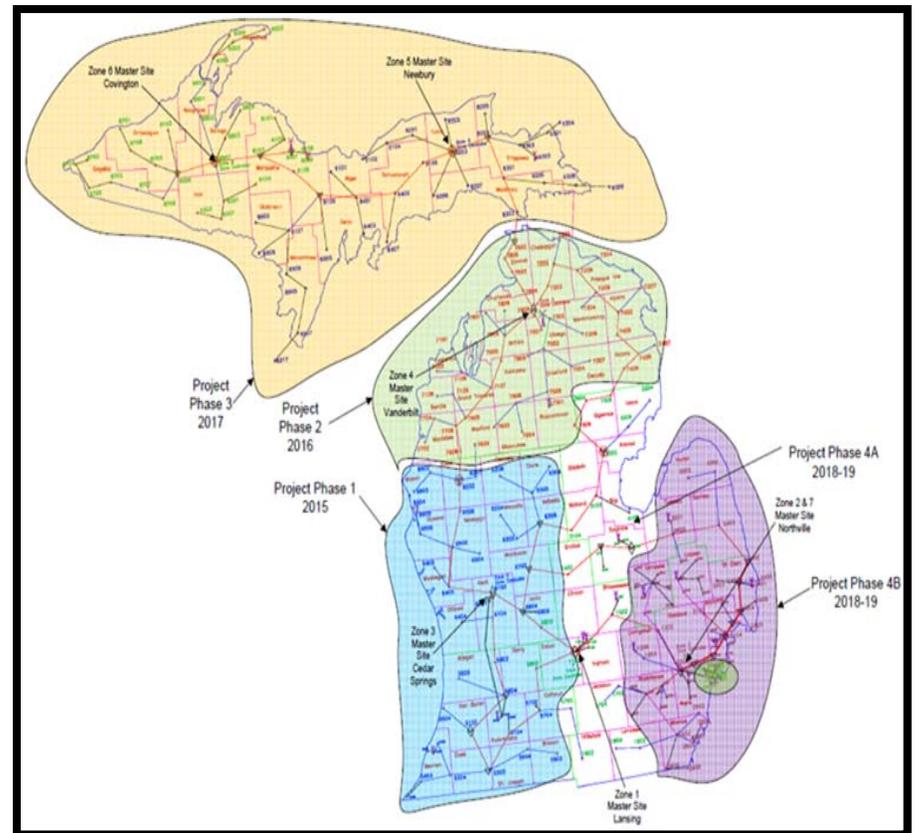
- 5 year project to refresh aged equipment on the MPSCS
- Includes all system infrastructure
  - Repeaters
  - Power systems
  - Microwave
  - Dispatch consoles as needed
- Includes State and Local User system sites





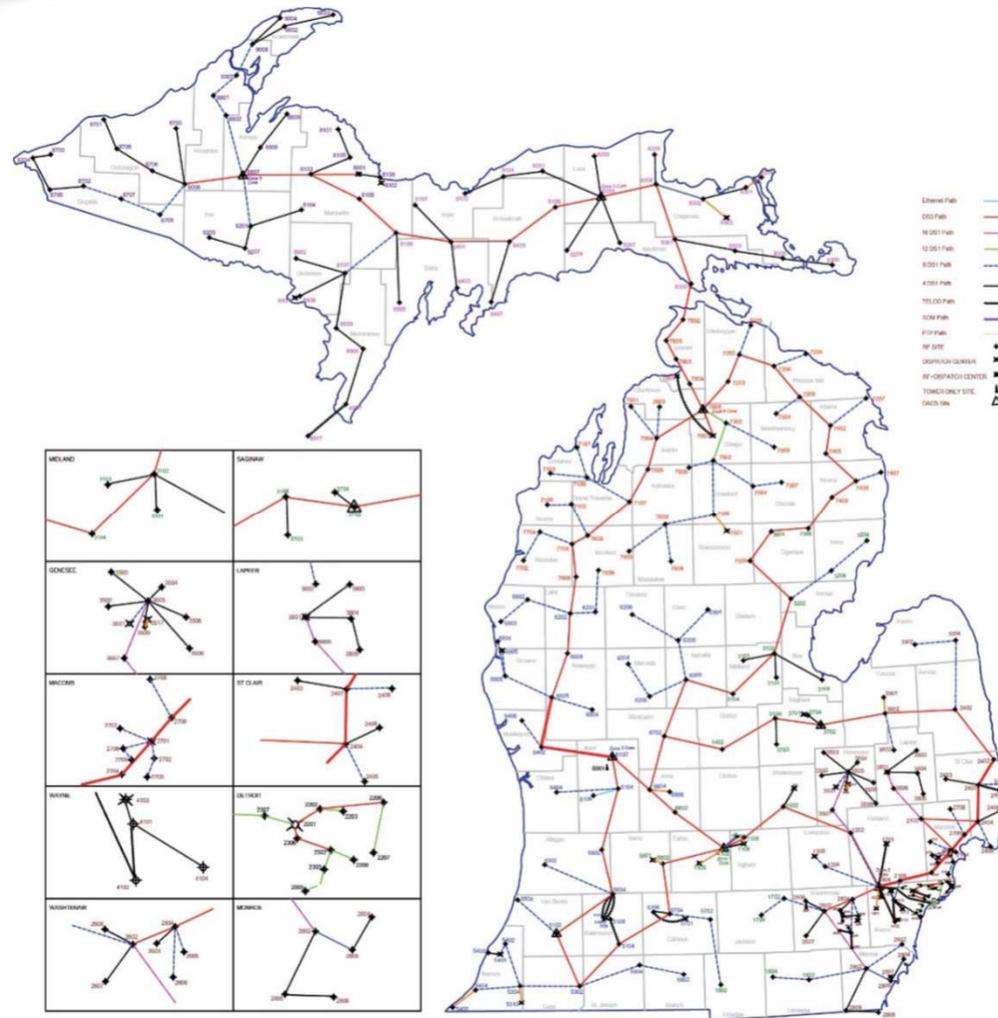
# MPSCS Remediation Project

- Project will be completed in phases over multiple years from 2015 - 2022
- Minimal impact to users
  - Limited downtime (planned and communicated)
  - Does not impact subscriber radios
  - It's like we are "building an airplane in flight"
- State is funding the \$150M 10 year project through General Fund Appropriation





# Network





# Interoperability = Voice + Data

## *Data services include*

- 800 MHz Voice & Data Radio Services
- Automatic Resource Location (ARL) System for State of Michigan Agencies
- Shared Computer Aided Dispatch (CAD) Solution
- P25 800 MHz Trunked Paging Solution





# MPSCS Subscriber Fee Model – Revision

## Old Plan – Annual Per Radio Costs

In the past, partners gain access to the MPSCS through an annual subscription fee - assessed per radio and tiered by the number of talkgroups

	Number of Radios	Cost Per Year	Total	10 Year Total
Example User	43	\$200/ radio	\$8,600/year	\$86,000

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## New Plan – One Time Costs

The New structure makes membership in MPSCS more affordable and provides public safety agencies with the greatest opportunity for interoperable radio resources, improved interoperability/response, and greater talkgroup solutions

	Number of Radios	Cost Per Year	Total
Example User	43	One-Time \$250	\$10,750

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