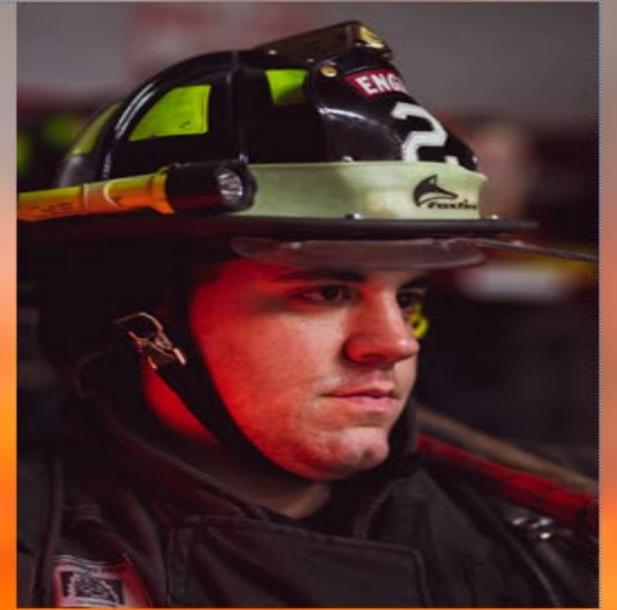


# North Dakota SIRN



# PUBLIC SAFETY COMMUNICATIONS IN ND

230,000 Calls to 9-1-1 each year

9-1-1 Calls are received every 2 MINUTES  
24 hours a day, 365 days a year



# SIRN HISTORY

## INTEROPERABILITY CHALLENGES



Example of Communication Challenge  
During Crisis Response Situation:

Three Responders could see each other but were unable to communicate using the current radio network because they were from different agencies.

This jeopardizes the safety of public and first responders.

# SIRN Today, Tomorrow and beyond



## Pre-2019

Fragmented  
Systems  
Little to No  
Interoperability &  
Coverage Issues

## SIRN 2020 Today

- Updating DOT sites 45
- Adding 95 more sites
  - Working with City/County Government to use local assets
- Almost 50% of PSAPs on new MCC 7500 Consoles with 18 of the 22 upgraded by end of 2021
  - Allowing for Direct Communications with other PSAPS

## SIRN 2020 into the future...

- Interoperability with MN, SD, Manitoba, Verizon, AT&T, Federal Government
- LTE Integration via Critical Connect / Smart Connect
- Centralized Logging
- Mission Critical PTT via LTE

# SIRN Today

Transitioning to the future



**NORTH DAKOTA  
STATEWIDE  
INTEROPERABLE  
RADIO NETWORK**

## **PSAPs Preparing to Transition to 800Mhz**

- Fleetmaps
  - Final Naming, how do we communicate, breaking old thought processes
  - Working with all agencies within your PSAP jurisdiction
  - Approval by every entity/department is needed
- Radio Reimbursement
  - HB 1146 – Amending language

# SIRN Today Continued

Transitioning to the future



**NORTH DAKOTA  
STATEWIDE  
INTEROPERABLE  
RADIO NETWORK**

## PSAPs Preparing to Transition to 800Mhz Continued

- Radio Talkgroup Layouts
  - State minimums on all radios
  - How, what types of events, patching to make interoperability happen

OH1	OH2	OH3	01 LAW 1 HOME LE	01 LAW 2 HOME LE	01 FIRE/EMS Home Fire_EMS	01 LOCAL GOV HOME Local Govt	01 LOCAL MA Local MA	02 LAW 1 Adjacent LE	2LAW2	02 FIRE/EMS 1 Adjacent Fire	02 FIRE/EMS 2	03 STATE LAW1 State LE	03 STATE LAW2 State LE	03 STATE F/EMS State Fire_EMS	04 Other Other/Misc.	05 REGIONAL Regional Interop	05 STATE MA1 Statewide MA	05 STATE MA2 Statewide MA	5 NAT'L 700MA1 National MA (700)	5 NAT'L 700MA2 National MA (700)	5 NAT'L 800MA National MA (800)	5 NAT'L VHF MA National MA (VHF)
PURSUIT	PURSUIT	PURSUIT					## CW LE MA 1					00HP FG OPS1	SR 01 LE BD	00_FS REG A		ND NW MA HAIL	ND MA HAIL	ND MA HAIL	7CALL50	7CALL50_D	8CALL90	VCALL10
							## CW LE MA 2					00HP JN OPS1	SR 01 LE MW	00_FS REG B		ND NW PURSUIT	ND PURSUIT 1	ND MA 16	7TAC51	7TAC51_D	8TAC91	VTAC11
							## CW MA 3					00HP BK OPS1	SR 01 LE M	00_FS REG C		ND NW MA 01	ND PURSUIT 2	ND MA 17	7TAC52	7TAC52_D	8TAC92	VTAC12
							## CW MA 4					00HP DK OPS1	SR 02 LE ANN	00_FS REG D		ND NW MA 02	ND MA 03 E	ND MA 18	7TAC53	7TAC53_D	8TAC93	VTAC13
							## CW MA 5					00HP WN OPS1	SR 02 LE BRR	00_FS REG E	<b>Examples:</b>	ND NW MA 03	ND MA 04 E	ND MA 19	7TAC54	7TAC54_D	8TAC94	VTAC14
							## CW MA 6					00HP MT OPS1	SR 02 LE MPSV	00_FS REG F	<i>Hospitals</i>	ND NW MA 04	ND MA 05 E	ND MA 20	7TAC55	7TAC55_D	8CALL90_D	VFIRE21
												00HP DL OPS1		00_FS REG G	<i>ND/RCIT</i>	ND NW MA 05	ND MA 6	ND MA 21	7TAC56	7TAC56_D	8TAC91_D	VFIRE22
												00HP GF OPS1		00_FS REG H	<i>PWS</i>	ND NW MA 06	ND MA 7	ND MA 22	7GTAC57	7GTAC57_D	8TAC92_D	VFIRE23
												00BCI BK OPS1			<i>Game&amp;Fish</i>	ND SW MA HAIL	ND MA 8	ND MA 23	7MOB59	7MOB59_D	8TAC93_D	VFIRE24
												00BCI DK OPS1		00_DOH OPS 1	DOH	ND SW PURSUIT	ND MA 9	ND MA 24	7LAW61	7LAW61_D	8TAC94_D	VFIRE25
												00BCI WN OPS1		00_DOH OPS 2	BCI	ND SW MA 01E	ND MA 10	ND MA 25	7LAW62	7LAW62_D		VFIRE26
														00_DOH OPS 3	Federal Agencies	ND SW MA 02	ND MA 11	ND MA 26	7FIRE63	7FIRE63_D		VMED28
														00_DOH OPS 4		ND SW MA 03	ND MA 12	ND MA 27	7FIRE64	7FIRE64_D		VMED29
														00_DOH OPS 5		ND SW MA 04	ND MA 13	ND MA 28	7MED65	7MED65_D		VLAW31
														00_DOH OPS 6		ND SW MA 05	ND MA 14	ND MA 29	7MED66	7MED66_D		VLAW32
																ND SW MA 06	ND MA 15	ND MA 30	7DATA69	7DATA69_D		SAR NFM



# SIRN HISTORY

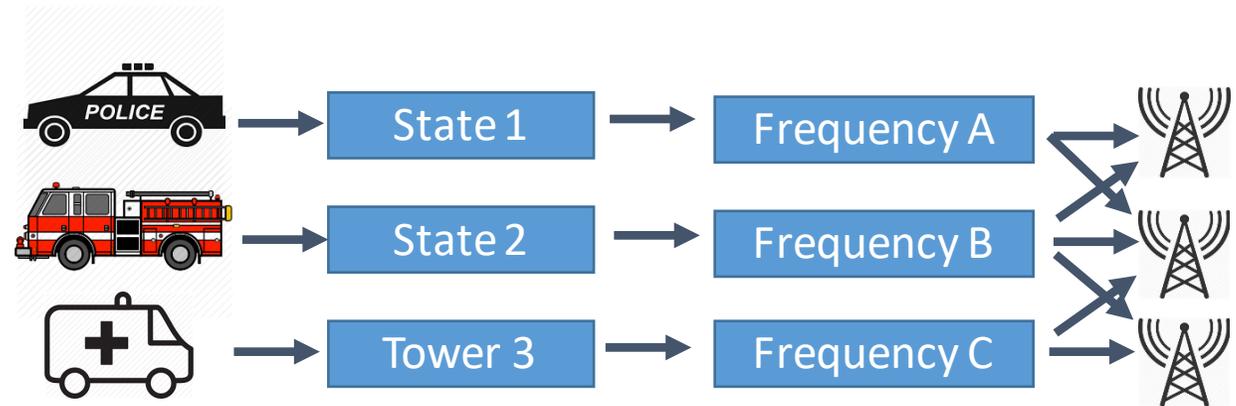
## CONVENTIONAL VS TRUNKING



**NORTH DAKOTA  
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RADIO NETWORK**

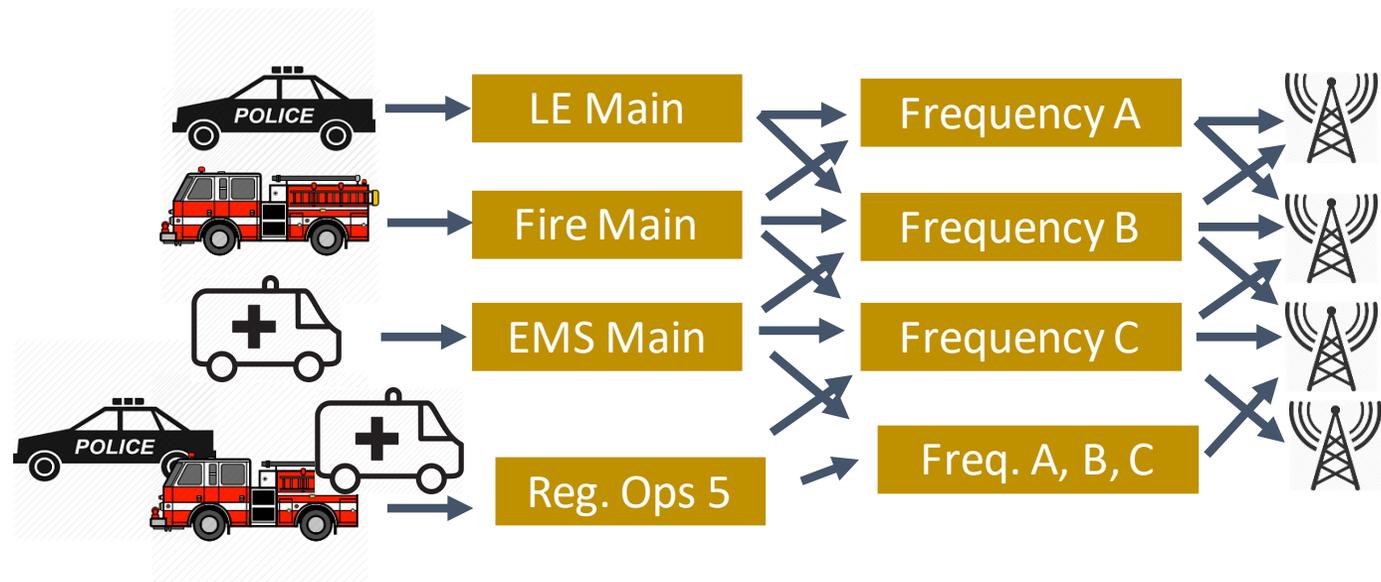
### Conventional Radio System:

- User chooses a frequency
- Bound to a specific set of towers
- Assigned to a specific purpose



### Trunked Radio System:

- User chooses a specific talk group
- Assigned to a specific purpose
- Not bound to a frequency
- Not bound to a specific set of towers
  - System programmable
- Can be local, county, regional, state, federal

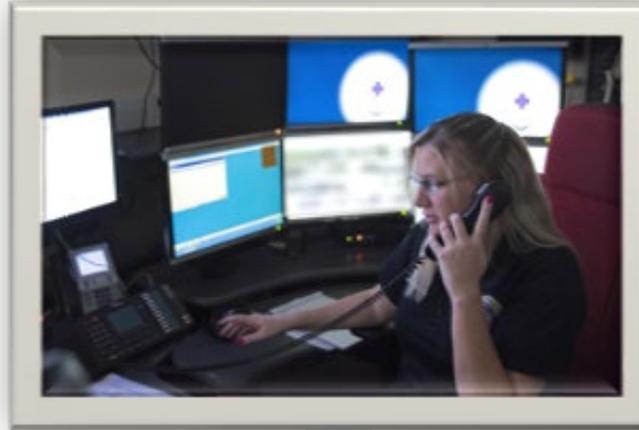


# HOW TG's SIRN WORKS



LTE Main

Dispatcher at PSAP sends message to responders



Trauma 1

LE Main - Encrypted



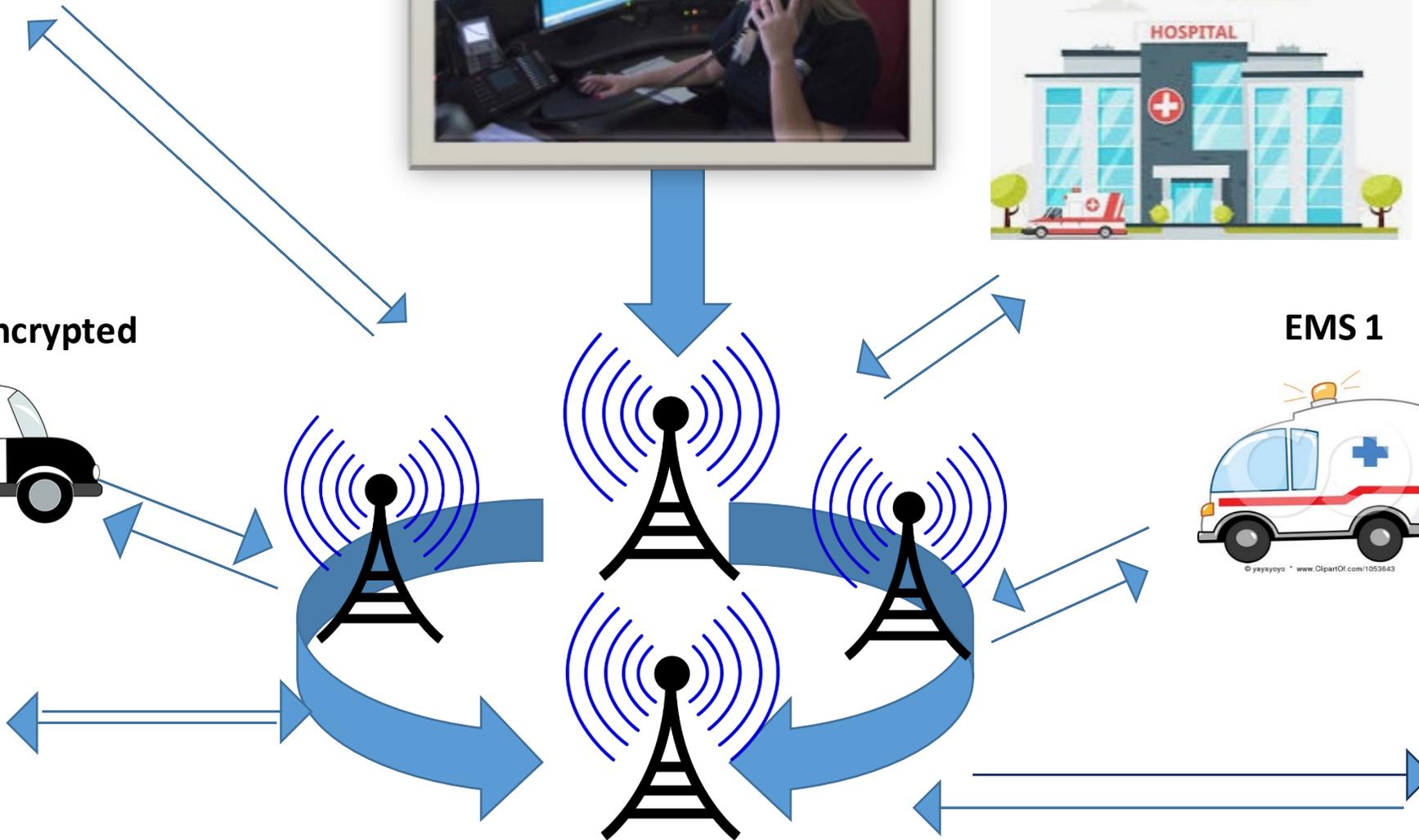
FIRE 1



EMS 1



HP



# SIRN

## RADIO REIMBURSEMENT

- 2019 Legislature provided funding for radios in HB 1435
  - Anticipate most agencies will purchase radios in 2022-2023
- **\$1,500 cost share per radio**
  - City/County Law Enforcement, Fire, Emergency Medical Personnel
- Eligibility Amendment:
  - HB 1146
    - Must complete survey
    - Available for radios purchased between 4/2019-1/2024
    - Agencies purchase approved radio & submit receipts and proof of payment for reimbursement

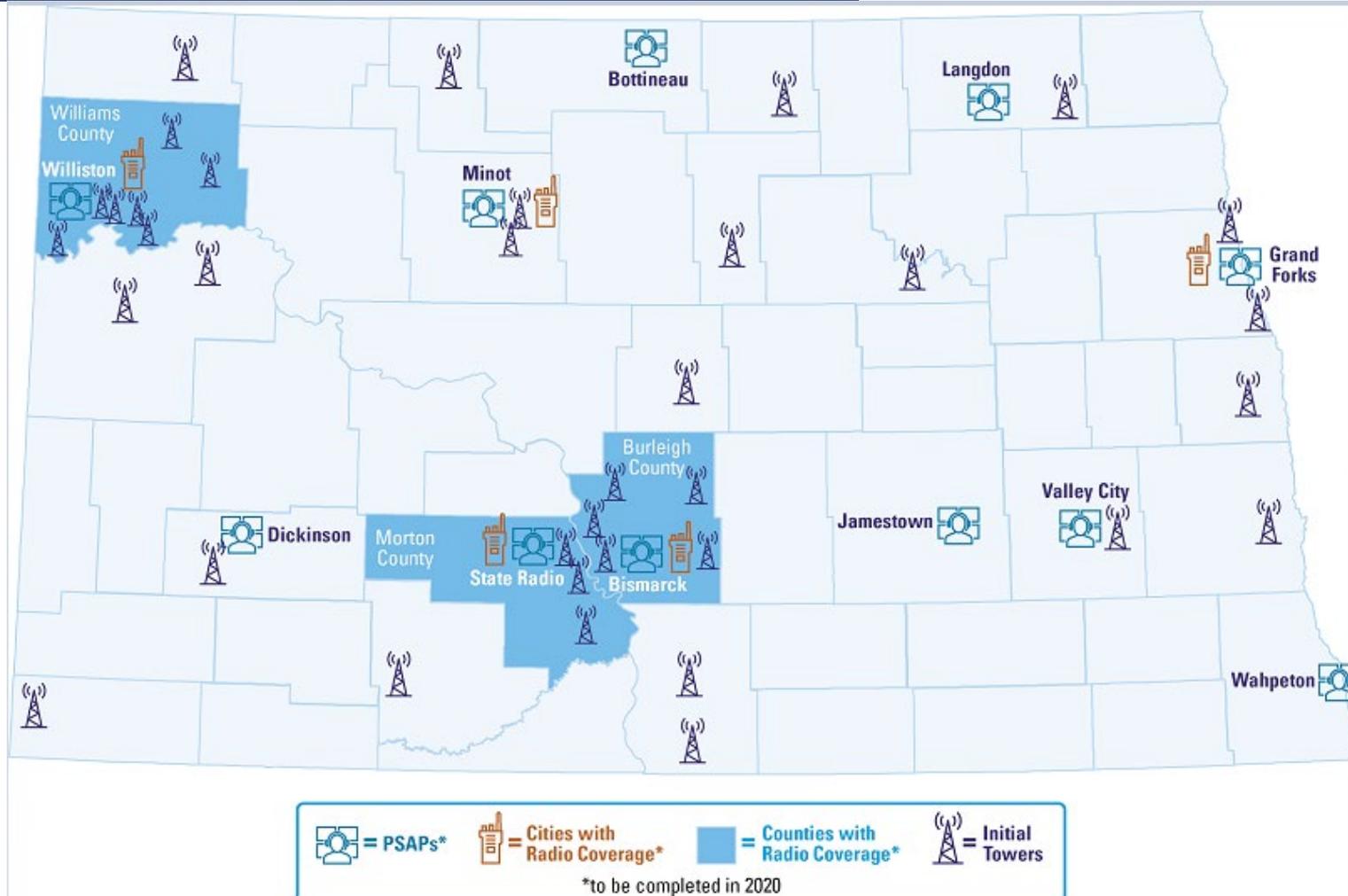


# SIRN

Project Status – Link on [SIRN2020.nd.gov](http://SIRN2020.nd.gov)



**NORTH DAKOTA  
STATEWIDE  
INTEROPERABLE  
RADIO NETWORK**





# SIRN

## GOVERNANCE & POLICY



- SIEC Governance structure allows for INVOLVEMENT at all levels
- User involvement is critical to successful implementation of SIRN
- Workgroups developing standards which are then reviewed / approved by Subcommittee / SIEC
  - [SIRN Standards Page](#)
  - [Governance Page](#)



# SIRN Today, Tomorrow and beyond



**NORTH DAKOTA  
STATEWIDE  
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RADIO NETWORK**

## SIRN 2020 into the future...

- Interoperability with MN, SD, Manitoba, Verizon, AT&T, Federal Government
- LTE Integration via Critical Connect / Smart Connect
- Centralized Logging

- LTE (Mission Critical Push to Talk (MCPTT))
  - Not meant to replace LMR, but augment
  - Cost Savings on Admin staff and benefits
- Centralized Logging LRM
  - Local recorder for 911/admin lines
- Other Technologies



## SIRN 20/20

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[SIRN2020.nd.gov](http://SIRN2020.nd.gov)

### Recent news

[SIRN Buildout & Transition](#) (January 2022)

[SIRN 101 Presentation](#) (October 2020)

[Project Status as of January 2022](#)

[Project Status as of December 2021](#)

[Project Status as of November 2021](#)

[SIRN - Infographic](#)

2021 PSAP Replacement Schedules: Pending Replan

2021 Tower / RF schedules: Pending Replan

[Televate Landscape Survey Summary Report](#) and [SIEC Briefing](#)

### 2021

- 75% of Dispatch Centers Upgraded to new Consoles
- 66% of Mobile Buildout Completed
- 3 Dispatch Centers Transitioned to 800Mhz (Williston, Grand Forks, Minot)



# Contact Information:



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