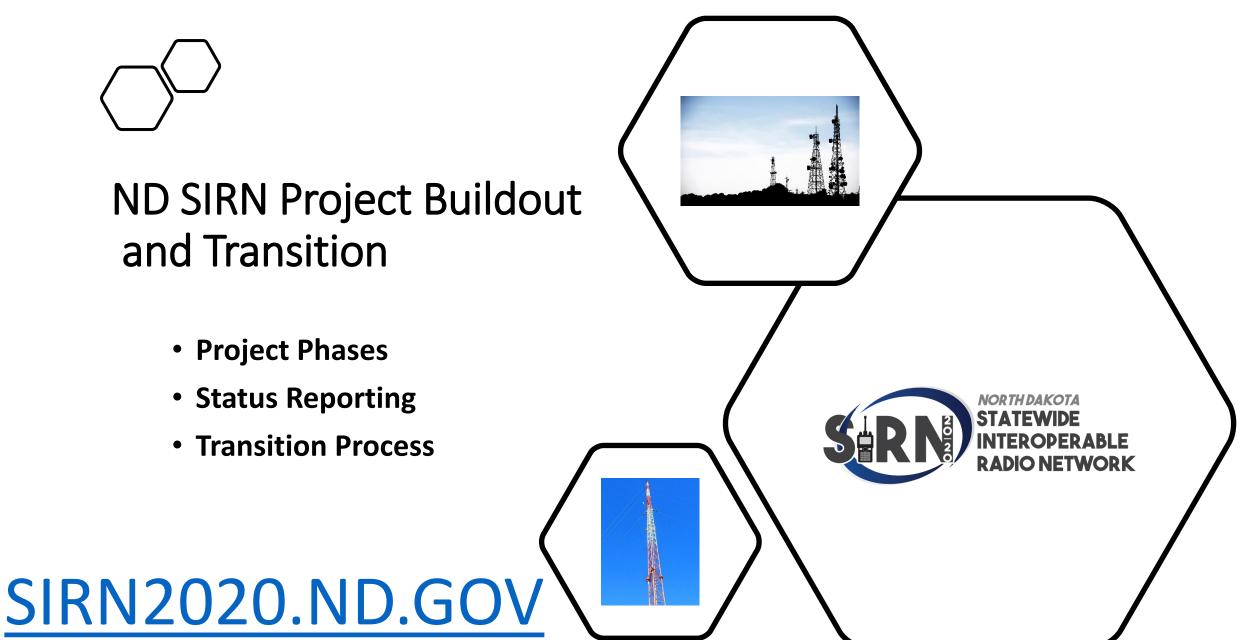


ND SIRN Project Buildout and Transition

- Project Phases
- Status Reporting
- Transition Process



PUBLIC SAFETY COMMUNICATIONS IN ND

SIRN Project Has 3 Main Phases

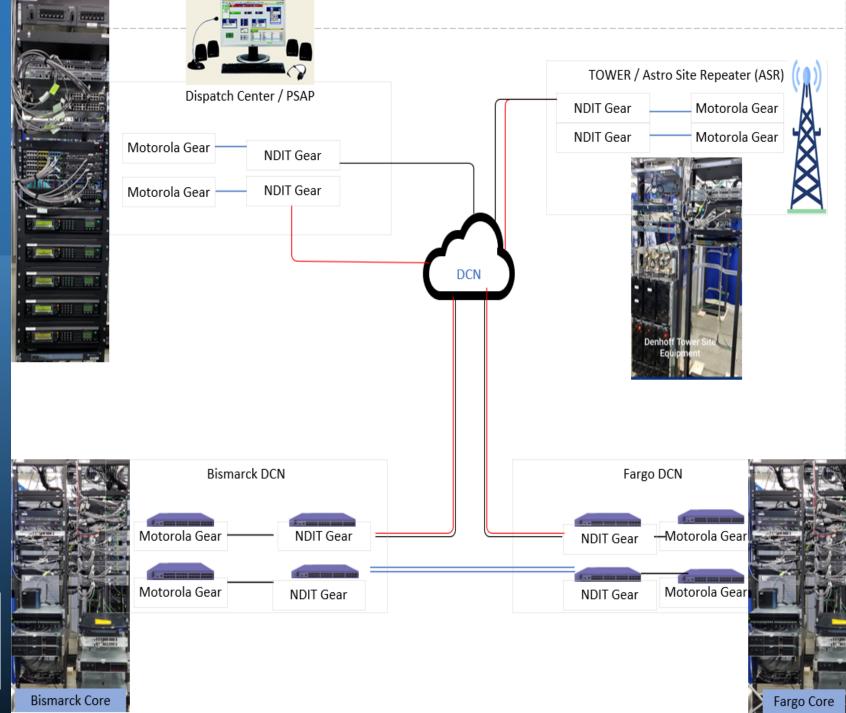
- Phase 1: Backhaul and PSAP Console Replacement
- Phase 2 Group 1: Radio Frequency (RF)
 Buildout for Mobile (In-Car Radio) Coverage to include Simulcast Early Adopter Locations
 Phase 2 Group 2: Radio Frequency (RF)
 Buildout for Portable (Handheld Radio)

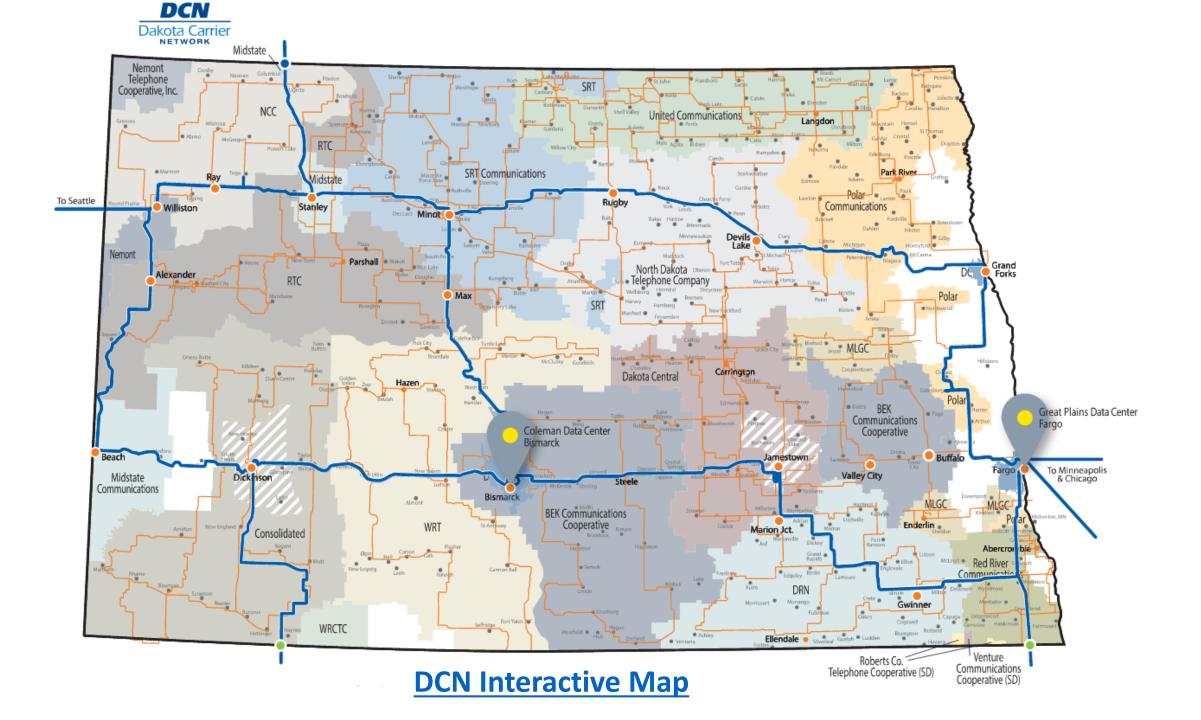


Phase 1 -Backhaul / Networking Design











<u>Phase 1 - Console</u> Replacement

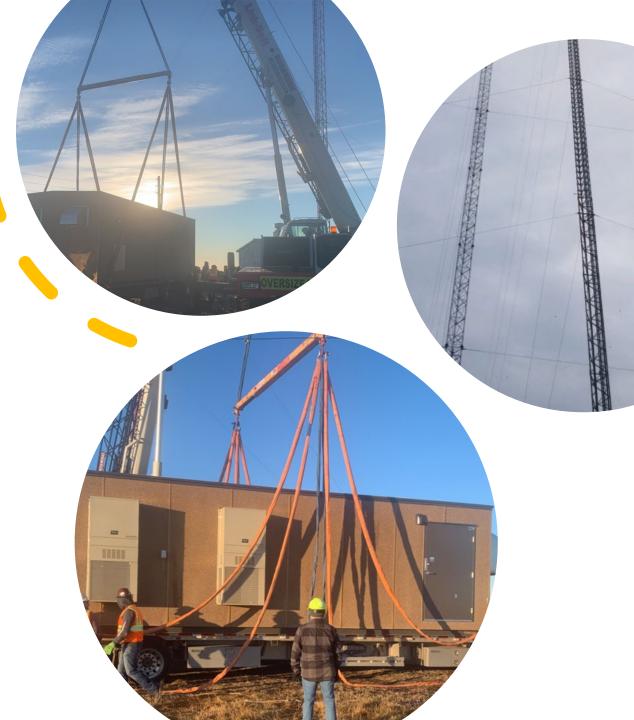
• By December 2021, 75% of Dispatch Centers on the new Motorola MCC 7500E Consoles compatible to transmit 800Mhz and VHF

Grand Fo	rks	Williston
Minot		Cavalier/Towner
Stutsman	1	Bottineau/Renville
Barnes		Dickinson
Richland		CenCom
Mountrai	il	MHA – Three Affiliate
McKenzie	2	Lake Region
Walsh		McLean

- Remaining 5 Dispatch Centers (Pembina, Traill/Steele, Rolette, Mercer/Oliver, & Pierce) to be scheduled 2022
 - State Radio to transition in 2024

Phase 2 – Radio Frequency (RF) Build Out Mobile (In-Car) Radio Coverage

- Group 1 of the Radio Frequency (RF) Buildout consists 82
 Tower Sites Currently 67% complete
 - Group 1 Towers (RF) will provide 95% Coverage by Region with 95% reliability
 - This Phase includes the early adopter locations which provide Mobile & Portable Coverage
 - Williston Simulcast / Williams County
 - Grand Forks Simulcast
 - Minot Simulcast
 - Bismarck/Mandan Simulcast and Burleigh County
 - Approximately 50% of these sites are DOT locations
 - Approximately 30 sites are new tower builds on the same location as the old DOT towers
 - Several are also getting new shelters
 - Remainder are lease site locations
 - Site leases are either political subdivisions or private leases



Civil Work / Site Work

Whether a lease site or state-owned site, much of the work is similar.

- Site Analysis Structural Analysis Geo Study & Analysis Local Permitting Federal Cultural Review Site Drawings Construction Drawings Civil Work
- Tower Base
- Guy Wire Anchor Pad
- Shelter Pad
- Ground Ring
- Fiber Connectivity
- Site Electrical Work

Concrete Testing Tower Construction Antenna and Lines Shelter Work

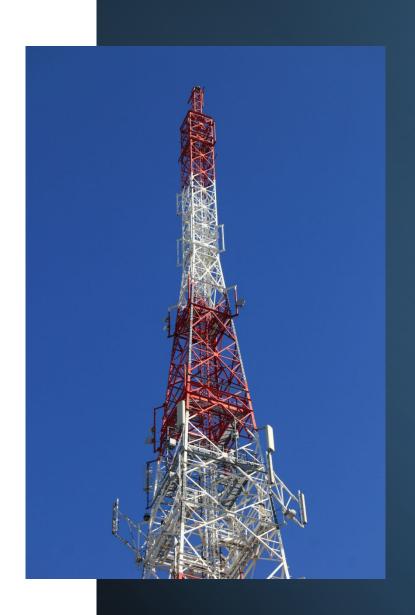
- Power Termination
- Network Connectivity
- SIRN Gear Installation
- Site Monitoring Inspection(s)
- Site Optimization (tuning) Radio Frequency Testing More Inspections Final Site Review / Approval

Site is Operational



Phase 2 – Group 2: Radio Frequency (RF) Build Out Portable (Handheld) Radio Coverage

- Group 2 of the Radio Frequency (RF) Buildout consists approx. Approximately 58 additional Tower Sites
 - This Phase will provide 85% Coverage by Region with 95% reliability
 - This phase will fill in the areas between the sites in Group 1 Mobile (In-Car) Coverage
 - Most of these sites are lease sites
 - Sites will get a shelter
 - Antenna and Line work
 - Some sites allow for colocation within the owner's shelter





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could be out months and think

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The Buildout as a Whole

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SIRN2020.ND.GOV

Project Status Reporting

SIRN 20/20

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

SIRN2020.nd.gov

MOTOROLA SOLUTIONS

State of North Dakota

SIRN 2020 Status Update August 30, 2021





Status Report explained

Radio Frequency (RF) Phase Status

- Each Phase has groups of towers being worked on at any given time
- Each group of towers can be at various stages at any given time
 - Planning / Site Walks
 - Lease Acquisitions / Negotiations / Legal Reviews / Execution
 - Site Review/Site Walks
 - Civil Work
 - Permitting
 - Cultural Reviews (NEPA)
 - Geo Testing
 - Structural Analysis of the existing towers
 - Lease Exhibits / Site Drawings for review
 - Construction Drawings & Review & Approval
 - Notice to Proceed (NTP)
 - Order tower steel, shelter, antennas, lines, power supply, network / fiber construction (backhaul), site monitoring



- Breaking Ground
 - Site Preparation for Large Vehicles
 - Tower Base Construction / Concrete / Testing
 - Guy Wire Anchor Base Construction / Concrete / Testing
 - Shelter Pad Construction / Concrete / Testing / Ground Ring
 - Electrical Service
 - Fiber / Connectivity Service
 - Curing Period for all Concrete
- Tower Construction
 - Delivery of tower steel, anchors, guy wire, antenna, lines/coax, etc.
- Shelter Delivery
 - Crane lift shelter to the shelter pad and anchoring
 - Power termination
 - Installation of Radio Frequency (RF) gear
 - Monitoring
 - Testing (Monitor, Generator, Radio Frequency (RF), HVAC,

Several 1000's of tasks in the schedule

Simulcast Areas and Drive Tests

Simulcast Areas

• Saturation of Towers around Metro Areas which provide In-Building Penetration

Drive Tests

 Motorola Team(s) Drive the target area with Radio Signal Measuring Devices in grid squares on established roads

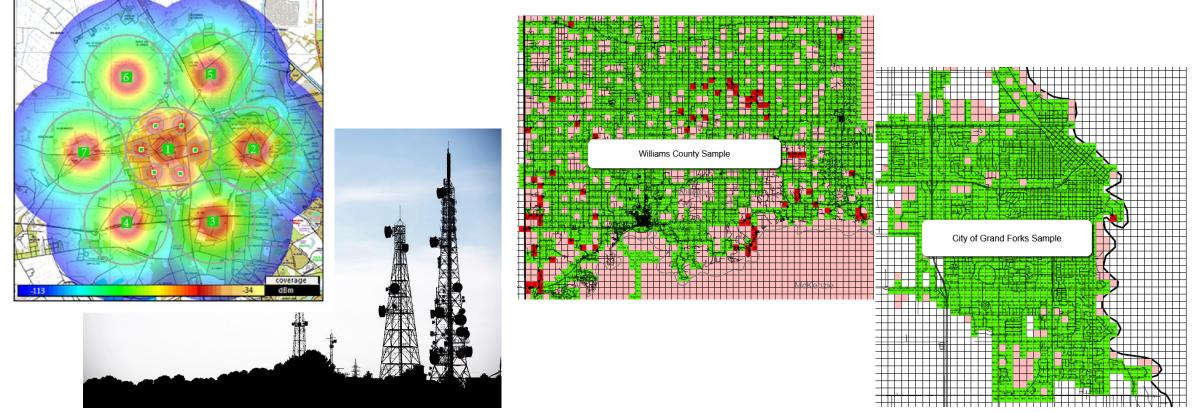
NORTH DAKOTA

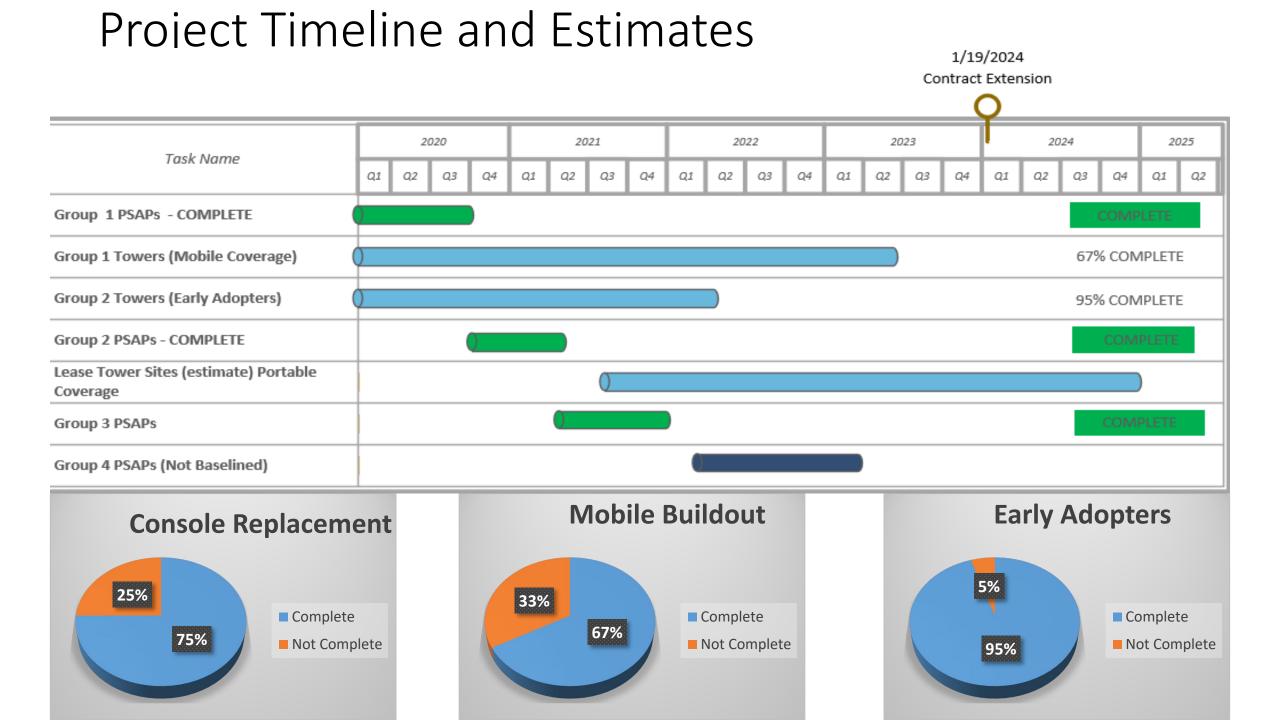
STATEWIDE

INTEROPERABLE

RADIO NETWORK

• Produces a final City or County Report





Transition to the SIRN 800Mhz System

WASHINGTON

VOLUME

M MOTOROLA

2 ARC 3 DEF 5 ML 6 MND

7 PORS 8 TUV

900

0

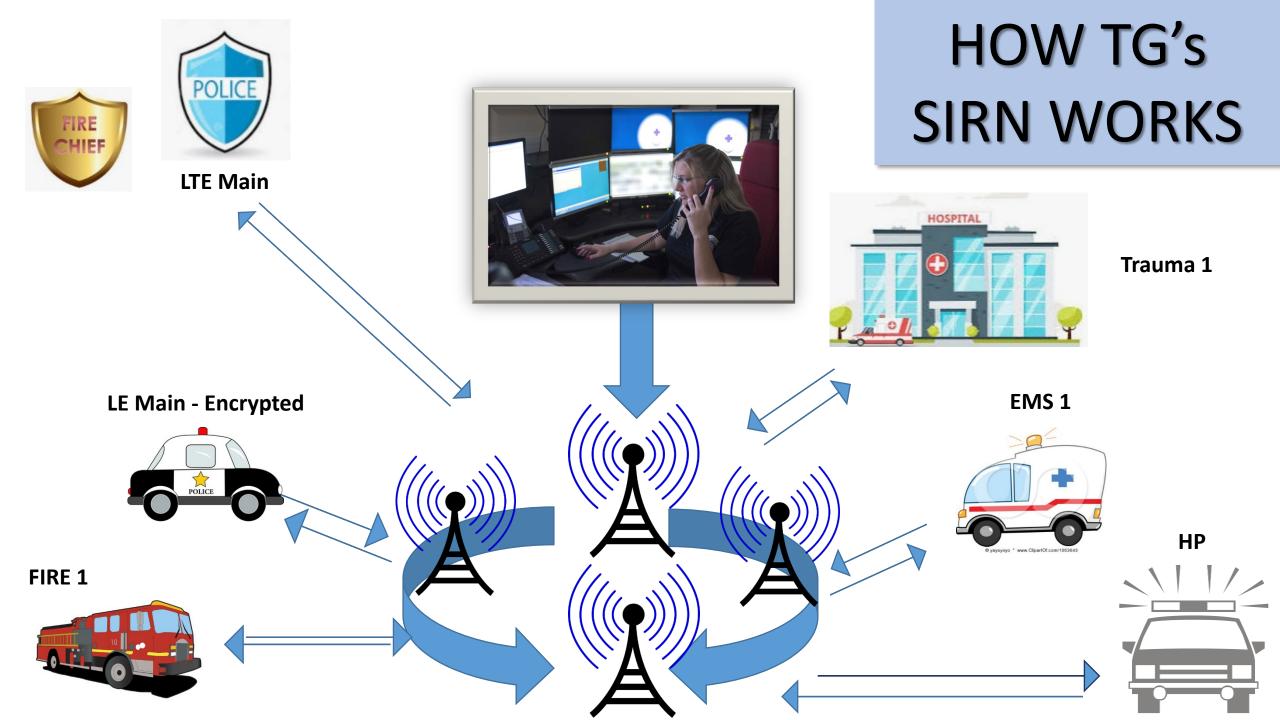
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Channels versus Talkgroups

A Talkgroup is a defined group of subscribers that have the necessary permissions to communicate together on a trunked radio system. To access a talkgroup a subscriber must have permission to access that talkgroup as well as a valid encryption key (if the talk group is encrypted)

> Fleetmaps which contain the talkgroups can be structured along geographic, discipline, functional, agency, and other criteria. Each talkgroup has geographic boundaries that define which towers it can be utilized on.



City	Agency Name	Prefix #	Sort T	START TG ID	TG ID	DUP	TG Full Name	TG Name (14- CHAR)	•
	Sheriffs Office	51	1	51000	51101	1	SHERIFF MAIN	SO MAIN E	5
	Sheriffs Office	51	3	51000	51103	1	SHERIFF OPS 1	SO OPS 1E	5
	Sheriffs Office	51	4	51000	51104	1	SHERIFF OPS 2	SO OPS 2E	5
	Sheriffs Office	51	5	51000	51105	1	SHERIFF OPS 3	SO OPS 3E	5
	Sheriffs Office	51	6	51000	51106	1	LE PURSUIT	LE PURSUIT	5
	Sheriffs Office	51	7	51000	51107	1	SHERIFF OPS FAIR	SO OP FAIRE	5
	Sheriffs Office	51	8	51000	51108	1	SHERIFF SP OPS	SO SP OPSE	5
	Multi	51	10	51000	51110	1	WCNTF (BCI)	WCNTF_BCI E	5

Fleetmap Sessions with PSAPs

- Naming Sessions with PSAPs
- Naming Sessions with responding agencies within the PSAP area
- Radio Layout Sessions

SIRN



Transitioning to the future

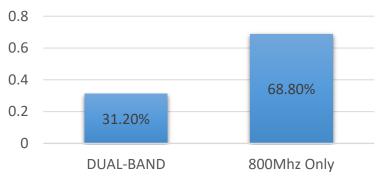
PSAPs Preparing to Transition to 800Mhz

- Fleetmaps and Meetings
 - A fleetmap is a list of talkgroups each PSAP and jurisdiction will have in the radios (think of them as channels).
 - 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
 - Then work begins on the Agency Radio Layout

Multi-band / Dual Band or 800 MHz only.....

- Large majority of agencies are installing Dual Band Mobiles and then 800Mhz Portables
- Questions to ask:
 - When are your neighbors transitioning?
 - Do your neighbors use State Radio Counties or Lake Region?
 - Options to overcome challenges
 - Side mount mobile, VHF portables, etc.
- 82 Site Mobile Coverage first, then fill in portable

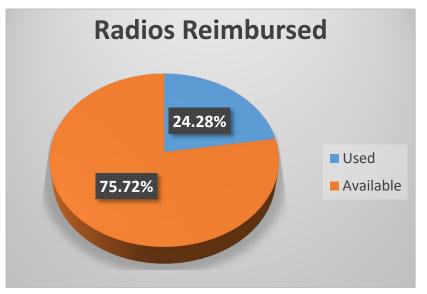
Percentage of Dual-Band Radios



PSAP Console Replacement



Radio reimbursement





≥2019 & 2021 Legislative Sessions provided funding for radios in HB 1435 & 1146

Anticipate most agencies will purchase radios in 2023-2024

- \$1,500 cost share per radio
 - Organized by Tiers
 - Must complete survey
 - ► Radios must be purchased between 4/2019-1/2024
 - ➤Agencies purchase approved radio
 - Submit receipts and proof of payment reimbursement

≻As of April 2022

4,856 Radios Submitted out of the 20,000 estimated (24.28%)
\$7.248M reimbursed out of \$30M available (24.16%)

SIRN Today Continued

Transitioning to the future



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 LAV 1	01 LAV 2	01 FIRE/EMS	01 LOCAL	01 LOCAL	02 LAV 1	2LAV2	02 FIRE/EMS	02 FIRE/EMS	03 STATE	03 STATE	03 STATE	04 Other	05	05	05 STATE		5 STATE 700	5 NAT'L 700	5 NAT'L	5 NAT'L	5 NAT'L
oni	UTIZ	0113	ULAN I	OILAW 2		GOV	MA	02 LAT 1	21442	1	2	LAV1	LAV2	F/EMS	04 Other	REGIONAL	REGIONAL	MA1	MA2	MA	MA1	700 MA2		
			HOME LE	HOME LE		HOME Local	Local MA	Adjacent LE		Adjacent Fire		State LE	State LE	State	Other/Misc.	Regional	Regional	Statewide	Statewide	Local	National MA		National	
					Fire_EMS	Govt		Tiajaoent EE		riajavener ne				Fire_EMS		Interop	Interop	MA	MA	Simplez	(700)	MA (700)		MA
							## CV LE MA1					00HP FG OPS1	SR 01LE BD	00_FS REG A		ND NV MA HAIL		ND MA HAIL	ND MA HAIL	7DIR1E	7CALL50	7CALL50_D		VCALL10
PURSUIT		PURSUIT					## CV LE MA 2					00HP JN OPS1	SR 01LE MV	00_FS REG B		ND NV PRSUIT		ND PURSUIT 1	ND MA 16	7DIR2E	7TAC51	7TAC51_D		VTAC11
	Reg. PURSUIT						## CV MA 3					00HP BK OPS1	SR 01LE M	00_FS REG C		ND NV MA 01E	ND NE MA 01E	ND PURSUIT 2	ND MA 17	7FIRE DIR1	7TAC52	7TAC52_D	8TAC92	VTAC12
	STATE PURSUI	T					## CV MA 4					00HP DK OPS1	SR 02 LE ANN	00_FS REG D		ND NV MA 02	ND NE MA 02	ND MA 03 E	ND MA 18	7FIRE DIR2	7TAC53	7TAC53_D	8TAC93	VTAC13
							## CV MA 5					00HP VN OPS1		00_FS REG E	Examples:	ND NV MA 03	ND NE MA 03	ND MA 04 E	ND MA 19	7DIR5	7TAC54	7TAC54_D	8TAC94	VTAC14
							## CV MA 6					00HP MT OPS1	SR 02 LE MPSW	00_FS REG F	Hospitals	ND NV MA 04	ND NE MA 04	ND MA 05 E	ND MA 20	7DIR6	7TAC55	7TAC55_D	8CALL90_E	VFIRE21
												00HP DL OPS1		00_FS REG G	NEDOT	ND NV MA 05	ND NE MA 05	ND MA 6	ND MA 21	7DIR7	7TAC56	7TAC56_D	8TAC91_D	VFIRE22
												00HP GF OPS1		00_FS REG H	PtiR	ND NV MA 06	ND NE MA 06	ND MA 7	ND MA 22	7DIR8	7GTAC57	7GTAC57_D	8TAC92_D	VFIRE23
												00BCI BK OPS1			Game&Fish	ND SV MA HAIL	ND SE MA HAIL	ND MA 8	ND MA 23	7DIR9	7M0B59	7M0B59_D	8TAC93_D	VFIRE24
												00BCI DK OPS1		00_DOH OPS1	DOH	ND SV PRSUIT	ND SE PRSUIT	ND MA 9	ND MA 24	7DIR10	7LAW61	7LAW61_D	8TAC94_D	VFIRE25
												00BCI VN OPS1		00_DOH OPS 2	BCI	ND SV MA 01E	ND SE MA 01E	ND MA 10	ND MA 25		7LAW62	7LAV62_D		VFIRE26
														00_DOH OPS 3	Federal Agencies	ND SV MA 02	ND SE MA 02	ND MA 11	ND MA 26		7FIRE63	7FIRE63_D		VMED28
														00_DOH OPS 4		ND SV MA 03	ND SE MA 03	ND MA 12	ND MA 27		7FIRE64	7FIRE64_D		VMED29
	Regional Hail													00_DOH OPS 5		ND SV MA 04	ND SE MA 04	ND MA 13	ND MA 28		7MED65	7MED65_D		VLAW31
Simplex/Dire	State Hail													00_DOH OPS 6		ND SV MA 05	ND SE MA 05	ND MA 14	ND MA 29		7MED66	7MED66_D		VLAW32
																ND SV MA 06	ND SE MA 06	ND MA 15	ND MA 30		7DATA69	7DATA69_D		SAR NEM
																						_		
RG varies by	Typically one											Varies BY RE	GION, STAFF T	YPE, Agency										
-	home zone is			Can cons	olidate into sin	gle bank		Add banks as	necessary; alt	ernatively, can		MOUs;					Iniform on all	State and Loc	al SIDN Device	-				
			Can consolidate into single bank					have banks larger than 16 TGs								Uniform on all State and Local SIRN Devices								
SE, SW, NW)	adequate							ABOVE											′					

SIRN



STATEWIDE **INTEROPERABLE RADIO NETWORK**

NORTH DAKOTA

Transitioning to the future

OH1	OH2	OH3	01 LA¥ 1	01 LA¥ 2	01 FIRE/EMS	01 LOCAL GO¥	01 LOCA MA	L O	2 LAV 1	2LAV2	02 F	IRE/EMS (2 FIRE/EMS	03 STATE LAVI	03 STATE LAW2	03 STATE F/EMS	04 Other
			HOME LE	HOME LE	Home Fire_EMS	HOME Local Govt	Local M	A Ad	jacent LE		Adja	cent Fire		State LE	State LE	State Fire EMS	Other/Misc.
							## CVILE N	4A.1						00HP FG OPS1	SR 01LE BD	00 FS REG A	
PURSUIT	PURSUIT	PURSUIT					## CV LE M	4A 2						00HP JN OPS1	SR01LE MV	00 FSREGB	
	Reg. PURSUI						## CV MA	A 3						00HP BK OPS1	SR 01LE M	00 FS REG C	
	STATE PURSU	דוע					## CV MA	۹4						00HP DK OPS1	SR 02 LE ANN	00 FSREGD	
							## CV MA	A 5						00HP WN OPS1	SR 02 LE BRR	00_FSREGE	Ezamples:
			## CV MA	A 6						00HP MT OPS1	SR 02 LE MPSW	00_FS REG F	Hospitals				
														00HP DL OPS1		00_FS REG G	NEECT
														00HP GF OPS1		00_FSREGH	PåR
														00BCI BK OPS1			Game&Fish
														00BCI DK OPS1		00_DOH OPS1	DOH
														00BCI WN OPS1		00_DOH OPS 2	BCI
																00_DOH OPS 3	Federal Agencies
								05	05 ST/	ATE 05	STATE	5 NAT	'L 5 NAT'	L 5 NAT'L	5 NAT'L	DOH OPS 4	
	Regional Hail						RE	GIONAL	. MA	1	MA2	700MA	1 700MA	2 800 \M A	VHF MA	0_DOH OPS 5	
Simplex/Dire	e State Hail						B	egional	States		atewide	National					
								nterop	MA	-	MA	(700)		(800)	MA (YHF		
	-						ND N	IV MA HA	AIL ND MA	HAIL NO	MAHAIL	7CALL5	50 7CALL50	D 8CALL90	VCALL10		
							ND N	IV PURSU	JIT ND PUR	SUIT1 N	D MA 16	7TAC5	51 7TAC51_	D 8TAC91	VTAC11		
							ND.	NV MA 0	1 ND PUR	SUIT 2 N	D MA 17	7TAC5	2 7TAC52	D 8TAC92	VTAC12		
		ND	NV MA 0	2 ND MA	.03E N	D MA 18	7TAC5	3 7TAC53_	D 8TAC93	VTAC13							
	• Kad	\mathbf{n}	lkgrc	nin L		tc	NDI	NV MA 0	3 ND MA	.04 E N	D MA 19	7TAC5	4 7TAC54_	D 8TAC94	VTAC14		
	 Rad 		ungit	up L	.ayuu	LJ	NDI	NV MA 0	4 ND MA	.05 E N	D MA 20	7TAC5	5 7TAC55_	D 8CALL90_	D VFIRE21		
			U	•	-		ND	NV MA 0	5 ND M	A6 N	D MA 21	7TAC5	6 7TAC56	D 8TAC91 D) VEIBE22		

• State minimums on all radios

										0	UBCI DK OPSI			00	_00	
										00	0BCI VN OPS1			00		
															00	
	05		05 ST/	ATE	05 ST/	ATE	5 NA	T'L	5 NA	L.I		5 NAT'L		5 NAT'L	10	
	REGIO	NAL	MA1		MA2		700MA1		700MA2			800\MA		VHF MA	\ 0_D	
	Regional		States	ride	States	ride	Nationa	I MA	National MA			National M	IA	National	0	
	Interop		MA	ι	MA	۱. I	(700	յ	(700	ŋ		(800)		MA (VHF)		
	ND NV M	IA HAIL	ND MA	HAIL	ND MA	HAIL	7CAL	L50	7CALL5	50_D		8CALL90		VCALL10		
	ND NV P	JRSUIT	ND PUR	SUIT 1	ND M	A 16	7TA0	051	7TAC5	1_D		8TAC91		VTAC11		
	ND NV I	MA 01	ND PUR	SUIT 2	ND M	A 17	7TAC	:52	7TAC5	2_D		8TAC92		VTAC12		
	NDINVI	MA 02	ND MA	03 E	ND M	A 18	7TAC	:53	7TAC5	3_D		8TAC93		VTAC13		
	NDINVI	MA 03	ND MA	04 E	ND M	A 19	7TAC	:54	7TAC5	4_D		8TAC94		VTAC14		
	NDNVI	MA 04	ND MA	05 E	ND M/	A 20	7TAC	55	7TAC5	5_D		8CALL90_0	D	VFIRE21		
	NDNVI	MA 05	ND M	A 6	ND M.	A 21	7TAC	:56	7TAC5	6_D		8TAC91_D)	VFIRE22		
	NDNVI	MA 06	ND M	A7	ND M/	A 22	7GTA	C57	7GTAC	57_C)	8TAC92_E)	VFIRE23		
	NDSVM	A HAIL	ND M	A8 -	ND M/	A 23	7MOE	359	7M0B5	69_D	I	8TAC93_E)	VFIRE24		
	ND SV P	JRSUIT	ND M	A9	ND M/	A 24	7LAV	/61	7LAW6	1_D		8TAC94_E)	VFIRE25		
	NDSVN	4A 01E	ND M.	A 10	ND M/	A 25	7LAW	/62	7LAV6	2_D				VFIRE26		
	NDSVI	MA 02	ND M	A 11	ND M/	A 26	7FIRE	E63	7FIRE6	3_D				VMED28		
	NDSVI	MA 03	ND M	A 12	ND M/	A 27	7FIRE	E64	7FIRE6	4_D				VMED29		
	NDSVI	VIA 04	ND M.	A 13	ND M/	A 28	7MED	065	7MED6	5_D				VLAW31		
	NDSVI	MA 05	ND M.	A 14	ND M/	A 29	7MED	066	7MED6	6_D				VLAW32		
	NDSVI	MA 06	ND M.	A 15	ND M/	A 30	7DAT	A69	7DATA	69_D)			SAR NEM		
															Ľ	

SIRN HISTORY CONVENTIONAL VS TRUNKING



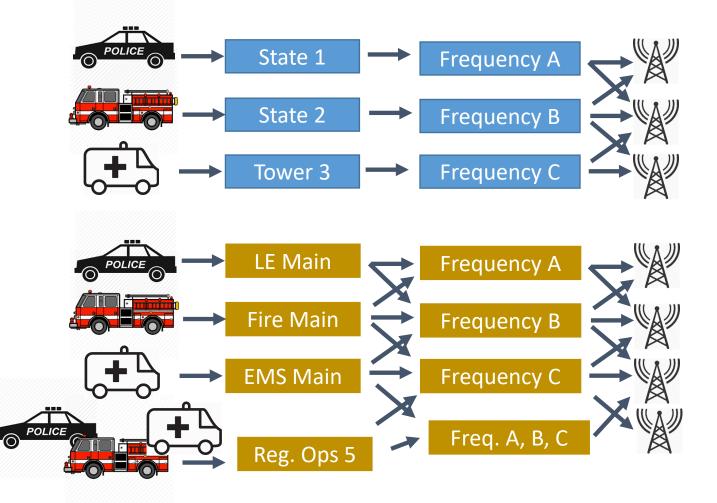
NORTH DAKOTA STATEWIDE INTEROPERABLE RADIO NETWORK

Conventional Radio System:

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

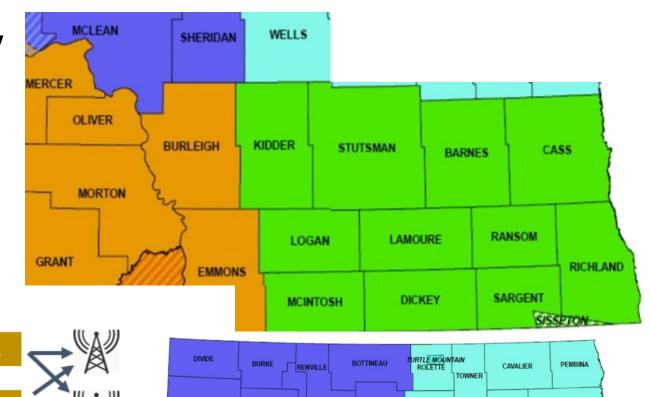
Trunked Radio System:

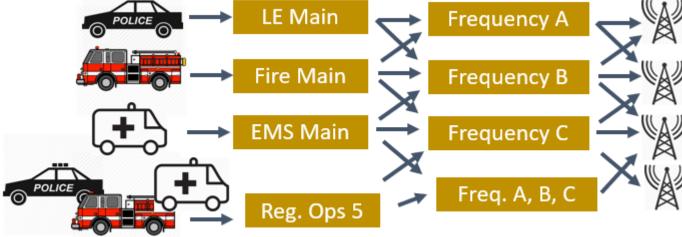
- User chooses a specific talk group
- Assigned to a specific purpose
- Not bound to a frequency
- Not bound to a specific set of towers
 - System programmable
- Can be local, county, regional, state, federal

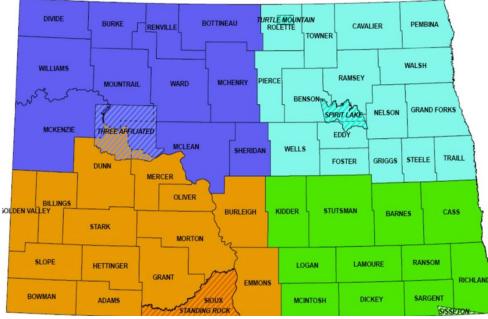


Talkgroups are organized by coverage area as follows:

- Simulcast
- County Plus+
- Regional
- Statewide

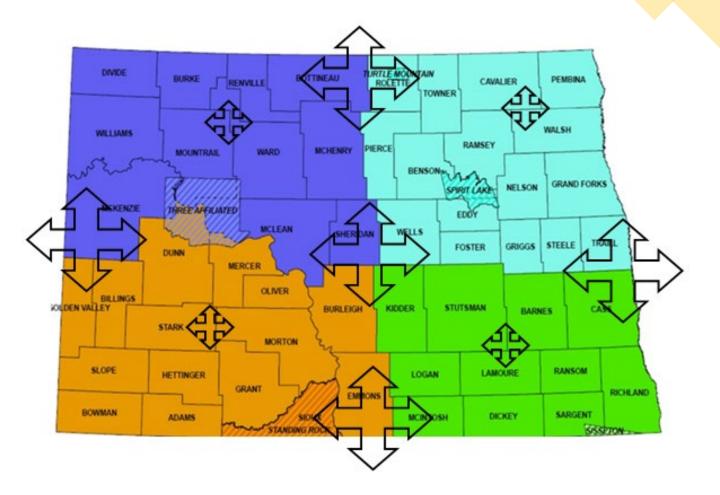






- County to County Interoperability CW MA 3 & CW MA 4 will be shared with adjacent counties to provide county to county interoperability
- Interoperability with Minnesota (MN) use consolettes to consume each other's regional mutual aid talkgroups. This will be achieved by consolettes on each side of the Red River to consume each other's Regional Hailing talkgroups. There are also PSAP to PSAP interoperability agreements in place for Grand Forks/East Grand Forks along with Fargo/Moorhead.
- Interoperability with South Dakota (SD) once South Dakota's system is upgraded we will do the same as MN. However, until then dual-band radios can be used as well as control channel gateways at strategic sites to aid in interoperability. This will be a combination of the two processes until North Dakota's SIRN system is complete. Counties will still be able to talk to SD on dual-band radios or combination of 800MHz or side mounts as discussed in area and county responder meetings
- Interoperability with Montana (MT) Since Montana is fragmented like ND is today, interoperability will be achieved via control channel gateways at strategic sites. MT is in the process of a new radio project too. However, they are years away. So currently in Williams County there is a gateway at Grenora to achieve interoperability with Richland & Roosevelt Counties and responders. We will do a similar thing with the State Radio dispatched Counties. As we prepare to transition, we will be in communications with MT SWIC, MT Highway Patrol, and local jurisdictions as we approach ND State Radio's cutover and transition.
- Interoperability with Canada Manitoba will be much like MN and SD yet to be determined. Saskatchewan will be more like MT also yet to be determined as our Western Boarder Conference has been postponed the past two years
- Simplex/Car to Car old VHF VLAW, VMED, etc. all have federally licensed 7-800MHz versions of these channels for use which are listed in the Minimum Programming Standard

Interoperability with Neighboring Agencies



SIRN

SOLUTION



- 800 MHZ Frequency Band
- Project 25 Technology
- 99.999 Reliable is the national standard for public safety communications hardware
- Hardware Meeting Standards Usable on SIRN System



- Guaranteed Coverage
 - 95% Mobile Coverage
 - 85% Portable Coverage
- Addresses End of Life & End of support of Equipment
- Future Integration with LTE & Wi-Fi Technology
- Guaranteed System Support for 25 years



SOLUTION - 800 MHZ SYSTEM



- 140 Tower Sites
- Better In-Building Penetration
- Reduces Congestion
- Open Spectrum No Channel Scarcity
- Lessens Interference
- Eliminates VHF Skip
- Lower Noise Floor
- Consistent Predictable Coverage

SIRN



NORTH DAKOTA STATEWIDE INTEROPERABLE RADIO NETWORK

GOVERNANCE & POLICY

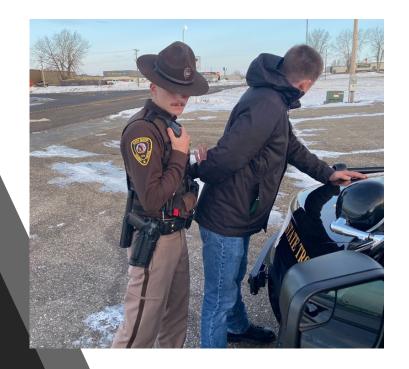
- SIEC Governance structure allows for INVOLVEMENT at all levels
- User involvement is critical to successful implementation of SIRN
- Workgroups developing standards which are then reviewed / approved by Subcommittee / SIEC
 - SIRN Standards Page
 - Governance Page



SIRN Today, Tomorrow and beyond

- SIRN 2020 into the future...
- Interoperability with MN, SD, Manitoba, Federal Agencies
- LTE Integration via Critical Connect / Smart Connect
 - NOT meant to replace Land Mobile Radio (LMR), but to augment
 - Cost savings to agencies which can use LTE Push to Talk
 - Mission Critical Push to Talk (MCPTT) over FirstNet & Verizon
- Centralized Logging Recording State & Regional LMR Talkgroups
- Over The Air Programming (OTAP)
- Over the Air Rekeying (OTAR)





Other SIRN Presentations

SIRN 101 Presentation

NDFA Meeting (February 2021)

<u>9-1-1- Association</u> <u>Meeting</u> (March 2021)

<u>Chief and Sheriff's Association</u> <u>Meeting</u> (May 2021)

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