



NORTH DAKOTA
**STATEWIDE
INTEROPERABLE
RADIO NETWORK**

SIRN 20/20 FEASIBILITY STUDY



**NORTH DAKOTA
STATEWIDE**
interoperability executive
COMMITTEE

PROGRAM TIMELINE

JULY 2015

JANUARY 2017

IDENTIFY,
BUILD &
ESTABLISH

STUDY &
REPORT

LEGISLATIVE
PRESENTATION

PLAN

IMPLEMENT

OPERATE

JANUARY 2016

DEFINE
&
PLAN

DATA COLLECTION
OUTREACH/CONFERENCES
REQUIREMENTS
MARKET ASSESSMENT

DESIGN &
DEVELOP

INITIAL REPORT,
RECONCILE & RESOLVE

FINALIZE &
REPORT

APRIL
2016

MAY
2016

JUNE
2016

AUGUST
2016

DECEMBER
2016



...BY THE NUMBERS



NORTH DAKOTA STATEWIDE
interoperability executive
COMMITTEE



200+ Towers



70 - 120 Water Towers



100s Building Antennas and Other Utility Post Mounted

Structure Type (Above 60')	Qty.	Leased	Owned	Unk
Radio Towers	208	80**	99	29
Water Towers	57	4	53	
Building-Mounted	26	6	14	6
Others	4	2	0	2
Structure Type Unknown	18	1	1	16
TOTAL*	313	93	167	53

*ASSUMING WATER TOWERS ARE MUNICIPALITY OWNED; HOWEVER, IN MOST CASES IT IS OWNED BY THE UTILITY/WATER AUTHORITY AND LEASED BY PUBLIC SAFETY

** STATE RADIO TOWERS ASIDE, AT THE LOCAL LEVEL, THE MAJORITY OF ACTUAL TOWERS ARE LEASED

PSAP	County/Entity	Manufacturer	Model	Qty	Purchase Date	End of Life Date
Barnes County Dispatch	Barnes County	Motorola	Gold Elite	3		Dec-18
Bottineau/Renville County PSAP	Renville	Zetron		2		
Burleigh County CC	Burleigh	Motorola	Gold Elite	8	2002 (CEB older)	Dec-18
Cavalier County Sheriffs Office	Cavalier	Telex	Vega	3		
Dunn E9-1-1	Dunn	Unk	Unk	Unk	Unk	Unk
Grand Forks County Psap	Grand Forks	Motorola	Centracom Elite	4	1997	Dec-18
Lake Region 9-1-1	Ramsey	Zetron	3200	3	Mar-05	
McLean County Sheriff	McLean	Zetron	Zetron Max	2	Jul-15	Jul-25
Mercer Oliver Combined Communications	Mercer	UNK	UNK	2		
Minot City - Ward County	Ward	Motorola	MCC 5500	3		
Morton County Communications	Morton	Zetron		3		
Mountrail County Sheriff	Mountrail	Unk	Unk	Unk	Unk	Unk
North Dakota State Radio Communications	State	Zetron	Unk	8		
Pembina County 911	Pembina	Motorola	MCC 5500	2	4/1/2005	
Pierce County Sheriff	Pierce	UNK	UNK	2		
Red River Regional Dispatch Center	Cass	Motorola	Gold Elite	8		Dec-18
Richland County Communications	Richland	Motorola	Centra Com Elite	3	2004-2006	Dec-18
Stutsman County Communications	Stutsman	Motorola	Gold Elite	3	Dec-04	Dec-18
Trail - Steele County Sheriffs Office	Trail	UNK	UNK	3		Dispatch equipment is 15+ years old
Walsh County Communications	Walsh	Motorola	MCC5500	2		
Williams County 9-1-1	Williams	UNK		3		
Other	NDSU (Cass)	Motorola	MCC 5500	2		
Other	UND (Grand Forks)	Zetron		2	2014	

	Collected		Projected*		Total		TOTAL
	Mobile	Portable	Mobile	Portable	Mobile	Portable	
LE	1,346	2,203	116	130	1,462	2,333	12,341
FD-AMB	1,819	3,007	919	2,092	2,738	5,099	
OTH-PSAF	273	436	-	-	273	436	
TOTAL PUBLIC SAFETY	3,438	5,646	1,035	2,222	4,473	7,868	7,283
OTH-PSER	2,470	716	3,588	509	6,058	1,225	
TOTAL PUBLIC SERVICE	2,470	716	3,588	509	6,058	1,225	
GRAND TOTAL	5,908	6,362	4,623	2,731	10,531	9,093	19,624

PROJECTIONS BASED ON SEVERAL FACTORS INCLUDING GENERAL POPULATION, PUBLIC SAFETY POPULATION, VEHICLE COUNTS, FIRE/EMS STATIONS, ETC.



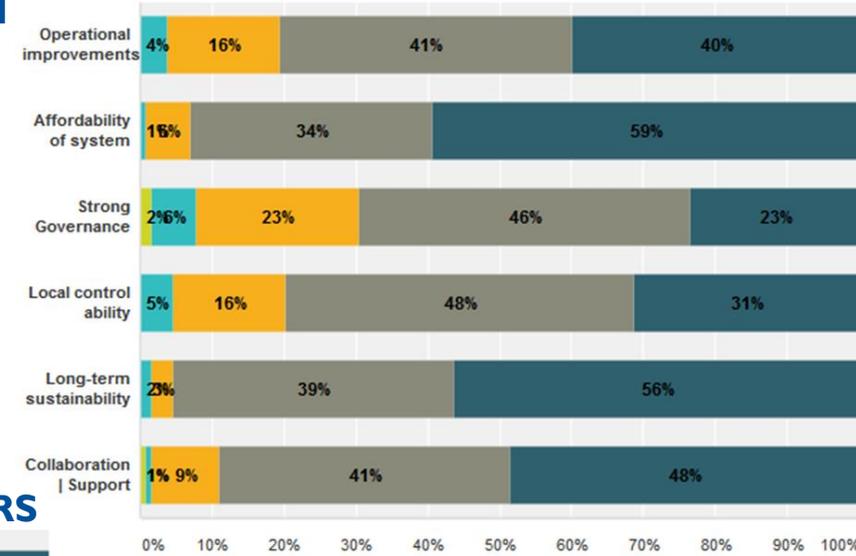
NORTH DAKOTA STATEWIDE INTEROPERABLE RADIO NETWORK

<http://www.siec.nd.gov>

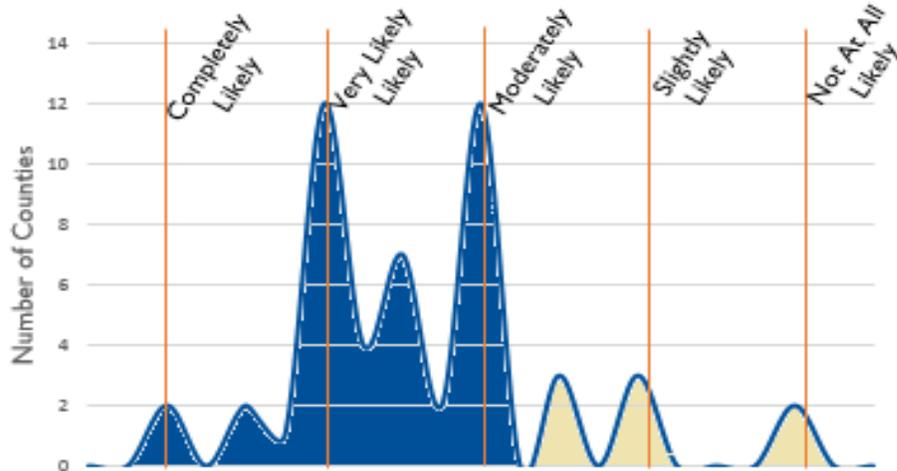
...FEEDBACK



KEY FACTORS



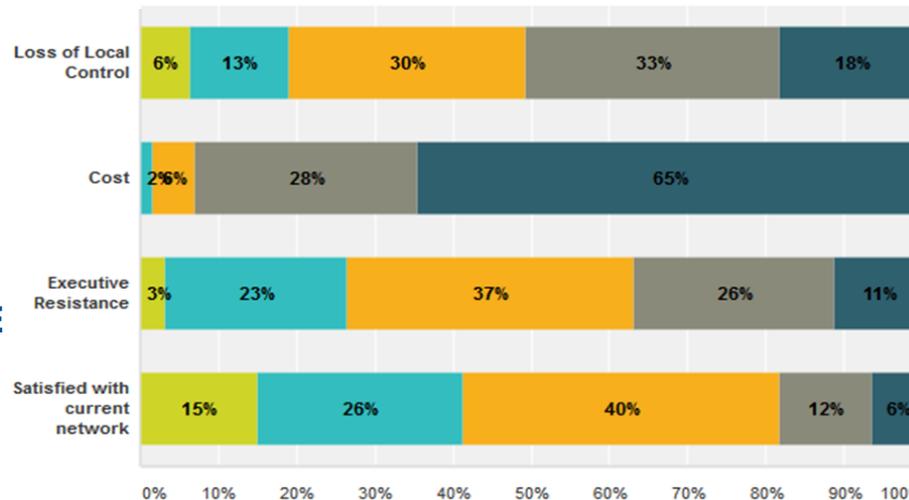
LIKELIHOOD OF SIRM PARTICIPATION



WHAT TO DO IN THE INTERIM

- USABLE**
- AFFORDABLE**
- COLLABORATIVE**
- SUSTAINABLE**

BARRIERS



MEASURE OF LOCAL CONTROL

STRONG GOVERNANCE

BETTER COVERAGE

ADDITIONAL PROCUREMENT AND TRAINING STANDARDS

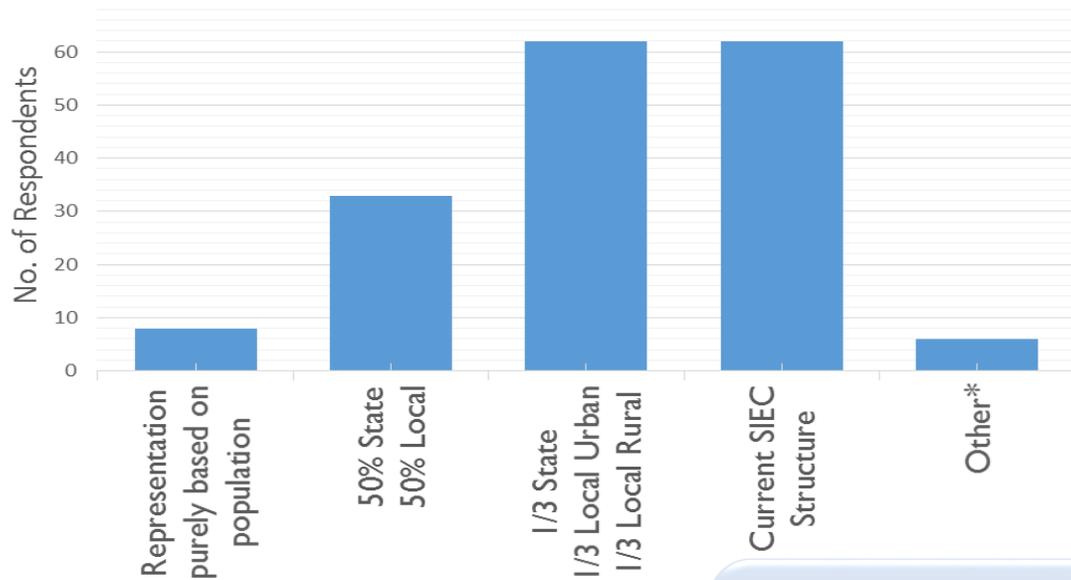
TRAIN WITH THE RADIO LIKE WE DO WITH OUR OTHER TOOLS



...GOVERNANCE



GOVERNANCE BODY COMPOSITION



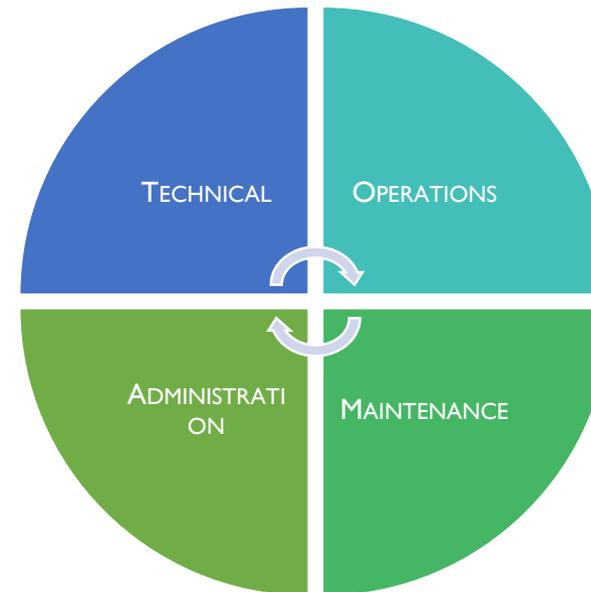
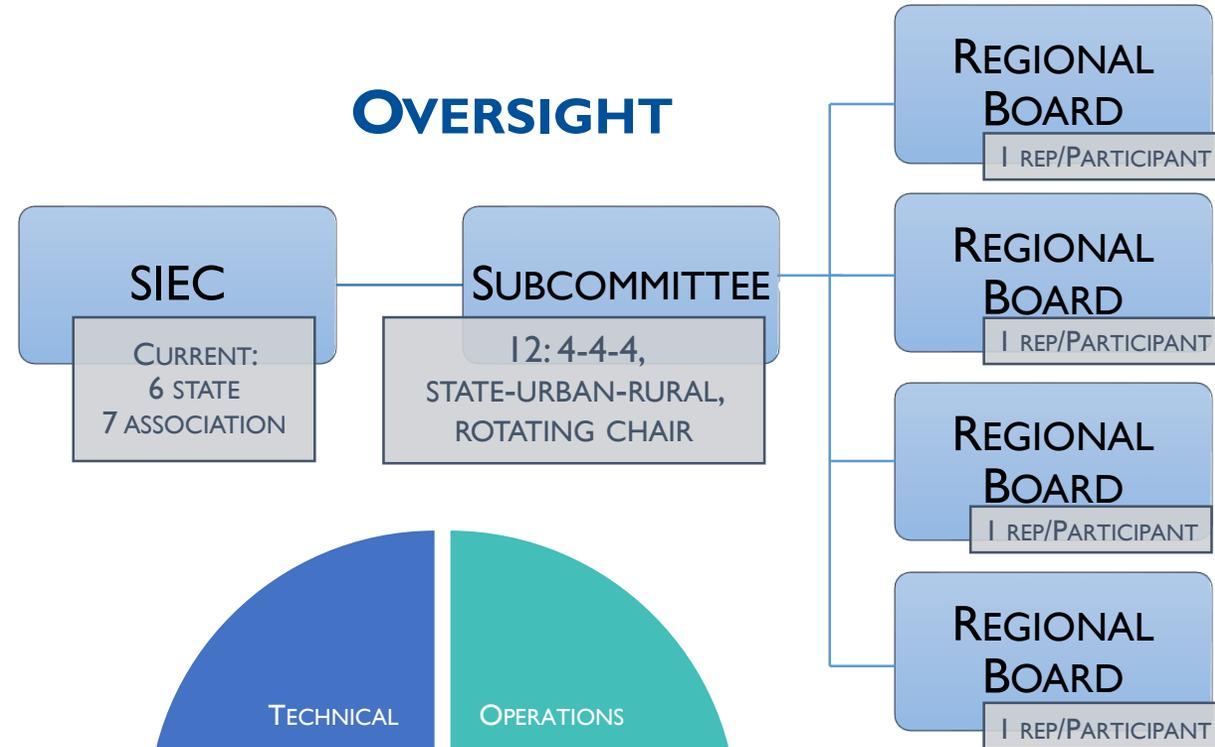
BALANCED

REPRESENTATIVE

INDEPENDENT

AUTHORITATIVE

OVERSIGHT



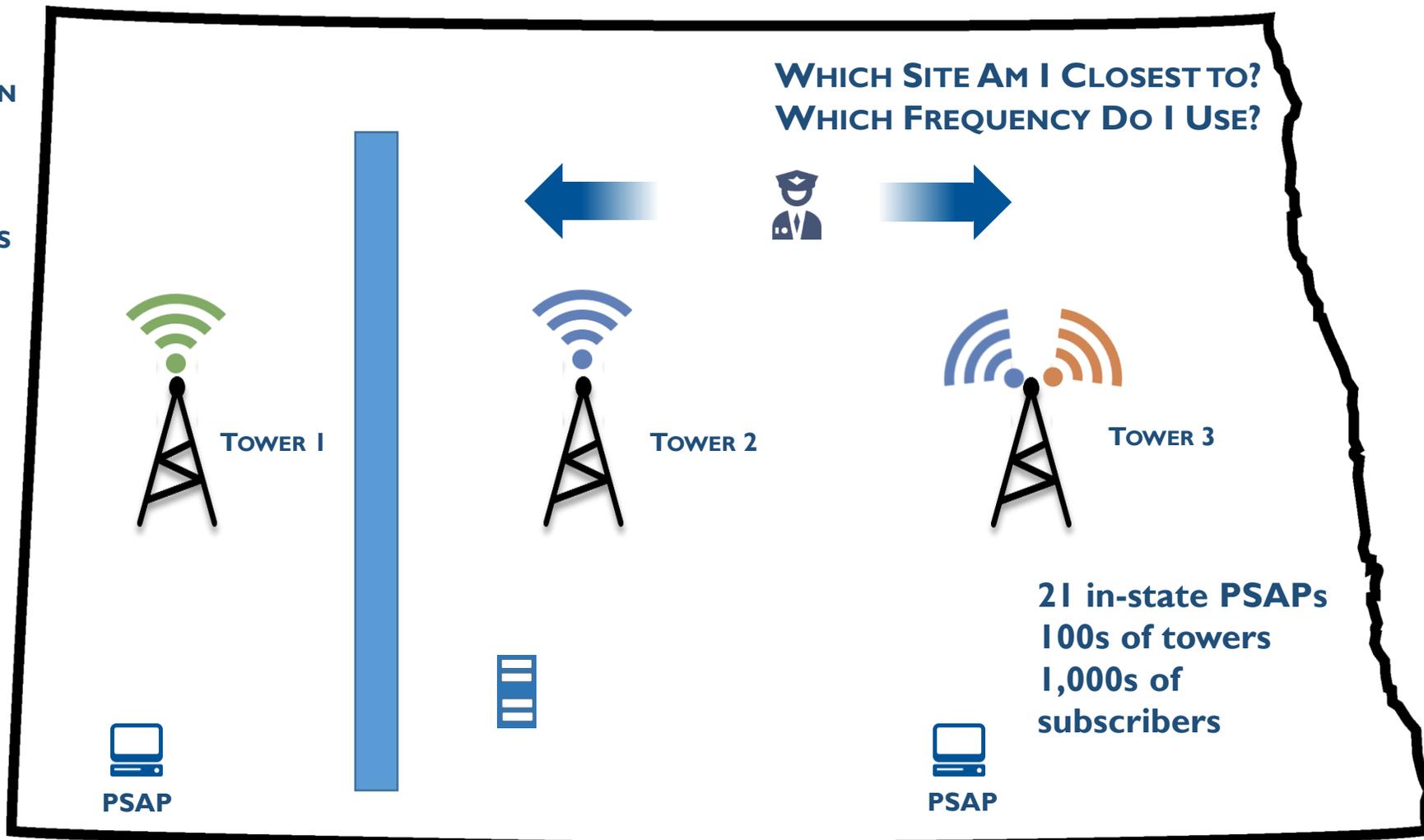
MANAGEMENT

SIRN 20/20



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- ❑ **CONSTANT AWARENESS OF LOCATION IN RELATION TO A SITE IS REQUIRED**
 - ❑ **BY DISPATCHERS**
 - ❑ **BY FIRST RESPONDERS**
- ❑ **LIMITED TRANSITION ACROSS REGIONS EXCEPT THRU MANUAL HANDOFFS**





I JUST NEED TO STAY ON MY TALKGROUP



TOWER 1



TOWER 2



TOWER 3



PSAP



PSAP

21 in-state PSAPs
100s of towers
1,000s of subscribers

- ❑ SWITCH KEEPS TRACK OF ALL SITES AND USERS ALLOWING SEAMLESS ROAMING ACROSS ENTIRE NETWORK
 - ❑ 22 PSAPs INTEGRATED AND INTEROPERABLE
 - ❑ TOWERS, SUBSCRIBERS MAINTAIN COMMS WITH DISPATCH

SCENARIO BUILD

MUTUAL AID

MULTI-ALARM FIRE

OFFICER UNDER DURESS

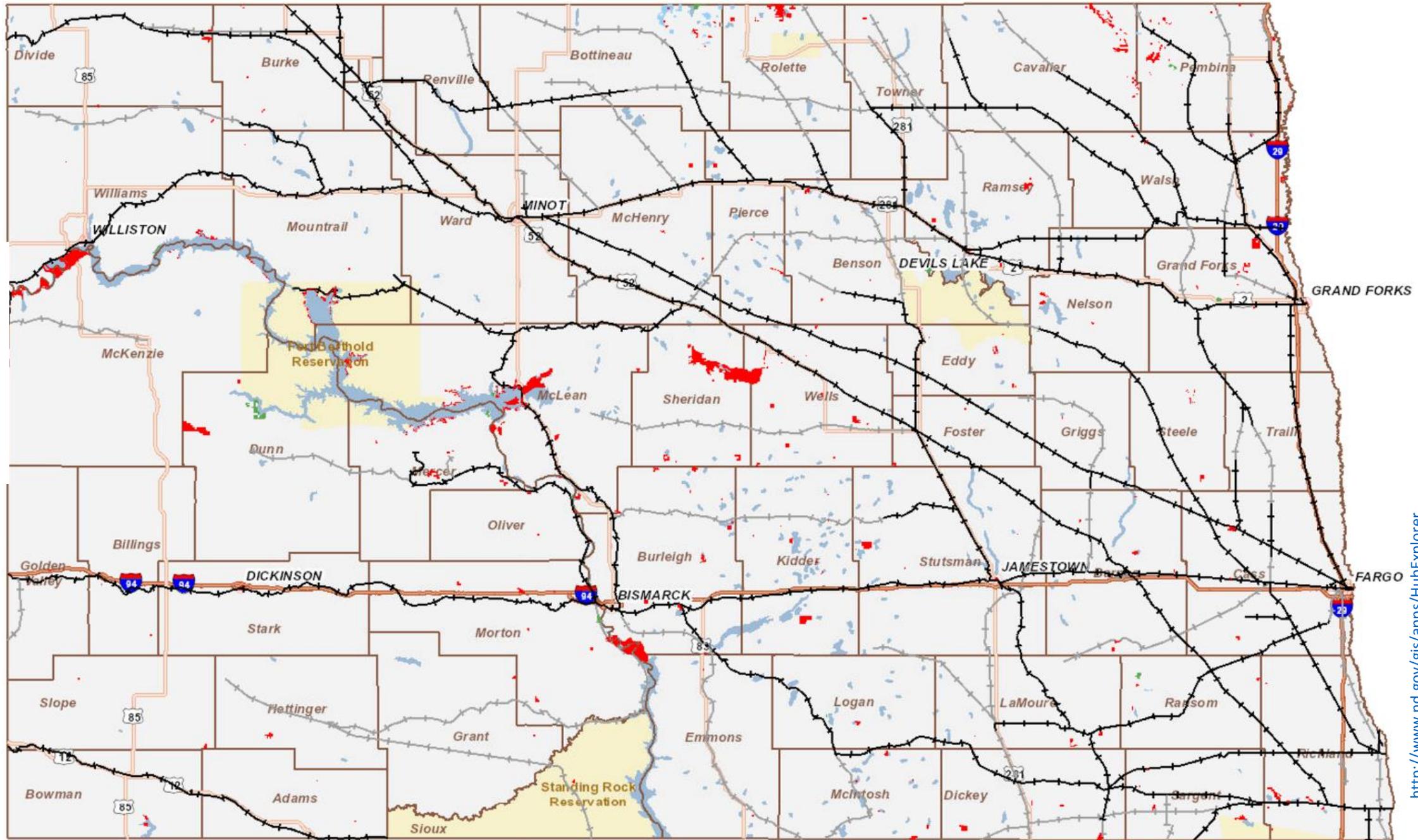


TASK FORCE (AD HOC/TEMP.)

NATURAL DISASTER

ACTIVE SHOOTER





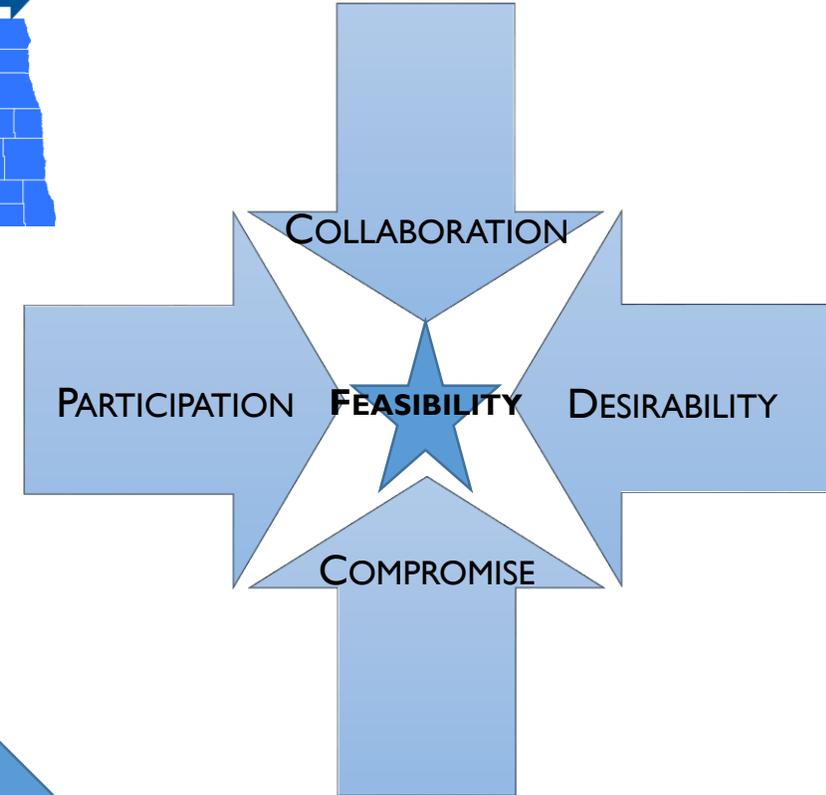
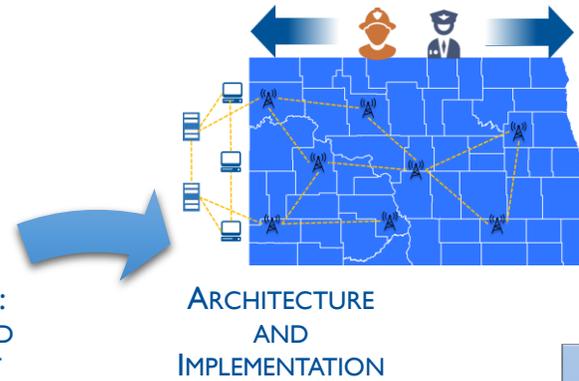
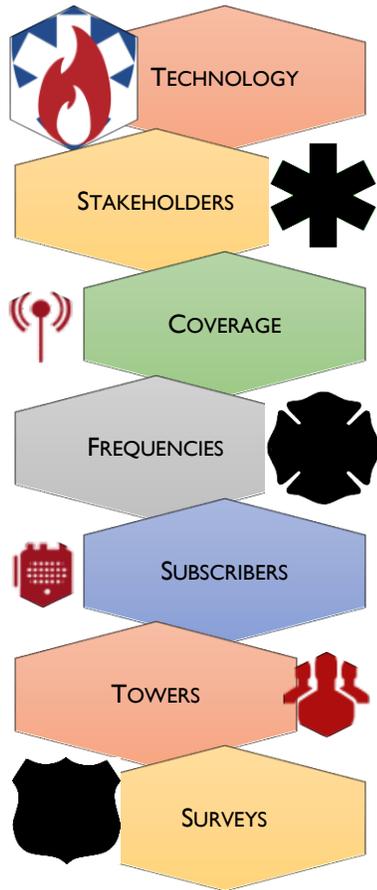
- Transportation**
- Railroads
 - Abandoned Railroad
 - Active Railroad
- State Lands**
- State Forest
- State Parks
- Wildlife Management Areas



IN JUNE/JULY/AUGUST



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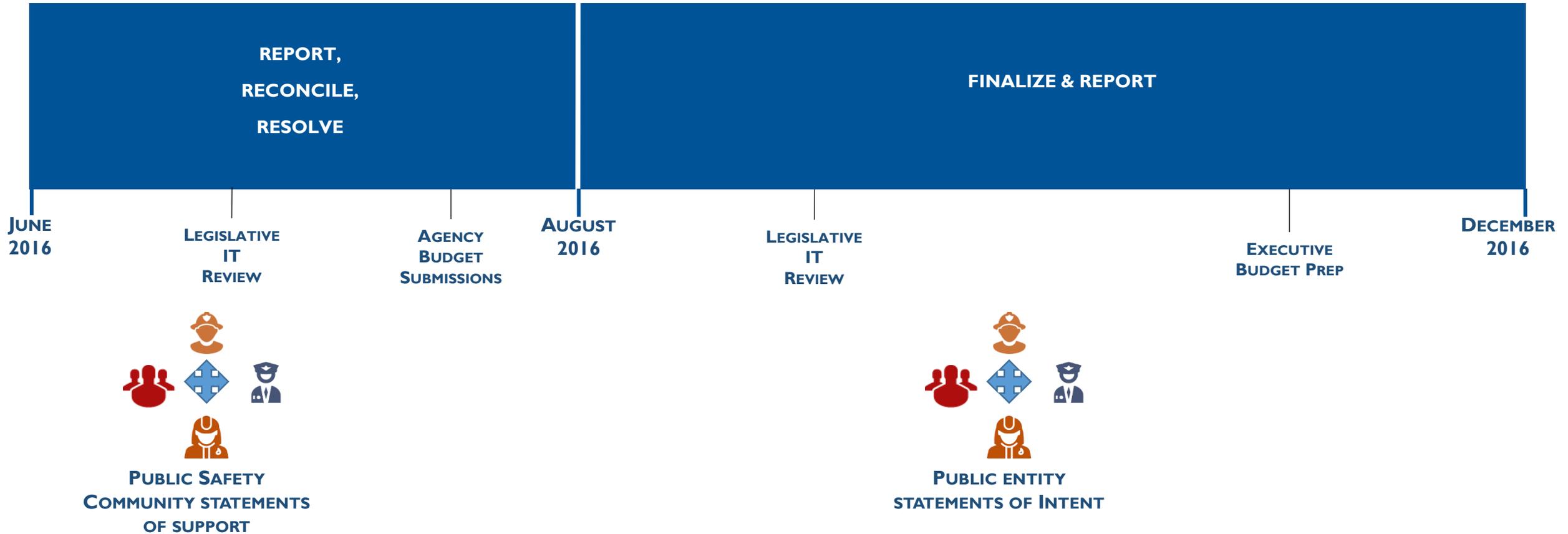


SIRN 20/20 FEASIBILITY STUDY



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PUBLICATION TIMELINE



QUESTIONS



**NORTH DAKOTA
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**INTEGRATED
STATEWIDE
INTEROPERABLE**

