



*NORTH DAKOTA*  
**STATEWIDE  
INTEROPERABLE  
RADIO NETWORK**

# SIRN MISSION AND VISION

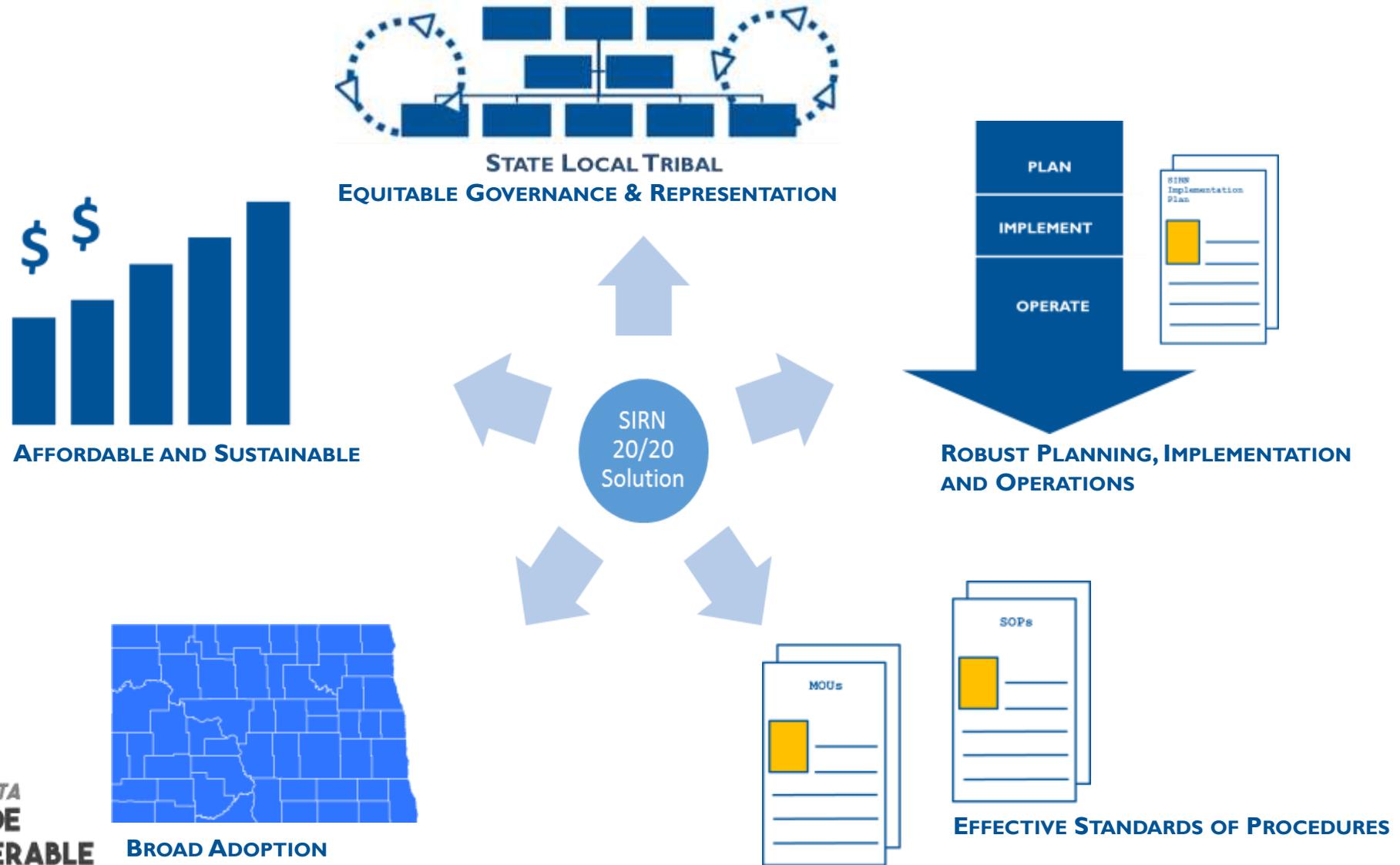
## MISSION:

- ❑ **WORK COLLABORATIVELY TO BUILD CONSENSUS AND DETERMINE FEASIBILITY OF A PUBLIC SAFETY RADIO SOLUTION INCLUDING A STRATEGIC PLAN FOR PROCUREMENT, IMPLEMENTATION, AND OPERATION OF AN INTEROPERABLE CURRENT GENERATION STATEWIDE RADIO AND DISPATCH SYSTEM**

## VISION:

- ❑ **A STATEWIDE INTEGRATED AND INTEROPERABLE MISSION CRITICAL LAND MOBILE RADIO (LMR) NETWORK SOLUTION ASSISTING PUBLIC SAFETY PERSONNEL IN THEIR ABILITY TO COMMUNICATE EFFECTIVELY AND RELIABLY WHILE CARRYING OUT THEIR DUTIES**

# THE SIRN 20/20 VISION FOR SUCCESS



# THE SORN 20/20 FEASIBILITY STUDY

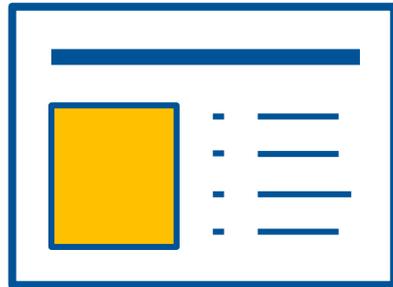
## HIGH LEVEL COMPONENTS

- CONDUCT STAKEHOLDER OUTREACH
- GATHER FEEDBACK AND REQUIREMENTS
- DOCUMENT AND EVALUATE STATE AND LOCAL ASSETS
- EVALUATE STAKEHOLDER CONSENSUS
- CREATE A CONCEPTUAL DESIGN AND MIGRATION PLANS
- DEVELOP LIFECYCLE OWNERSHIP COSTS
- OUTLINE IMPLEMENTATION PLANS
- DEVELOP GOVERNANCE RECOMMENDATIONS

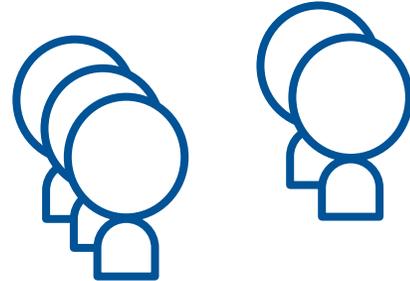
# THE SORN 20/20 FEASIBILITY STUDY

## OUTREACH AND FEEDBACK

WEBSITE  
NEWSLETTERS

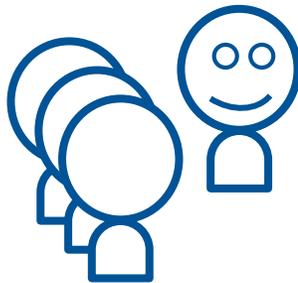


REGIONAL  
MEETINGS



- **CONDUCT STATEWIDE OUTREACH AND EDUCATION**
- **ACTIVELY ENGAGE STATE, LOCAL AND TRIBAL ENTITIES**

IN PERSON  
INTERVIEWS



ONLINE SURVEYS  
VIDEO CONFERENCES



- **GATHER FEEDBACK ON TECHNICAL, OPERATIONAL AND FINANCIAL NEEDS**
- **DETERMINE GOVERNANCE AND OWNERSHIP MODELS**



Contact ITD

- SIEC
- FirstNet
- SIEC Info
- SIRN 20/20**
- Background
- Events
- Quick Links
- Resource Center

## SIRN 20/20

Updated-SIRN 20/20 introduction video is available on the [resources page](#) for those unable to attend regional meetings

### What is the Statewide Interoperable Radio Network (SIRN-pronounced siren) 20/20 Study?



SIRN 20/20 is a statewide initiative to study and recommend a consensus solution for delivering, integrating, and supporting mission critical interoperable radios systems, and training for first responders and the public safety community. Based on the results of an initial 2014 study sponsored by first responder

associations in the state, the North Dakota Legislature approved funds to determine the best solution. Led by the SIEC and managed by the North Dakota Information Technology Department, the public safety community is conducting research to assess, measure, and determine what we need. As part of the study, we will measure how best to acquire and integrate this new, and vital tool in the public safety community across local, tribal, and state public safety offices.

### Why now?

North Dakota first responders have outstandingly continued to provide a safe environment for the State. Unfortunately, the initial study has indicated that the current approach to how we utilize land mobile

# THE SIRN 20/20 FEASIBILITY STUDY

## REGIONAL CONFERENCES

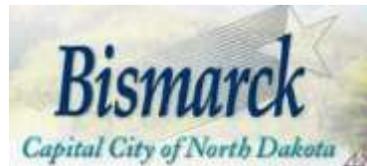
## PARTICIPATION FROM 46 COUNTIES

~February 2016~				
Monday	Tuesday	Wednesday	Thursday	Friday
<b>15</b>	<b>16 FARGO</b>	<b>17 JAMESTOWN</b>	<b>18 DEVIL'S LAKE</b>	<b>19 GRAND FORKS</b>
9:00	Cass	Wells	Towner	Grand Forks
	Steele	Foster	Rolette	Pembina
12:00	Trail	Griggs/ Stutsman	Cavalier	Wah
1:00	Richland	Barnes/ LaMoure	Ramsey/ Nelson	
	Ransom	Dickey	Benson	
4:00	Sargent	McIntosh/ Logan	Eddy	
Monday	Tuesday	Wednesday	Thursday	Friday
<b>22 DICKINSON</b>	<b>23 BISMARCK</b>	<b>24 WILUSTON</b>	<b>25 MINOT</b>	<b>26 MINOT</b>
9:00 Stark	Burleigh/ Sioux	Divide		Ward
Dunn/ Billings	Kidder/ Sheridan	Williams		Burke
12:00 Golden Valley	McLean	McKenzie		Mountrail
1:00	Oliver/ Mercer		Pierce	
	Grant/ Emmons		McHenry	
4:00	Morton		Bottineau/ Renville	
4:00 Slope/ Bowman				
Adams				
7:00 Hettinger				



# THE SIRN 20/20 FEASIBILITY STUDY

## STUDY OUTREACH



# THE SORN 20/20 FEASIBILITY STUDY

## COMMON THEMES

- COVERAGE NEEDS TO BE BETTER**
- USABILITY SHOULD BE KEY OBJECTIVE OF ANY SOLUTION**
- ADDITIONAL PROCUREMENT AND TRAINING STANDARDS USEFUL**
- RECOGNIZE BENEFIT OF REGIONAL COLLABORATION AND SHARED OBJECTIVE**
- AGREEMENT THAT ENHANCED AND RECURRING RADIO-FOCUSED TRAINING – TRAIN WITH THE RADIO LIKE WE DO WITH OUR OTHER TOOLS – WOULD BE USEFUL**
- NEED GUIDANCE ON WHAT TO PROCURE IN THE TIME BEING**

# THE SORN 20/20 FEASIBILITY STUDY

## DATA COLLECTION DETAILS

### TOWER DATA DETAILS

Tower Name	
Latitude	
Longitude	
Height/ft.	
Structure Type	
Owner	
Leased/Owned	
# of Public Safety/Service Antennas	
Tower Purpose	
Backhaul Type [Fiber   T-1 (Leased Line)   Telephone   Microwave   Other]	
Generator [Yes/No]	
UPS/Battery Systems [Yes/No]	
Shelter Space Availability [Full   Medium   Ample]	
Tower Space Availability [Full   Medium   Ample]	
Most Recent Structural Analysis Complete Date	
Tower Drawing Available [Yes / No]	

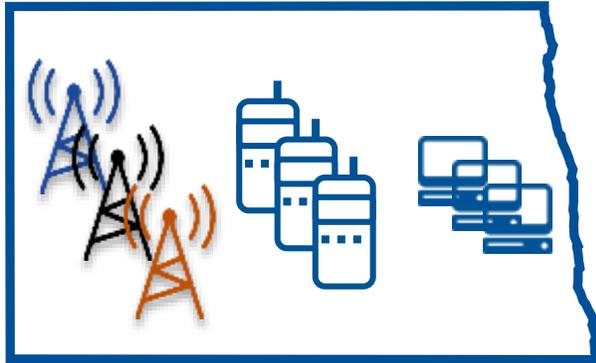
### SUBSCRIBER DETAILS

County   Jurisdiction	
Agency	
Form Factor [Portable   Mobile   Control Station   Pager]	
Mode [Analog   P25 Compliant   P25 Upgradeable]	
Trunking Capability [Already Capable   Upgradeable   Not Capable]	
Freq. Band	
Manufacturer	
Model	
Model Number	
Qty	
Serial Number	
Firmware	
Purchase Date	
Vehicle (If Mobile)	
Assigned To/Radio Alias	
Comments	



# THE SIRN 20/20 FEASIBILITY STUDY

## QUANTIFY AND EVALUATE CURRENT RADIO SYSTEMS



DATA COLLECTION AND ANALYSIS



**CAN THE EXISTING SYSTEMS SUPPORT FUTURE TECHNOLOGIES?**

- ABILITY OF SUBSCRIBERS TO SUPPORT DIGITAL P25
- SUFFICIENT TOWER AND SHELTER SPACE
- AVAILABILITY OF REDUNDANT POWER
- STRUCTURAL INTEGRITY OF TOWER

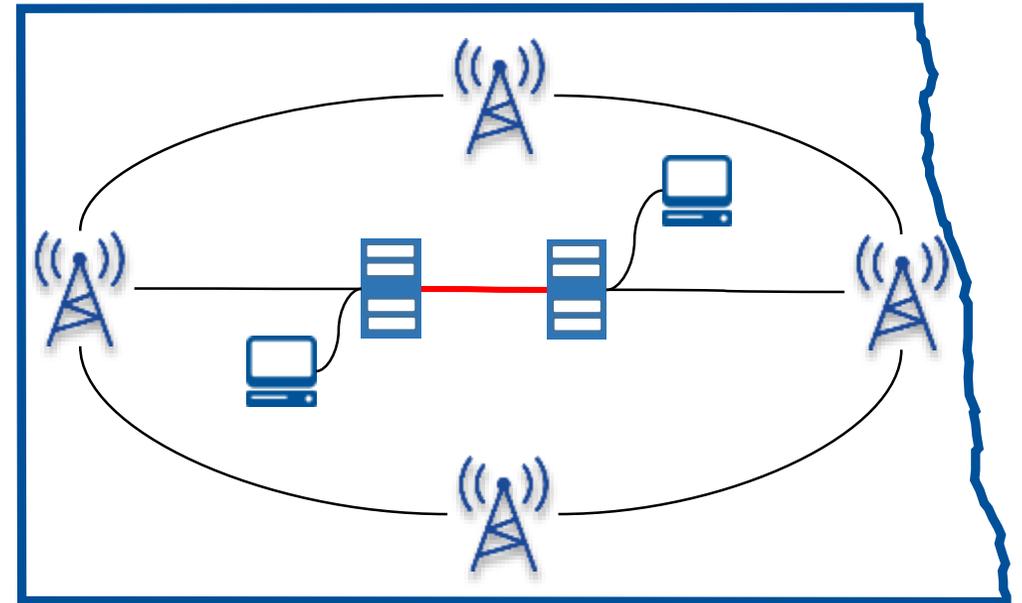
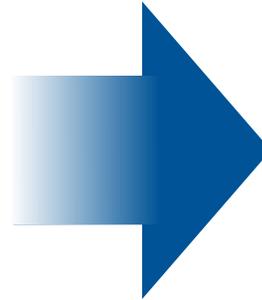
**REUSE / UPGRADE / REPLACE**



# THE SORN 20/20 FEASIBILITY STUDY

## OPERATIONAL REQUIREMENTS AND SOLUTION DESIGN

COVERAGE	FEATURES
RELIABILITY	CAPACITY
INTEROPERABILITY	LOCAL CONTROL
EVOLUTION	SUSTAINMENT
COST	OWNERSHIP



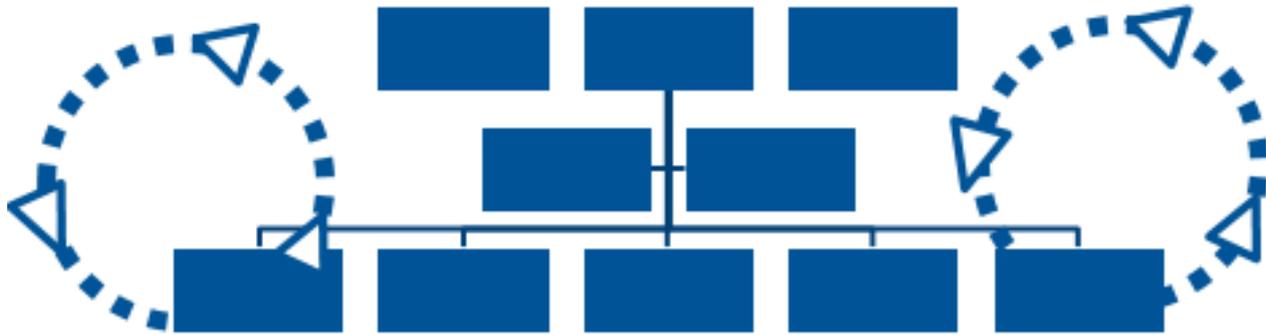
**COST-EFFECTIVE DESIGN  
THAT FULFILLS THE NEEDS  
OF THE STATE'S USERS**



# THE SIRN 20/20 FEASIBILITY STUDY

## GOVERNANCE STRUCTURE DEVELOPMENT

Establish governance models for the shared use, ownership and control of SIRN 20/20



- Who pays for the implementation of the network?
- Who pays for ongoing operations?
- Who makes decisions? | How are decisions made?
- How are my assets incorporated into SIRN?
- Will my operations personnel be integrated into SIRN?
- What if I want to make improvements in my jurisdiction?
- How much is my input incorporated?
- How much local control will I have?

**FAIR**  
**EQUITABLE**  
**REPRESENTATION**  
**AT ALL LEVELS OF GOVERNMENT**

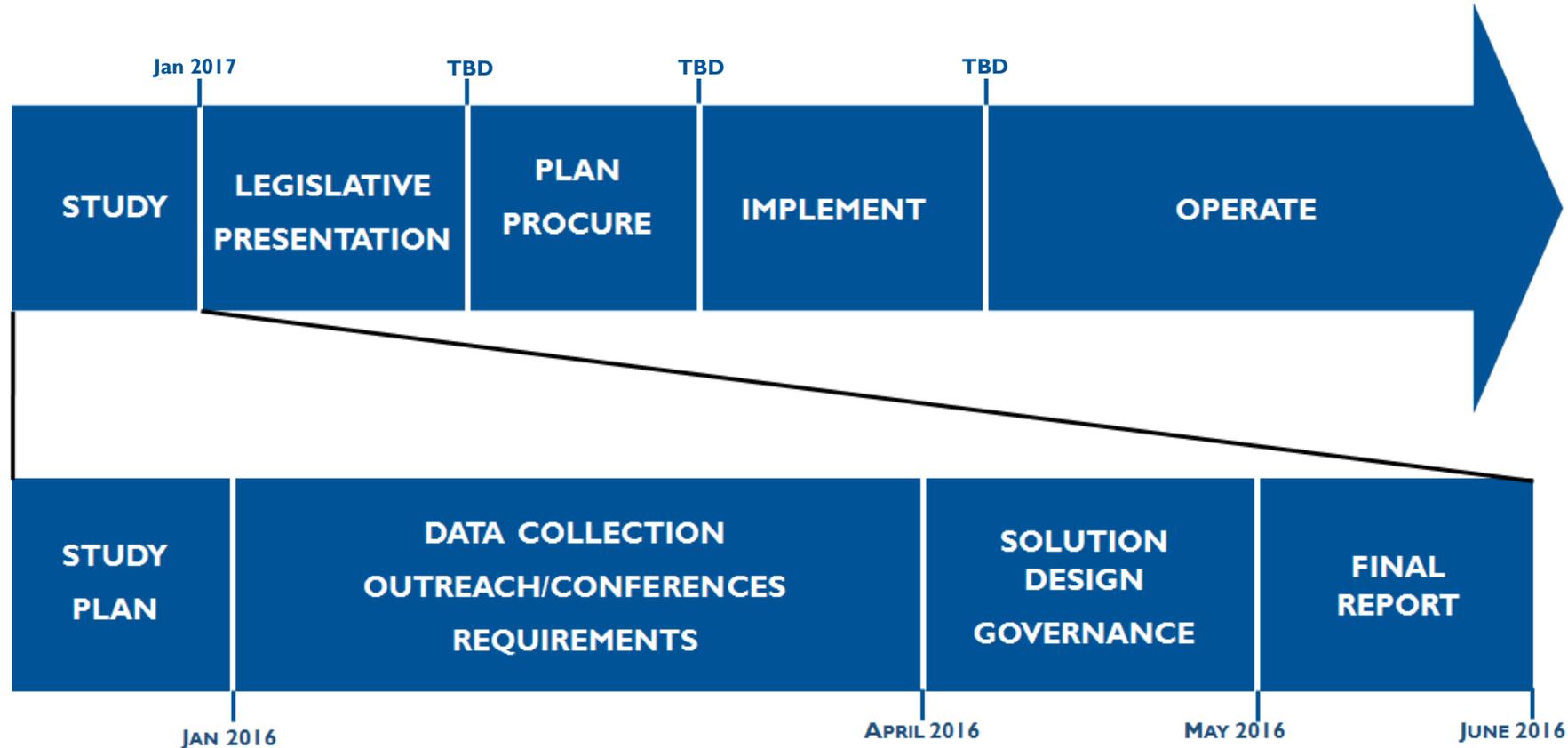
# THE SIRN 20/20 FEASIBILITY STUDY

## COMPREHENSIVE STRATEGIC PLAN



# THE SORN 20/20 FEASIBILITY STUDY

## Project Timeline



# QUESTIONS

**INTEGRATED**

**STATEWIDE**

**INTEROPERABLE**

