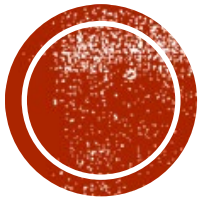
# DEMYSTIFYING EMERGENCY COMMUNICATIONS

October 22, 2024

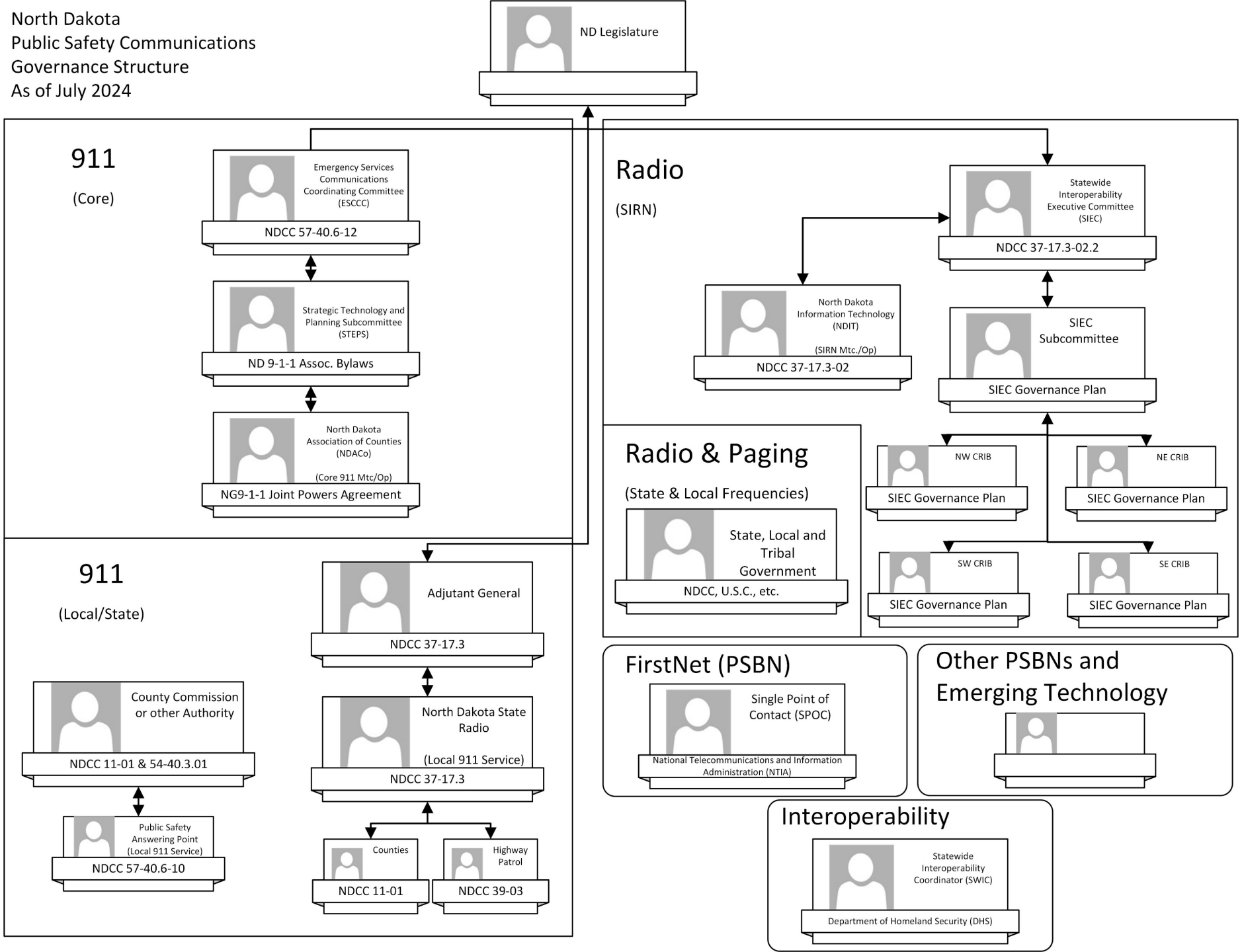
# TOPICS

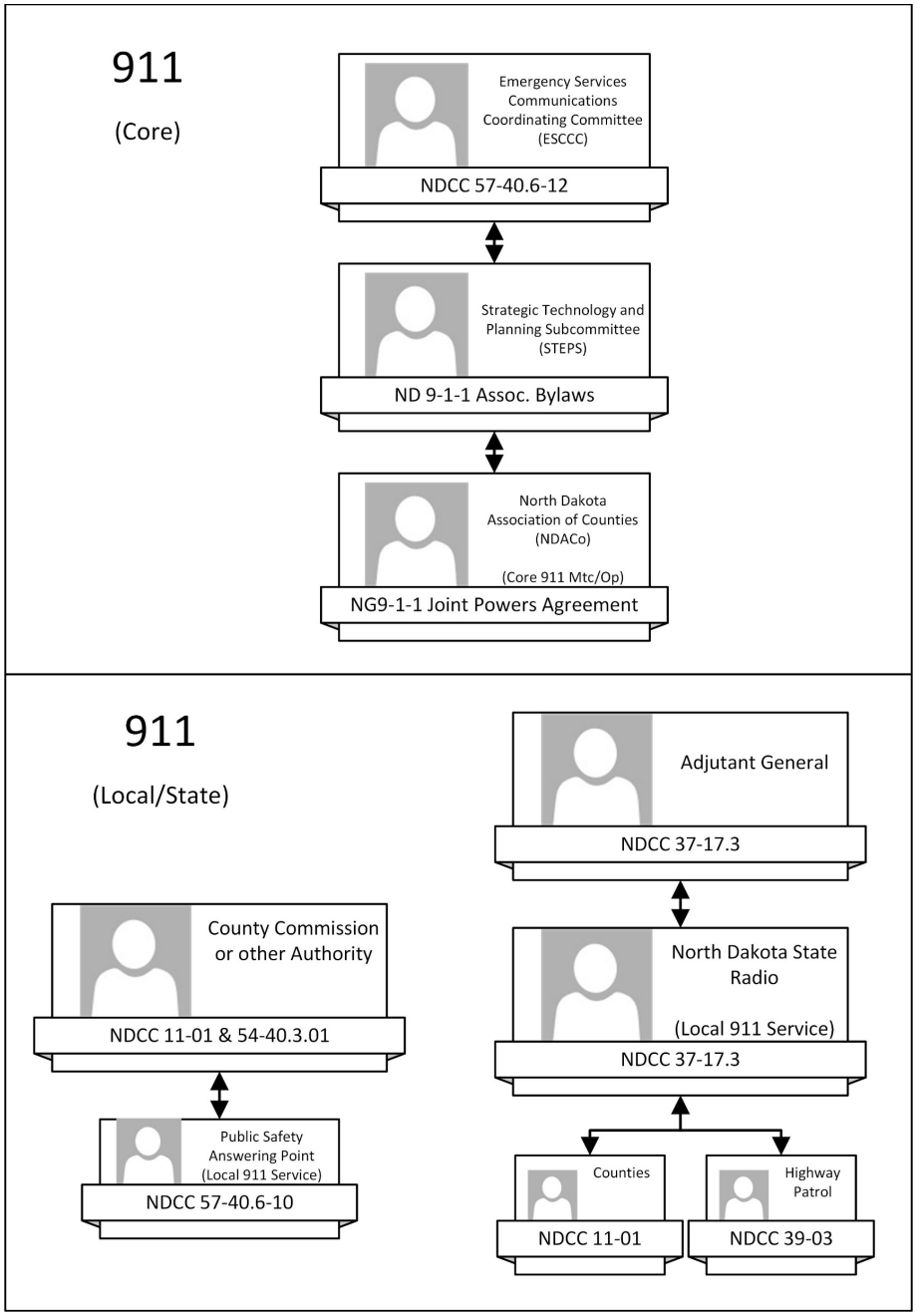
- Governance
- Emergency Communications Systems
  - 911
  - Radio / Paging
  - Public Safety Broadband
- Questions



# GOVERNANCE STRUCTURES

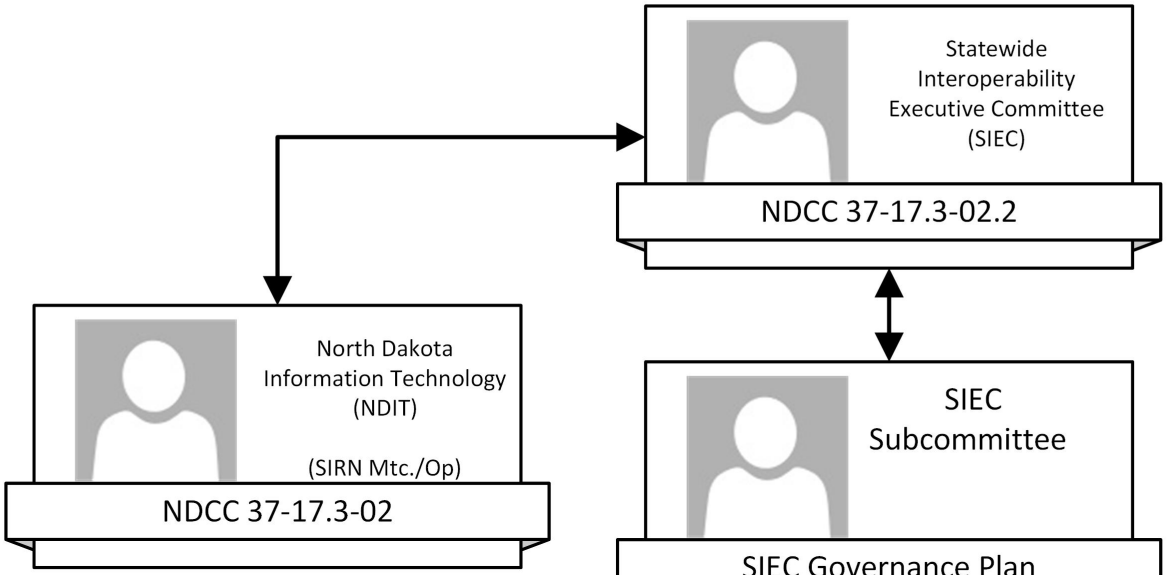
North Dakota
Public Safety Communications
Governance Structure
As of July 2024




911
(Core)
Emergency Services Communications Coordinating Committee (ESCCC)
NDCC 57-40.6-12
Strategic Technology and Planning Subcommittee (STEPS)
ND 9-1-1 Assoc. Bylaws
North Dakota Association of Counties (NDACo)
(Core 911 Mtc/Op)
NG9-1-1 Joint Powers Agreement
911
(Local/State)
Adjutant General
NDCC 37-17.3
County Commission or other Authority
NDCC 11-01 & 54-40.3.01
North Dakota State Radio
(Local 911 Service)
NDCC 37-17.3
Public Safety Answering Point (Local 911 Service)
NDCC 57-40.6-10
Counties
Highway Patrol
NDCC 11-01
NDCC 39-03

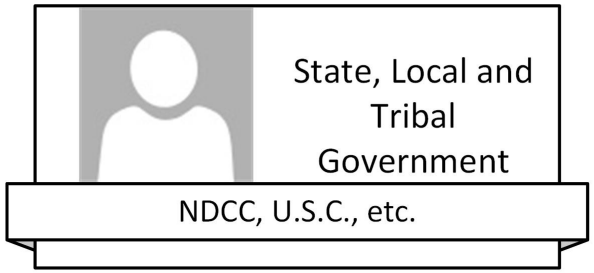
# Radio

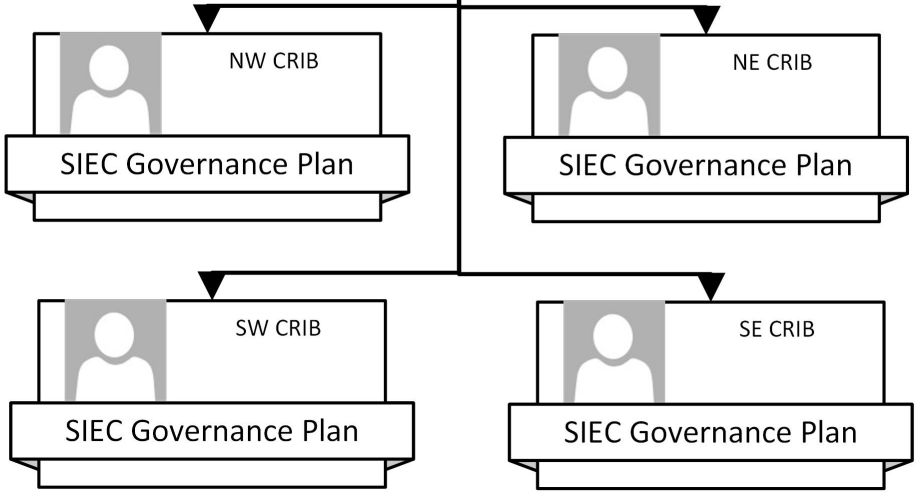
(SIRN)



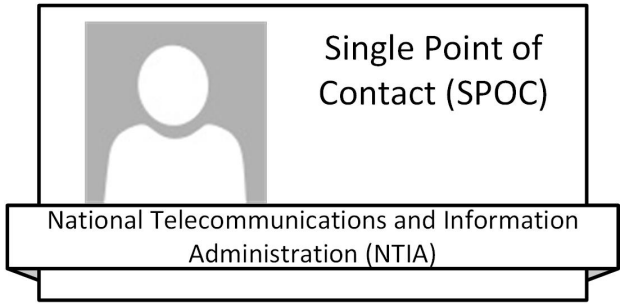

# Radio & Paging

(State & Local Frequencies)

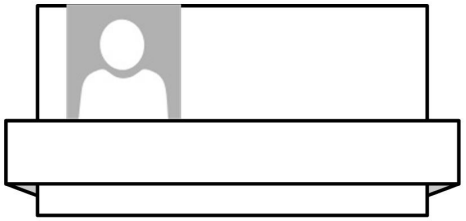


## FirstNet (PSBN)

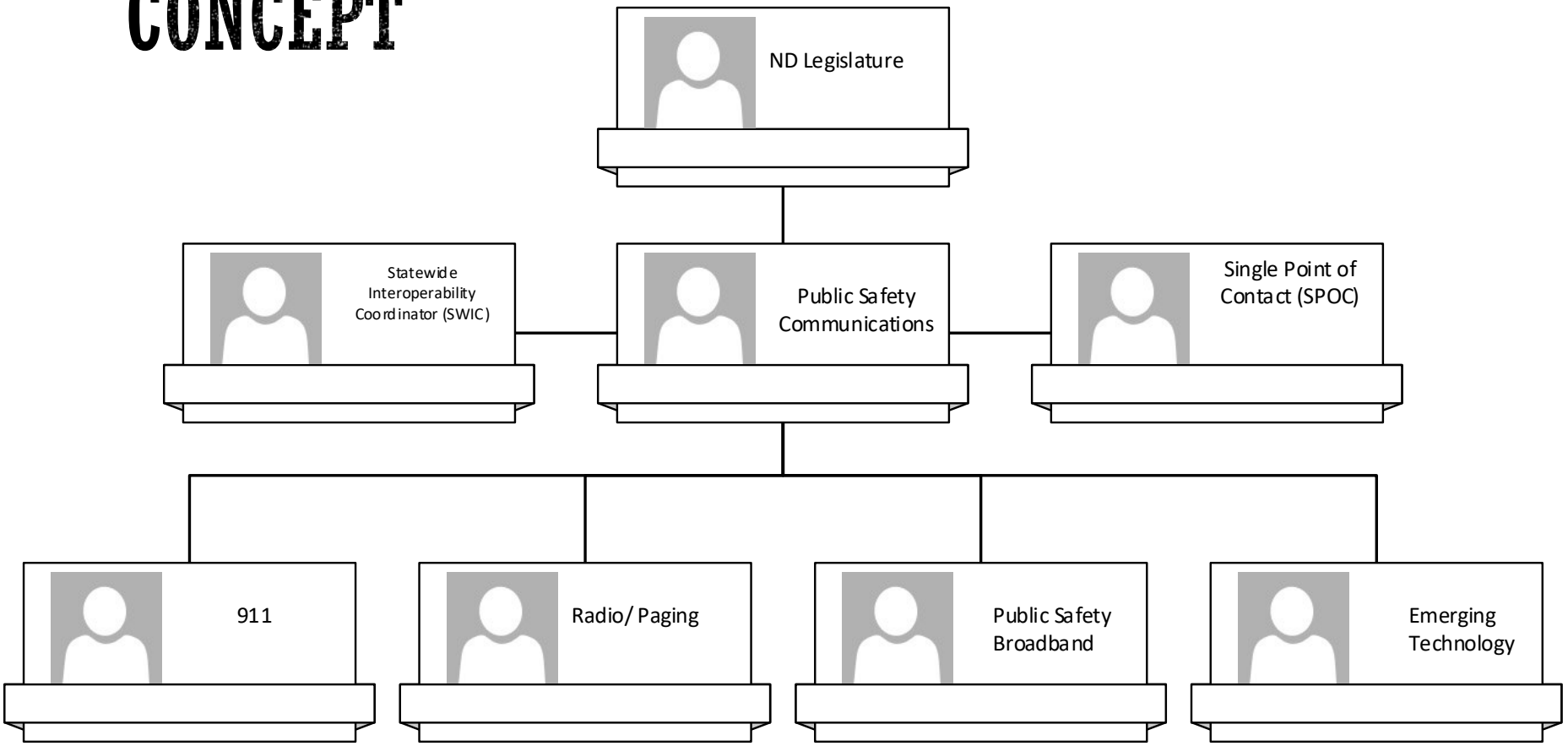



## Other PSBNs and Emerging Technology



## Interoperability

# DRAFT CONCEPT

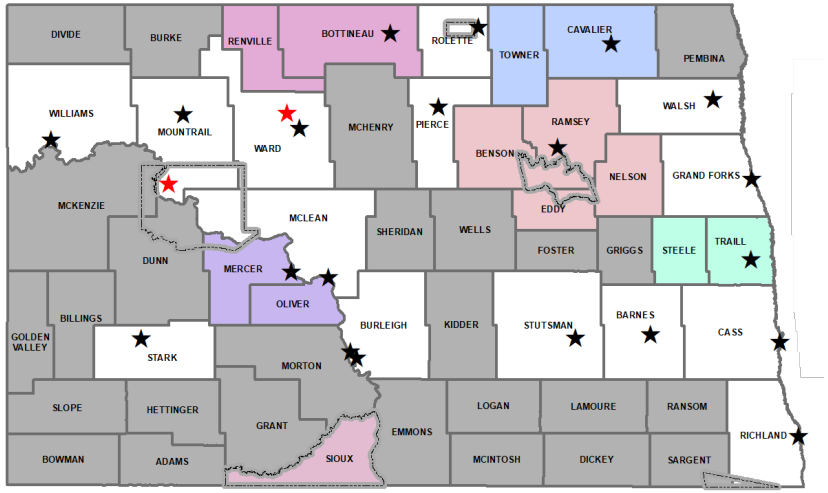


# EMERGENCY COMMUNICATIONS SYSTEMS

Benefits of NG9-1-1 – USDOT - NHTSA

FirstNet and Next Generation 9-1-1– First Responder Network Authority

# 9-1-1 CURRENT STATE




- 20 Primary Public Safety Answering Points
- 2 Secondary Public Safety Answering Points
- 1 Core Network – Connects PSAPs Together
- 312 Full Time / 27 Part Time Telecommunicators
- IP Network to all PSAPs complete
- IP Network to OSPs 85% complete
- County-sourced GIS database to support NG9-1-1 complete
- All PSAPs have equipment to support receipt of NG9-1-1 calls
- ND recognized nationally as a leader in 9-1-1 modernization
- 288K 911 calls in 2023 or appx. 33 911 calls an hour

# 9-1-1 FUTURE STATE

- Complete 9-1-1 "core" upgrade for PSAPs
- Recent FCC Report and Order signed 7/18/2024 will help
  - (PS Docket No. 18-64)
- Interconnect NG9-1-1 and Public Safety Broadband Networks (i.e. FirstNet, Verizon, T-Mobile).
    - Enables PSAP to share media w/ Dispatch (e.g. photos, video, data)
- Interoperability
- CAD to CAD

# PUBLIC SAFETY BROADBAND

NDIT

# PUBLIC SAFETY BROADBAND CURRENT STATE

- Public Safety Broadband Offerings
  - FirstNet by AT&T
  - Verizon Frontline
  - T-Mobile for Government
- Why should I use a Public Safety Broadband connection?
  - All PSBN offerings support priority and preemption
  - PSBN plans are typically lower in cost than personal plans

FirstNet®

Verizon Frontline

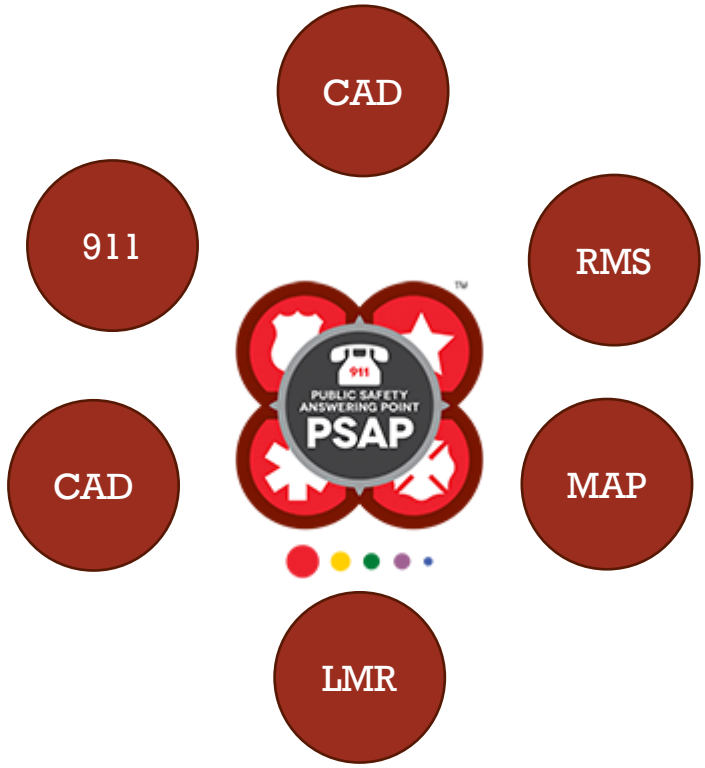
T-MOBILE FOR GOVERNMENT

# PUBLIC SAFETY BROADBAND FUTURE STATE

- Ideally, all primary first responders have a connection to one of the Public Safety Broadband offerings (FirstNet, Verizon, T-Mobile) through their mobile data terminals or smart phones.
- PSAPs are connected to all three offerings
- Secure connections are made between the state's ESInet and PSBN networks.

# PUBLIC SAFETY NETWORK

- Not to be confused with PSBN cellular networks.
- Need identified by the PSAPs to eliminate the need for separate network expenses for multiple critical services they utilize (911, SIRN, Cloud-based CHE, Cloud-based CAD, NLETS, etc.
- No work has begun on this topic and the future is uncertain.



# RADIO AND PAGING CURRENT / FUTURE STATE

NDIT

# LEGISLATIVE AND ~~LOCAL~~ FUNDING DISCUSSIONS

# LEGISLATIVE TOPICS – OVER THE YEARS

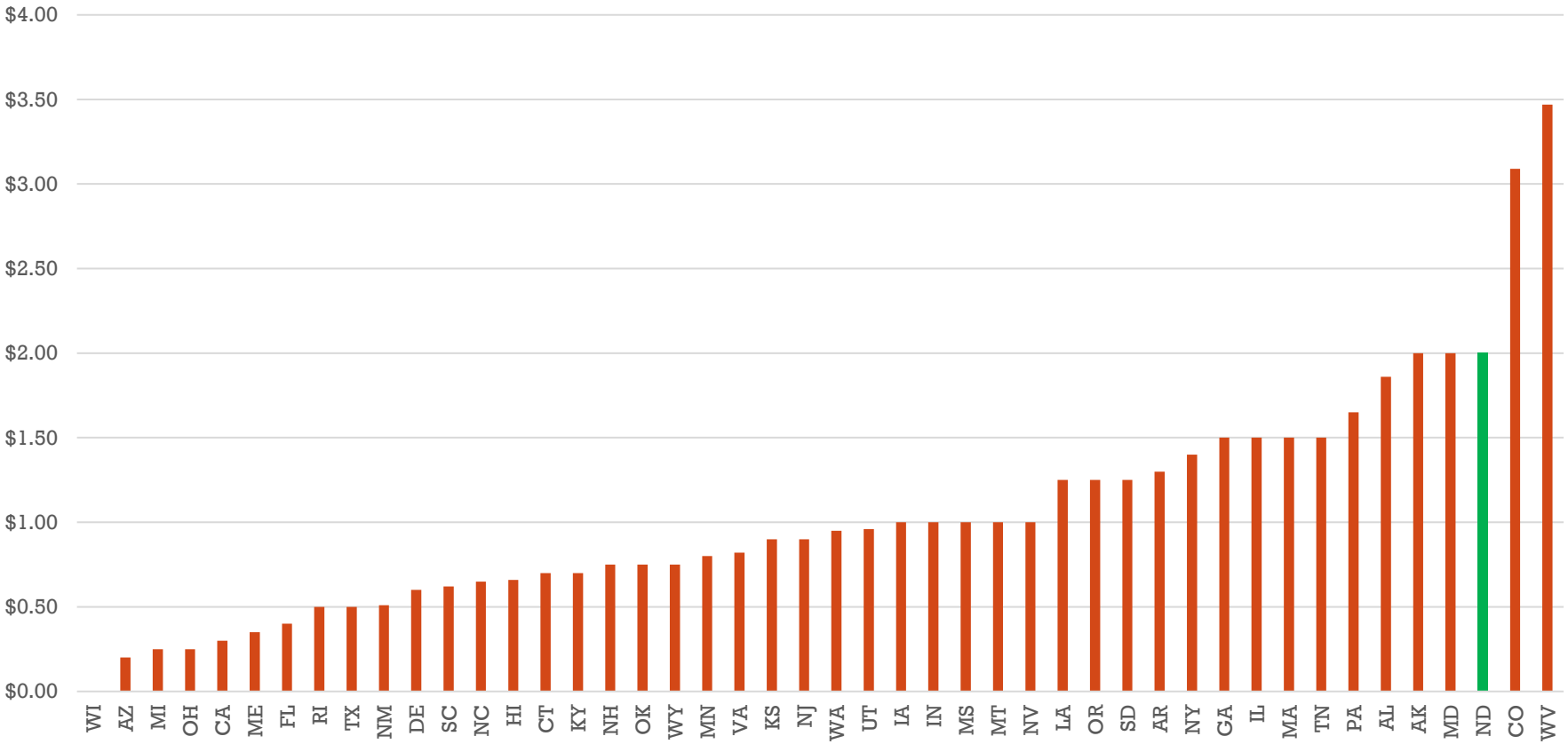
- Why do we need so many PSAPs?
- Elimination of the 911 Fee
- Emergency Communications Governance

# FUNDING - 911 FEES VS COST OF 911

- Total 911 Surcharges - $18.5M/yr
- SIRN Portion of 911 Surcharge – $4.5M/yr
- 911 (Core + PSAP) Cost - ~ $30M
- General Funds Typically Cover Shortfall ($11.5M)

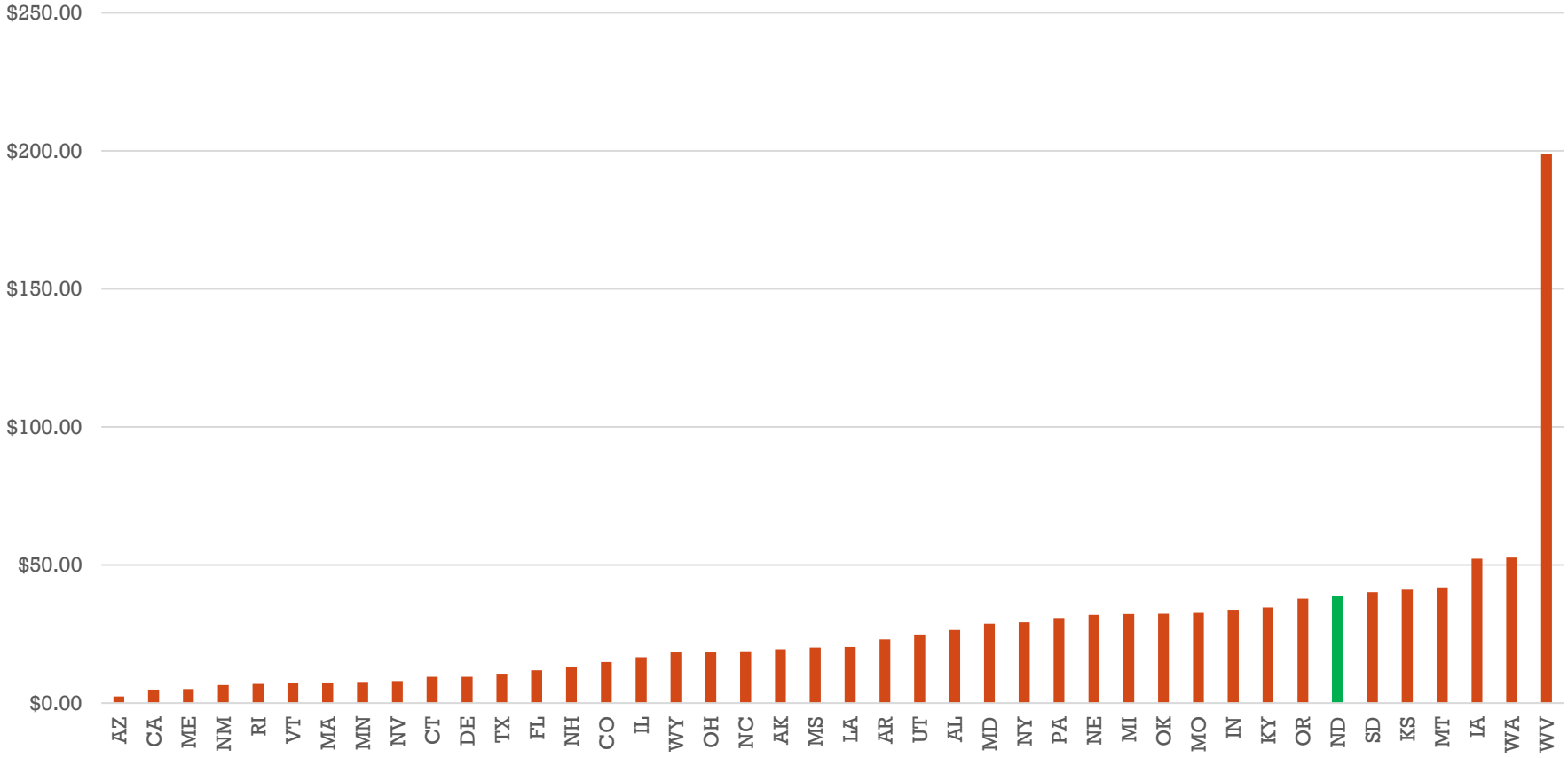
- All Emergency Communications Expenses?
  - Radio
  - Paging
    - $?

# Wireless 911 Surcharges by State (2022)




Source: FCC's Fifteenth Annual Report To Congress on State Collection and Distribution of 911 and Enhanced 911 Fee Charges

# Per Capita 911 Expenditure by State (2022)




Source: FCC's Fifteenth Annual Report To Congress on State Collection and Distribution of 911 and Enhanced 9 Charges