



PORTS TO PLAINS
ALLIANCE

Building for Connection: Energy

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Vice President & General Counsel
North Dakota Petroleum Council

Sept 11, 2024

www.NDOil.org





ND PRODUCTION – JUNE 2024



Statewide Gas Capture Rate 94%

1,175,567 Barrels Per Day

3,472,710 MCF Per Day

(All-time high set in Dec 2023)

18,973 Producing Wells

(All-time high set in May 2024)

North Dakota Drilling Rigs: 39 (September 11, 2024)





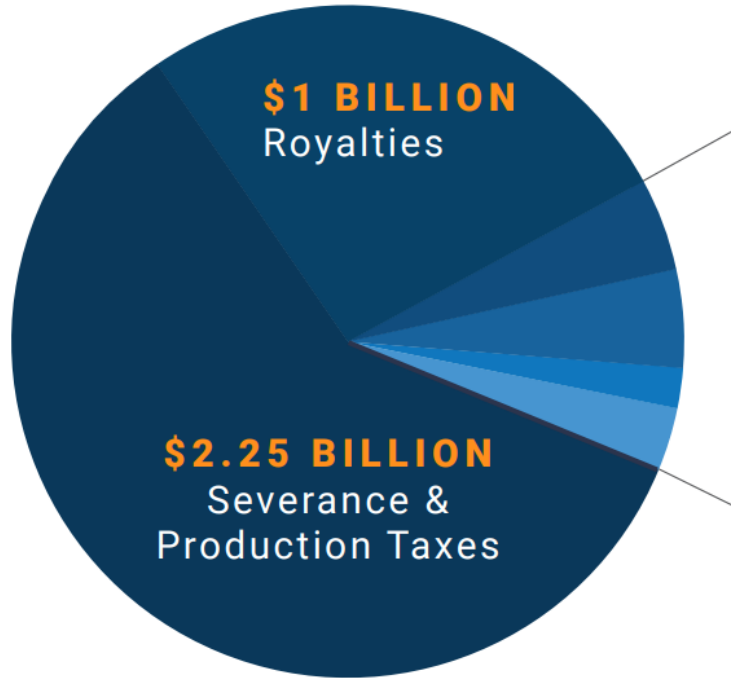
FIVE BILLION BAKKEN BARRELS

- North Dakota ranks 3rd in the nation in oil production
- One of only 4 in North America
- Only 17 fields in the world have ever achieved this



\$3.8 BILLION

IN STATE AND LOCAL GOVERNMENT REVENUES



\$172.2 MILLION

Property

\$180.8 MILLION

Sales & Use Taxes

\$69.3 MILLION

Corporate & Personal
Income

\$112.3 MILLION

Other Taxes, Permits, Fees
& Licenses

\$1.8 MILLION

Lease Bonuses

51% → state tax revenues from oil & gas

Put it in perspective:



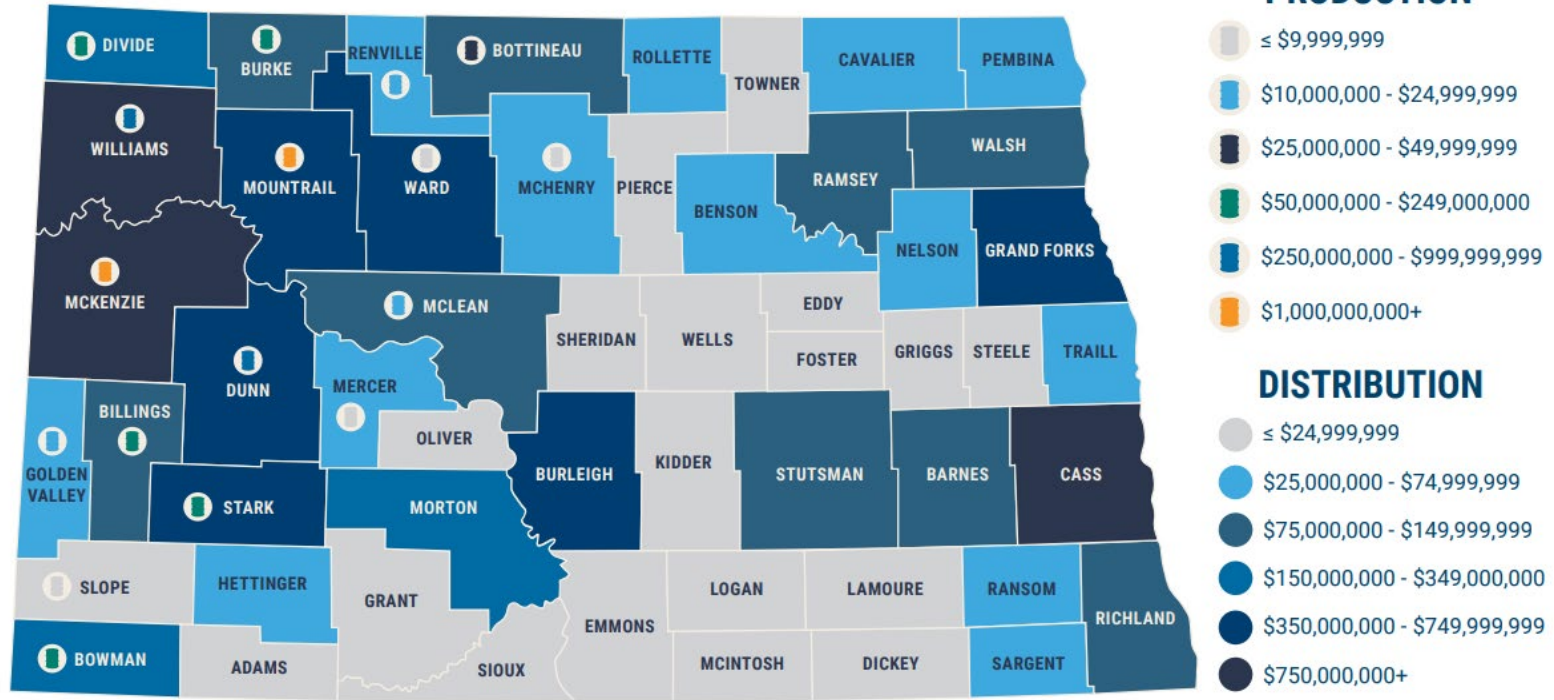
For every dollar of revenue to the state -



Fifty-One Cents comes from oil & gas

STATEWIDE BENEFITS

WHERE DOES STATE OIL TAX COME FROM AND WHERE DOES IT GO?



\$42.58 BILLION

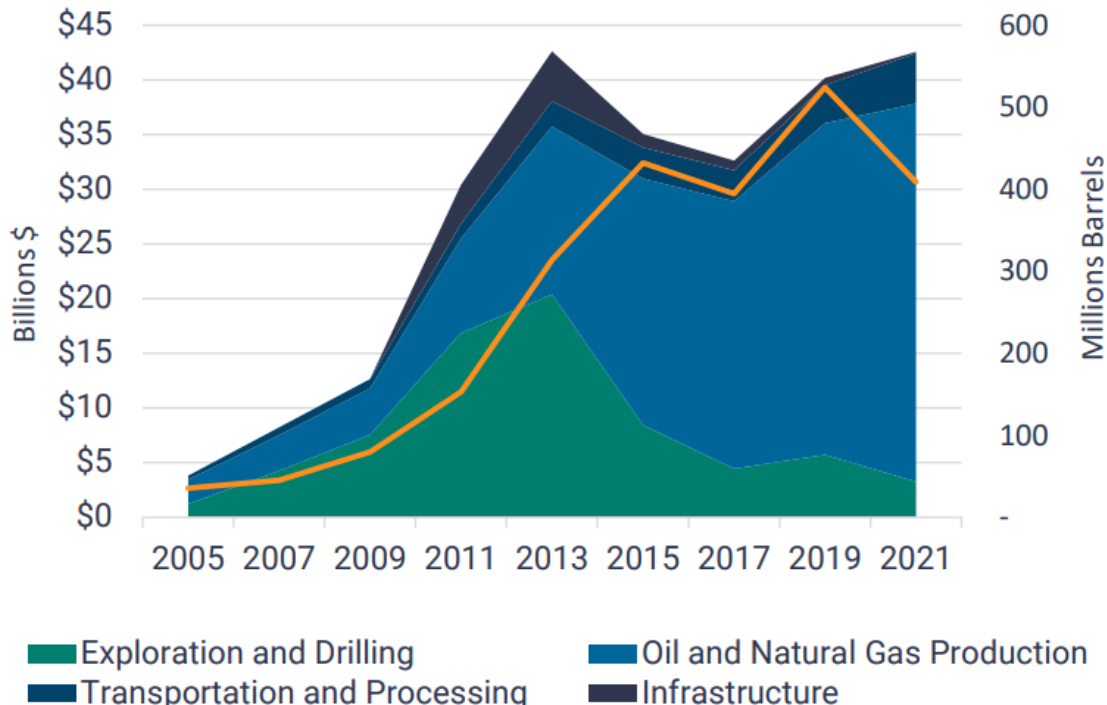
TOTAL ECONOMIC IMPACT IN 2021



30.8%

OF ND'S GROSS STATE PRODUCT

CAME FROM THE OIL & GAS INDUSTRY



14,200 DIRECT JOBS + 35,185 SECONDARY JOBS =

49,385 TOTAL JOBS

WITH A
PAYROLL TOTALING

\$3.9 BILLION

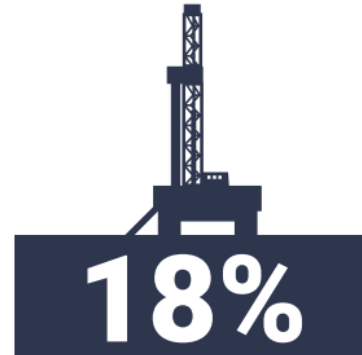
A MAJORITY OF JOBS ARE IN PRODUCTION, WHICH OFFER
LONG-TERM JOBS & CAREERS FOR NORTH DAKOTANS.



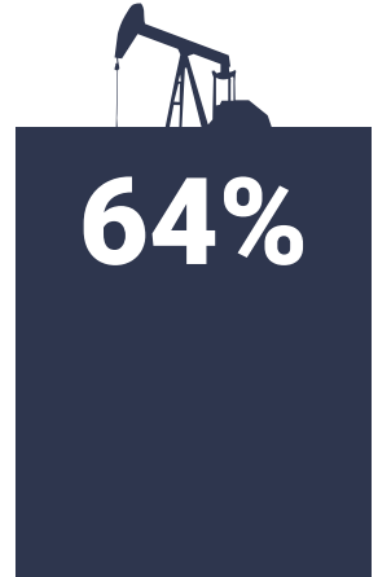
INFRASTRUCTURE
DEVELOPMENT



PROCESSING &
TRANSPORTATION



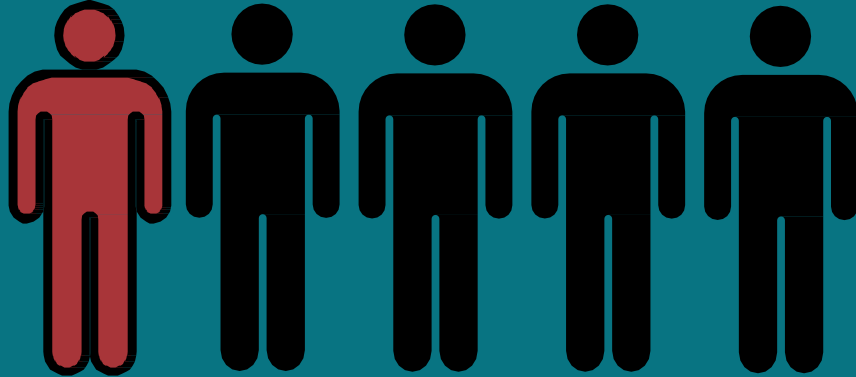
EXPLORATION & WELL
DEVELOPMENT



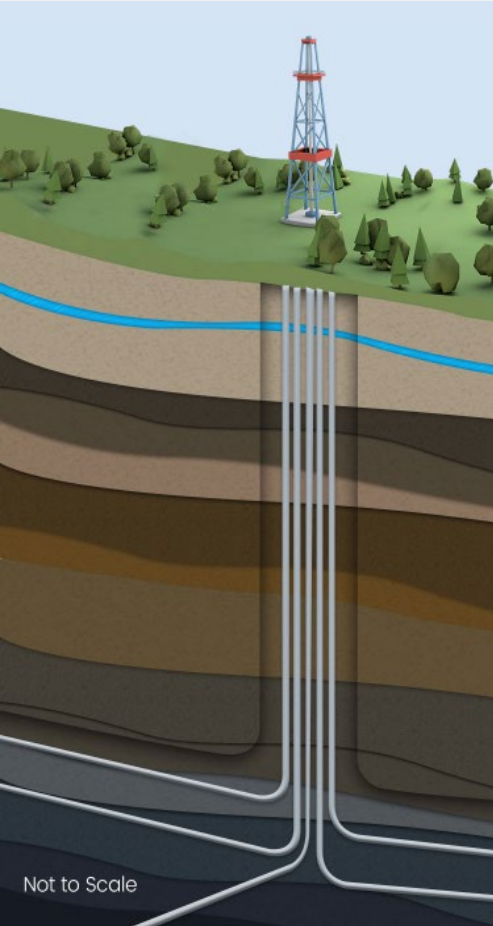
EXTRACTION &
PRODUCTION

IMPACTING NORTH DAKOTANS

1 in 5 North Dakotans are directly or indirectly employed by the oil and gas industry.



WHERE WE'RE GOING IN THE FUTURE

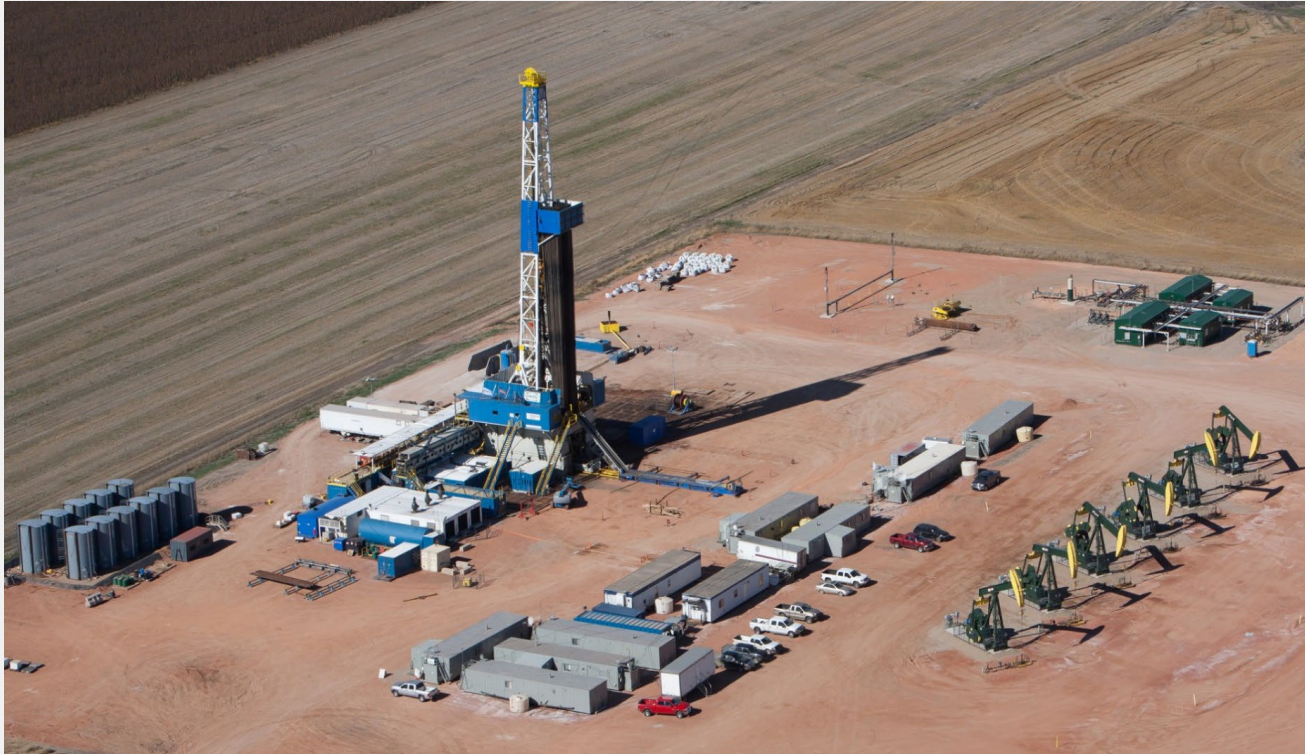


Putting Technology to Work in the Bakken:

- zero-emission Bakken wellsites
- three-mile lateral
- wellsite efficiency
- gas capture
- maximizing production

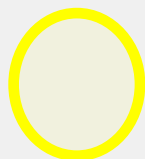
Multi-Well Pad Drilling

- 12 to 30 wells/pad – minimize rig moves
- Quicker production





Core=Tier 1 > EOR
80-85% developed
+8,000 wells
1-2% growth = 35 rigs = 8 years

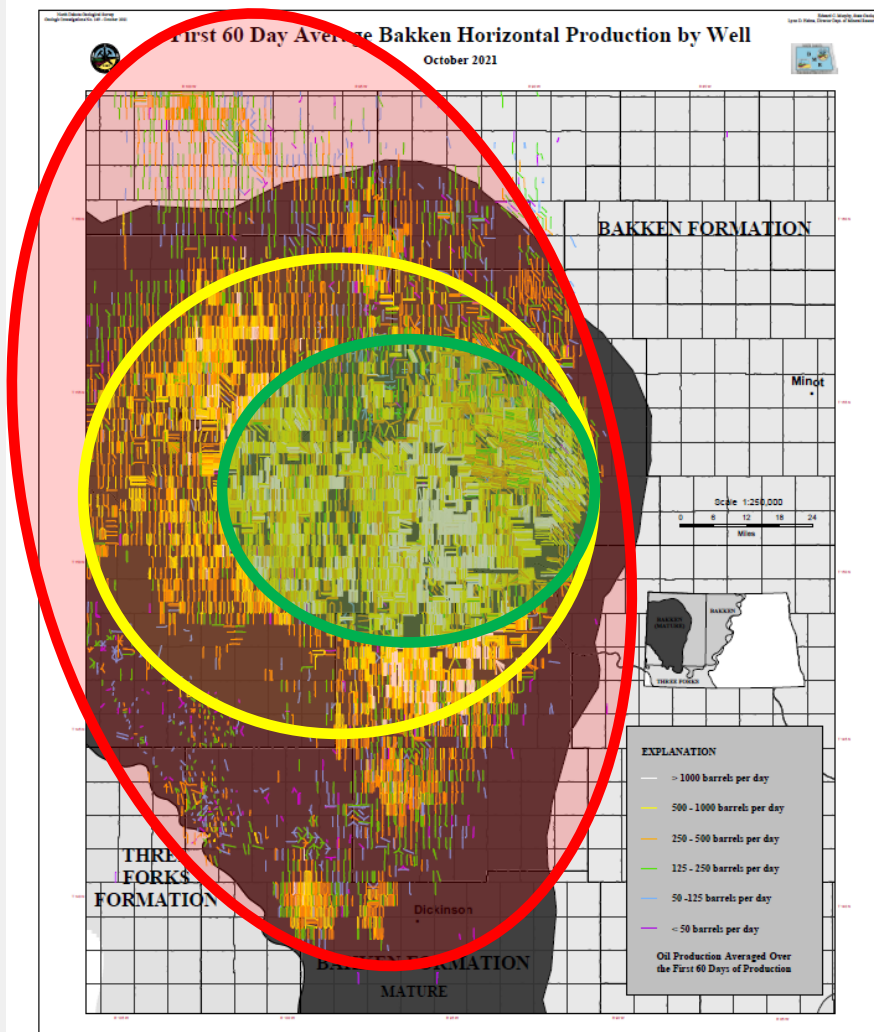


Tier 2 > 3 mi laterals
50% developed
+8,000 wells
1-2% growth = 50 rigs = 6 years



Tier 3 > 3-4 mi laterals
25% developed
+7,000 wells
1-2% growth = 75 rigs = 4 years

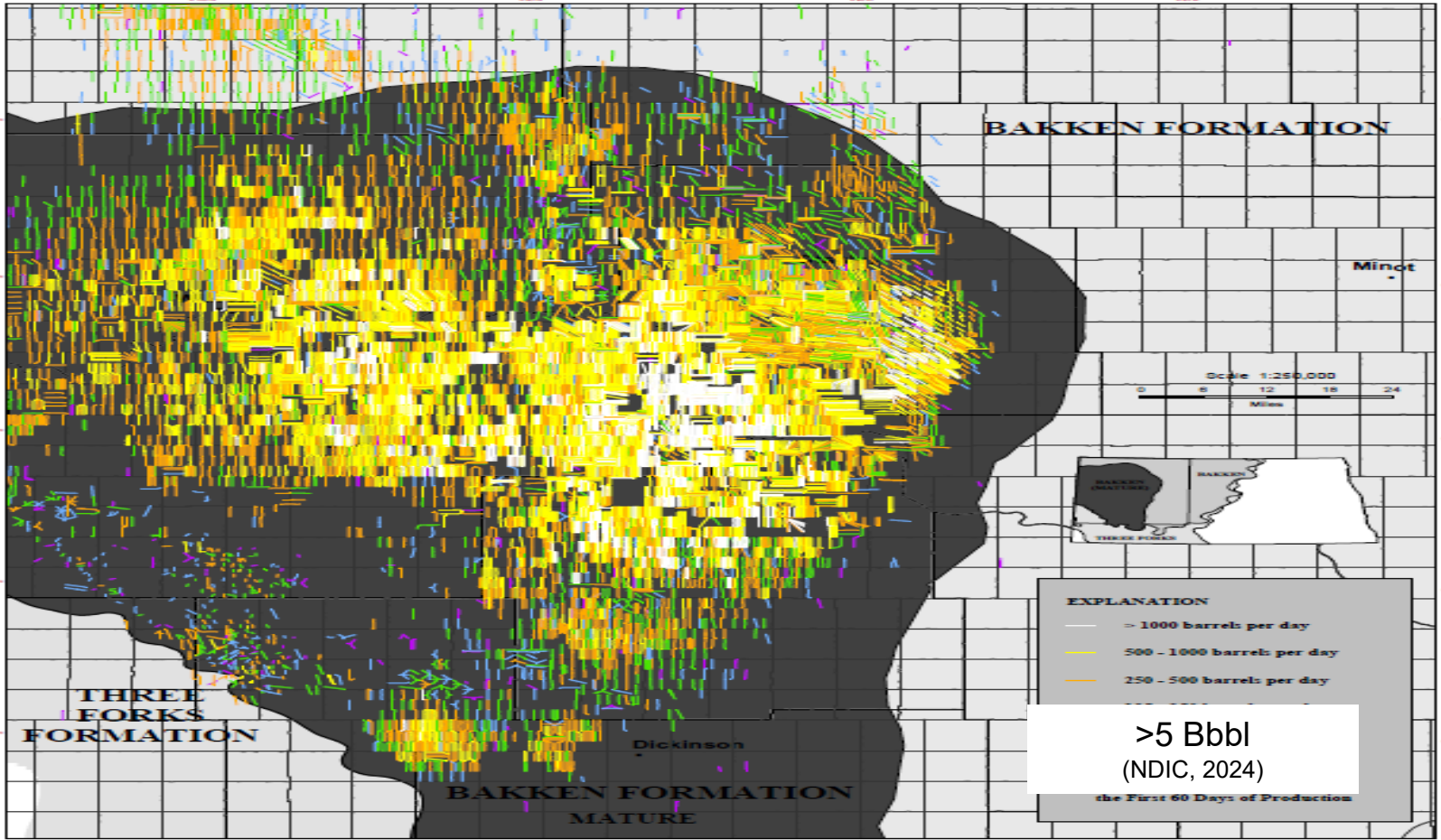
Total = 23,000 wells & 18 years
Current 17,000 wells & 16 years



First 60 Day Average Bakken Horizontal Production by Well

October 2021

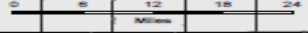
Scale 1:250,000



BAKKEN FORMATION

Minot

Scale 1:250,000



EXPLANATION

- > 1000 barrels per day
- 500 - 1000 barrels per day
- 250 - 500 barrels per day

>5 Bbbl
(NDIC, 2024)

the First 60 Days of Production

THREE FORKS FORMATION

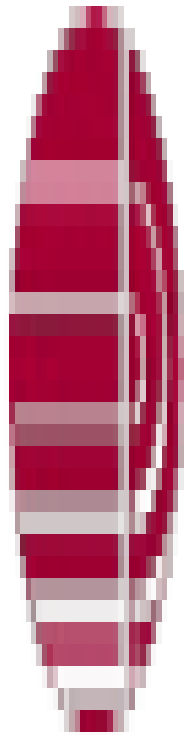
Dickinson

BAKKEN FORMATION MATURE

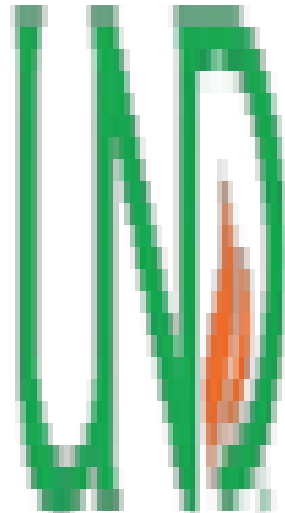
\$26 BILLION

generated from oil production since 2008,
accounting for **51% of all taxes**
collected in North Dakota

With **cumulative**
production to-date totaling
5 Bbbl (billion barrels of oil), the
utilization of EOR methods could
unlock an **additional 3.2–7 Bbbl**
of recoverable oil with potential
to store **1.1–3.2 billion**
tonnes of CO₂.



ERIC



UNIVERSITY OF
NORTH DAKOTA

EOR in North Dakota Legacy (conventional) Fields – Size of the Prize

Identified

201

Conventional Oil Fields

Requiring

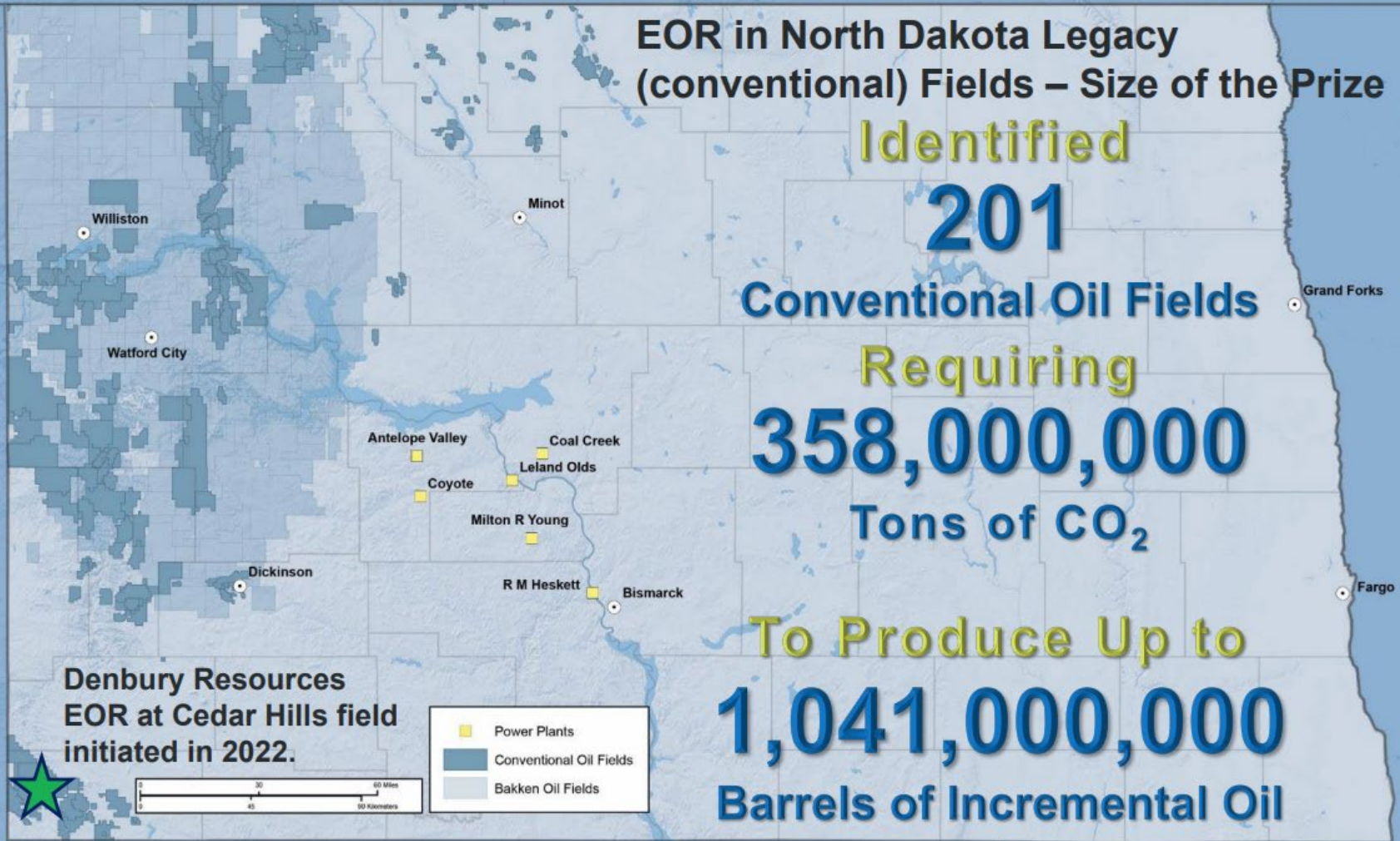
358,000,000

Tons of CO₂

To Produce Up to

1,041,000,000

Barrels of Incremental Oil



EOR in Bakken and Three Forks – Size of the Prize

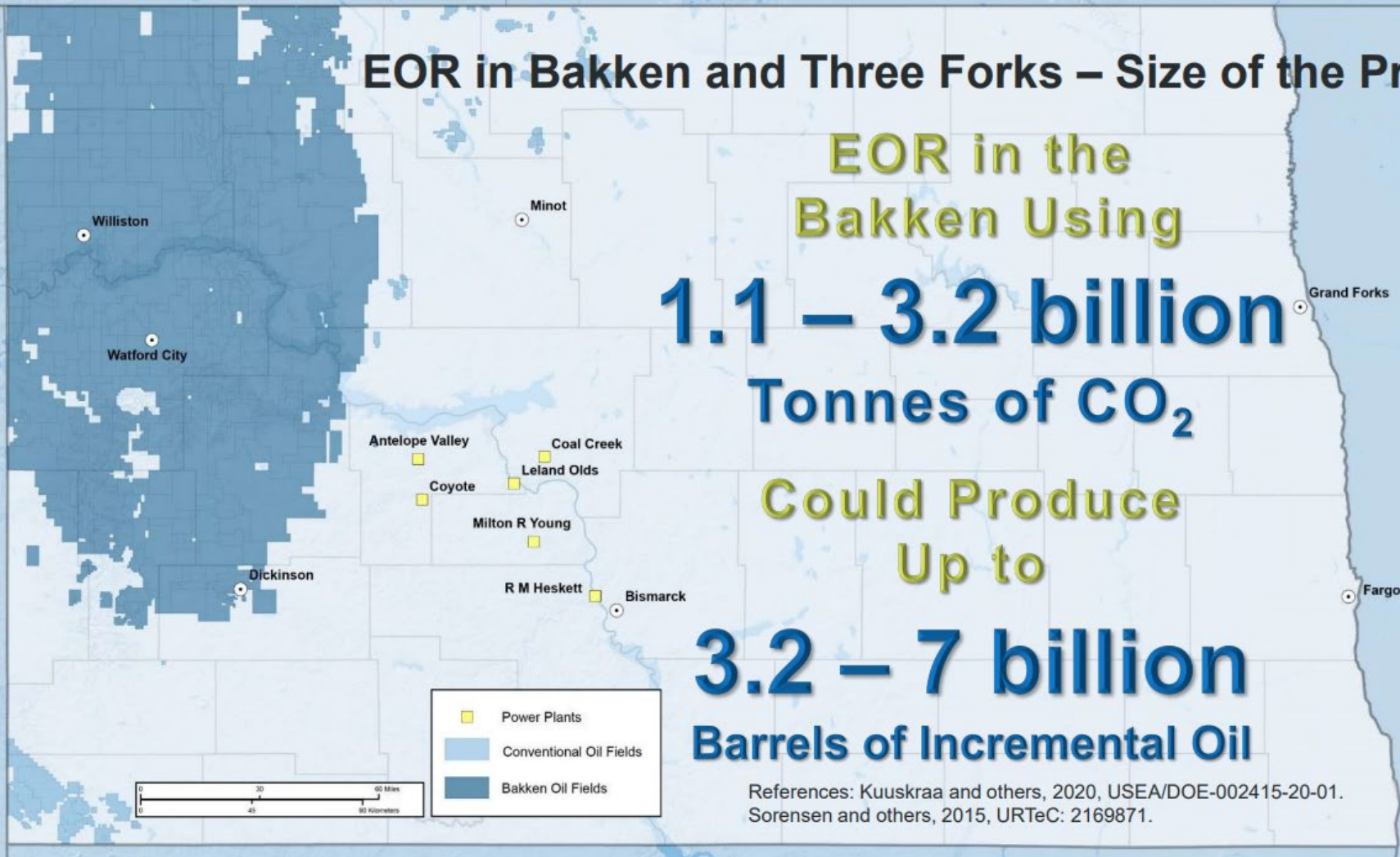
EOR in the
Bakken Using

1.1 – 3.2 billion
Tonnes of CO₂

Could Produce
Up to

3.2 – 7 billion
Barrels of Incremental Oil

References: Kuuskraa and others, 2020, USEA/DOE-002415-20-01.
Sorensen and others, 2015, URTec: 2169871.

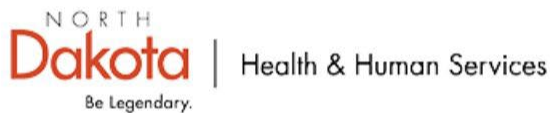


PROUD PARTNER

**GET
HOME**

SAFE

NORTH DAKOTA



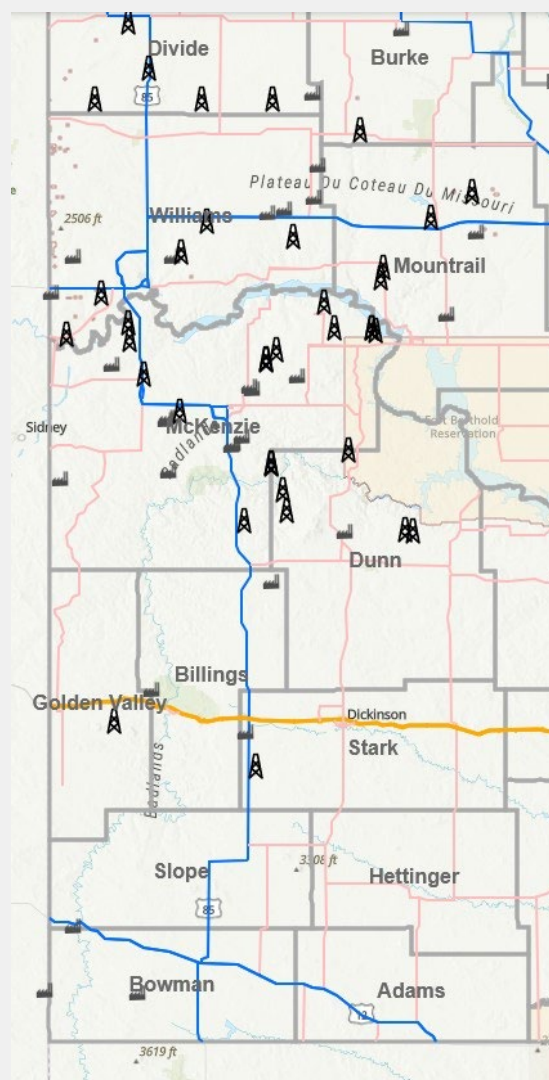
**NORTH DAKOTA
PETROLEUM
COUNCIL**



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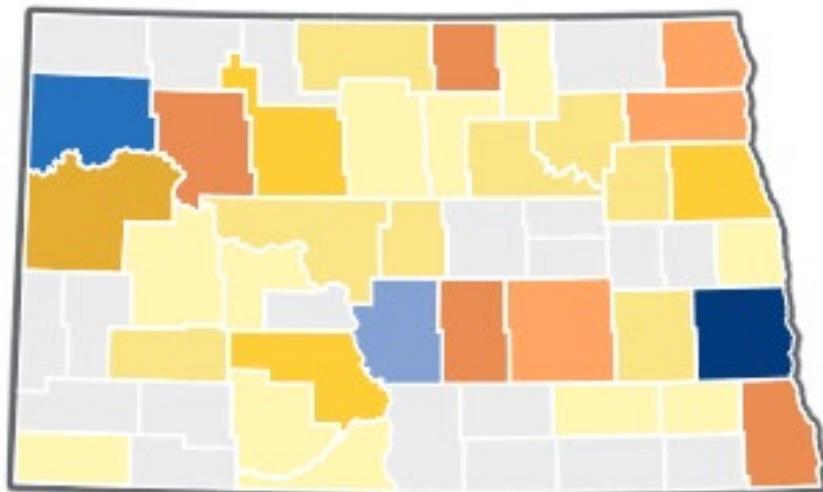
A Closer Look...



ND Motor Vehicle Crash Data



Zero fatalities. Zero excuses.



North Dakota Motor Vehicle Crashes, Fatalities and Injuries by County, 2022

County	Crashes	Fatalities	Injuries	Crash Rate per MVMT
Billings	31	0	3	.41
Bowman	11	1	2	.23
Dunn	67	1	21	.46
McKenzie	216	6	75	.57
Mountrail	95	4	42	.42
Slope	10	0	4	.34
Stark	497	2	113	1.30
Williams	531	8	191	1.01

2024 North Dakota Vehicle Fatalities to Date

57

North Dakota DOT VISION ZERO

Zero fatalities. Zero excuses.

The Highway Safety Corridor project on U.S. Highway 85 from Belfield to Watford City has completed the installation of enhanced safety features.

The 70-mile stretch of highway now includes additional signage indicating reduced speed, no-passing zones, information about road conditions, and reminders to buckle up, drive sober, and distraction-free. In addition to these signs, pavement markings will be more visible, especially in dark or wet conditions.

Three other sections of North Dakota highways are designated Safety Corridors. Highway 85 from Watford City to Highway 68; Highway 52 from Brooks Junction to Velva; and Highway 83 from Bismarck to Washburn.

Since being introduced in 2019, data from these North Dakota corridors show:

Total crashes in all three corridors since installation have decreased by approximately 30%.

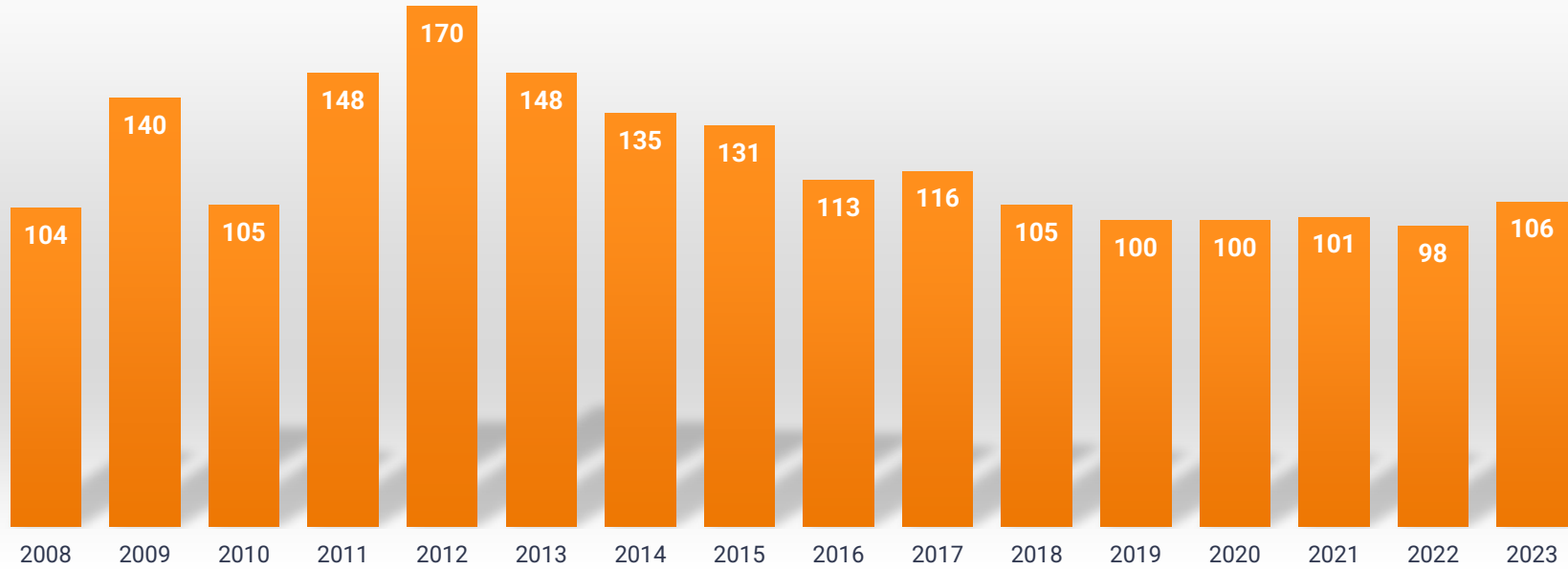
Crash rates in all three corridors have decreased.

Total crashes involving speed decreased by approximately 50% in all three corridors.

North Dakota DOT **VISION ZERO**

Zero fatalities. Zero excuses.

ND Motor Vehicle Fatalities



Getting to Zero

- Layflat water transfer lines
- Full-time professional emergency service network
- Critical upgrades to township, county, and state roadway infrastructure





Thank you!



www.NDOil.org