



ND PSC Rail Service & Safety Discussion

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BNSF RAILWAY PUBLIC AFFAIRS

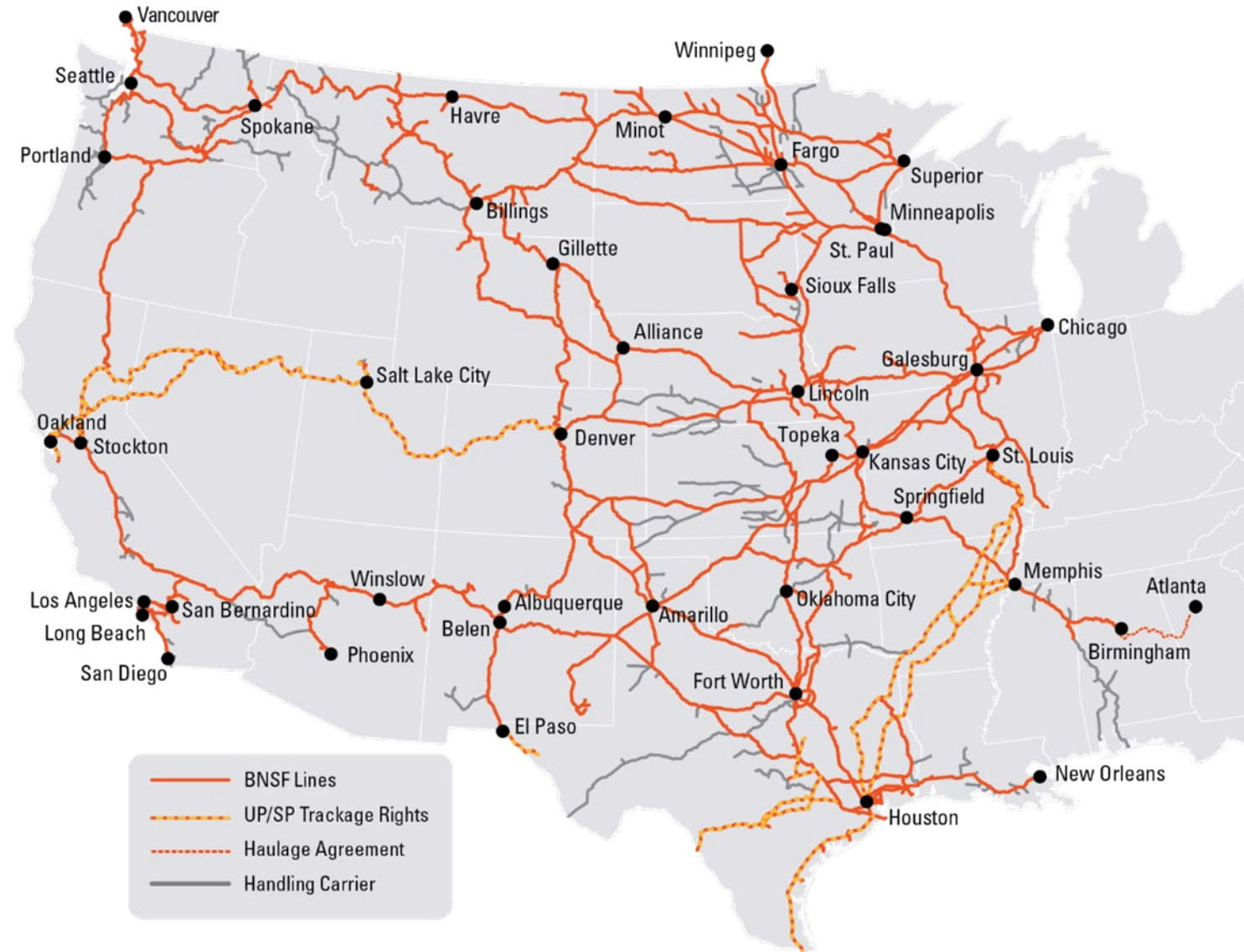
MAY 27, 2021



Our Network



- **32,500 route miles** in 28 states and three Canadian provinces
- **13,000** bridges and **89** tunnels
- Serves **+40 ports**
- **25** intermodal facilities



BNSF in North Dakota



@1,200
Employees

1,600+
Route Miles



~352,000
Carloads shipped from state



\$1.5 Billion
Invested Since 2013



The BNSF Vision



Our vision is to realize the tremendous potential of BNSF Railway by providing transportation services that consistently meet our customers' expectations.



BNSF – A Culture Focused on Safety



SAFETY VISION: To operate free of accidents and injuries



EMPLOYEE



OPERATIONAL



COMMUNITY

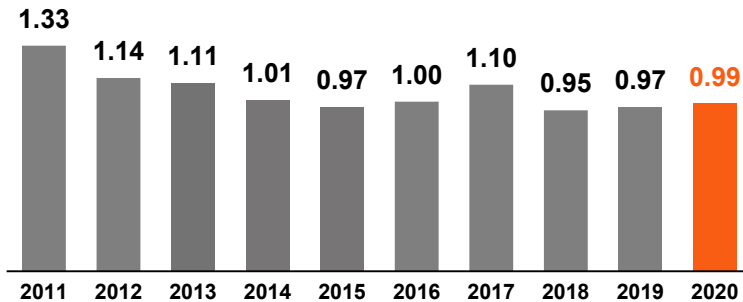


BNSF – Safety Results



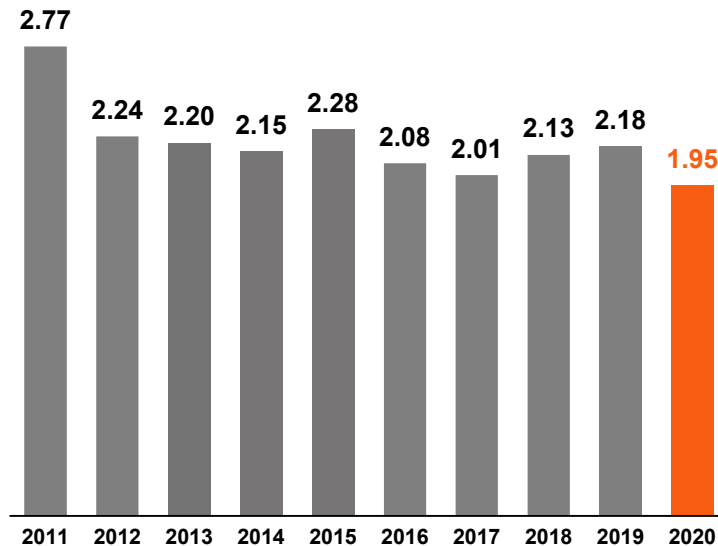
Employee Frequency

Reportable Personal Injury Incidents
Per 200,000 Employee Hours



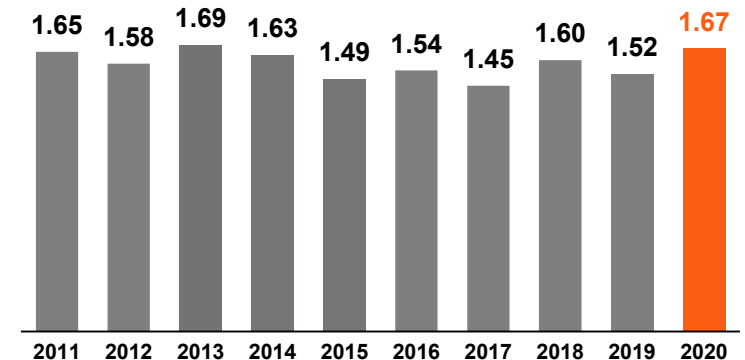
Rail Equipment

Reportable Derailment Incidents
Per Million Train Miles



Public

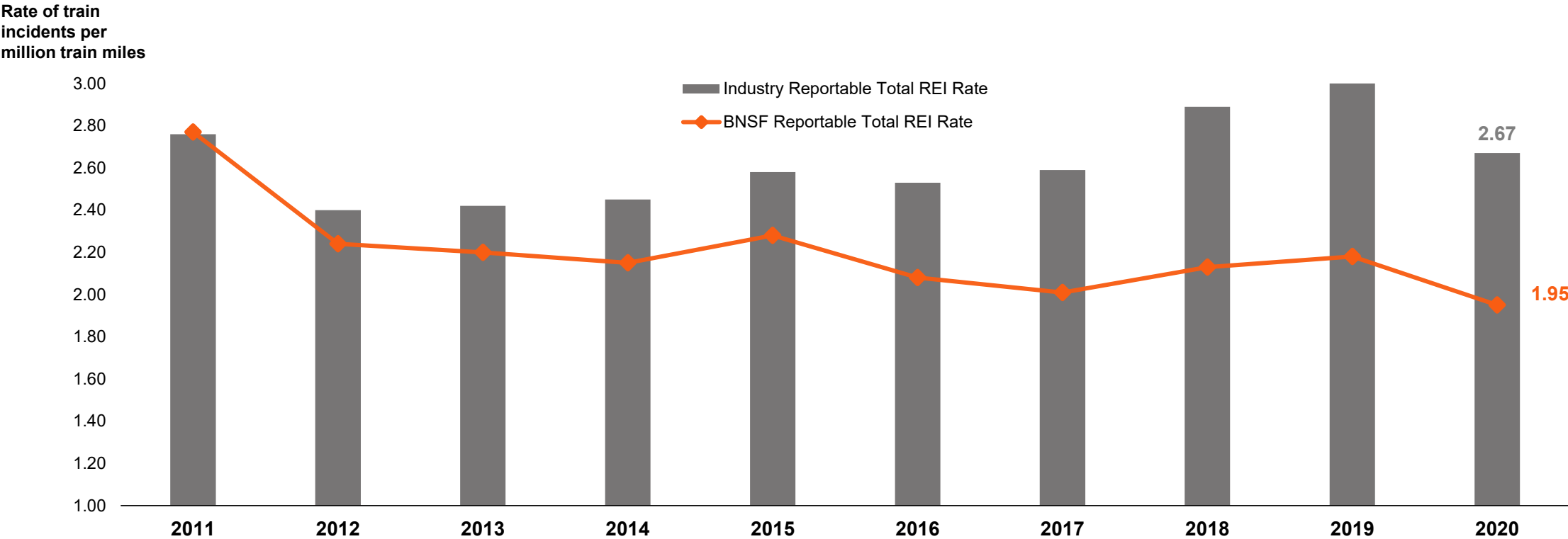
Crossing Accidents
Per Million Train Miles



Safety Leader for Risk Reduction



From 2011, the industry rail equipment incident rate has decreased by 3%, while BNSF's rail equipment incident rate has been reduced by nearly 30%.



Source: FRA 1.12 – Ten Year Accident/Incident Overview. Industry reflects Class I excluding Amtrak.

Technology Enhances Safety and Efficiency



More than 4 million revenue service trips using Positive Train Control (PTC)



Wayside Detectors take **+35 million** readings daily

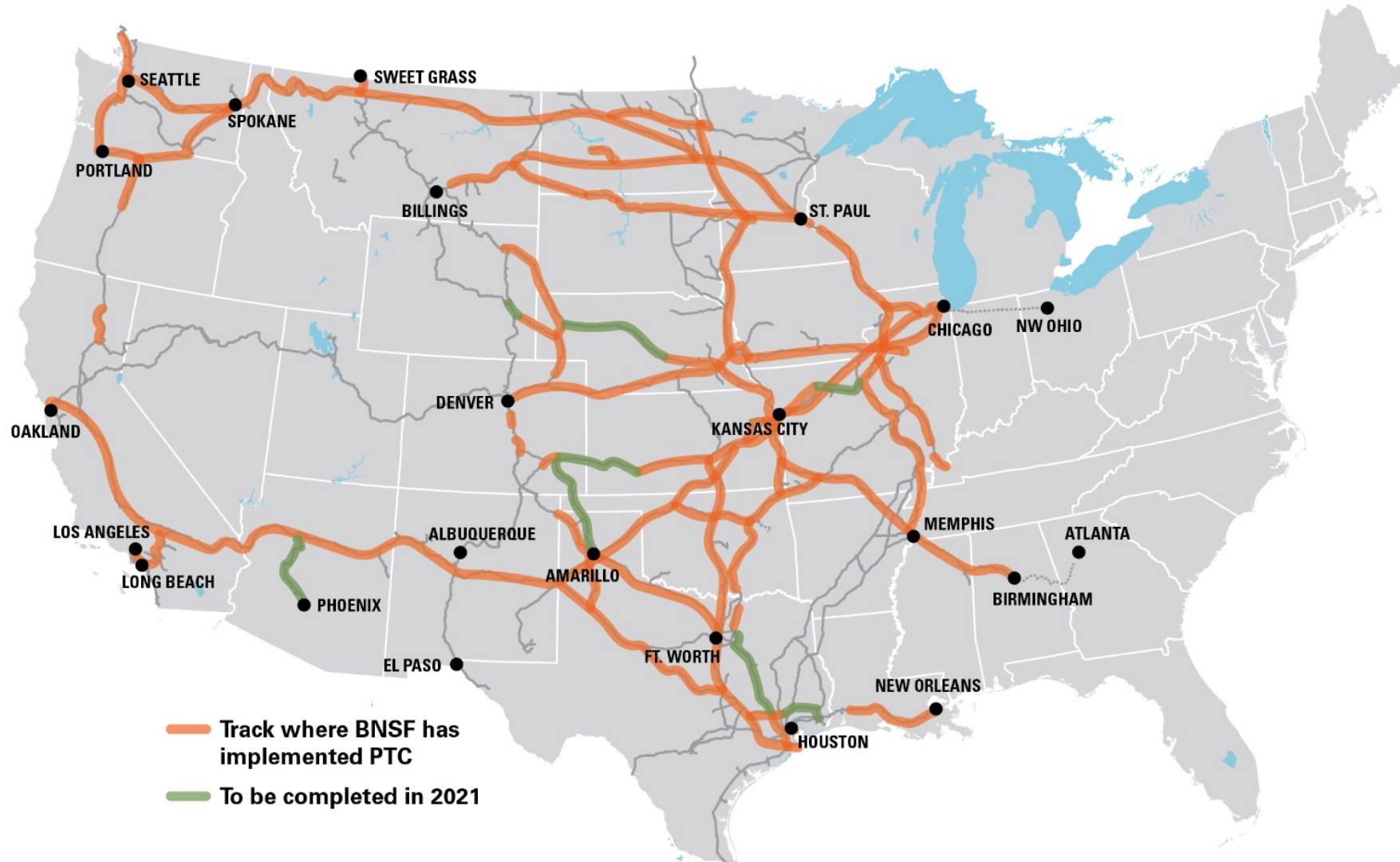


Autonomous Track Geometry Cars increase the number of miles inspected



Utilizing **Big Data Analytics** for a comprehensive view

Positive Train Control (PTC) – BNSF's Network

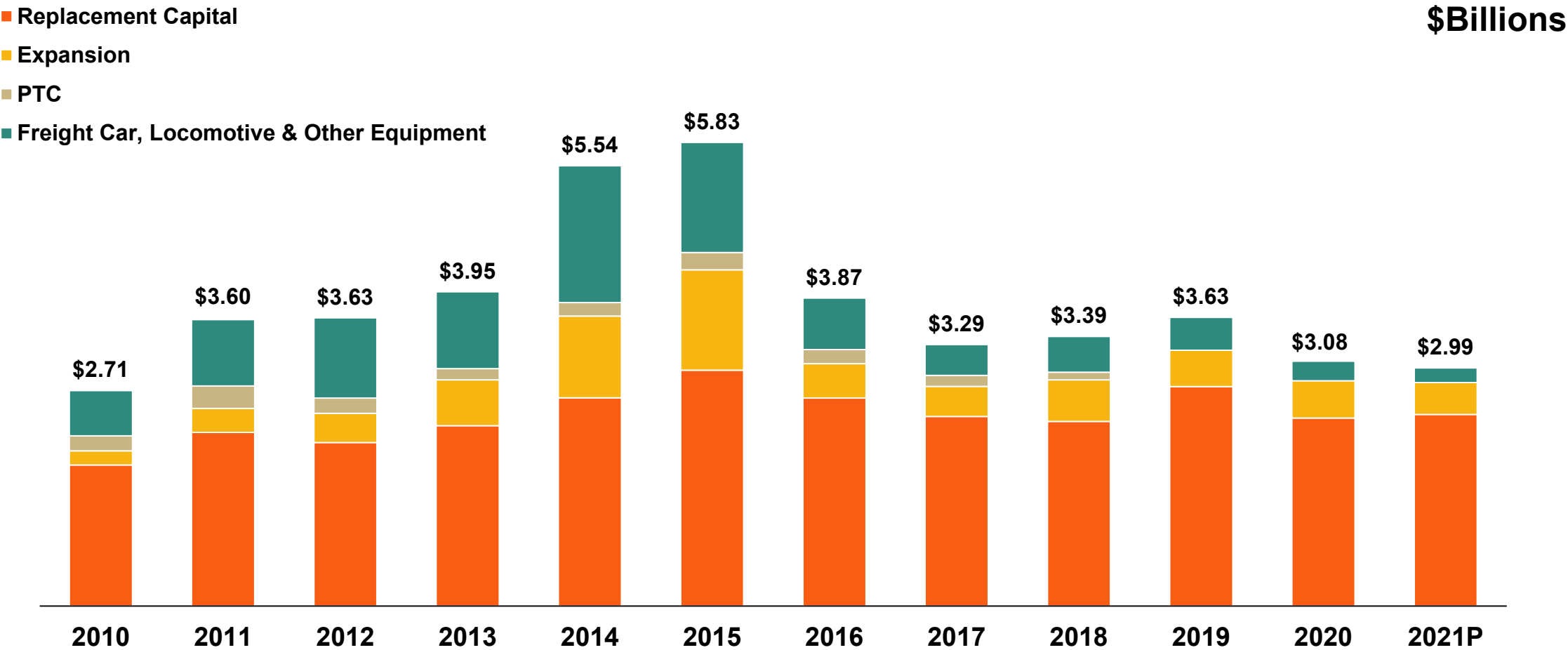


Prevention: Equipment Detection Technology

- More than 4,000 trackside detectors
- Hot Box Detector (HBD)
- Wheel Load Impact Detector (WILD)
- Trackside Acoustical Detector (TADS)
- Sonic Cracked Wheel/Axle Detector (CWAD)
- Machine Vision Systems
- Magnetic Particle Inspection
- Warm Bearing Detection System (WBDS)
- Hot Wheel Detectors (HWD)
- Truck Performance Detectors (TPD)



BNSF's Capital Investments

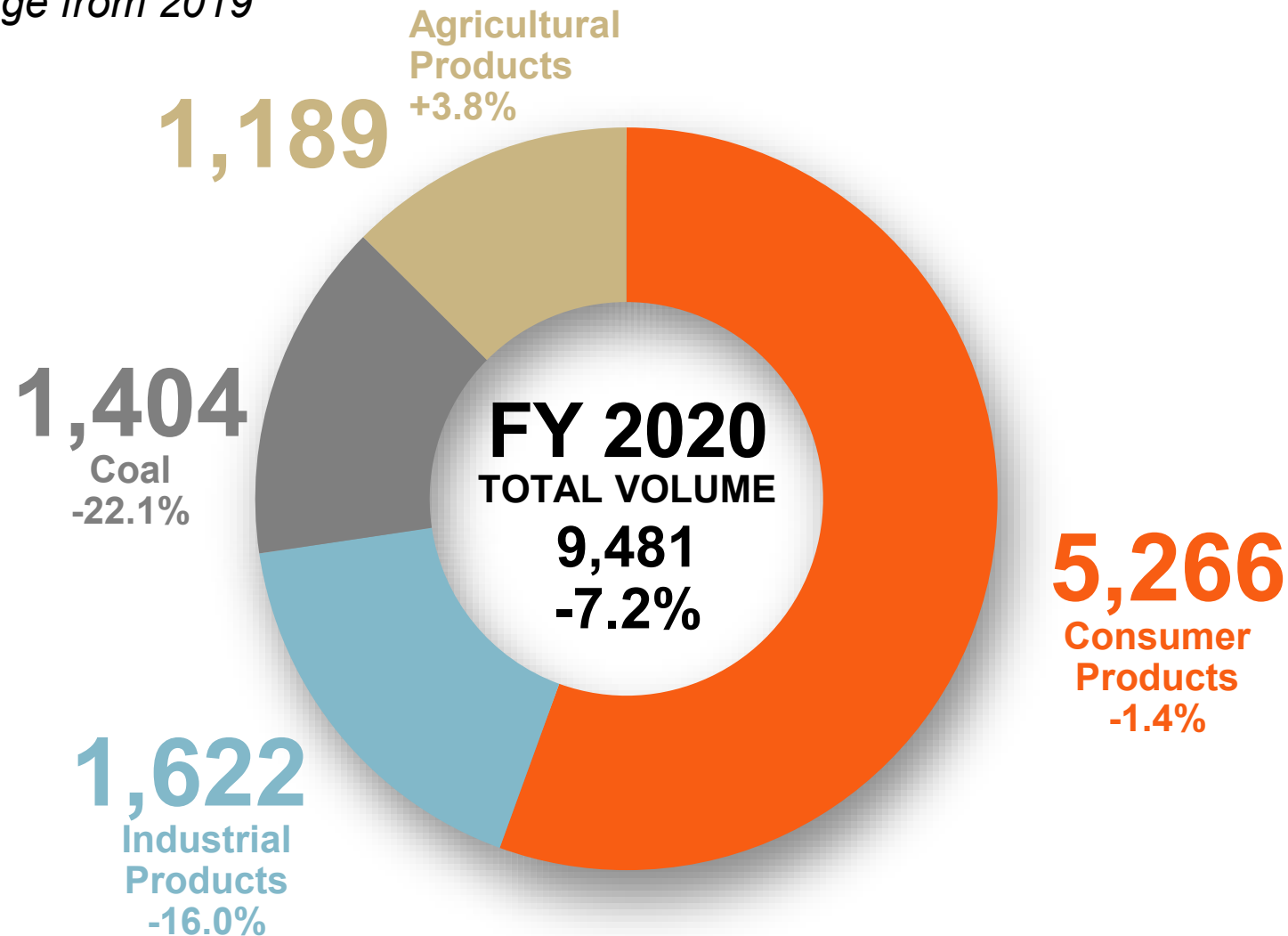


BNSF Volume – Full Year 2020



Total units and % change from 2019

In Thousands

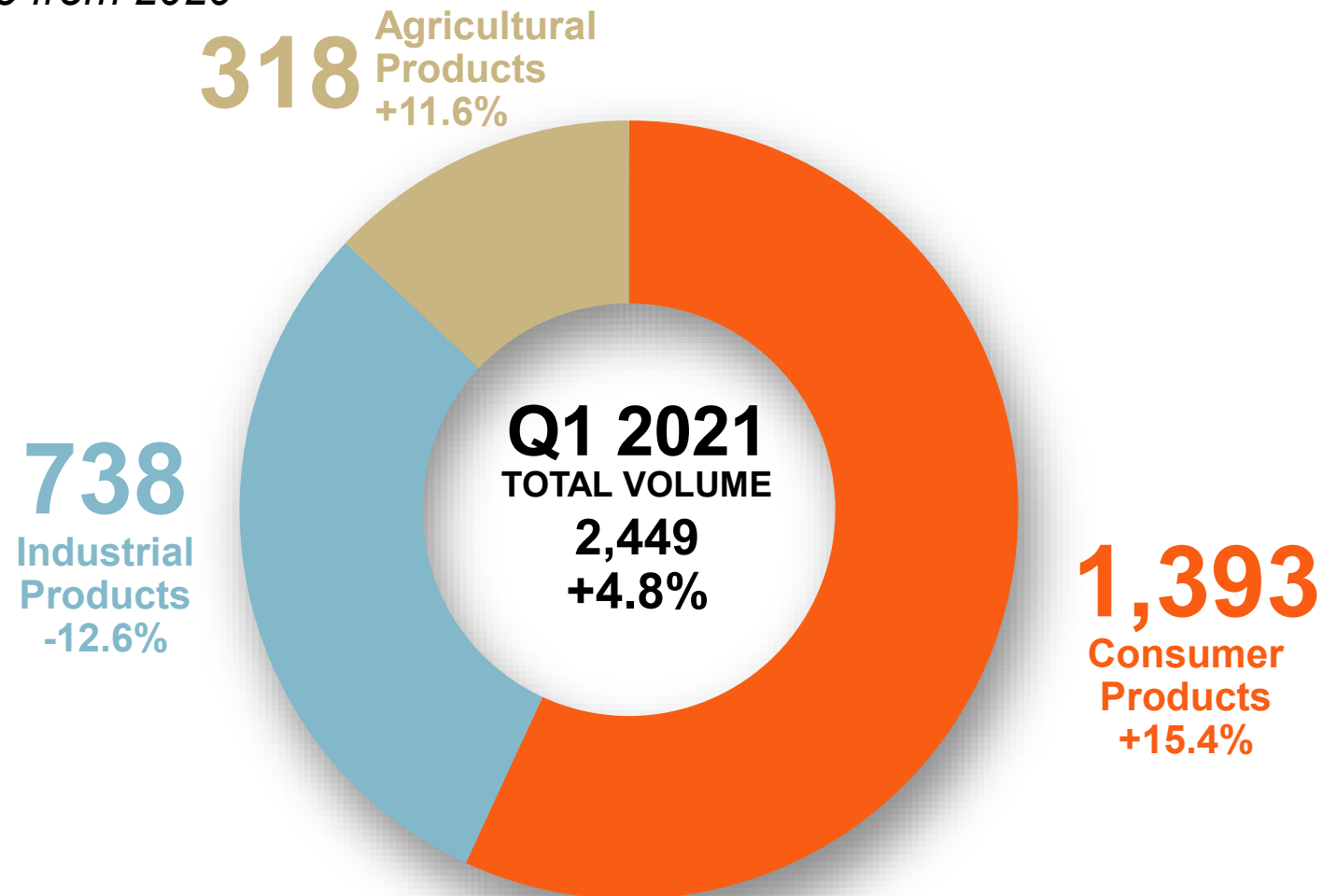


BNSF Volume – 1st Quarter 2021



Total units and % change from 2020

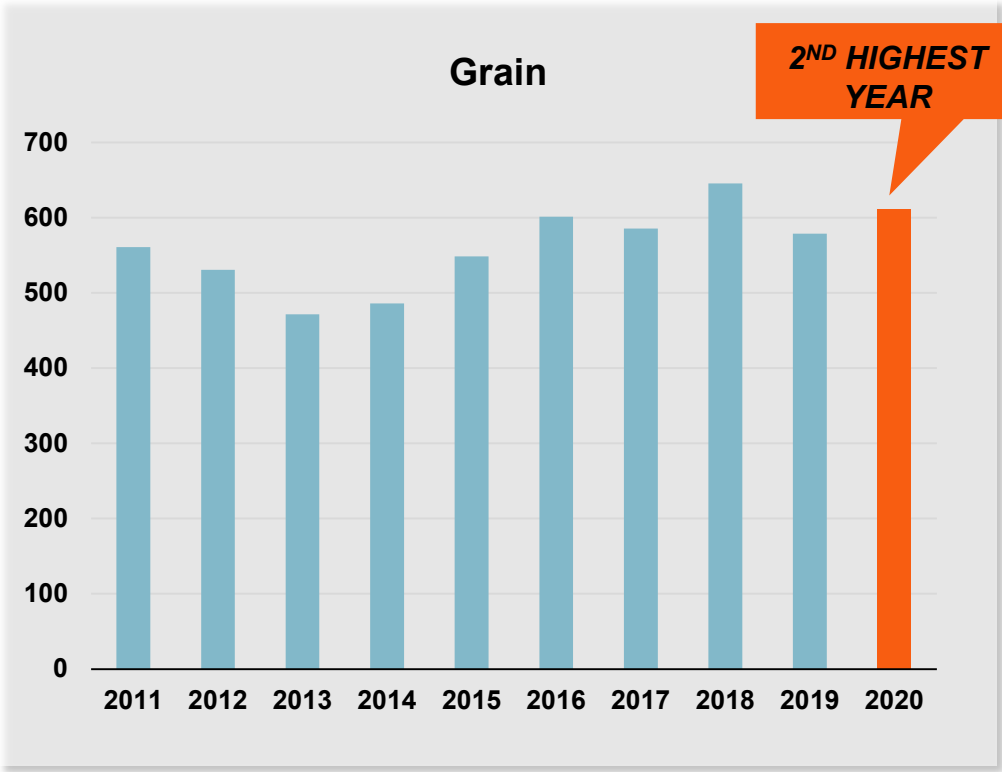
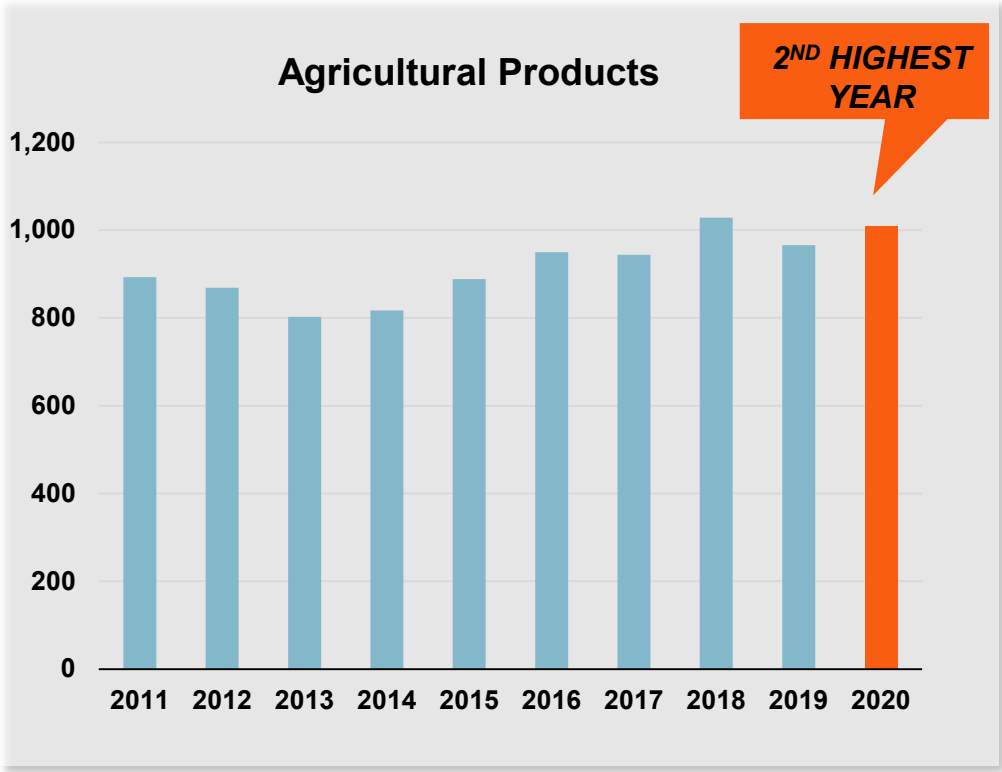
In Thousands



BNSF Agricultural Volumes



(Thousands of units)



BNSF Bismarck Bridge

Condition-based replacement, components
130 yrs old. Current speed & weight restrictions.

ND grain for exports to PNW, aggregates, energy
products all traverse bridge

New structure to provide significant improvement
in **operational reliability, safety**

3.5 years in permitting process,
U.S. Coast Guard preparing draft **EIS**, public
comment **June 14-July 28**, public meeting TBD
later June

@\$60 mil BNSF project. Alternatives leaving
existing bridge increase costs \$60-\$90 mil, impact
property, delay construction

Text [Railroad Bridge to 52886](#) for updates



