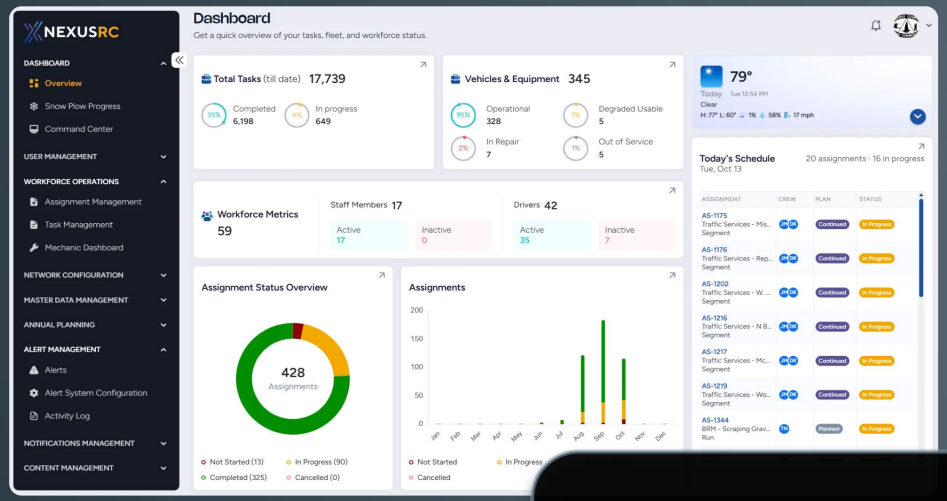


NEXUSRC

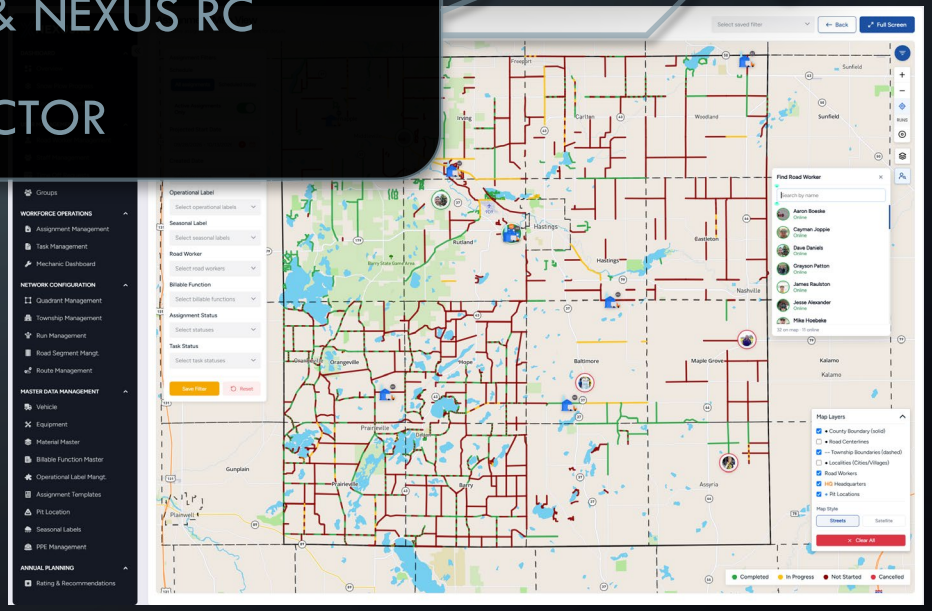
MODERNIZING AN AGE-OLD INDUSTRY

BARRY COUNTY ROAD COMMISSION & NEXUS RC

JAKE WELCH, MANAGING DIRECTOR







PART 01

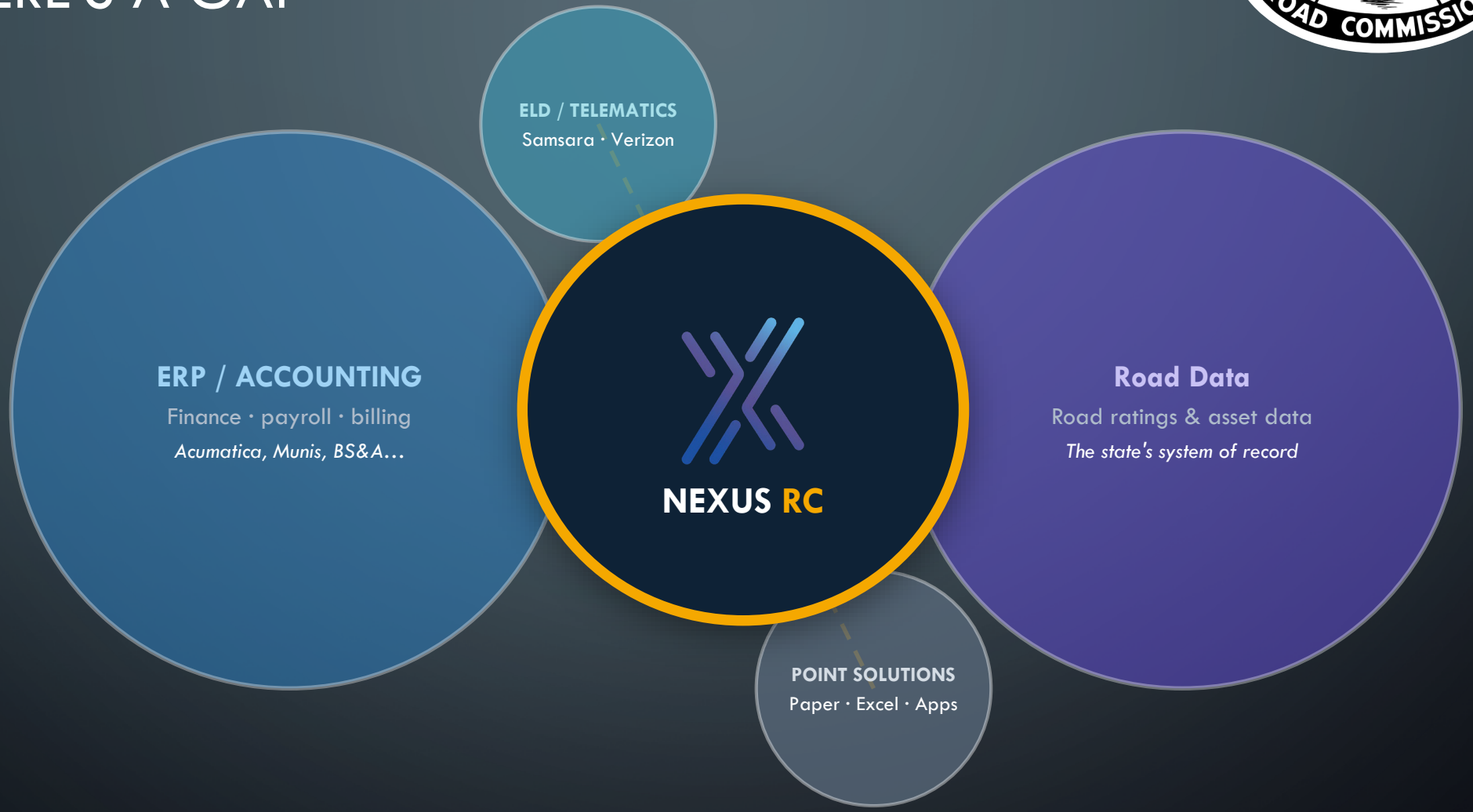
WHY WE WENT LOOKING

One system for the office, the road and the shop.

- **Why we went looking**
- A winter night
- Out on the road
- The bigger picture

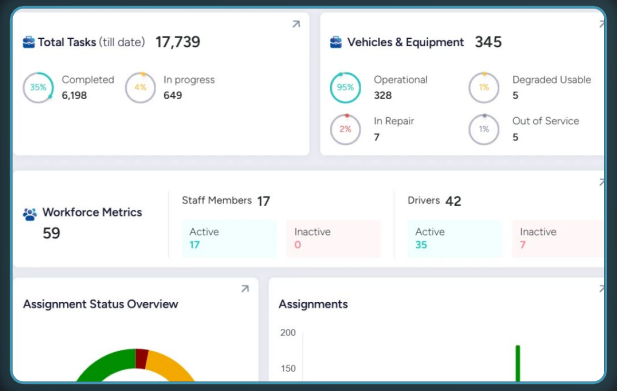
THE INDUSTRY TODAY

THERE'S A GAP

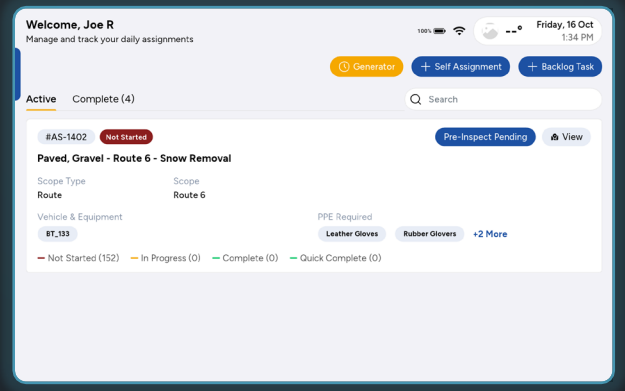



FINANCE
FUNDING & REVENUE
BUDGETING
FINANCIAL PLANNING
PURCHASING & CONTRACTS
ACCOUNTABILITY
OPERATIONS
ROAD MAINTENANCE
CONSTRUCTION
EQUIPMENT
FACILITIES
SAFETY
ENGINEERING
PLANNING & DESIGN
PROJECT DEVELOPMENT
BRIDGE MANAGEMENT
ASSET MANAGEMENT
PERMITS & COMPLIANCE
NEXUSRC
ORGANIZATIONAL SUCCESS

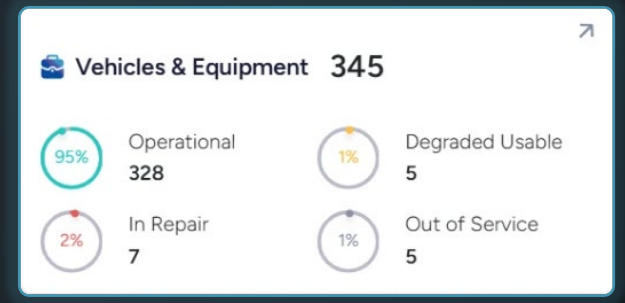
WHO IS NEXUS RC FOR?



The office



The cab

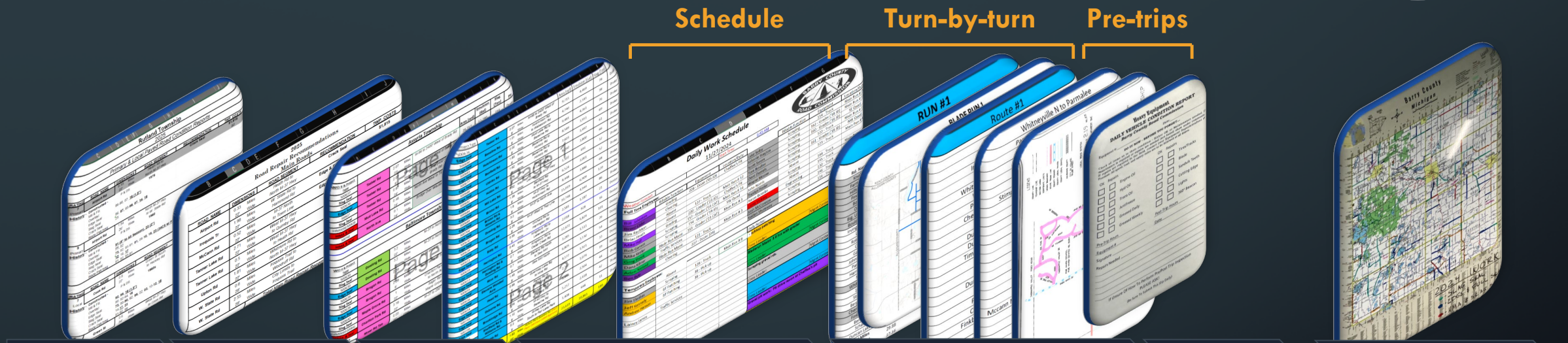


The shop

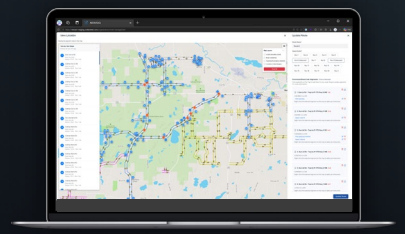
The surprise of our rollout: **how much our crews liked it.**

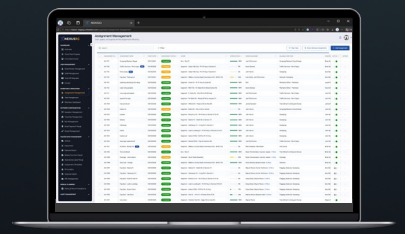
THE BACKSTORY · MARCH 2024

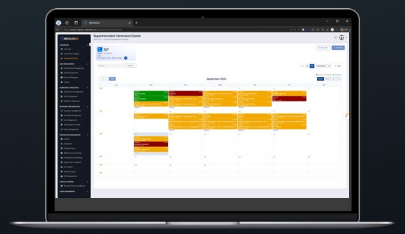
WE ASKED FOR A DAILY SOLVE

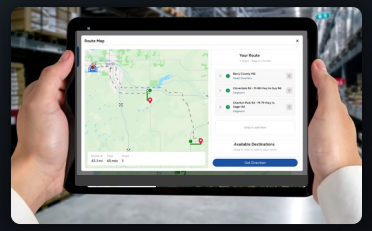


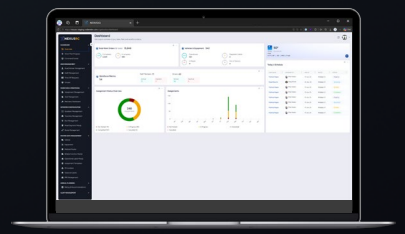
NEXUSRC


Segments & routes


Data grids


Command Center


MiDay & turn-by-turn


Director dashboard

PART 02

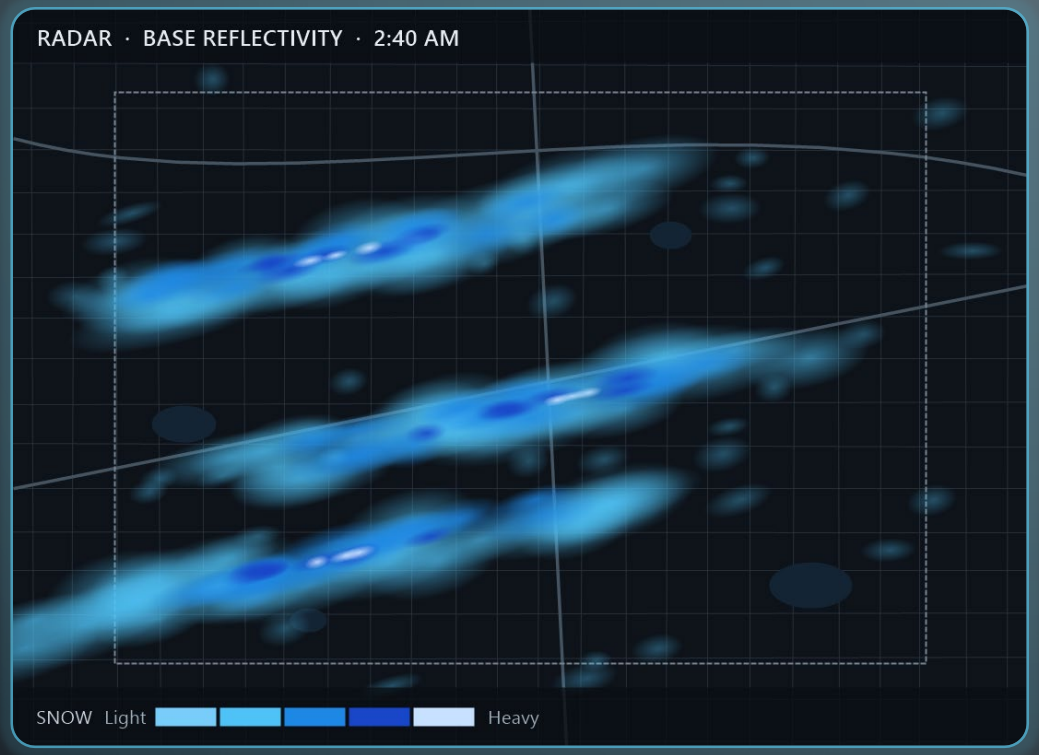
A WINTER NIGHT

12 to 16 hour days and 3 AM wake-ups. Zoom all the way in.

- Why we went looking
- **A winter night**
- Out on the road
- The bigger picture

2:40 AM · THE OLD WAY

TIME TO PLOW. NOW THE PHONE CALLS START





Who's coming?

Who's here?

What equipment's ready?

3:00 AM · L1 ALERT

ONE ALERT TO EVERY DRIVER



NEXUS automates the calls & texts

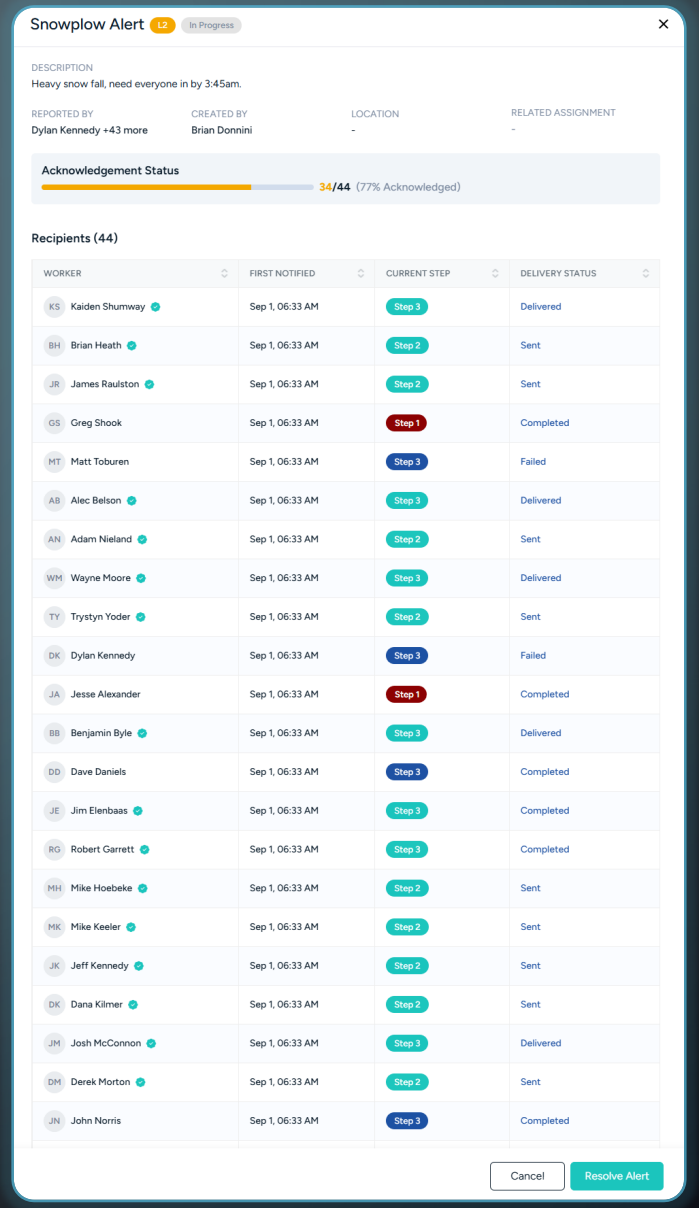
Every phone rings, NEXUS calls again if no answer…

One tap ack: I'm coming

3:05 AM · ALERT MANAGEMENT

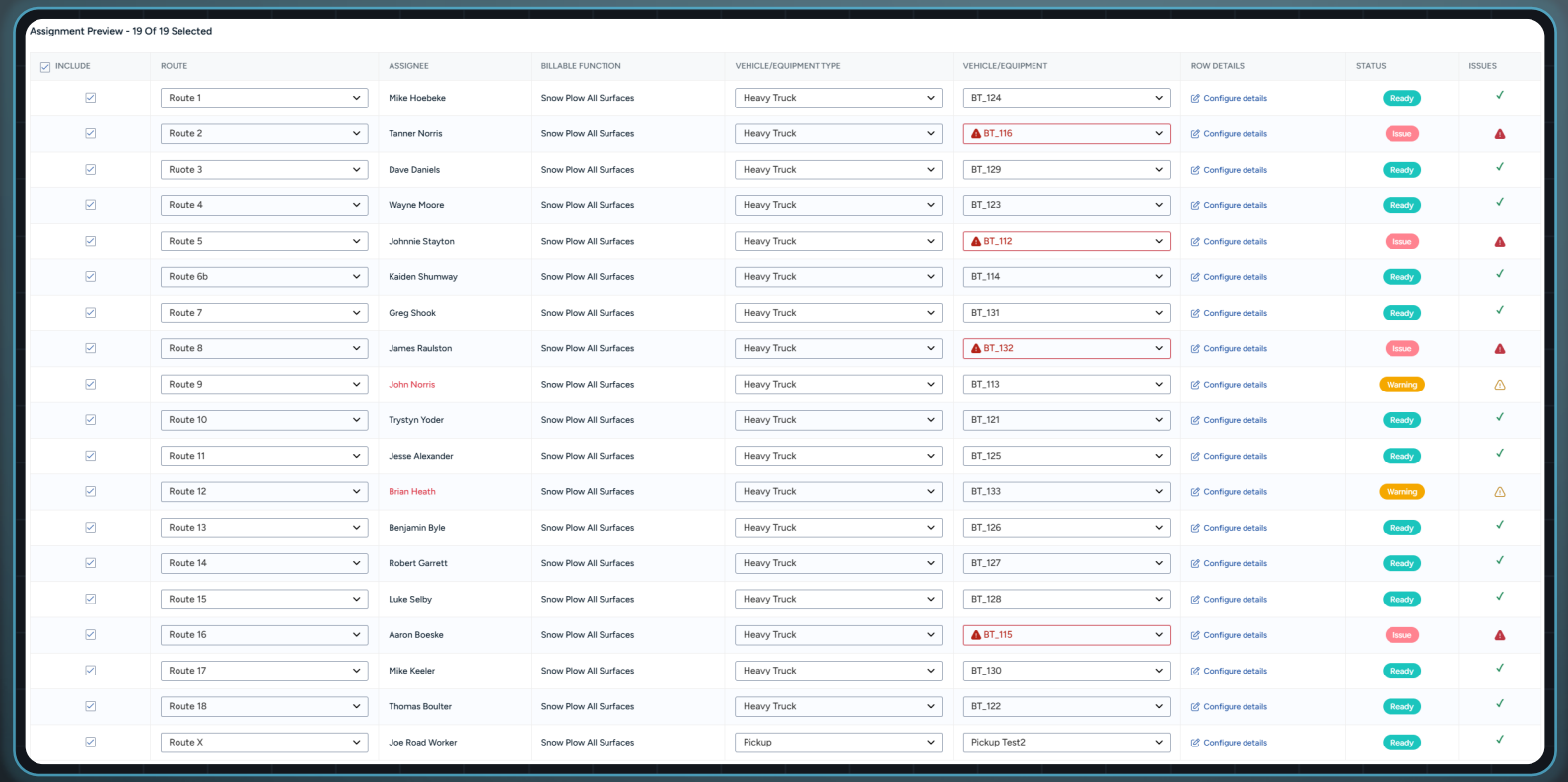
WHO'S COMING? IT'S ALL IN ONE LIST

- Who Acknowledged
- Re-called or texted after 5 min
- Chaos Organized



3:15 AM · BULK PLAN

ALL 20 ROUTES IN A COUPLE CLICKS



Assignment Preview - 19 Of 19 Selected

INCLUDE	ROUTE	ASSIGNEE	BILLABLE FUNCTION	VEHICLE/EQUIPMENT TYPE	VEHICLE/EQUIPMENT	ROW DETAILS	STATUS	ISSUES
☑	Route 1	Mike Hoebeke	Snow Plow All Surfaces	Heavy Truck	BT_124	Configure details	Ready	✓
☑	Route 2	Tanner Norris	Snow Plow All Surfaces	Heavy Truck	⚠ BT_116	Configure details	Issue	⚠
☑	Ruote 3	Dave Daniels	Snow Plow All Surfaces	Heavy Truck	BT_129	Configure details	Ready	✓
☑	Route 4	Wayne Moore	Snow Plow All Surfaces	Heavy Truck	BT_123	Configure details	Ready	✓
☑	Route 5	Johnnie Stayton	Snow Plow All Surfaces	Heavy Truck	⚠ BT_112	Configure details	Issue	⚠
☑	Route 6b	Kaiden Shumway	Snow Plow All Surfaces	Heavy Truck	BT_114	Configure details	Ready	✓
☑	Route 7	Greg Shook	Snow Plow All Surfaces	Heavy Truck	BT_131	Configure details	Ready	✓
☑	Route 8	James Raulston	Snow Plow All Surfaces	Heavy Truck	⚠ BT_132	Configure details	Issue	⚠
☑	Route 9	John Norris	Snow Plow All Surfaces	Heavy Truck	BT_113	Configure details	Warning	⚠
☑	Route 10	Trystyn Yoder	Snow Plow All Surfaces	Heavy Truck	BT_121	Configure details	Ready	✓
☑	Route 11	Jesse Alexander	Snow Plow All Surfaces	Heavy Truck	BT_125	Configure details	Ready	✓
☑	Route 12	Brian Heath	Snow Plow All Surfaces	Heavy Truck	BT_133	Configure details	Warning	⚠
☑	Route 13	Benjamin Byle	Snow Plow All Surfaces	Heavy Truck	BT_126	Configure details	Ready	✓
☑	Route 14	Robert Garrett	Snow Plow All Surfaces	Heavy Truck	BT_127	Configure details	Ready	✓
☑	Route 15	Luke Selby	Snow Plow All Surfaces	Heavy Truck	BT_128	Configure details	Ready	✓
☑	Route 16	Aaron Boeske	Snow Plow All Surfaces	Heavy Truck	⚠ BT_115	Configure details	Issue	⚠
☑	Route 17	Mike Keeler	Snow Plow All Surfaces	Heavy Truck	BT_130	Configure details	Ready	✓
☑	Route 18	Thomas Boulter	Snow Plow All Surfaces	Heavy Truck	BT_122	Configure details	Ready	✓
☑	Route X	Joe Road Worker	Snow Plow All Surfaces	Pickup	Pickup Test2	Configure details	Ready	✓

Who's out?

What's in repair?

Failed pre-trip?

0 of 19 Selected

ROUTE	ASSIGNEE	BILLABLE FUNCTION	VEHICLE/EQUIPMENT TYPE	VEHICLE/EQUIPMENT	ROW DETAILS	STATUS
Route 1	Mike Hoebeke	Snow Plow All Surfaces	Heavy Truck	BT_124	Configure details	Ready
Route 2	Tanner Norris	Snow Plow All Surfaces	Heavy Truck	BT_116	Configure details	Issue
Ruote 3	Dave Daniels	Snow Plow All Surfaces	Heavy Truck	BT_129	Configure details	Ready
Route 4	Wayne Moore	Snow Plow All Surfaces	Heavy Truck	BT_123	Configure details	Ready
Route [illegible]	[illegible]ton	[illegible]	[illegible]	BT_112	Configure details	Issue
[illegible]	[illegible]	[illegible]	[illegible]	BT_114	Configure details	Ready
[illegible]	[illegible]	Snow Plow All Surfaces	[illegible]	BT_131	Configure details	Ready
Route 8	James Raulston	Snow Plow All Surfaces	Heavy Truck	BT_132	Configure details	Issue
Route 9	John Norris	Snow Plow All Surfaces	Heavy Truck	BT_113	Configure details	Warning
Route 10	Trystyn Yoder	Snow Plow All Surfaces	Heavy Truck	BT_121	Configure details	Ready
Route 11	Jesse Alexander	Snow Plow All Surfaces	Heavy Truck	BT_125	Configure details	Ready
Route 12	Brian Heath	Snow Plow All Surfaces	Heavy Truck	BT_133	Configure details	Warning
Route 13	Benjamin Byle	Snow Plow All Surfaces	Heavy Truck	BT_126	Configure details	Ready
Route 14	Robert Garrett	Snow Plow All Surfaces	Heavy Truck	BT_127	Configure details	Ready
Route 15	Luke Selby	Snow Plow All Surfaces	Heavy Truck	BT_128	Configure details	Ready
Route 16	Aaron Boeske	Snow Plow All Surfaces	Heavy Truck	BT_115	Configure details	Issue
Route 17	Mike Keeler	Snow Plow All Surfaces	Heavy Truck	BT_130	Configure details	Ready
Route 18	Thomas Boulter	Snow Plow All Surfaces	Heavy Truck	BT_122	Configure details	Ready
Route X	Joe Road Worker	Snow Plow All Surfaces	Pickup	Pickup Test2	Configure details	Ready





PART 03

OUT ON THE ROAD

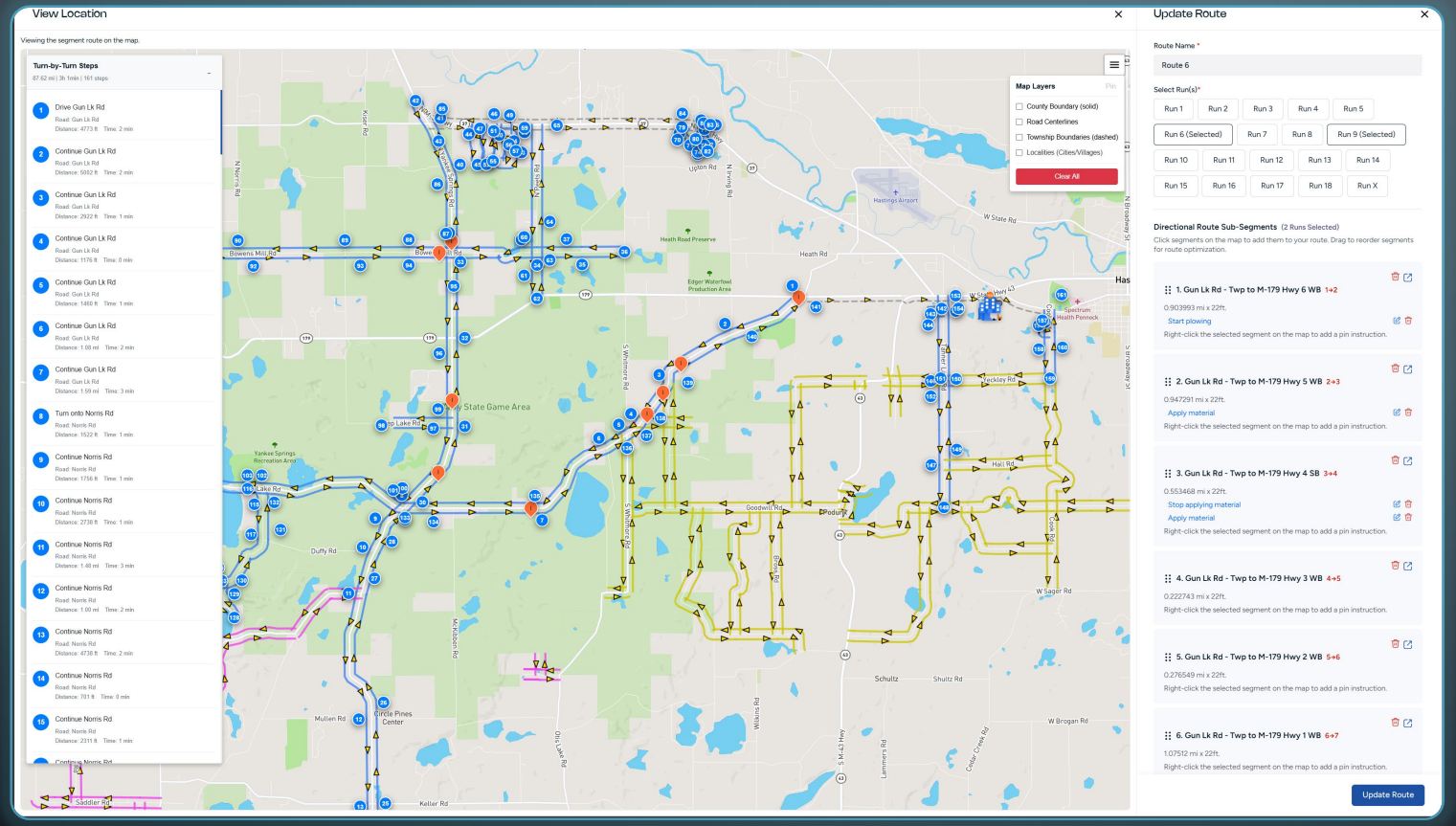
Once they're rolling, it's long, steady work. For staff, it used to be wondering how things are going.

- Why we went looking
- A winter night
- **Out on the road**
- The bigger picture


4:00 AM.
60,000 pounds. Blowing snow.
Loaded with sand and salt.

BEFORE THE SEASON · ROUTE MANAGEMENT

EVERY ROUTE, SET UP OUR WAY

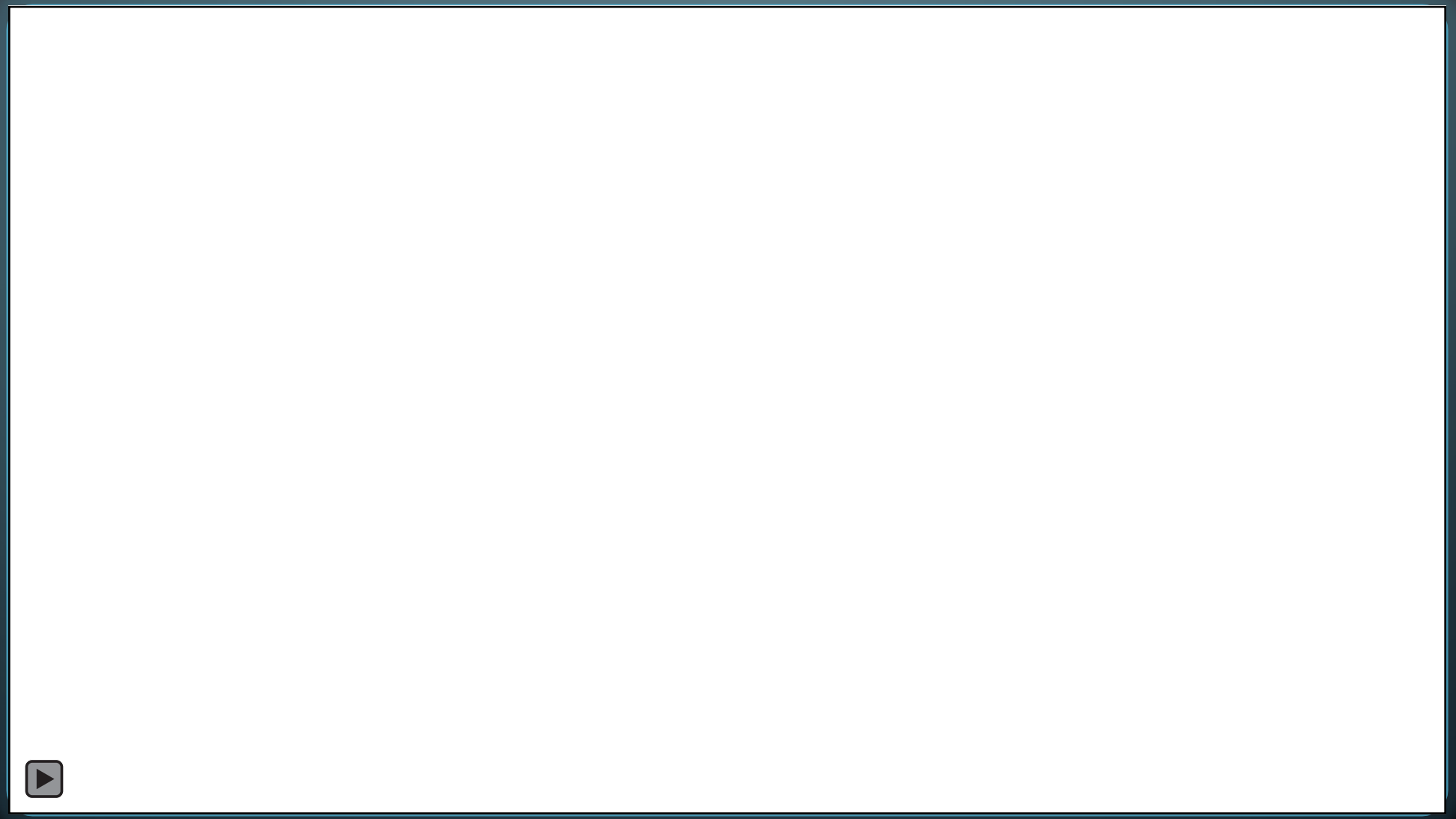


In prioritized plow order

Custom voice prompts

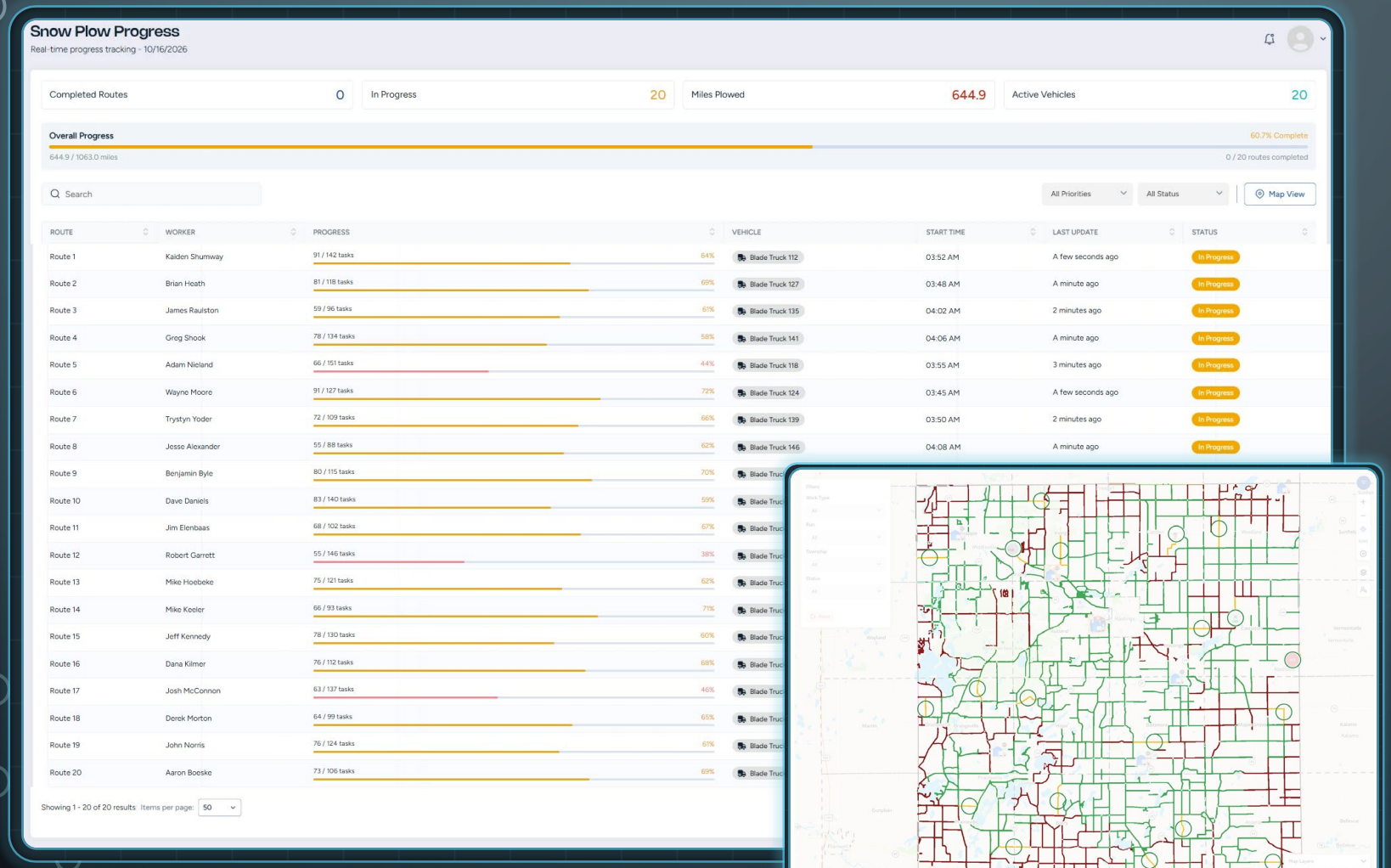
4:00 AM · SOUND ON

TURN-BY-TURN, OUT LOUD



9:00 AM · SNOWPLOW PROGRESS

SOME ROUTES ARE BEHIND. ADD ROAD WORKERS



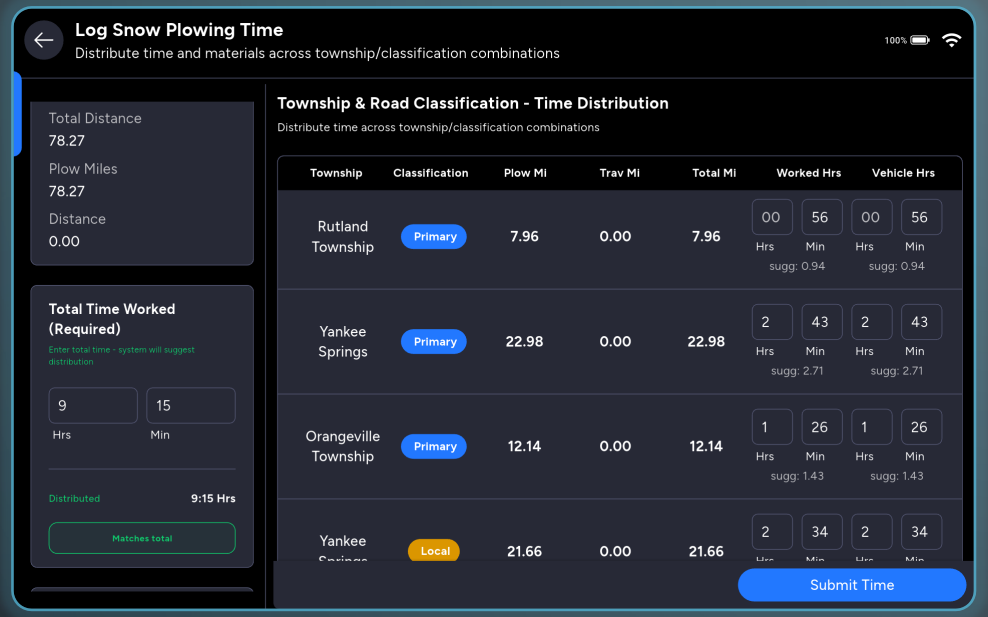
See which routes are behind

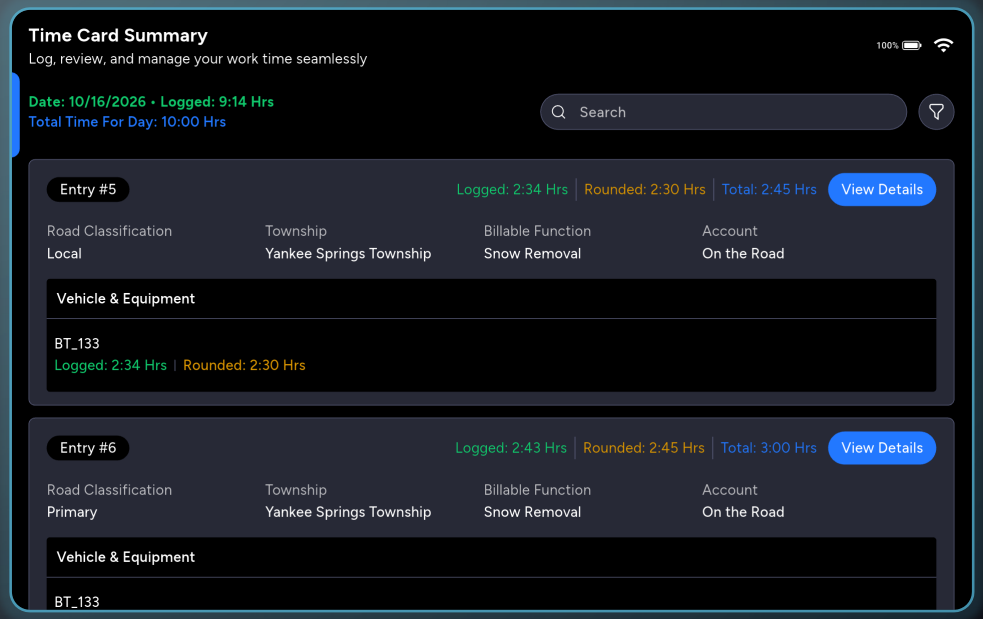
Add road workers to an assignment

They see what's left to plow

END OF SHIFT · TIME CARD SUMMARY

THE TIME CARD IS ALREADY DONE





By township and road class. Easy & Accurate.

PART 04

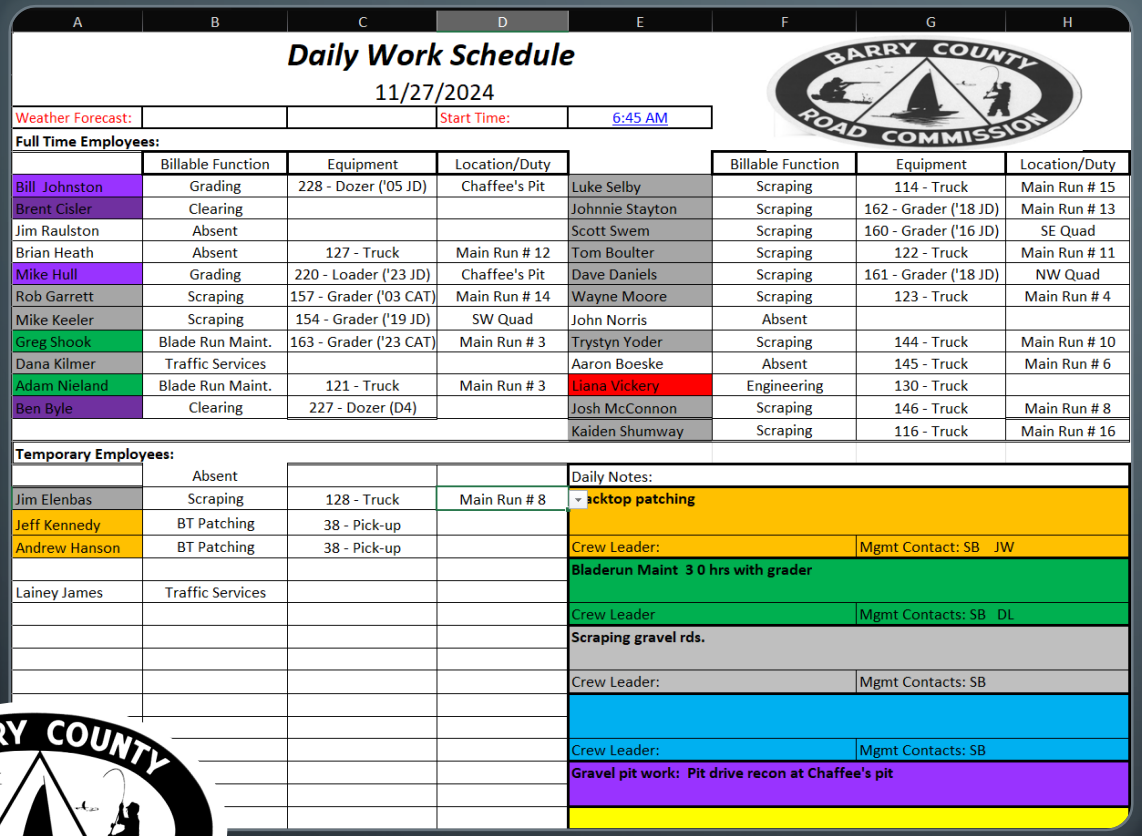
THE BIGGER PICTURE

Winter's the hard part. Zoom out, and the same system runs the whole year.

- Why we went looking
- A winter night
- Out on the road
- **The bigger picture**

THE HOUR

EVERY MORNING STARTED WITH A CHASE



Daily Work Schedule

11/27/2024

Weather Forecast:			Start Time:	6:45 AM

Full Time Employees:

	Billable Function	Equipment	Location/Duty		Billable Function	Equipment	Location/Duty
Bill Johnston	Grading	228 - Dozer ('05 JD)	Chaffee's Pit	Luke Selby	Scraping	114 - Truck	Main Run # 15
Brent Cisler	Clearing			Johnnie Stayton	Scraping	162 - Grader ('18 JD)	Main Run # 13
Jim Raulston	Absent			Scott Swem	Scraping	160 - Grader ('16 JD)	SE Quad
Brian Heath	Absent	127 - Truck	Main Run # 12	Tom Boulter	Scraping	122 - Truck	Main Run # 11
Mike Hull	Grading	220 - Loader ('23 JD)	Chaffee's Pit	Dave Daniels	Scraping	161 - Grader ('18 JD)	NW Quad
Rob Garrett	Scraping	157 - Grader ('03 CAT)	Main Run # 14	Wayne Moore	Scraping	123 - Truck	Main Run # 4
Mike Keeler	Scraping	154 - Grader ('19 JD)	SW Quad	John Norris	Absent		
Greg Shook	Blade Run Maint.	163 - Grader ('23 CAT)	Main Run # 3	Trystyn Yoder	Scraping	144 - Truck	Main Run # 10
Dana Kilmer	Traffic Services			Aaron Boeske	Absent	145 - Truck	Main Run # 6
Adam Nieland	Blade Run Maint.	121 - Truck	Main Run # 3	Liana Vickery	Engineering	130 - Truck	
Ben Byle	Clearing	227 - Dozer (D4)		Josh McConnon	Scraping	146 - Truck	Main Run # 8
				Kaiden Shumway	Scraping	116 - Truck	Main Run # 16

Temporary Employees:

	Absent			Daily Notes:	
Jim Elenbas	Scraping	128 - Truck	Main Run # 8	**acktop patching**	
Jeff Kennedy	BT Patching	38 - Pick-up			
Andrew Hanson	BT Patching	38 - Pick-up		Crew Leader:	Mgmt Contact: SB JW
				Bladerun Maint 3 0 hrs with grader	
Lainey James	Traffic Services			Crew Leader	Mgmt Contacts: SB DL
				Scraping gravel rds.	
				Crew Leader:	Mgmt Contacts: SB
				Crew Leader:	Mgmt Contacts: SB
				Gravel pit work: Pit drive recon at Chaffee's pit	

Who's out today?

What's in repair?

Did yesterday's job finish?

THE HOUR: BUILDING THE DAY MEANT CHASING IT

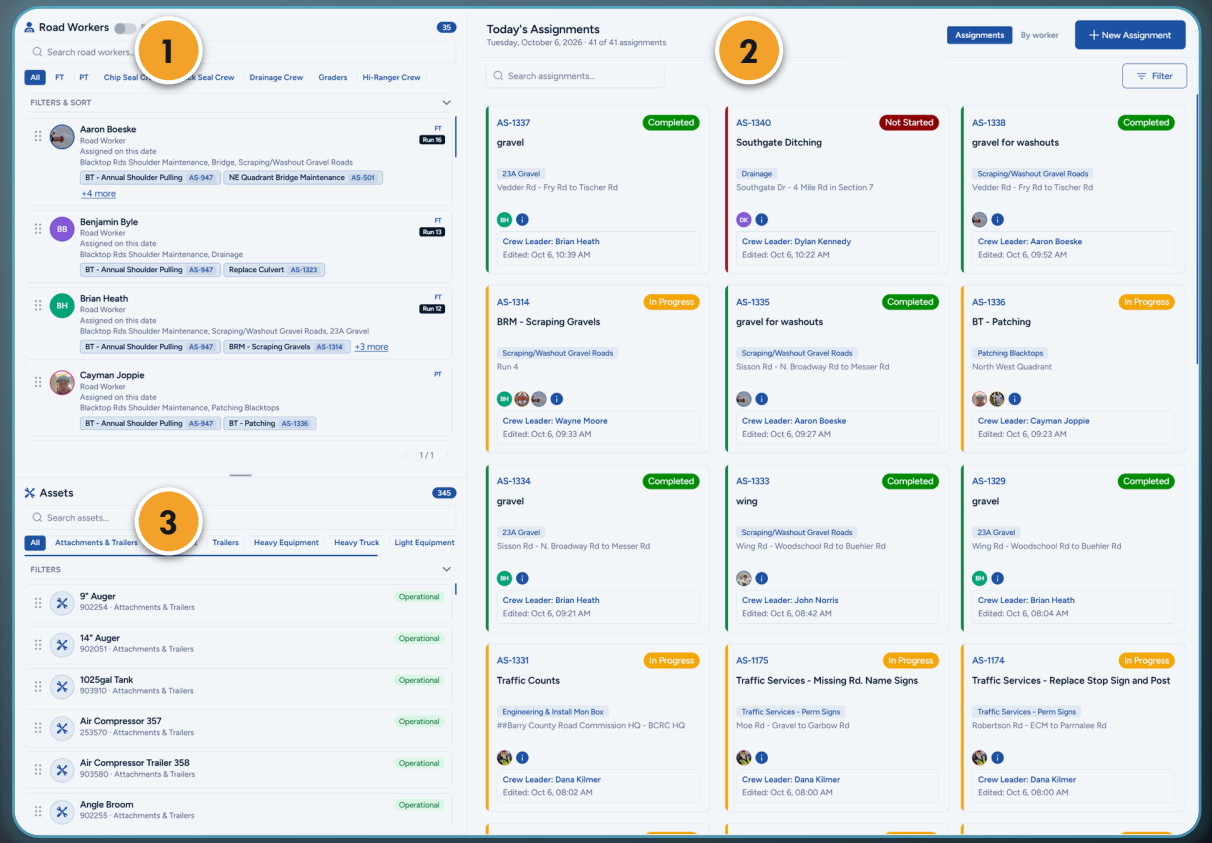
BEFORE

- The schedule lived in a spreadsheet.
- Time off lived in a book, so the schedule didn't know Bob was out.
- Who's here? What's in repair? Did yesterday's job finish?

IN THE CAB

Your truck, run and material are on MiDay before you walk in.

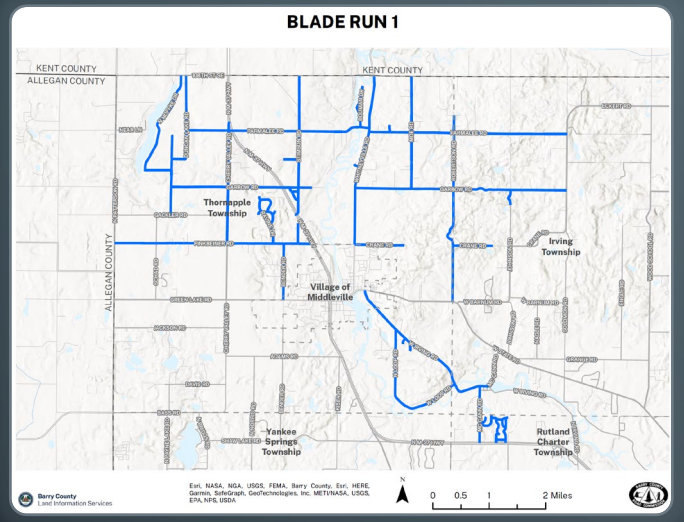
NOW: COMMAND CENTER



1 Who's in, who's out 2 Today's assignments 3 Equipment status

THE DAY · ROUTINE MAINTENANCE

ONE TAP FEEDS EVERYTHING



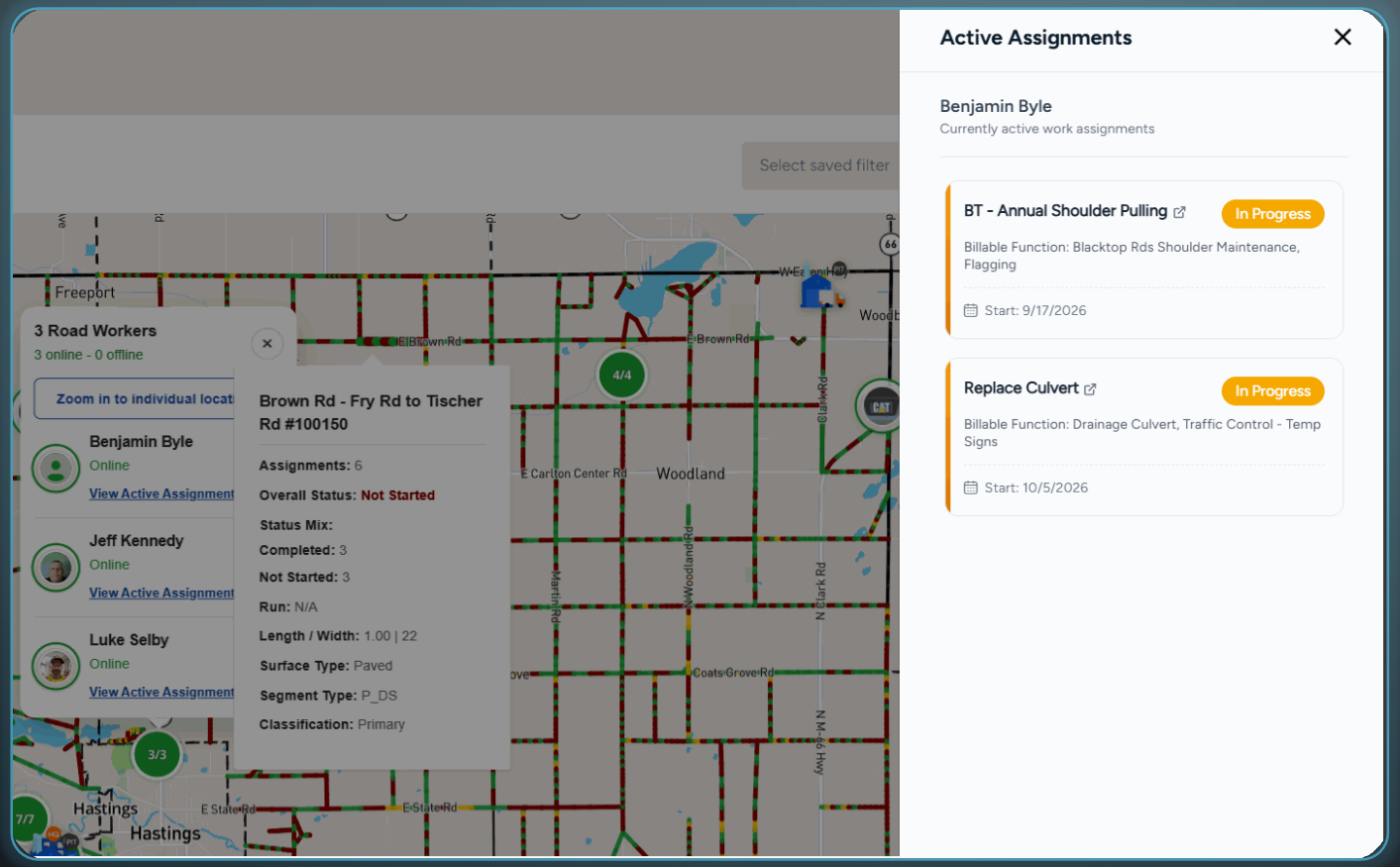
Before: Paper Maps & Excel

In NEXUS RC:
Tap the segment

- **On the map**
- **See the road's history**
- **Log time & materials**
- **Track to township costs**

THE DAY · ALERTS

HALFWAY THROUGH THE DAY, PLANS CHANGE



Snow's coming in. Head back.

- ✓ Patching crew
- ✓ Tree crew
- ✓ Grader

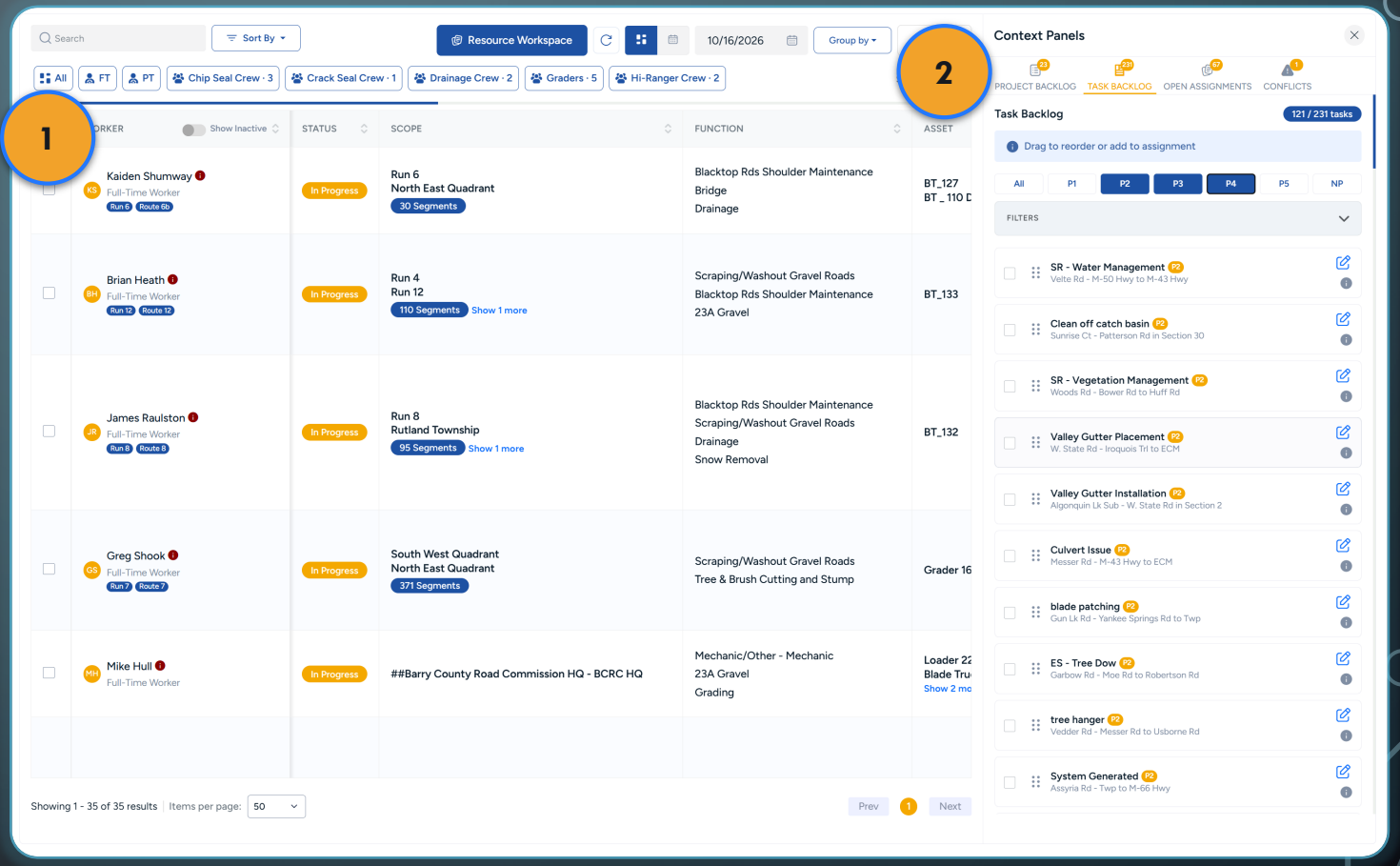
3 of 3 acknowledged

HOUR · DAY · SEASON · YEAR

BETWEEN STORMS · COMMAND CENTER

SNOW LETS UP. THE BACKLOG'S WAITING

1. **Who needs work?**
2. **What can we catch up on?**



PART 04

TIED TO OUR ANNUAL PROCESS

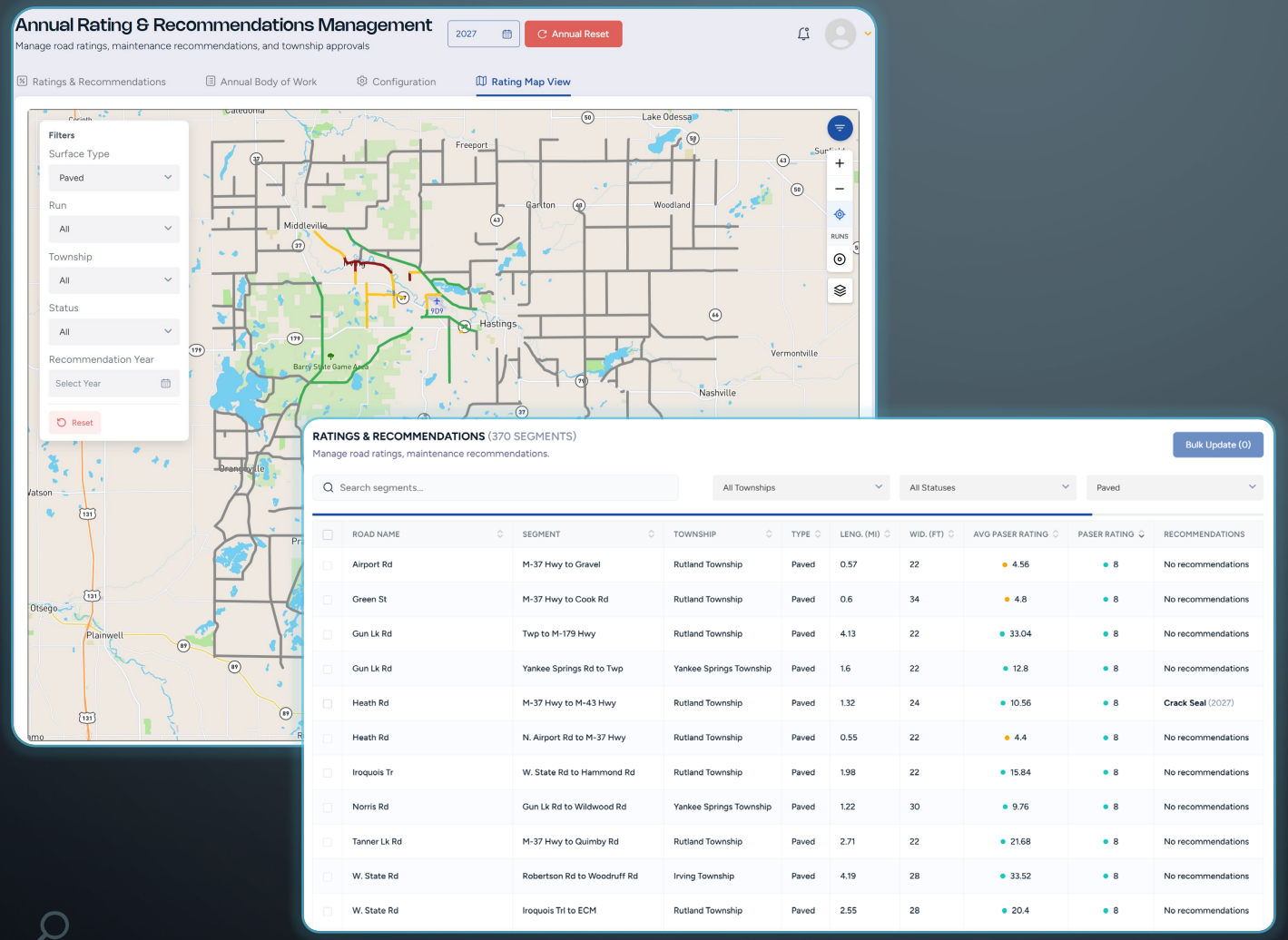
Winter's the hard part. Zoom out, and the same system runs the whole year.

- Why we went looking
- A winter night
- Out on the road
- **The bigger picture**

HOUR · DAY · SEASON · YEAR

THE YEAR · ROAD RATING

THE YEAR STARTS ON ONE MAP



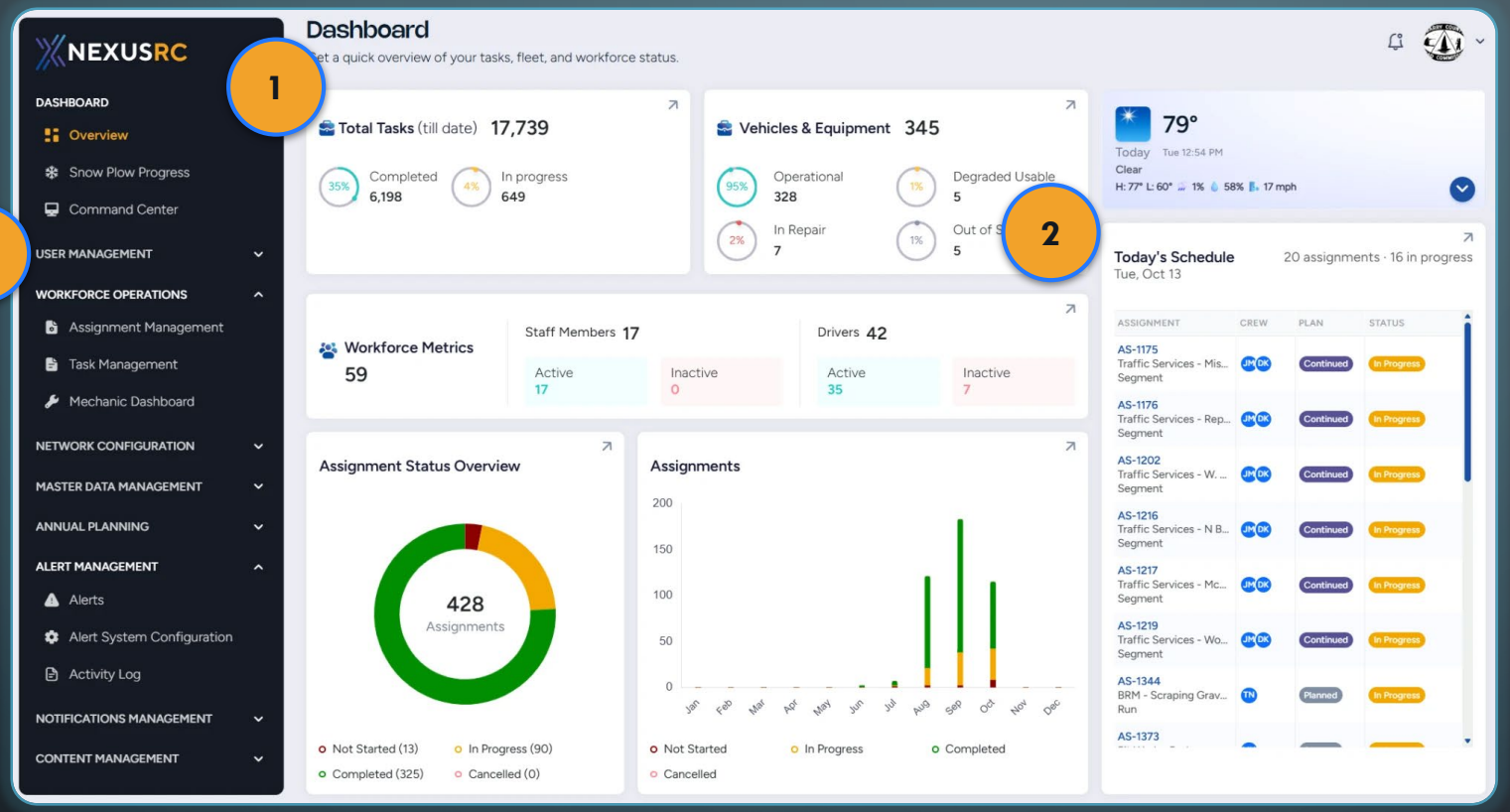
Annual road ratings

Townships approve recommendations

Next season's work, ready & planned

THE YEAR · DASHBOARD

TIME TO BREATHE, AND ACTUALLY ANALYZE



1. Every task on the record
2. What's happening today
3. What's happening tomorrow

Data, history and visibility, all in one place

THE VISION

THE NEXUS OF EVERYTHING

Road workers

Superintendents

Mechanics

Engineering

Finance



Accounting & payroll

Road rating

GPS & telematics

Central dispatch

Townships

Data goes where it needs to, wherever it starts.



ONE HARNESS. THE BEST SERVICE WE CAN GIVE

Jake Welch | Managing Director | Barry County Road Commission

BARRY COUNTY ROAD COMMISSION

NEXUSRC