



Patrick Mc Gloin – Product manager for Railway

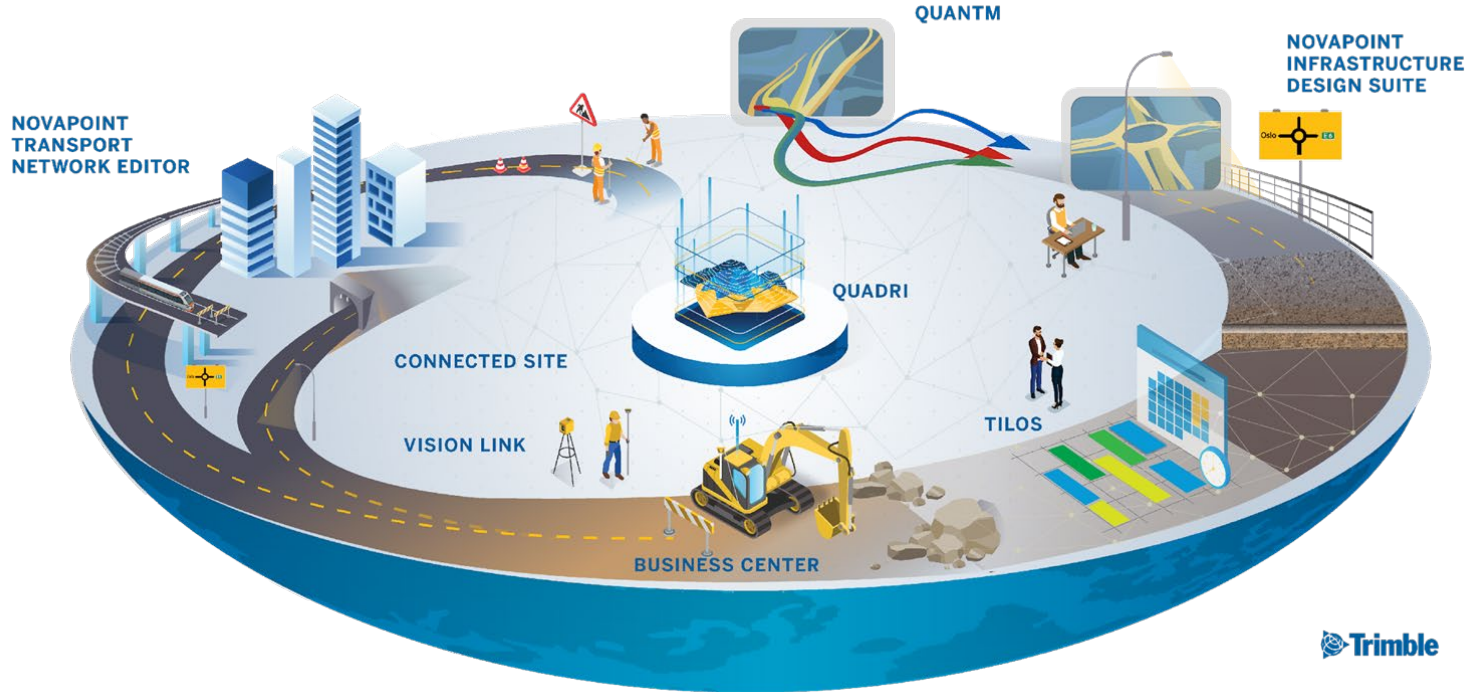
14. June 2019



## NovaRehab and NovaTrack for Road and Railway

# Connected Construction

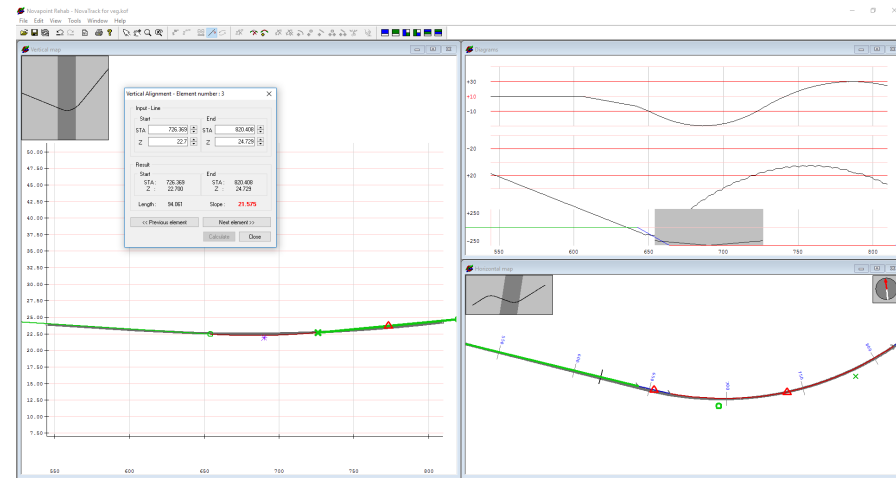
## Civil Engineering and Construction Software





# AGENDA

- Agenda
    - NovaRehab (Road) overview
    - NovaTrack (Railway) overview
- DEMO



GEDO: Trimble Track Measurement and Scanning

<https://trimble-railway.com/en/produkt/gedo-scan/>

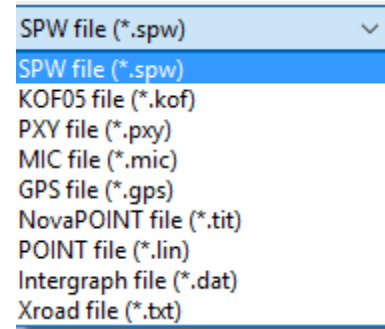
# ≡ NovaRehab (Road) – Alignment from survey points

**Input data** – survey points from file:

LANDXML coming soon

SPW – project file

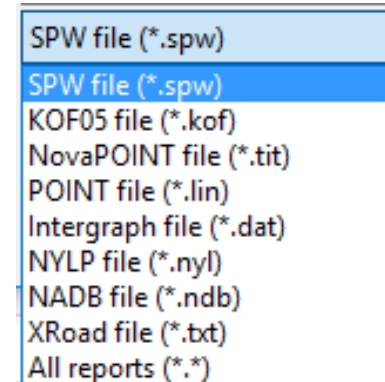
kof – mots used format today



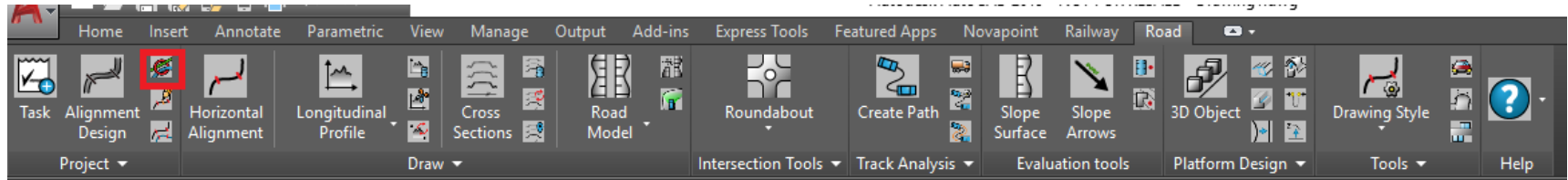
**Result** - alignment

LANDXML coming soon

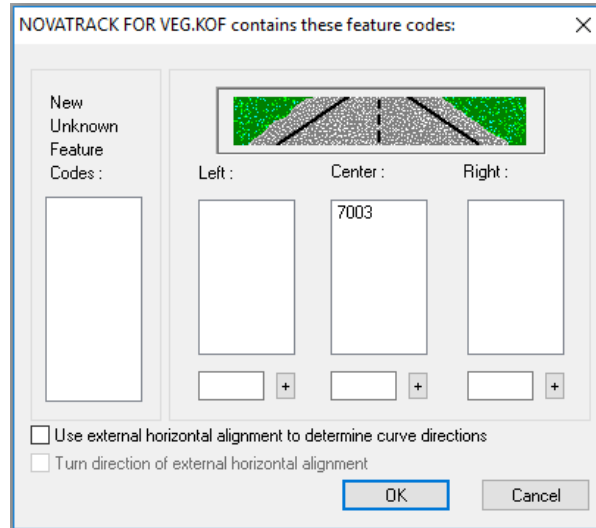
.tit – most used today



Open from AutoCAD under Novapoint Road:



Select feature code reference:



Set parameter and analyze:

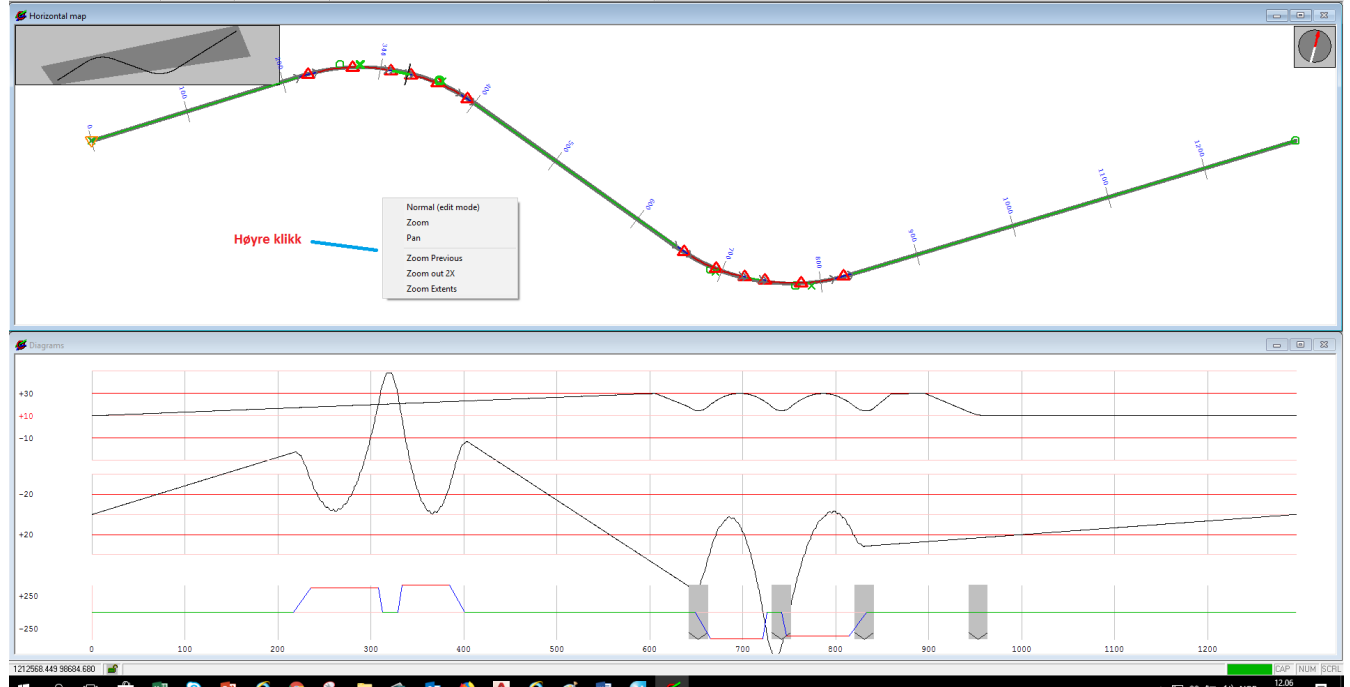
The screenshot shows the 'Novapoint Rehab Analyze Plugins : NovaTrack for veg.kof' dialog box. It is divided into several sections:

- Calculation settings:** A list box containing 'New tracks normal', 'New tracks minimum', 'Existing tracks 1a', and 'Existing tracks 1b'. A blue line points to this section with the red text 'Velg metode'.
- Selected Analyse Method:** A dropdown menu currently set to 'Regression with transition curves'. A blue line points to this dropdown with the red text 'Velg parametere'.
- Main calculation constants:** A table with the following values:

Error tolerance	5
Min. straight line length	10
Min. radius for trans. curves	500
Min. lift	0.1
- Number of iterations:** A text input field containing the value '5'. A blue line points to this field with the red text 'Set antall iterasjoner (5 - 10)'. The red text 'Velg parametere' also points to this field.
- Start & End Station:** Two input fields with values '0' and '1295.9728425'.
- Measured data status:** A summary table:

Measured points read	2594
Duplicates - (x,y)	0
Assumed as measured error	0
Measured points deleted	0
Measured points to analyze	2594
- Buttons:** 'Create profile...', 'Edit profile...', 'Delete profile...', 'OK - Analyze', and 'Cancel'.

Edit the result:





## Adjust element for element:

The screenshot shows the NovaRehab software interface. The top panel, titled "Horizontal map", displays a road layout with a red curve and green straight segments. Stationing labels are visible along the road, including 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 450, 455, 460, 465, 470, 475, 480, 485, 490, 495, 500, 505, 510, 515, 520, 525, 530, 535, 540, 545, 550, 555, 560, 565, 570, 575, 580, 585, 590, 595, 600, 605, 610, 615, 620, 625, 630, 635, 640, 645, 650, 655, 660, 665, 670, 675, 680, 685, 690, 695, 700, 705, 710, 715, 720, 725, 730, 735, 740, 745, 750, 755, 760, 765, 770, 775, 780, 785, 790, 795, 800, 805, 810, 815, 820, 825, 830, 835, 840, 845, 850, 855, 860, 865, 870, 875, 880, 885, 890, 895, 900, 905, 910, 915, 920, 925, 930, 935, 940, 945, 950, 955, 960, 965, 970, 975, 980, 985, 990, 995, 1000. The bottom panel, titled "Diagrams", shows a vertical alignment diagram with a red curve and green straight segments. The vertical axis is labeled with +30, +10, and -10. A dialog box titled "Straight Line - Element number: 4" is open in the center, displaying input coordinates and result data.

**Horizontal map**

**Diagrams**

**Straight Line - Element number: 4**

**Input**

First point		Sec. point	
E	98734.687	E	99019.995
N	1212688.782	N	1212587.236

User defined     User defined

Fixed     Partly     Approx

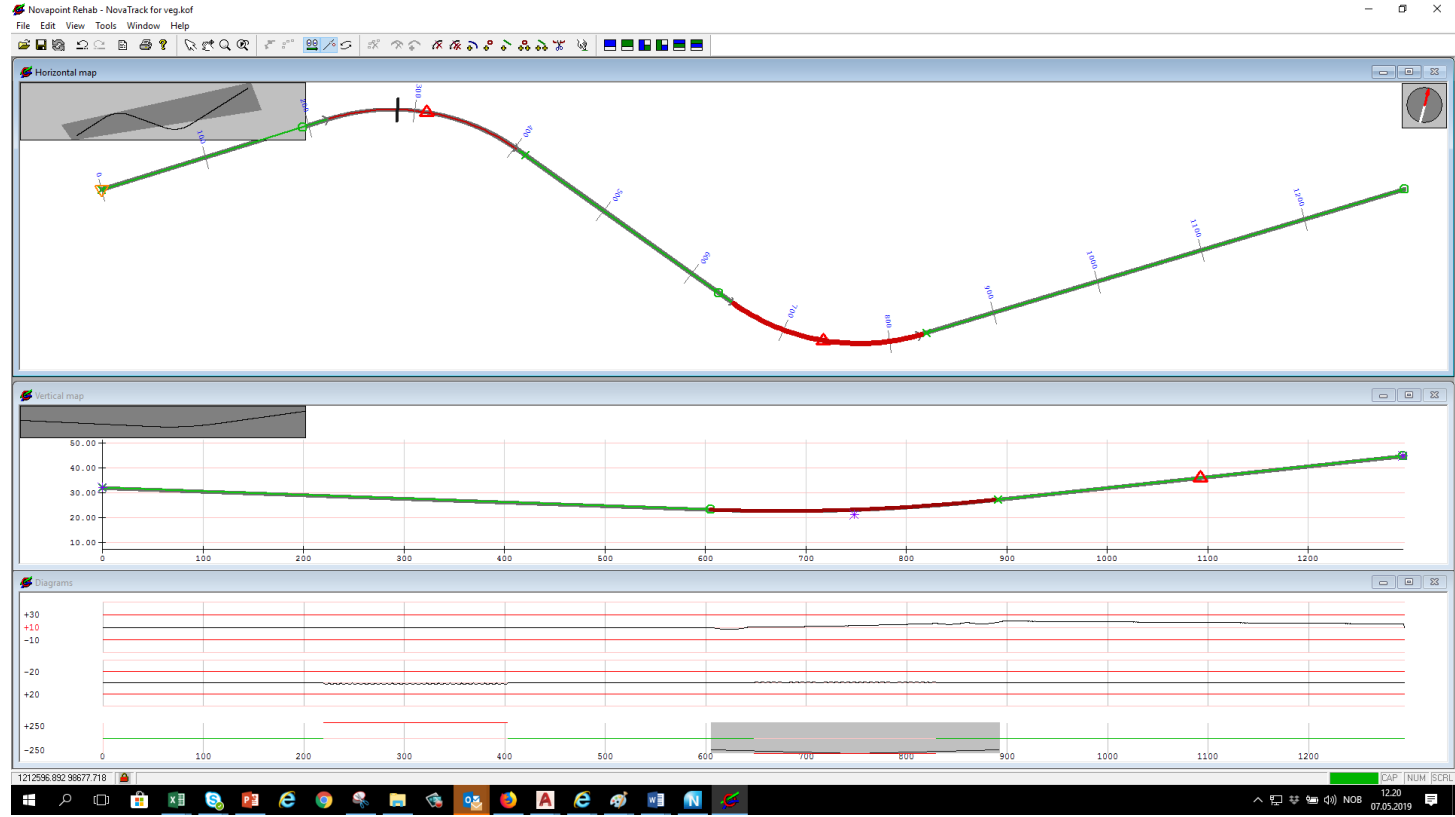
**Result**

Length : 260.090	
Start	End
E : 98736.447	E : 98981.480
N : 1212688.156	N : 1212600.944
STA : 390.455	STA : 650.545

<< Previous element    Next element >>

Delete element...    Calculate    Close

# NovaRehab DEMO



Used for:

Calculate a track alignment

Control as built

Input to packing machine

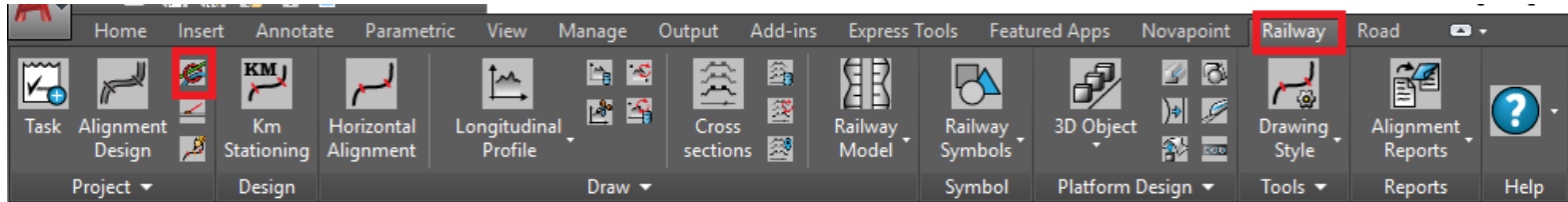
-> ALC

-> CSV

-> LANDXML/TIT-NYLP

SPW file (*.spw)
SPW file (*.spw)
KOF05 file (*.kof)
Lifting scheme (*.lft)
Offset table (*.alc)
Comma separated file (*.csv)
NovaPOINT file (*.tit)
POINT file (*.lin)
Intergraph file (*.dat)
NYLP file (*.nyl)
NADB file (*.ndb)
XRoad file (*.txt)
WinALC Geo file (*.geo)
WinALC Ver file (*.ver)
GEDO Office TDT file (*.tdt)
GEDO Office HDT file (*.hdt)
GEDO Office UDT file (*.udt)
All GEDO Office files (*.*)
All reports (*.*)

Open from AutoCAD under Novapoint Railway:



## Tilleggsfunksjonalitet i forhold til NovaRehab:



# NovaTrack - DEMO



Z – set til zero  
 A – Average  
 E - Slett

# ≡ Keep yourself informed....



Novapoint & Quadri web: [www.novapoint.com](http://www.novapoint.com) (no/se/dk)



Novapoint & Quadri resource center: <http://help.novapoint.com>

To stay updated on the latest tips & tricks, news, events and more, follow us on...



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