

Interreg



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25 years of cooperation

...CONNECTING THE DOTS

PROJECT SESSION

#InterregNPA25



ROADEX network For better rural roads

Bodo, 1st October 2025

#InterregNPA25



www.roadex.org



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Co-funded by
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Norwegian Public Road Administration

Per Otto Aursand

ROADEX network



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The Roadex crew

SC-meeting in Oslo, april 2024



ROADSCANNERS

Laboratorio Uleåborg

#InterregNPA25



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 Mentimeter

ROADEX network

For better rural roads



[MENTI](https://www.menti.com)







The ROADEX Network

27 years in rural road collaboration

ROADEx 1998-2025

A trans-national collaboration of northern European road organisations set up to:

- **Share best practice**
- **Research and develop new knowledge**
- **Implement and test new solutions**

On matters concerning the management of low volume rural roads.

Initially supported by the EU Northern Periphery Programme for 4 projects, now funded by the Partners themselves.



Why collaborate? Why ROADDEX?

All Partners had the same problems:

- **Reducing budgets for roads**
- **Increasing road user expectations**
- **Increasing traffic & truck sizes/weights**
- **Increasing environmental awareness**
- **Searching for "best value"**



all needed **MORE** for **LESS**



Public road, Ireland



Winter conditions, Norway



Forest road, Scotland

The foundation

“The ROADEX Pilot Project” (1998 – 2001)

“ROADEX II, the research project” (2002 – 2005)



2000 – 2006

2007 – 2013

2014 – 2020

2021 – 2025



The next step

“ROADEX III, the dissemination project”, (2006 – 2007)

“ROADEX IV, the implementation project”, (2009 – 2012)

*2009: The project was awarded a European Union
RegioStars special mention*

2007 – 2013

2000 – 2006

2014 – 2020

2021 – 2025





ROADEX
Network
For better rural roads

Going beyond the expected

"The Roadex Network", established 2013



2018: Roadex strategies and technologies were recognised in a Global Road Achievement Award by the International Road Federation (IRF) for "Asset Preservation and Maintenance Management".

2014 – 2020

2000 – 2006

2007 – 2013

2021 – 2025





The present and the future

The Roadex Network is still going strong, partner agreement valid until 2027, hopefully continuing after that.

2000 – 2006

2007 – 2013

2014 – 2020

2021 – 2025





Goals for the network

- forum for cooperation
- share best practice between the Partners
- take care of the ROADDEX legacy
- increase the efficiency and sustainability
- improve the quality of road maintenance and construction
- be a forum for new solutions and implementation
- arrange workshops, webinars and meetings

2000 – 2006

2007 – 2013

2014 – 2020

2021 – 2025



Benefits

- Partners can influence, give ideas, initiate and carry out new research and projects
- Partners can help each other in implementing the ROADEX technologies and methods
- Partners have instant access to expertise and guidance
- Partners can share and discuss experiences
- By having a network established, it will be easier and faster to apply for External funding

2000 – 2006

2007 – 2013

2014 – 2020

2021 – 2025

Themes covered by ROADEX research

- Drainage
- Heavy trucks and permanent deformations
- Road materials
- Roads on peat
- Maintenance, rehabilitation and widening of roads.
- ...among others



The ROADDEX solution

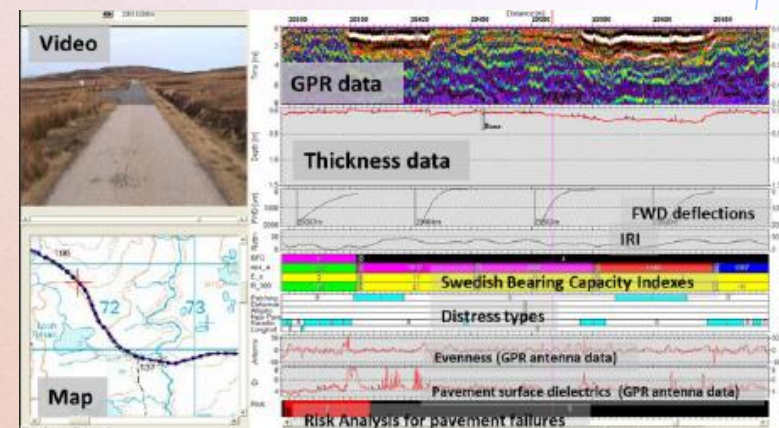
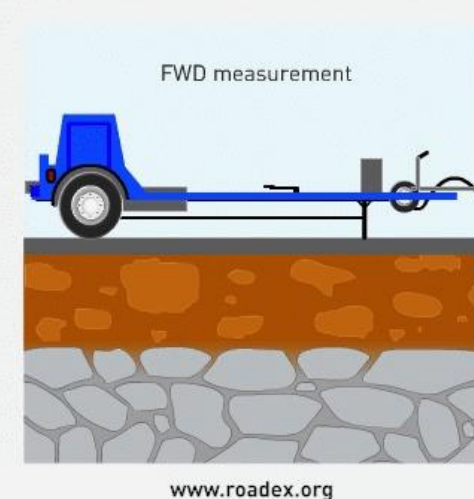
“FOCUS, FOCUS, FOCUS”

- Precise survey to map the weak sections and focus in on them
- Understand the underlying reasons for the problems
- Design ‘fit for purpose’ structures and treatments
- Improving the drainage
- Consider the timing of remedial works
- Follow-up preventative pro-active maintenance!



The ROADEX survey technologies

- High speed, non destructive road monitoring
 - Digital video and 360° camera
 - Ground Penetrating Radar
 - Falling Weight Deflectometer
 - LIDAR - 2D / 3D scanning
- Cloud based data handling
- Integrated analysis



The Roadex knowledge center

The ROADEx knowledge centre (roadex.org) containing all published documentation from the ROADEx joint research projects:

- Over 70 technical reports and studies
- Over 40 demonstrations of ROADEx strategies on public roads.
- Five ROADEx e-learning packages:
- Links to webinars, seminars and presentations at conferences.



ROADEX E-Learning lessons



Lesson 1
Permanent Deformation

CONTINUE



Lesson 2
Roads on Peat

CONTINUE



Lesson 3
Drainage of Low Volume Roads

CONTINUE



Lesson 4
Environmental Considerations for Low Volume Roads

CONTINUE



Lesson 5
Gravel and Forest Roads

CONTINUE

www.roadex.org/e-learning/lessons/

Example: Drainage

“Full scale” test of ROADEX technologies and strategies in the PEHKO 2015-2025 project in Finland.



Unlimited useage

- The results of the ROADEX projects are not limited to northern peripheral areas and rural roads,
- but can also be implemented on high capacity roads and on a global basis.



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QUIZ



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