



Rannsóknarráðstefna Vegagerðarinnar 28.10.2022

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# ROADEX rannsóknir á umferðarminni vegum

Þorbjörg Sævarsdóttir



# ROADEX Network

For better rural roads

# ROADEX - bakgrunnur



## Tilrauna verkefni

**ROADEX I**  
**1998-2001**  
**The Pilot Project**



## Rannsóknir

**ROADEX II**  
**2002-2005**  
**The Research Project**



## Miðlun

**ROADEX III**  
**2006-2007**  
**The Dissemination Project**



## Innleiðing

**ROADEX IV**  
**2009-2012**  
**The Implementation Project**



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**2012 - ???**

# Partners



SWEDEN

The Swedish Transport Administration, Northern Region



FINLAND

Centre for Economic Development, Transport and the Environment  
Finnish Transport Infrastructure Agency



ICELAND

The Icelandic Road and Coastal Administration



NORWAY

Norwegian Public Roads Administration, Northern Region



SCOTLAND

The Highland Council  
Forestry and Land Scotland  
Transport Scotland  
The Western Isles Council “Comhairle Nan Eilean Siar”



IRELAND

Department of Transport, Tourism & Sport  
Department of Agriculture, Food and the Marine  
Road Management Office (RMO) Ireland



PROJECT CONSULTANT

Roadscanners Oy



**ROADDEX**  
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An Roinn Iompair  
Department of Transport

TRAFIKVERKET



An Roinn Talmhaíochta,  
Bia agus Mara  
Department of Agriculture,  
Food and the Marine



Statens vegvesen



Centre for Economic Development,  
Transport and the Environment



**RMO**  
An Oifig um Bainistiú Bóithre  
Road Management Office



The Highland  
Council  
Comhairle na  
Gàidhealtachd



Finnish Transport  
Infrastructure Agency



Forestry and  
Land Scotland  
Coilltearachd agus  
Fearann Alba



TRANSPORT  
SCOTLAND  
COMHAIL ALBA



ROADSCANNERS



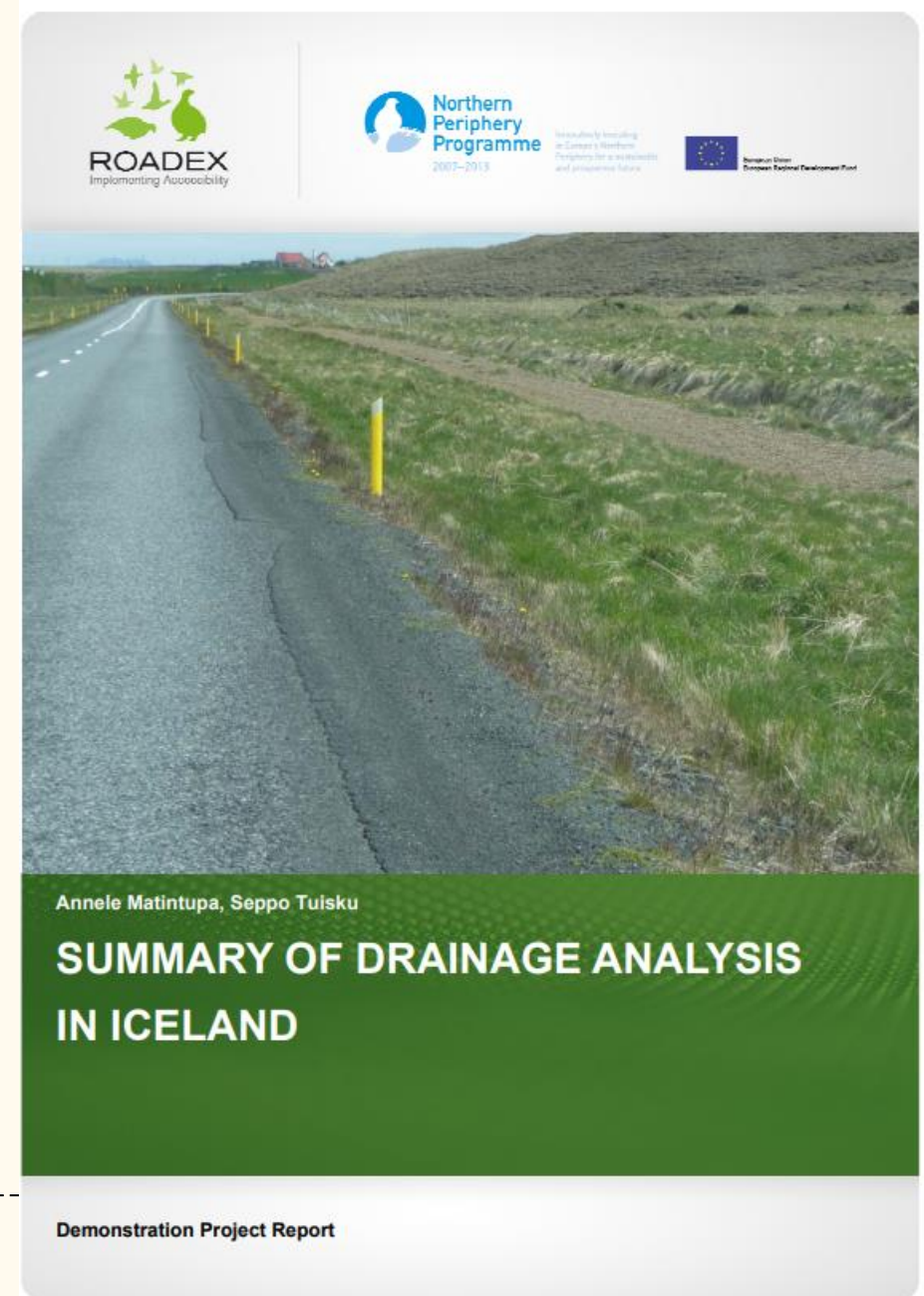
# Markmið



ROADEX verkefnið vinnur að nánu samstarfi milli aðildarstofnanna og fyrirtækja á öllum sviðum er lúta að viðhaldsstjórnun umferðarminni vega. Þetta er til dæmis gert með samtali, heimildarvinnu, rannsóknum, þróun, birtum tækniskýrslum, kynningum og kennsluefni.

Talið er að samstarfið styrki aðildalönd og aðra áhugasama aðila með þróun og upplýsingaöflun á nýrri tækni og fyrirbyggjandi viðhaldi sem aftur leiðir til stórfellds sparnaðar.

[Myndband](#)

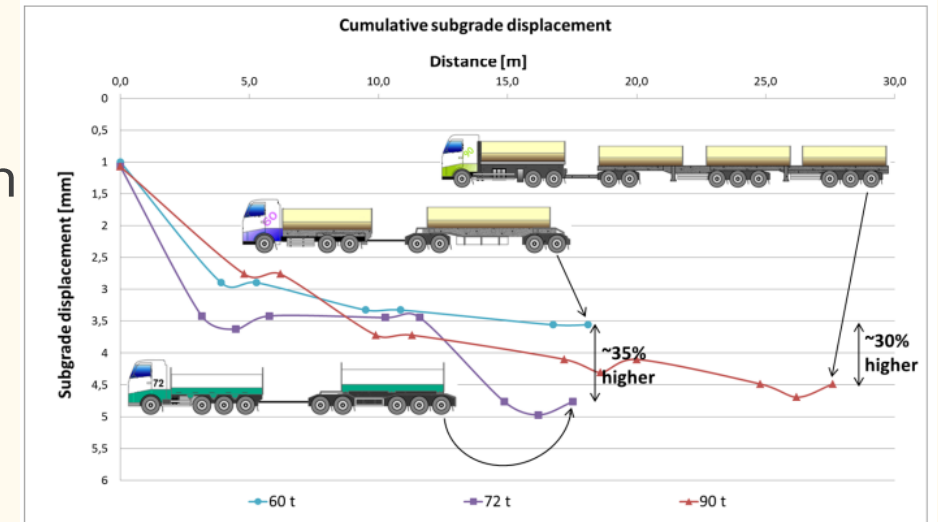


# Af hverju?

Öll aðildarlöndin voru að berjast við sömu vandamálin

- Minnkandi fjármagn til viðhalds og endurbygginga.
- Auknar kröfur vegfarenda.
- Aukin þungaumferð, þyngd og stærð ökutækja.
- Aukin umhverfisvitund.
- Leitin að “besta virðinu” (e. best value).

➔ Allir þurfa MEIRA fyrir MINNA



@Petri Varin og Timo Saarenketo



@Jóhann Jóhannsson og Sigurður Eyþór Valgarðsson



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## “Þekkingarmiðstöð” (knowledge centre)

ROADEX “þekkingarmiðstöðin” er eins konar geymsla allra tæknilegra skýrslna, samantekt á verkefnum, rannsóknum og greinum.

Útgefin rit eru flokkuð í eftirfarandi flokka:

- **General issues**
- **Drainage**
- **Forest Roads**
- **Health & Socio-economic Impacts**
- **Permanent Deformation**
- **Road Condition Management**



### Publications

All ROADEX publications are available through this section of the site.

[READ MORE](#)



### Translated Reports

Translated reports for the Project Partners and associated organisations.

[READ MORE](#)



### ROADEX Media

This section contains selected media produced by the ROADEX Project.

[READ MORE](#)



### Seminar Materials

Final seminars for the ROADEX IV Project were held in Rovaniemi.

[READ MORE](#)

# “Pekkingarmiðstöð” PAJALA náman

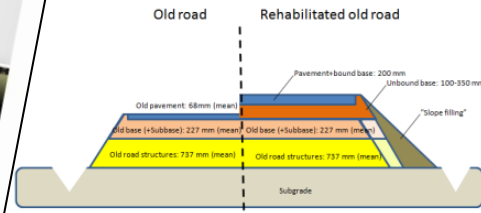
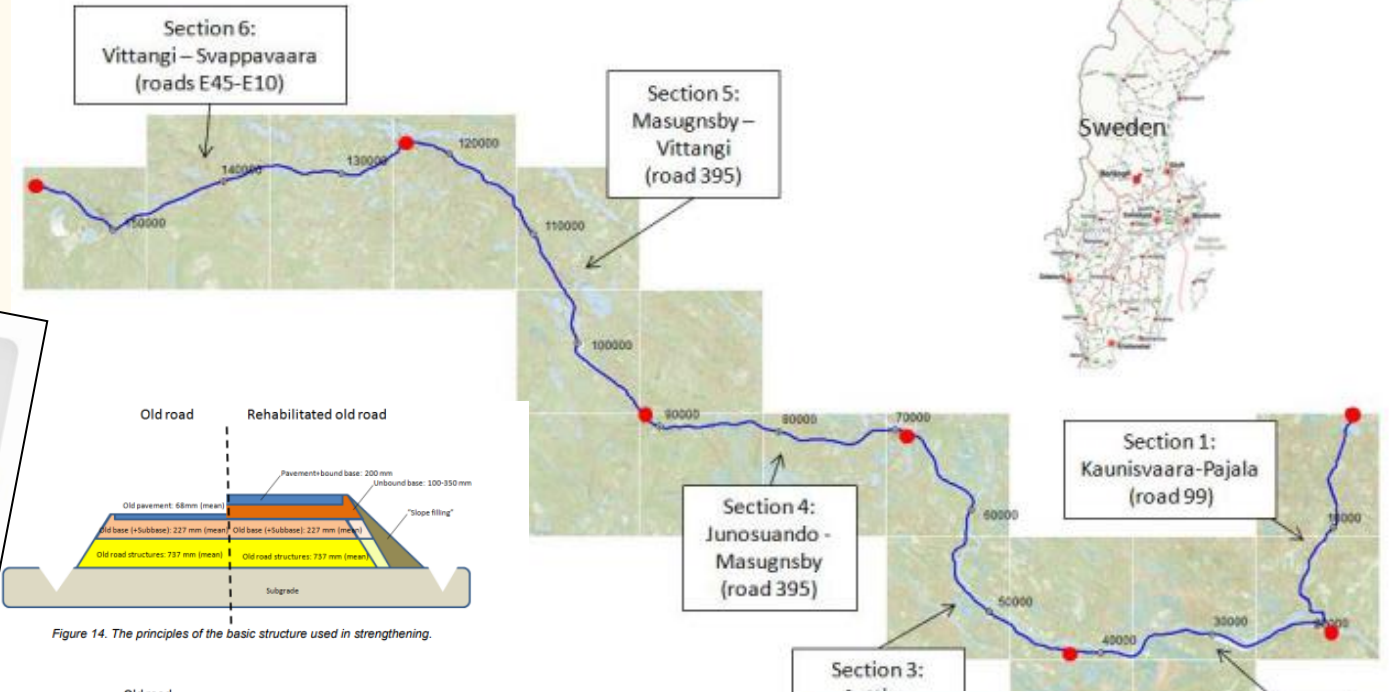
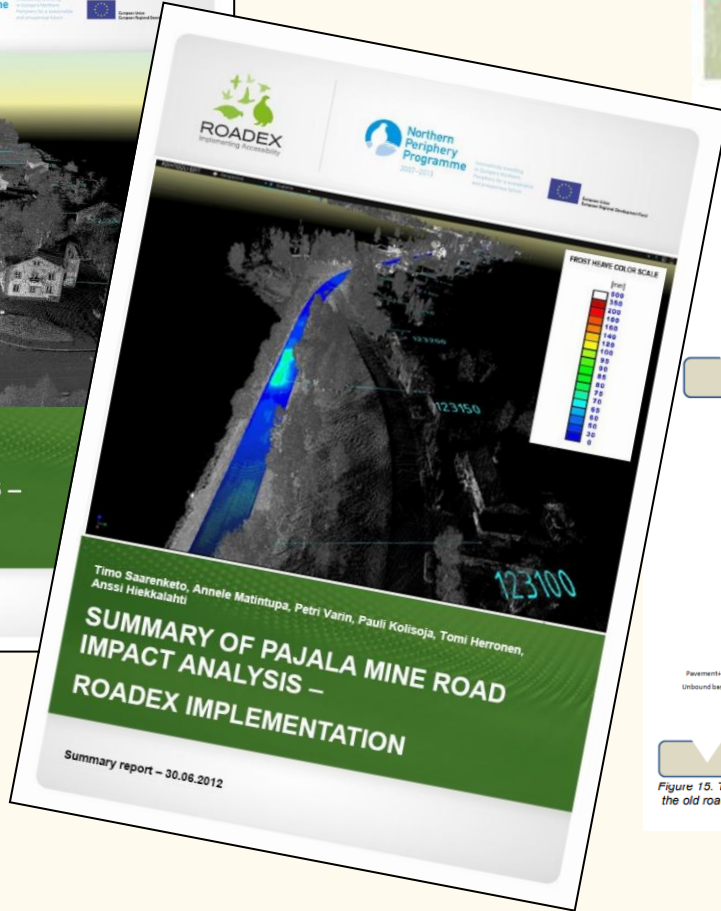


Figure 14. The principles of the basic structure used in strengthening.

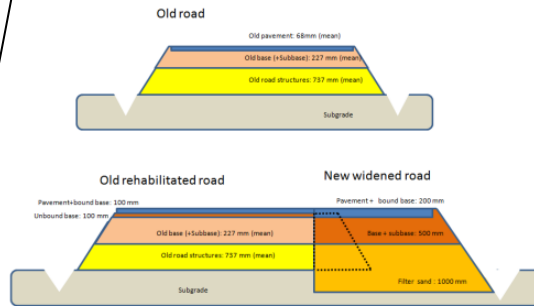
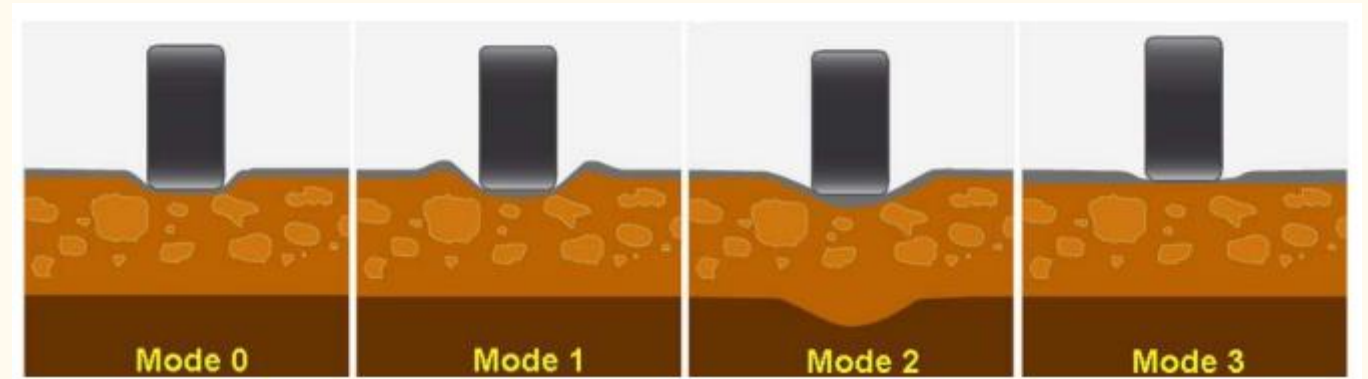


Figure 15. The principles of a third lane structure. If there is big difference in frost heave between the old road and new lane, then it is recommended that the third lane be separated from the old road in some way.



Bridge over Liukattijoki 4 km NW Svappavaara on Road E10



“Netnám” (e. E-learning)  
**Varanlegar niðurbeygjur**  
(e. Permanent Deformations)



Road widening projects can result in severe damages if not designed and constructed properly.

HOME

E-LEARNING LESSONS

1. WHAT IS PERMANENT DEFORMATION AND WHY WE ▼
2. STRESSES AND STRAINS IN ROAD STRUCTURES ▼
3. PERMANENT DEFORMATION RUTTING ▼
4. SURVEY AND MONITORING TECHNIQUES ▼
5. CLASSIFICATIONS, ANALYSIS AND DIAGNOSTICS ▼
6. MANAGING PERMANENT DEFORMATION ▼
7. DESIGN AGAINST PERMANENT DEFORMATION ▼



# Umhverfisáhrif umferðarminni vega

(e. Environmental Considerations for Low Volume Roads)

## Vegir um mýrlendi

(e. Roads on Peat)



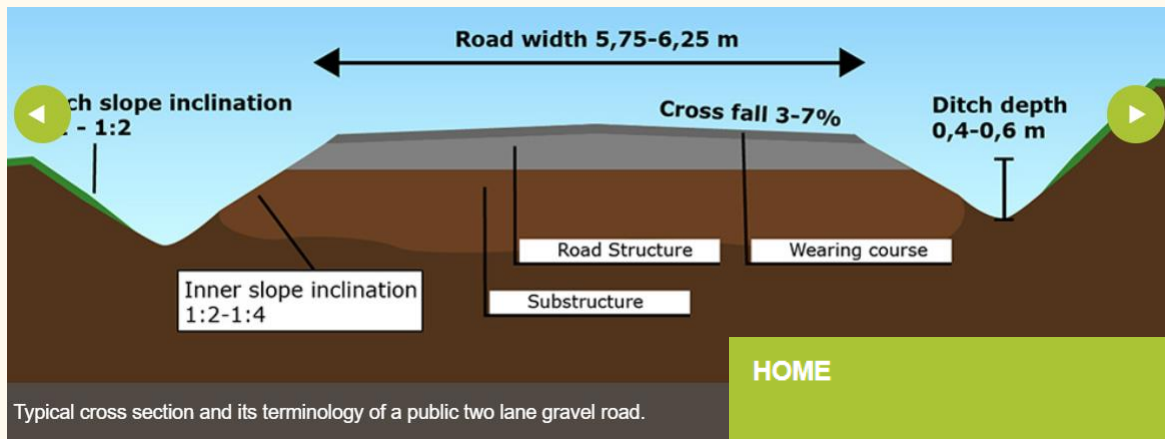
## Afrennsli

(e. Drainage of Low Volume Roads)



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## “Netnám” (e. E-learning) Malarvegir (e. Gravel and Forest Roads)

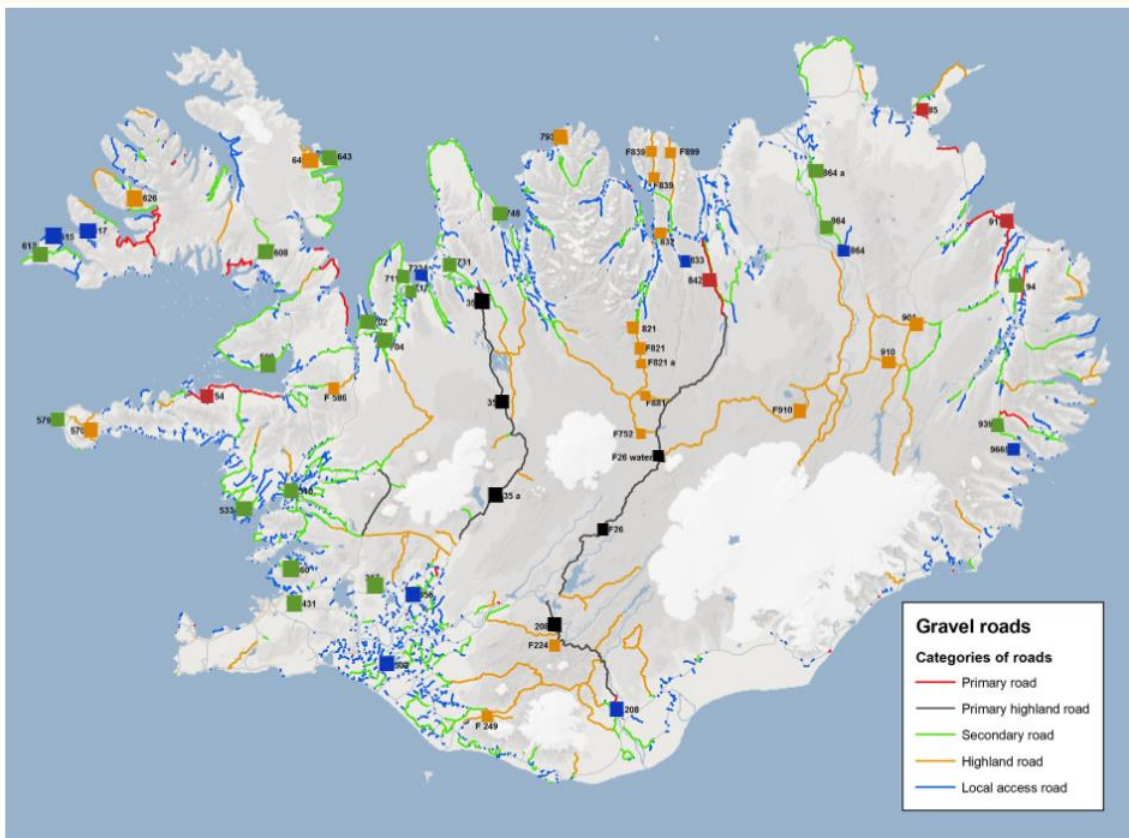


HOME

E-LEARNING LESSONS

1. GENERAL
2. GRAVEL AND FOREST ROAD COMPONENTS
3. WEARING COURSE
4. BEARING CAPACITY DESIGN
5. ROADS ON WEAK SUBGRADE, GEOTECHNICAL
6. DRAINAGE
7. SURVEY AND MONITORING TECHNIQUES,
8. MAINTENANCE MACHINERY AND TECHNIQUES
9. RENOVATION DESIGN AND TECHNIQUES
10. SEASONAL CHANGE MANAGEMENT
11. ENVIRONMENTAL CONSIDERATIONS





Click the markers on the map and the road categories below for more information.

**864 Secondary Road**





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**roadex.org**