

The wider local impacts of new roads: A case study of 10 projects

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Eivind Tveter, Molde University College
Morten Welde, Concept, NTNU



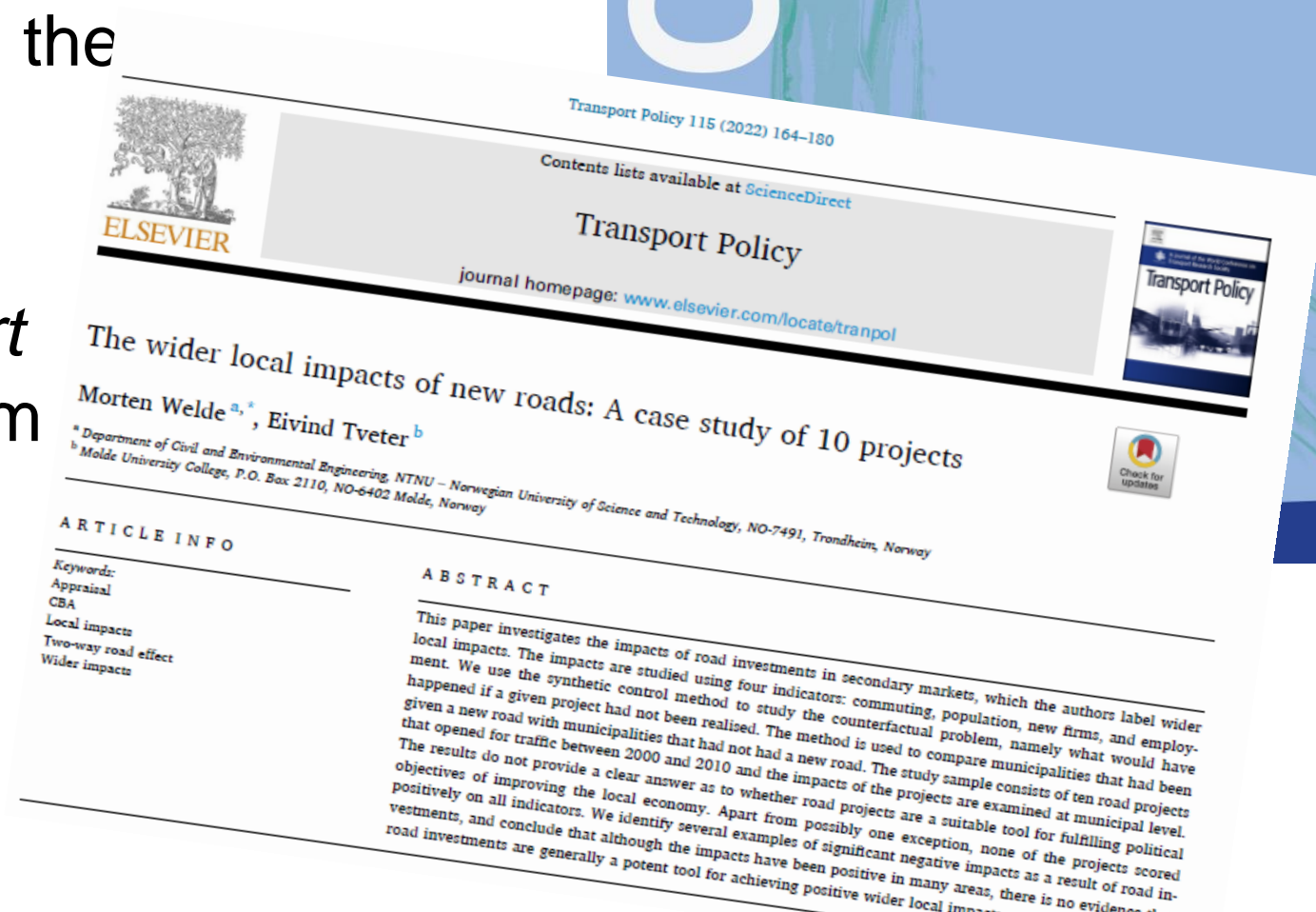
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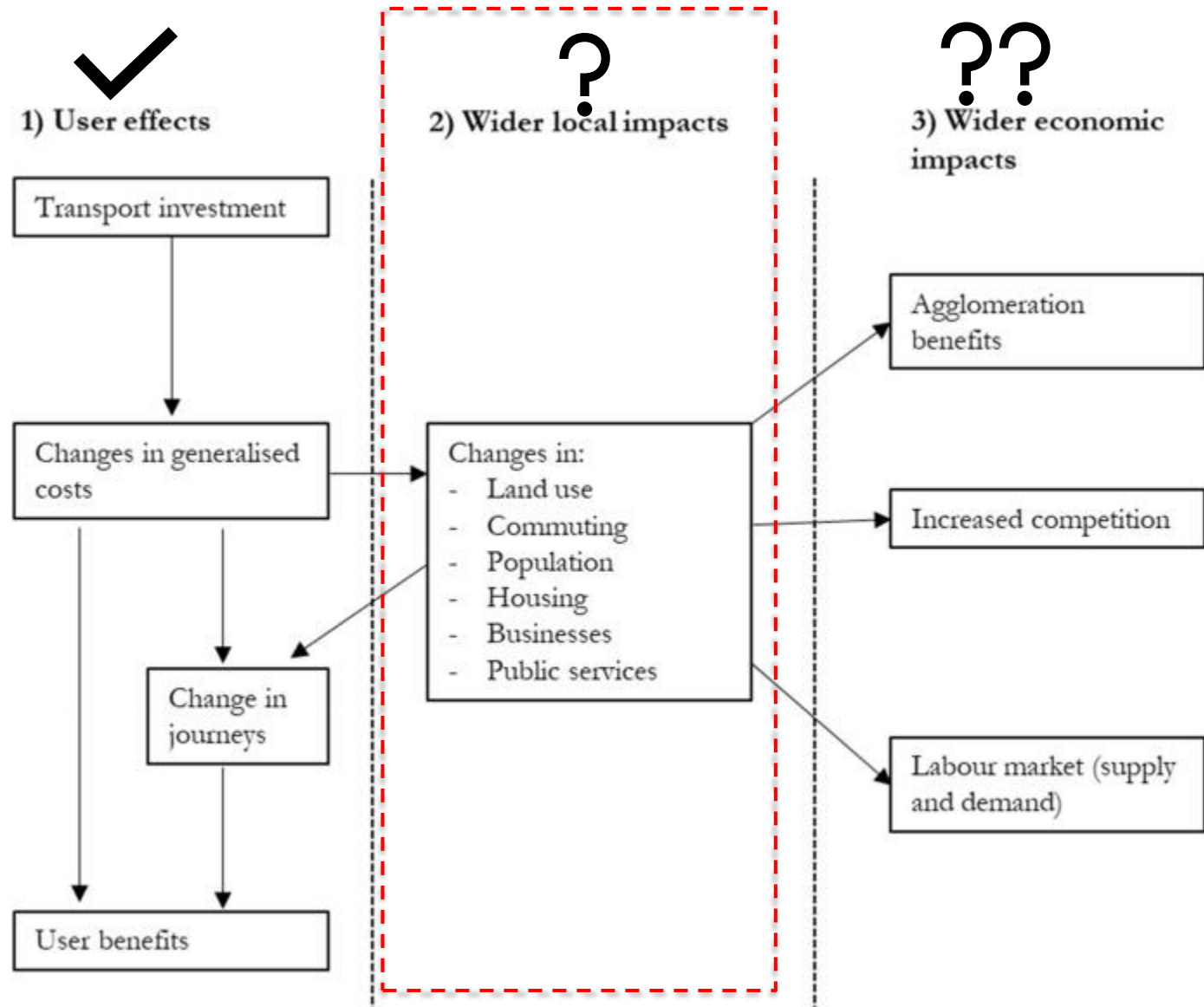
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Our study

- Which effects are achieved by building better roads
- Are the impacts aligned with the objectives
- Are all impacts positive
- Paper published in *Transport Policy* based on findings from Concept report nr. 62



The wider *local* impacts of new roads

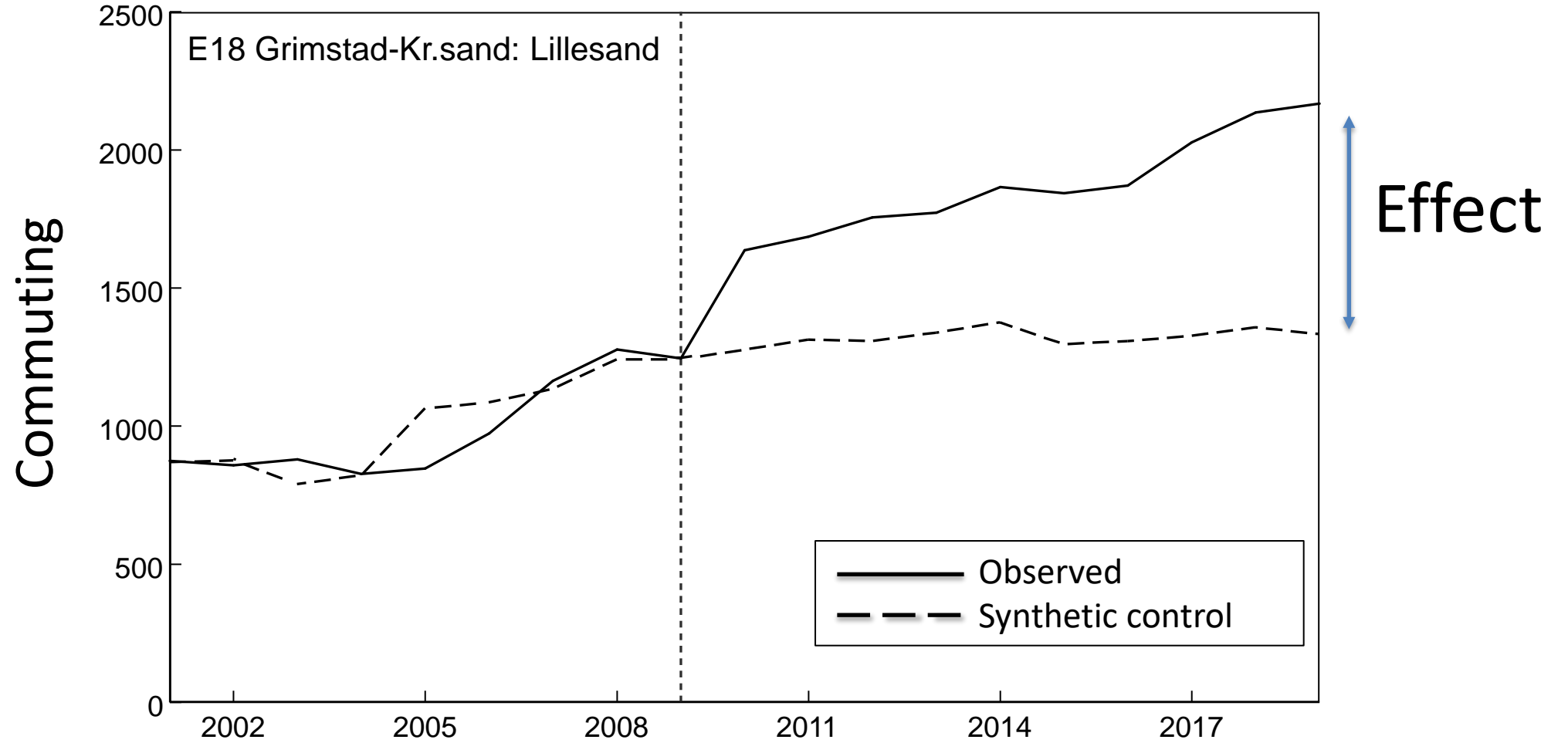


From objectives to indicators

No.	Objective	Indicator
1	Expand the labour market/ease the recruitment of labour	Commuting
2	Link regions together/coherent housing and labour market	
3	Growth in settlement/counteract depopulation	Population
4	Growth in firms	New firms
5	Growth in employment/work participation	Employment

No.	Projects	Opening year	Reduction in travel time (min.)	AADT before	AADT today
1	E39 Klett–Bårdshaug	2005	5	5-8 000	10-12 000
2	Fv653 Eiksundsambandet	2008	20-40	850	3 000
3	Fv64 Atlanterhavstunnelen	2009	10-30	800	2 500
4	E18 Grimstad–Kristiansand	2009	15	9-23 000	15-26 000
5	Fv519 Finnfast	2009	15-30	350	1 300
6	Fv107 Jondalstunnelen	2012	60	300	700
7	E39 Kvivsvegen	2012	45-60	1 200	2 000
8	Fv609 Dalsfjordsambandet	2013	25-40	50	800
9	Fv616 Bremangersambandet 2	2013	45	n/a	500
10	Rv7 Sokna–Ørgenvika	2014	15	3 500	5 000

Estimation framework



Presentation of the results

Positive effect	
No effect	*
Negative effect	

* Indicates whether this effects was an objective of the project

Effect on new firms

- An increase for three projects
- A decrease in two the projects
- The most positive effects are found close to the largest cities
- In total, the effects are limited

Project	New firms
Fv653 Eiksundsambandet	*
Fv64 Atlanterhavstunnelen	*
E18 Grimstad-Kristiansand	*
Fv519 Finnfast	*
Fv107 Jondalstunnelen	*
E39 Kvivsvegen	*
Fv609 Dalsfjordsambandet	*
Fv616 Bremangersambandet 2	*
E39 Klett-Bårdshaug	*
Rv7 Sokna-Ørgenvika	*

Commuting

- Increases for four projects
- The indicator closest to the user benefits, but still limited effect
- Static labour market
- Tolls

Prosjekt	Commuters
Fv653 Eiksundsambandet	*
Fv64 Atlanterhavstunnelen	*
E18 Grimstad-Kristiansand	*
Fv519 Finnfast	*
Fv107 Jondalstunnelen	*
E39 Kvivsvegen	*
Fv609 Dalsfjordsambandet	*
Fv616 Bremangersambandet 2	
E39 Klett-Bårdshaug	*
Rv7 Sokna–Ørgenvika	

Population impact

- Greatest effect near cities or regional centres
- Only effect when small municipalities are connected to larger municipalities
- Projects connecting small rural areas gives limited effects
- Urban sprawl (possible conflict of interest)

Project	Population
Fv653 Eiksundsambandet	*
Fv64 Atlanterhavstunnelen	*
E18 Grimstad-Kristiansand	*
Fv519 Finnfast	*
Fv107 Jondalstunnelen	*
E39 Kvivsvegen	*
Fv609 Dalsfjordsambandet	*
Fv616 Bremangersambandet 2	
E39 Klett-Bårdshaug	*
Rv7 Sokna–Ørgenvika	

Employment

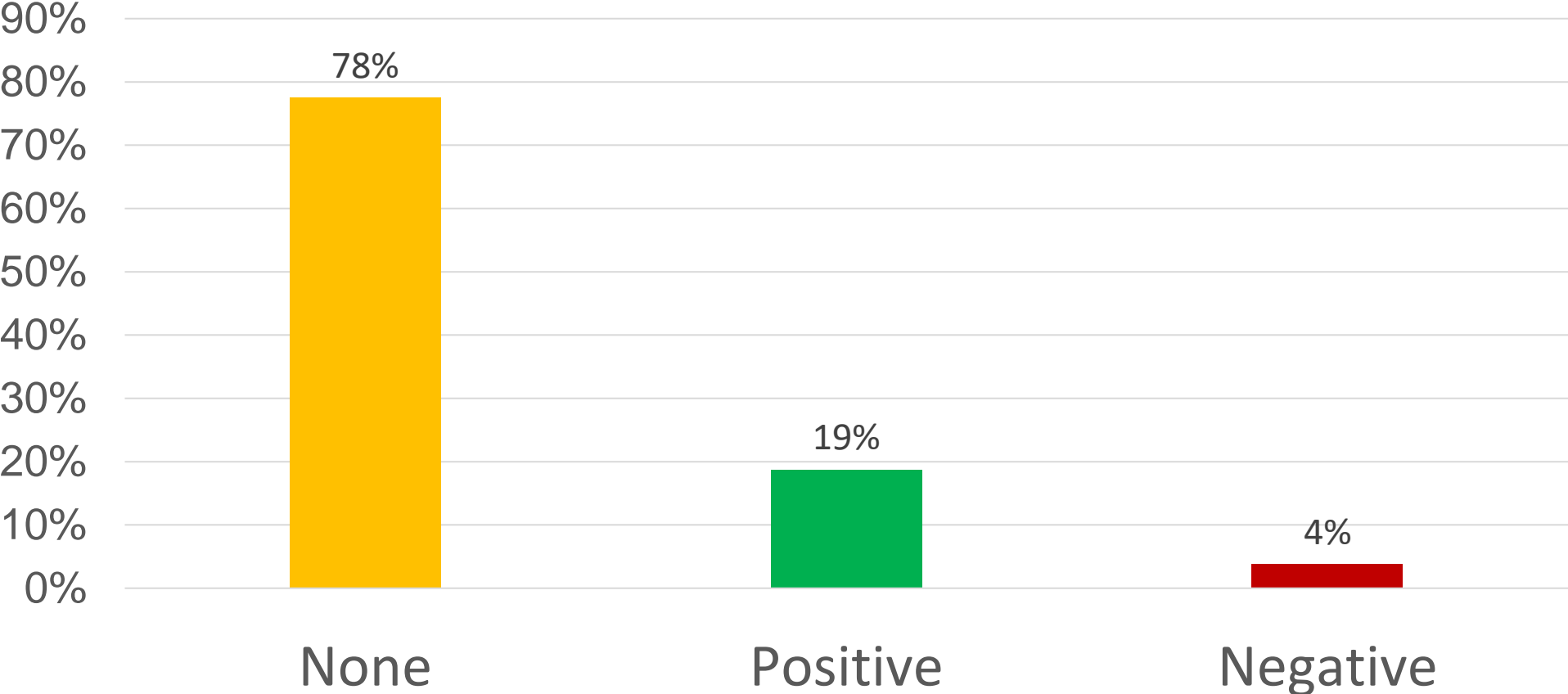
- Aligned with population impacts

Prosjekt	Population	Employment
Fv653 Eiksundsambandet		*
Fv64 Atlanterhavstunnelen		*
E18 Grimstad-Kristiansand		*
Fv519 Finnfast		*
Fv107 Jondalstunnelen		*
E39 Kvivsvegen		*
Fv609 Dalsfjordsambandet		*
Fv616 Bremangersambandet 2		
E39 Klett-Bårdshaug		*
Rv7 Sokna–Ørgenvika		

No.	Project	Municipalities	Commuting	Population	New firms	Employment
1	Fv653 Eiksundsambandet	A. Ulstein	*	*	*	*
		B. Volda				
2	Fv64 Atlanterhavstunnelen	A. Averøy	*	*	*	*
		A. Kristiansund	*	*	*	*
3	E18 Grimstad-Kristiansand	A. Grimstad	*	*	*	*
		B. Lillesand	*	*	*	*
		C. Kristiansand	*	*	*	*
4	Fv519 Finnfast	A. Finnøy	*	*	*	*
5	Fv107 Jondalstunnelen	B. Ullensvang	*	*	*	*
		C. Kvinnherad	*	*	*	*
		A. Volda	*	*	*	*
6	E39 Kvivsvegen	B. Stryn	*	*	*	*
7	Fv609 Dalsfjordsambandet	A. Askvoll	*		*	*
8	Fv616 Bremangersambandet 2	B. Bremanger				
9	E39 Klett-Bårdshaug	A. Melhus	*	*	*	*
		B. Orkdal	*	*	*	*
		C. Skaun	*	*	*	*
10	Rv7 Sokna-Ørgenvika	A. Flå				
		B. Krødsherad				
		C. Ringerike				

Local wider impacts are not very frequent

Impact by category in percent



Summary

- Road projects are primarily suitable to benefit those who use the road
- Additional impacts appear mostly projects in or near densely populated areas
- Both positive and negative effects may appear
- Partly in conflict to objectives in other areas (e.g., climate)

Thank you for your attention

Eivind.Tveter@himolde.no
morten.welde@ntnu.no



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