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**MONITORING OF DEVELOPMENTS RELEVANT FOR THE PAN-
EUROPEAN TRANSPORT CORRIDORS AND AREAS**

Infrastructure bottlenecks and missing links

Transmitted by the Government of Germany

Bottlenecks in the German E road network

The survey contains statements on all E roads, divided into sections which are comparable in terms of average daily volume of traffic or cross section. The upper limit for the capacity of the cross section was based on the values stated in the questionnaire to which were added the assumed values for six-lane motorways with a capacity of 90,000 vehicles per day or for eight-lane motorways with a capacity of 120,000 vehicles per day, as the case may be. The average volumes of traffic of the road sections relate to the current daily traffic conditions. The selection of the road sections listed is confined to all stretches with a traffic level/capacity ratio exceeding 1.0 (congestion). If the limits are exceeded on 80-120 days, this is classified as a bottleneck.

The table arranged according to E road numbers is divided into two parts: the first part lists the road sections intended for upgrading either as first priority projects or as second priority projects, as defined in the requirement plan for federal trunk roads which came into force on 16 October 2004. There are no plans for increasing the capacity of the road sections listed in the second part of the table.

E Road	German Motorway No	Section	Capacity [1000 PCU/24 h]	Traffic loading 2005 [1000 PCU/24 h]	Difference	Extent of Action		
						Kind	Number of lanes (actual - objective)	Program
1	2	3	4	5	6	7	8	9
Upgrade intended								
E30	B61	AD Loehne - AK Bad Oeynhausen	15	40	-25	Upgrade	24	F
E30	A2	AK Hannover Ost - Lehrte Ost	90	100	-10	Upgrade	68	S
E30	A10	AD Potsdam - AD Nuthetal	90	95	-5	Upgrade	68	F
E31	A57	AK Struemp - AK Neuss Sued	60	95	-35	Upgrade	46	F
E31	A57	AK Kamp-Lintfort - AK Struemp	60	80	-20	Upgrade	46	F
E31	A57	AK Neuss Sued - AK Koeln Nord	60	70	-10	Upgrade	46	F
E331	A44	AK Dortmund/Unna - AK Werl	60	65	-5	Upgrade	46	F
E34	A40	AK Moers - AK Kaiserberg	90	95	-5	Upgrade	68	S
E34	A2	Kamener Kreuz - Oelde	60	65	-5	Upgrade	46	F
E35	A3	AK Leverkusen - AD Heumar	90	155	-65	Upgrade	68	F
E35	A5	AK Darmstadt - AK Waldorf	60	80	-20	Upgrade	46	S
E35	A67	AD Moenchhof - AD Ruesselsheim Ost	60	75	-15	Upgrade	46	F
E35	A5	AK Waldorf - AD Karlsruhe	90	100	-10	Upgrade	68	S
E35	A3	AK Wiesbaden - AD Moenchhof	90	110	-20	Upgrade	78	F
E37	A1	AK Koeln Nord - AK Koeln West	90	110	-20	Upgrade	68	F
E37	A1	AK Wuppertal Nord - Wermeskirchen	60	65	-5	Upgrade	46	F
E40	A4	AK Koeln Ost - Overath	60	75	-15	Upgrade	46	S
E40	A4	AK Aachen - AK Koeln West	60	65	-5	Upgrade	46	F
E40	B49	Wetzlar - Gießen	15	40	-25	Upgrade	24	S

E Road	German Motorway No	Section	Capacity [1000 PCU/24 h]	Traffic loading 2005 [1000 PCU/24 h]	Difference	Extent of Action		
						Kind	Number of lanes (actual - objective)	Program
1	2	3	4	5	6	7	8	9
E41	A45	Westhofener Kreuz - AK Hagen	60	80	-20	Upgrade	56	F
E41	A81	AS Boeblingen Ost - AS Herrenberg	60	75	-15	Upgrade	56	F
E45	A9	AK Neufahrn - AK Muenchen Nord	90	120	-30	Upgrade	68	F
E45	A7	AD HH Nordwest - AD HH Suedwest	90	110	-20	Upgrade	68	F
E45	A99	AK Muenchen Nord – AK Muenchen Sued	90	110	-20	Upgrade	68	F
E45	A7	AD Salzgitter - Friedland	60	70	-10	Upgrade	46	F
E45	A7	AD Schweinfurt - AK Biebelried	60	70	-10	Upgrade	46	S
E45	A9	AD Holledau - AK Neufahrn	90	100	-10	Upgrade	68	S
E45	A7	AD Hannover Nord - AD Hannover Sued	60	65	-5	Upgrade	46	F
E451	A5	AK Homburg - AK Frankfurt a.M. NW	30	120	-90	Upgrade	68	F
E451	A5	AK Gambach - AK Homburg	90	105	-15	Upgrade	68	F
E451	A67	AK Darmstadt - AD Viernheim	90	95	-5	Upgrade	68	F
E50	A6	AK Viernheim - AK Mannheim	60	75	-15	Upgrade	46	F
E50	A6	AS 57 (Schwabach) - AK Nuernberg - Ost	60	75	-15	Upgrade	46	F
E50	A6	AD Hockenheim - AK Weinsberg	60	100	-40	Upgrade	46	F
E51	A9	AK Nuernberg - AK Nuernberg Ost	90	100	-10	Upgrade	68	S
E52	A99	AK Muenchen - Nord - AK Muenchen – Ost	90	120	-30	Upgrade	68	F

E Road	German Motorway No	Section	Capacity [1000 PCU/24 h]	Traffic loading 2005 [1000 PCU/24 h]	Difference	Extent of Action		
						Kind	Number of lanes (actual - objective)	Program
1	2	3	4	5	6	7	8	9
E52	A8	AS Augsburg - West - AS Augsburg – Ost	60	85	-25	Upgrade	46	F
E52	A99	AK Muenchen - Ost - AK Muenchen – Sued	90	105	-15	Upgrade	68	S
E52	A5	AS Appenweier - AS Baden - Baden	60	65	-5	Upgrade	46	F
E52	A8	AD Karlsruhe - AD Leonberg	60	65	-5	Upgrade	46	F
E52	A8	AD Leonberg - AS Stuttgart - Degerloch	90	125	-35	Upgrade	78	S
E52	A8	AK Muenchen - Sued - AS Holzkirchen	90	100	-10	Upgrade	68	S
E531	B33	AS Offenburg - Biberach	15	25	-10	Upgrade	24	S
E533	B2	AS Eschenlohe - Kruen	15	25	-10	Upgrade	24	S
E54	B13	AS Muenchen - Sendling - AS A95	90	150	-60	Upgrade	68	F
E54	B18	AS Memmingen - AS Stetten	15	25	-10	Upgrade	24	F
E54	B31	Ueberlingen - Meersburg	15	20	-5	Upgrade	24	F
E54	B31	Meersburg - AS Sigmarszell	15	20	-5	Upgrade	24	F
No upgrade intended								
E30	A30	AK Lotte/Osnabruock – AK Osnabruock Sued	60	80	-20			
E30	A2	AD Hannover West - AK Hannover Ost	90	105	-15			
E34	A3	AK Oberhausen West - AK Oberhausen	90	100	-10			
E34	A2	AK Oberhausen - Essen/Gladbeck	90	100	-10			

E35	A3	AK Ratingen Ost - AK Hilden	90	135	-45			
E35	A3	AK Kaiserberg - AK Breitscheid	90	110	-20			
E35	A3	AK Hilden - AK Leverkusen	90	110	-20			
E35	A3	AK Oberhausen - AK Oberhausen West	90	105	-15			
E35	A3	AK Breitscheid - AK Ratingen Ost	90	105	-15			
E35	A3	AK Oberhausen West - AK Kaiserberg	90	100	-10			
E37	A1	AK Leverkusen - AK Koeln Nord	90	110	-20			
E37	A1	Kamener Kreuz - AK Dortmund/Unna	90	95	-5			
E41	A81	AS Ludwigsburg Nord - AS Stuttgart Zuffenhausen	90	120	-30			
E41	A45	AK Dortmund NW - AK Dortmund West	60	80	-20			
E41	A81	AK Weinsberg - AS Ludwigsburg Nord	90	95	-5			
E41	A45	AK Hagen - AS Luedenscheid	60	70	-10			
E41	A45	AK Olpe Sued - AS Siegen	60	70	-10			
E41	A45	AK Gießen Sued - AK Gambach	60	75	-15			
E45	A3	Nuernberg Nord - AK Nuernberg	90	105	-15			
E451	A5	AK Frankfurt a.M. NW - AK Frankfurt	90	150	-60			
E451	A5	AK Frankfurt - AK Darmstadt	90	120	-30			
E48	B303	Troestau - AS Marktredwitz-Nord	15	18	-3			
E52	A99	AD Muenchen/Allach - AD Muenchen/Feldmoching	90	100	-10			
E531	B33	St.Georgen i.Sch. - AS Donaueschingen	15	20	-5			
E54	B13	AS A95 - AS A8	90	125	-35			
E54	B34	AS Lauching - Grenzübergang	15	20	-5			

Explanations:

column 3	AD/AK	Interchange
	AS	Exit
column 7	Upgrade	Upgrading of existing capacity by adding another lane
column 8	24	Widening from 2 to 4 lanes
	46	Widening from 4 to 6 lanes
	68	Widening from 6 to 8 lanes
	78	Widening from 7 to 8 lanes
column 9	F	First priority project according to the requirement plan for federal trunk roads (started before 2015)
	S	Second priority project according to the requirement plan for federal trunk roads (after 2015)
