

# Automated Detection of Missing Links in Bicycle Networks

## Supplementary Information

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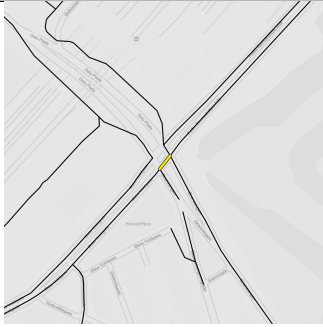
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This is the supplementary information for the manuscript containing detail plots of all 105 gaps from the Copenhagen case study. Table 1 contains close-up maps of all 105 prioritized gaps from the Copenhagen case study, with the city map as background layer. Gaps are sorted by ranking, from highest to lowest value of the benefit metric  $B$ . The benefit metric  $B$  indicates the number of meters cycled in motorized traffic that can be avoided per investment unit if a gap is “closed”. The network of protected bicycle infrastructure is shown in black. Gap classes are indicated by abbreviations and distinguished by plotting color. An interactive version of the table can be found under <https://fixbike.net/table/>.



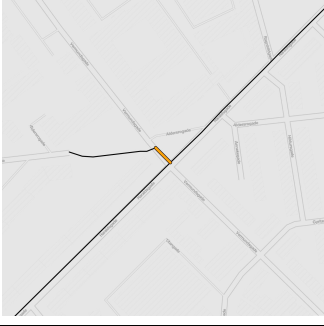
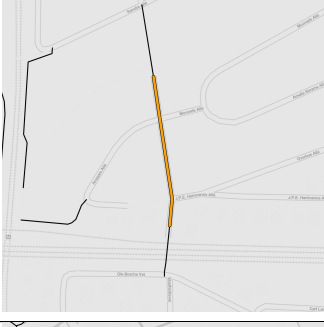

- ST** Street (orange)
- IS** Intersection (yellow)
- RT** Right-turn lane (pink)
- BR** Bridge (red)
- RA** Roundabout (violet)






Table 1: Top 105 gaps: Details

Detail map	Ranking	Benefit $B$	Class	Address
	1	65 252	BR	Knippelsbro
	2	39 447	IS	Øster Voldgade / Sølvgade

Detail map	Ranking	Benefit $B$	Class	Address
	3	37 565	IS	Enghavevej / Vigerslev Allé
	4	37 308	ST	Jacob Erlandsens Gade
	5	36 498	ST	Tåsingegade
	6	36 278	RT	from Øster Allé to Nørre Allé
	7	34 726	ST	Hans Knudsens Plads / Glænøgade / Æbeløgade

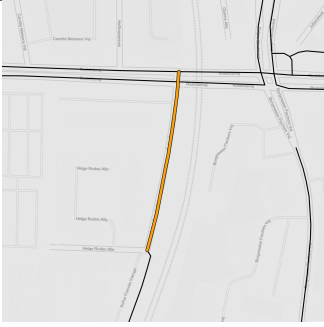




Detail map	Ranking	Benefit $B$	Class	Address
	8	33 653	BR	Langebrosvej
	9	32 246	RT	from Backersvej to Øresundsvej
	10	31 742	ST	C. F. Richs Vej / Bernhard Bangs Allé
	11	29 347	ST	Griffenfeldsgade
	12	29 145	ST	Aldersrogade

Detail map	Ranking	Benefit $B$	Class	Address
	13	28 745	ST	Værnedamsvej
	14	28 645	RT	from Hillerødgade to Borups Allé
	15	28 568	ST	Vermundsgade
	16	28 342	ST	Tschernings Allé
	17	27 495	ST	Ålandsgade and Frankrigshusene

Detail map	Ranking	Benefit $B$	Class	Address
 A street map showing a diagonal road highlighted in orange.	18	27 405	ST	Blegdamsvej
 A street map showing a curved road highlighted in purple.	19	26 933	RT	Christians Brygge
 A street map showing an intersection highlighted in yellow.	20	26 311	IS	Alekistevej with Jyllingevej
 A street map showing a diagonal road highlighted in orange.	21	25 607	ST	Thorvaldsensvej
 A street map showing a diagonal road highlighted in orange.	22	25 568	ST	Sigynsgade

Detail map	Ranking	Benefit $B$	Class	Address
	23	25 543	ST	Hamletsgade
	24	25 534	ST	Kristen Bernikows Gade / Nikolaj Plads / Højbro Plads
	25	25 067	ST	Christian IX's Gade
	26	24 565	ST	Koldinggade and Randers- gade
	27	24 148	ST	Langebrogade and Ved Langebro



Detail map	Ranking	Benefit $B$	Class	Address
	28	22 942	ST	Øster Farimagsgade
	29	22 910	ST	Borgmester Fischers Vej
	30	22 770	ST	Gåsebæksvej
	31	22 769	RT	from Nørre Allé to Øster Allé
	32	22 144	ST	Nyborggade, Randersgade and Vordingborggade

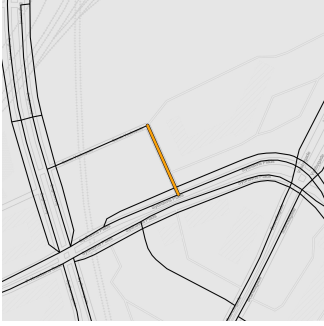
Detail map	Ranking	Benefit $B$	Class	Address
	33	21 856	ST	Sofus Francks Vænge
	34	21 688	ST	Dybbølsgade
	35	21 626	ST	Tietgensgade, Helgolandsgade and Colbjørnsensgade
	36	21 606	ST	Blågårdsgade
	37	21 599	IS	Peter Bangs Vej with Lindenvangs Allé

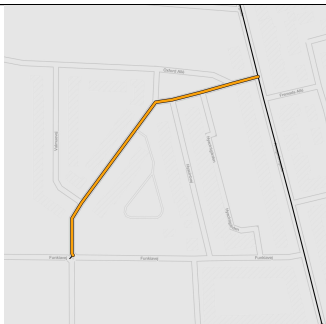






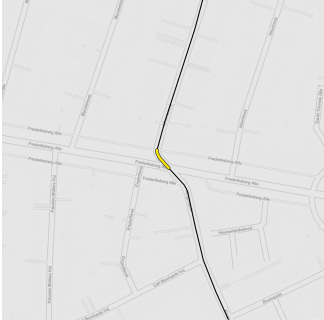
Detail map	Ranking	Benefit $B$	Class	Address
	38	20 995	ST	Annexstræde Rughavevej and
	39	20 990	ST	Herlufsholmvej
	40	20 952	ST	Nordre Frihavnsgade
	41	20 518	RA	Australiensvej/Bryggerivangen and Sankt Kjelds Plads
	42	20 484	ST	Christen Bergs Allé

Detail map	Ranking	Benefit $B$	Class	Address
	43	20 464	ST	Vendersgade
	44	20 202	IS	Skellet with Roskildevej
	45	20 194	ST	Forhåbningsholms Allé, Carl Plougs Vej, Julius Thomsens Plads and Julius Thomsens Gade
	46	20 090	ST	Valløvej
	47	19 622	IS	Enghavevej / P. Knudsens Gade




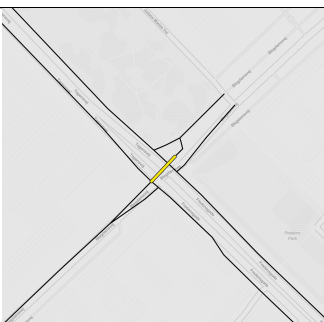

Detail map	Ranking	Benefit $B$	Class	Address
	48	19 545	IS	Sølvtorvet
	49	19 503	IS	Hammerichsgade and Vesterbrogade
	50	19 171	ST	Store Kongensgade
	51	19 096	ST	Birkedommervej and Landsdommervej
	52	18 988	ST	Rådmandsgade, Mimersgade and Thorsgade

Detail map	Ranking	Benefit $B$	Class	Address
	53	18 965	ST	Ørnevej and Mågevej
	54	18 941	ST	Gamle Vasbygade
	55	18 812	IS	Fensmarkgade Tagensvej with
	56	18 531	ST	Kronprinsesse Sofies Vej
	57	18 331	ST	Østbanegade and Bergens- gade

Detail map	Ranking	Benefit $B$	Class	Address
	58	18 254	ST	Rantzausgade, Kapelvej, Hans Tavsens Gade
	59	18 117	RT	from Søndre Fasanvej to Smallegade
	60	18 116	ST	Strandboulevarden
	61	17 993	ST	Valby Langgade and Gam- mel Jernbanevej
	62	17 927	ST	Oxford Allé






Detail map	Ranking	Benefit $B$	Class	Address
	63	17 778	ST	Frilands Allé
	64	17 693	IS	Ellebjergervej with Gammel Køge Landevej
	65	17 597	IS	H. C. Andersens Boulevard with Rysensteensgade
	66	17 455	ST	Bernstorffgade
	67	17 392	IS	Kingsgade with Frederiksberg Allé

Detail map	Ranking	Benefit $B$	Class	Address
	68	17362	ST	Engvej, Sorrentovej and Backersvej
	69	17319	ST	Nørregade, Gammeltorv, Nytorv, Rådhusstræde and Frederiksholms Kanal
	70	17290	ST	Kronprinsessegade
	71	17290	ST	Gustav Johannsens Vej
	72	17181	ST	Ib Schønbergs Allé


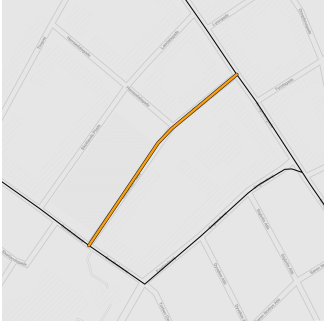
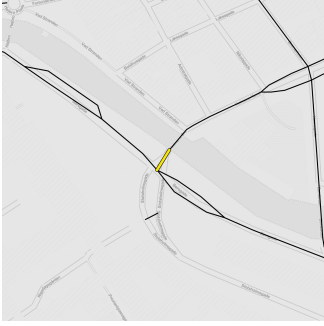
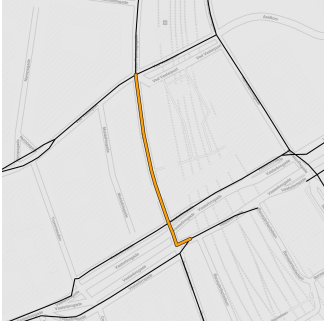
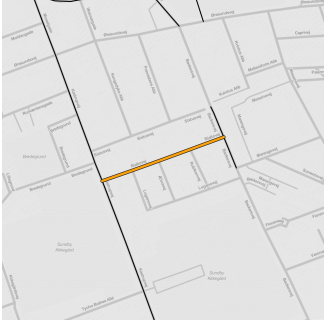
Detail map	Ranking	Benefit $B$	Class	Address	
	73	17071	ST	Lygten	
	74	16907	ST	Mågevej	
	75	16897	ST	Retortvej	
	76	16869	IS	Blegdamsvej Tagensvej	with
	77	16855	ST	Guldbergsgade	



Detail map	Ranking	Benefit $B$	Class	Address
	78	16 766	IS	Gammel Kongevej with Henrik Steffens Vej
	79	16 762	ST	Solvej
	80	16 758	ST	Frederiksberg Allé, Platanvej and Vesterfælledvej
	81	16 730	ST	Sibeliusgade
	82	16 533	ST	Vester (north) Farimagsgade

Detail map	Ranking	Benefit $B$	Class	Address
	83	16 530	ST	Stadfeldtsvej, Ole Borchs Vej and Høffdingsvej
	84	16 530	ST	Drosselvej
	85	16 506	ST	Korsager Allé
	86	16 420	ST	Kortløb
	87	16 389	RT	from Ågade to Borups Plads

Detail map	Ranking	Benefit $B$	Class	Address
	88	16 331	ST	Tranehavevej
	89	15 846	IS	Toftegårds Plads with Vigerslev Allé
	90	15 804	ST	Stefansgade, Gormsgade, Mimersgade and Baldersgade
	91	15 770	ST	Sigurdsgade
	92	15 717	BR	Langebro (other side)

Detail map	Ranking	Benefit $B$	Class	Address
	93	15 652	ST	Jernbanegade
	94	15 650	ST	Shetlandsgade
	95	15 597	IS	Børsgade with Holmens Bro
	96	15 585	ST	Vester (south) Farimagsgade
	97	15 557	ST	Rialtovej

Detail map	Ranking	Benefit $B$	Class	Address
	98	15 528	ST	Peder Lykkes Vej, Prinsesse Christines Vej and Højdevej
	99	15 497	ST	Lergravsvej
	100	15 440	ST	Bagerstræde
	101	15 435	ST	Æblevej
	102	15 376	ST	Strømmen

Detail map	Ranking	Benefit $B$	Class	Address
	103	15 365	ST	Straussvej
	104	15 365	IS	Mellemvangen Hareskovvej with
	105	15 323	ST	Lyshøjgårdsvej