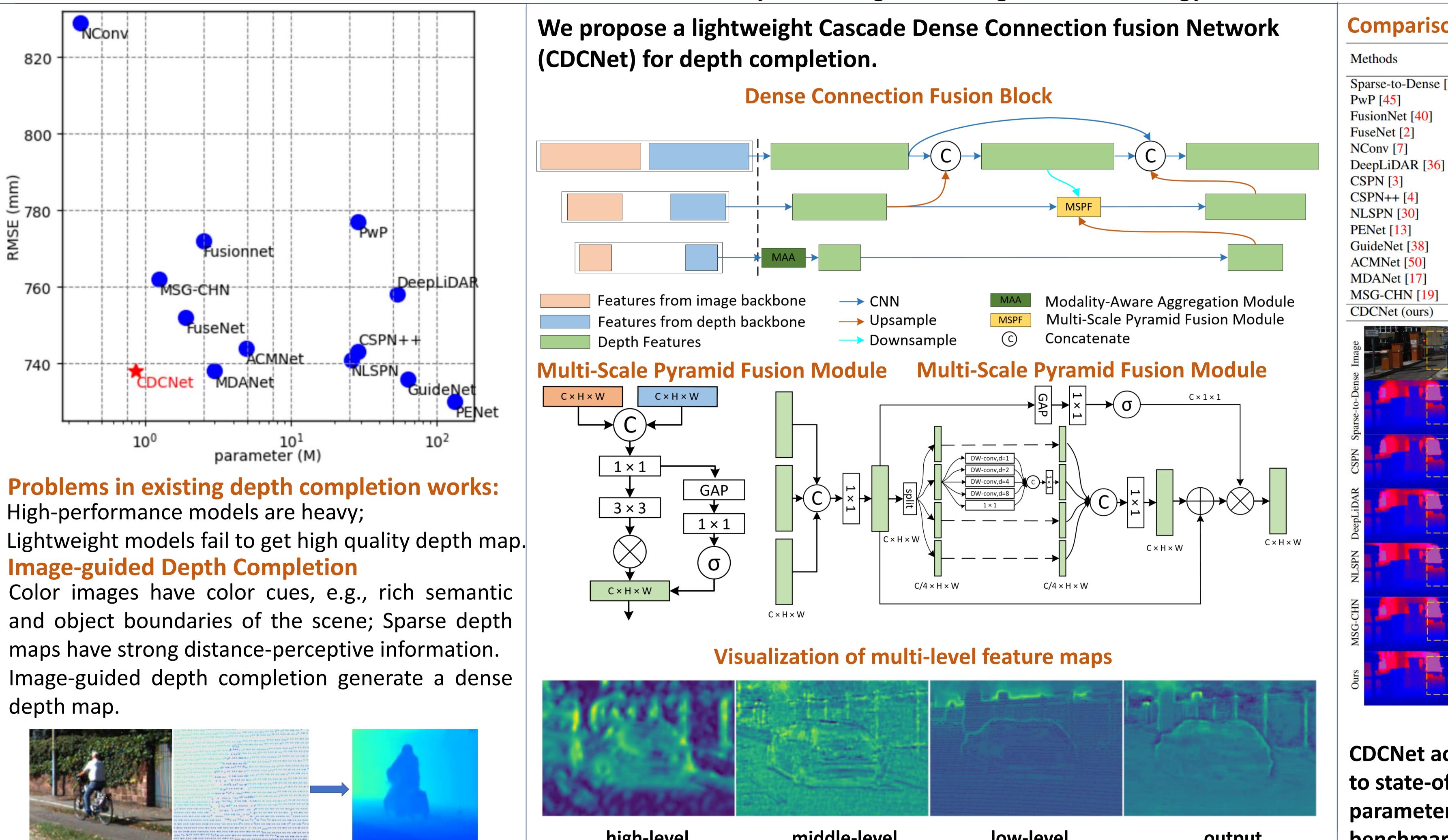
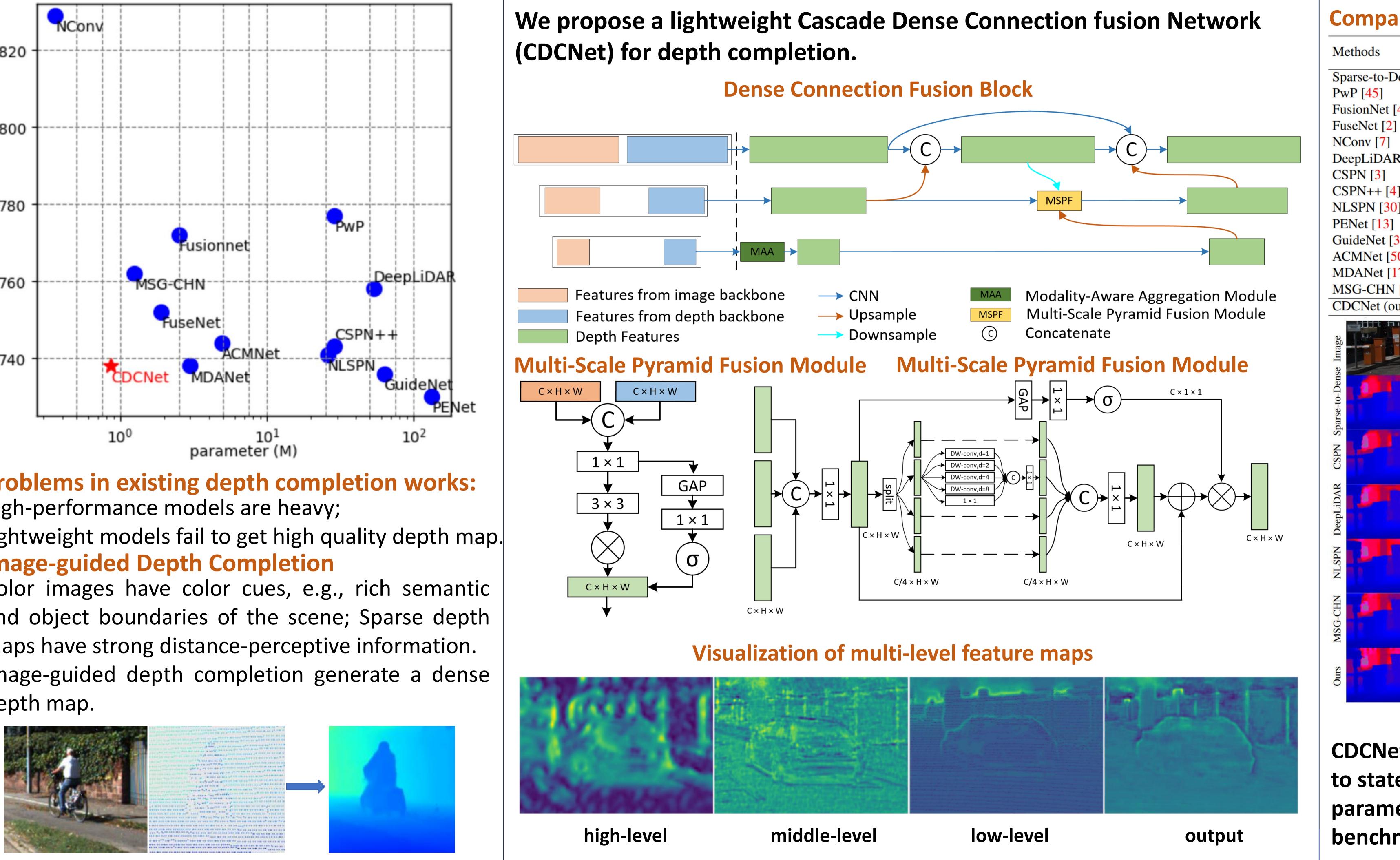


A Cascade Dense Connection Fusion Network for Depth Completion Rizhao Fan¹ Zhigen Li² Matteo Poggi¹ Stefano Mattoccia¹ ¹University of Bologna ² Ping An Technology



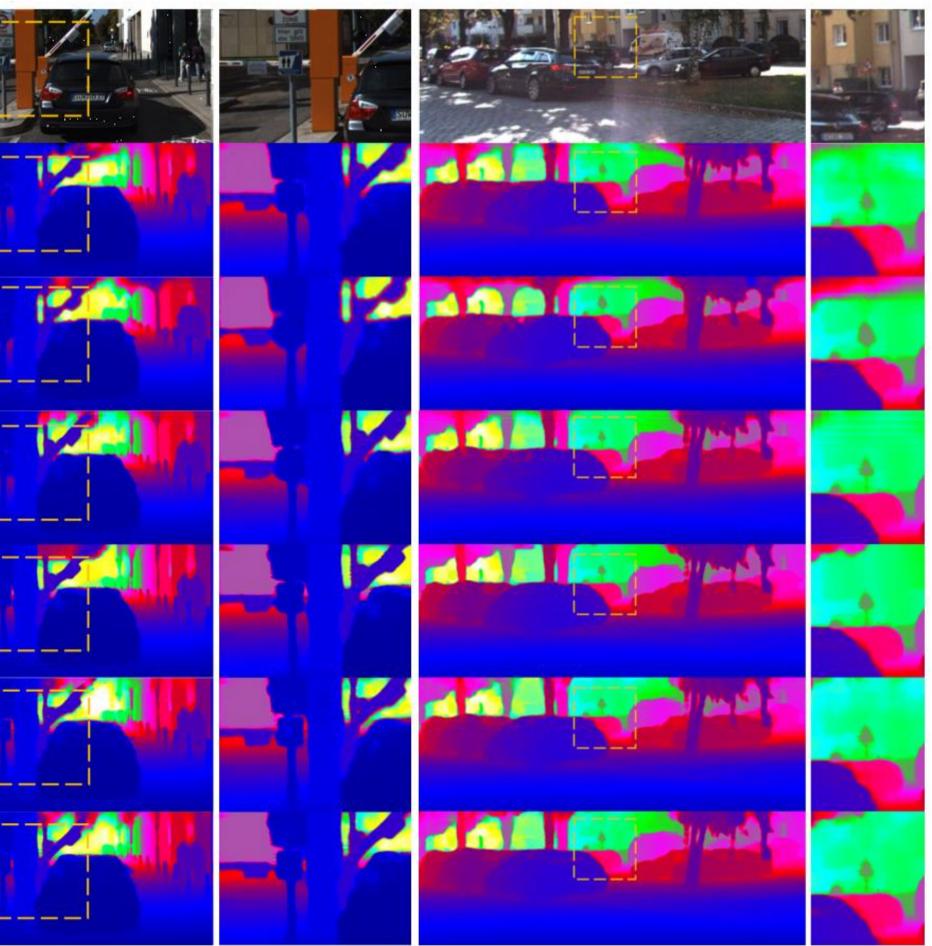


CDCNet achieves competitive results compared to state-of-the-art methods with much fewer parameters on the KITTI depth completion benchmark.



Comparison with SOTA: KITTI dataset

	Parameters	RMSE	MAE	iRMSE	iMAE	runtime
	(M)	(mm)	(mm)	(1/km)	(1/km)	(s)
[27]	-	814.73	249.95	2.80	1.21	0.08
	29.10	777.05	235.17	2.42	1.13	0.10
	2.50	772.87	215.02	2.19	0.93	0.02
	1.90	752.88	221.19	2.34	1.14	0.09
	0.36	829.98	233.26	2.60	1.03	0.02
]	53.40	758.38	226.50	2.56	1.15	0.35
	-	1019.64	279.46	2.93	1.15	1.00
	28.80	743.69	209.28	2.07	0.90	0.20
	25.80	741.68	199.59	1.99	0.84	0.13
	133.70	730.08	210.55	2.17	0.94	0.16
	63.30	736.24	218.83	2.25	0.99	0.14
	4.90	744.91	206.09	2.08	0.90	0.35
	3.07	738.23	214.99	2.12	0.99	0.03
	1.25	762.19	220.41	2.30	0.98	0.01
	0.87	738.26	216.05	2.18	0.99	0.03



Conclusion