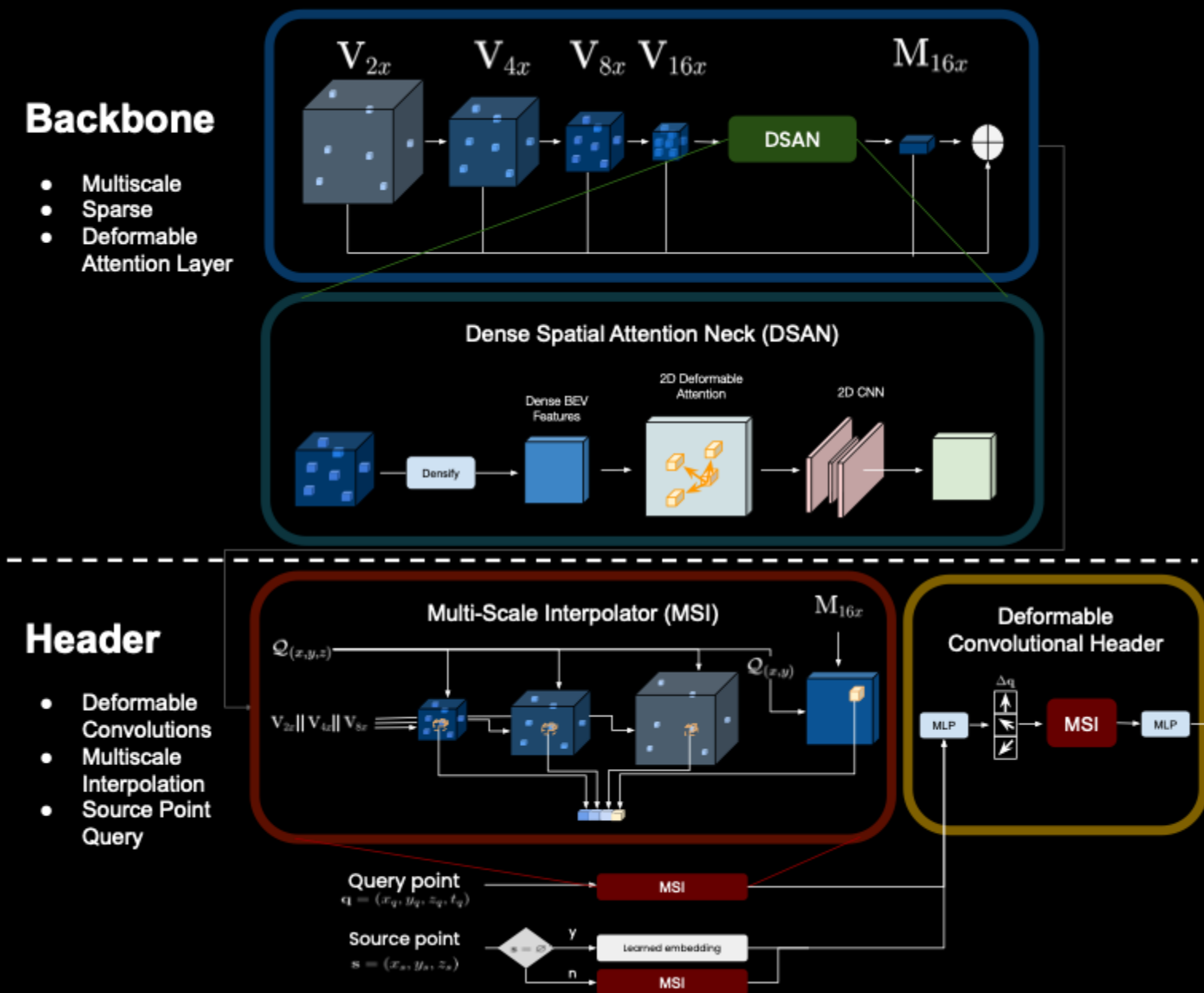
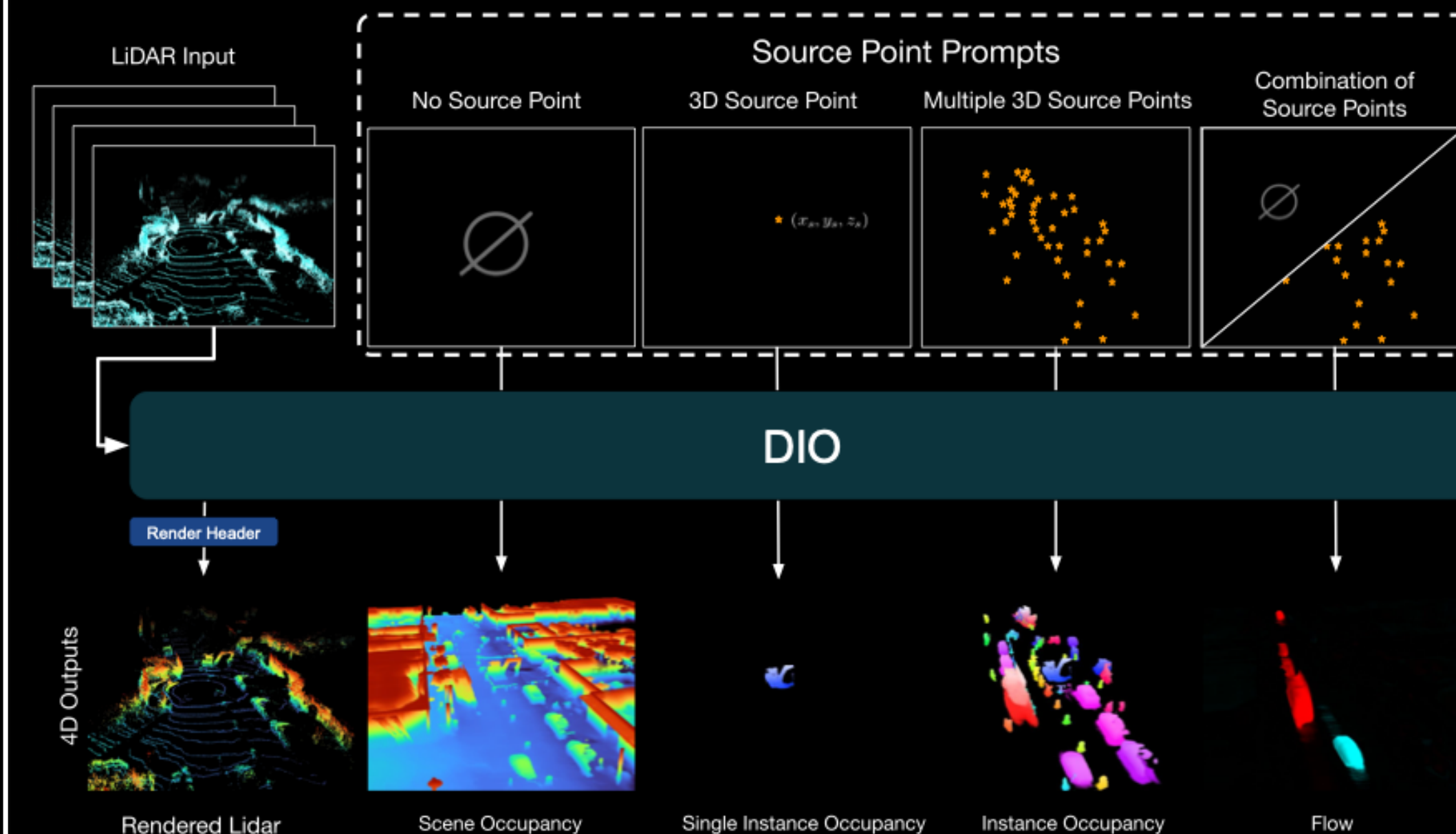


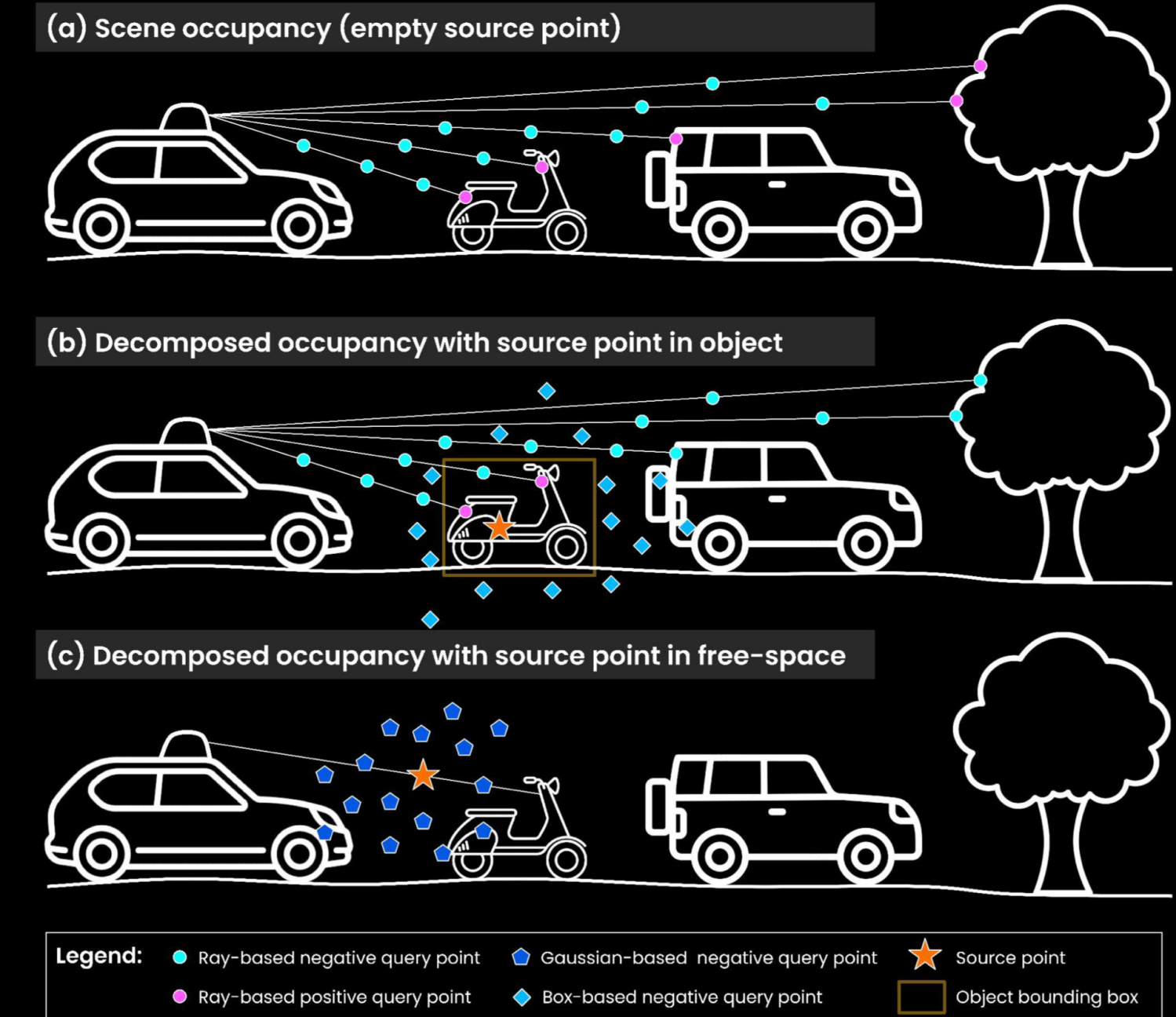
Architecture



Method Overview



Training Query Point Generation



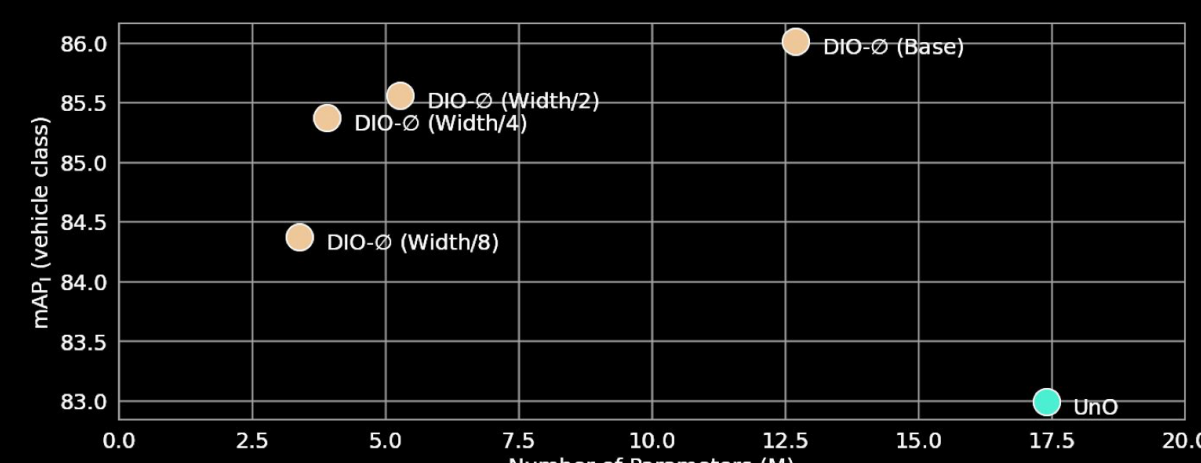
Argoverse 2 Occupancy Leaderboard

	L1 (m) ↓	AbsRel (%) ↓	NFCD (m ²) ↓	CD (m ²) ↓
RayTracing	2.50	35.00	3.62	17.03
occformer_ep15	3.57	22.00	3.35	91.61
4D-Occ	3.22	19.00	2.45	72.74
occformer	2.97	17.00	2.03	71.33
Progressive ARM	2.32	13.00	1.81	71.41
UNO	2.24	12.00	0.86	8.10
DIO-Ø	2.11	11.00	0.85	13.96

Openset Object Generalization

	Completion ($t = t_0$)		Forecasting ($t > t_0$)			
	mAP ₁ ↑	S-IoU ₁ ↑	mAP _s ↑	S-IoU _s ↑	mAP ₁ ↑	S-IoU ₁ ↑
4D-Occ	-	-	85.74	36.95	70.42	43.67
ImplicitO-4D	87.16	24.09	82.49	7.47	62.42	8.01
UNO	85.85	85.84	96.37	70.48	80.10	65.58
DIO-Ø	98.43	88.15	97.49	76.71	88.45	71.42
DIO-NL	97.61	82.40	99.05	80.54	82.95	68.77

Model Size Scaling



Labelled Object Occupancy Prediction

	Completion ($t = t_0$)		Forecasting ($t > t_0$)			
	mAP ₁ ↑	S-IoU ₁ ↑	mAP _s ↑	S-IoU _s ↑	mAP ₁ ↑	S-IoU ₁ ↑
Box Oracle	50.49	51.33	99.40	99.36	47.71	51.07
4D-Occ	-	-	70.48	30.90	56.63	29.48
ImplicitO-4D	65.04	52.96	97.31	69.83	61.51	45.51
UNO	89.43	70.00	97.04	77.86	82.99	60.74
DIO-D	94.36	75.97	98.47	83.78	86.01	62.72

Quantitative Results

Qualitative Results

