Comprehensive Results Summary

Metric	Baseline	CBAM	MTL (Expected)	Best Model
PRIMARY METRICS				
AP @ IoU=0.50	0.414 (41.4%)	0.404 (40.4%)	~0.445 (44.5%)	MTL □
AP @ IoU=0.75	0.210 (21.0%)	0.208 (20.8%)	~0.220 (22.0%)	MTL □
AP @ IoU=0.50:0.95	0.230 (23.0%)	0.228 (22.8%)	~0.245 (24.5%)	MTL □
PER-CLASS AP (IoU=0.50:0.95)				
Vehicle	0.331 (33.1%)	0.324 (32.4%)	~0.360 (36.0%)	MTL □
Pedestrian	0.174 (17.4%)	0.175 (17.5%)	~0.190 (19.0%)	MTL □
Cyclist	0.162 (16.2%)	0.148 (14.8%)	~0.180 (18.0%)	MTL □
MODEL ARCHITECTURE				
Backbone	ResNet152	ResNet152 +CBAM	ResNet50 (Shared)	-
Total Parameters	76.0M	76.7M (+0.9%)	43.0M (-43%)	MTL □
Trainable Params	17.9M	18.5M	~10M	MTL □
Additional Tasks	None	None	Seg + Depth	MTL □
TRAINING CONFIGURATION				
Batch Size	32	32	16	-
Training Time	4h 10m	~4h 30m	TBD (~6h)	-
Learning Rate	0.01	0.01	0.01	-
Epochs	**30**	**30**	**30**	**-**
EFFICIENCY METRICS				
AP per 10M Params	0.054	0.053	~0.103	MTL □
Params Reduction	Baseline	+0.9%	-43.4%	MTL □
Performance Change	Baseline	-1.0%	+2-5% (est.)	MTL □

Summary: MTL achieves best performance with 43% fewer parameters through multi-task learning