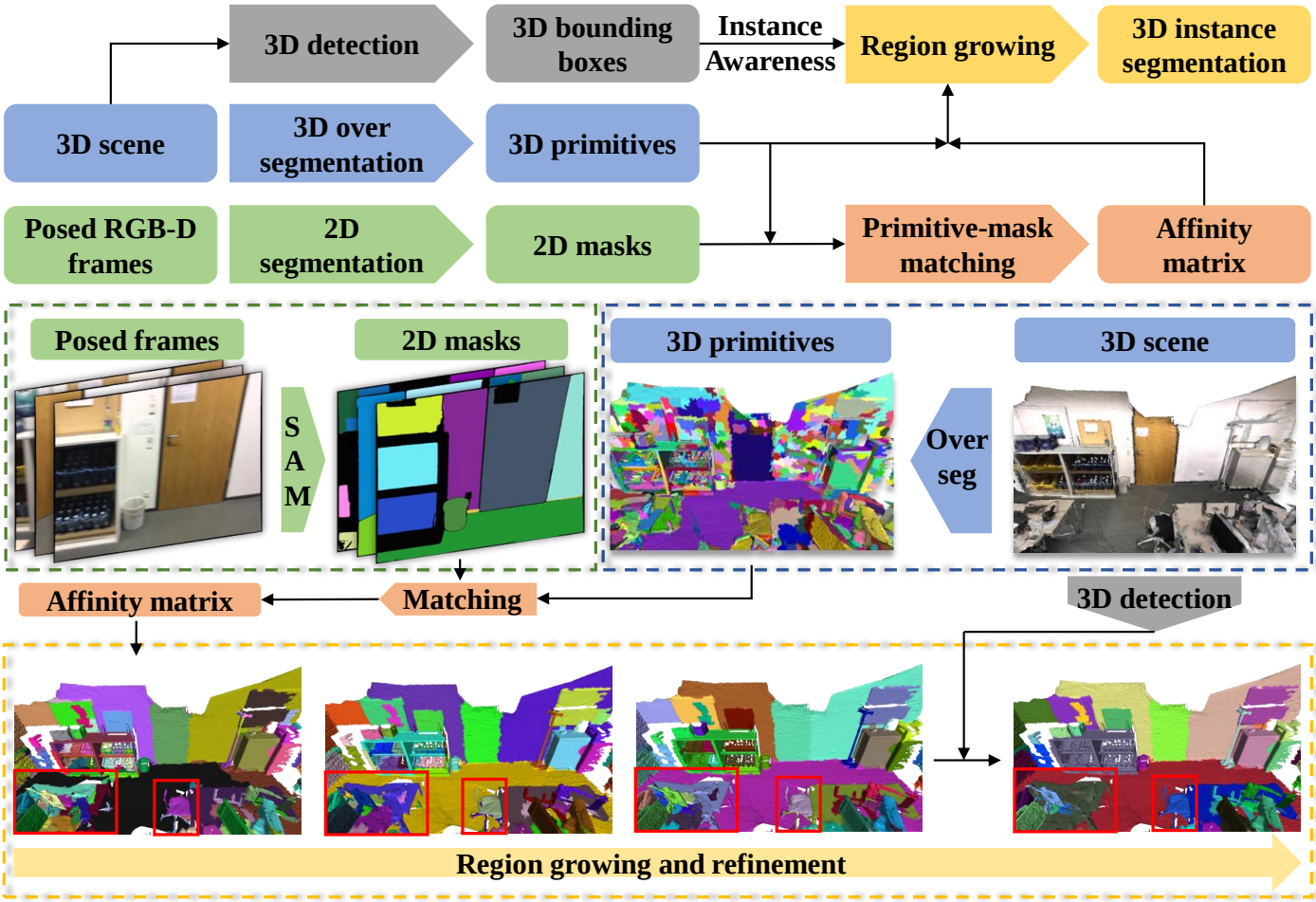

Figure 1: **Overview (top blocks); detailed images (all dashed boxes); progressive merging (bottom yellow dashed box).**

Table 1: **More ablation study.**

W_n	W_c	det.	mAP$_1$	AP25$_1$	AP50$_1$	mAP$_2$	AP25$_2$	AP50$_2$
1	0	×	30.8	50.5	70.6	28.9	49.2	69.7
0	1	×	10.4	18.1	32.5	9.5	17.0	31.1
0.4	0.6	×	27.3	47.4	69.8	25.6	46.3	69.4
0.96	0.04	×	29.3	49.2	70.5	27.4	48.3	70.4
1	0	✓	40.8	63.6	80.7	35.9	57.8	75.4
0	1	✓	12.7	22.1	37.2	11.0	19.7	34.1
0.4	0.6	✓	39.1	62.7	80.2	33.5	56.3	75.0
0.96	0.04	✓	**41.6**	**64.6**	**81.3**	**36.1**	**58.6**	**76.3**

Table 2: **Experiments on Replica.**

Replica	W_n	W_c	3D Space Prior	mAP	AP25	AP50
SAM w/o en.	/	/	/	11.9	22.9	38.4
SAM w/ en.	1	/	/	12.4	20.0	32.0
SAMPro3D	1	0	/	13.1	25.2	44.7
SAI3D	1	0	/	20.4	30.7	42.9
Ablation of ours						
Ours #1	1	0	yes	21.0	31.5	43.6
Ours #2	0.9	0.1	/	20.8	32.8	46.2
Ours #3	0.9	0.1	yes	**22.6**	**34.2**	**47.1**

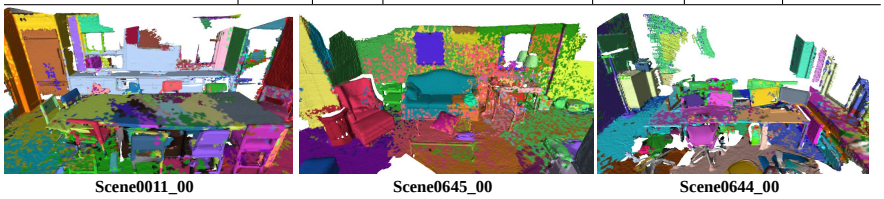

Figure 2: **Examples of SAM3D.**

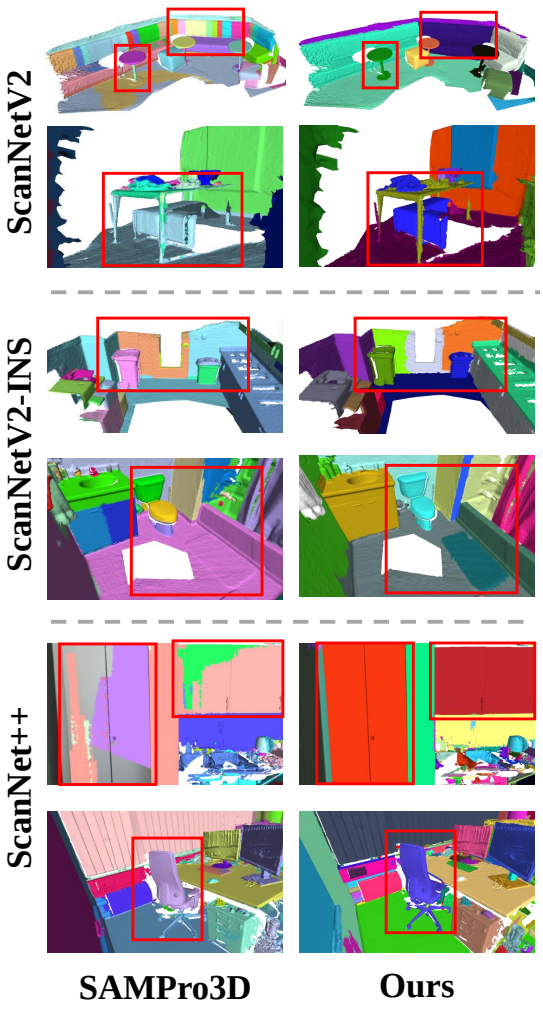

Figure 3: **Comparison with SAMPro3D.**