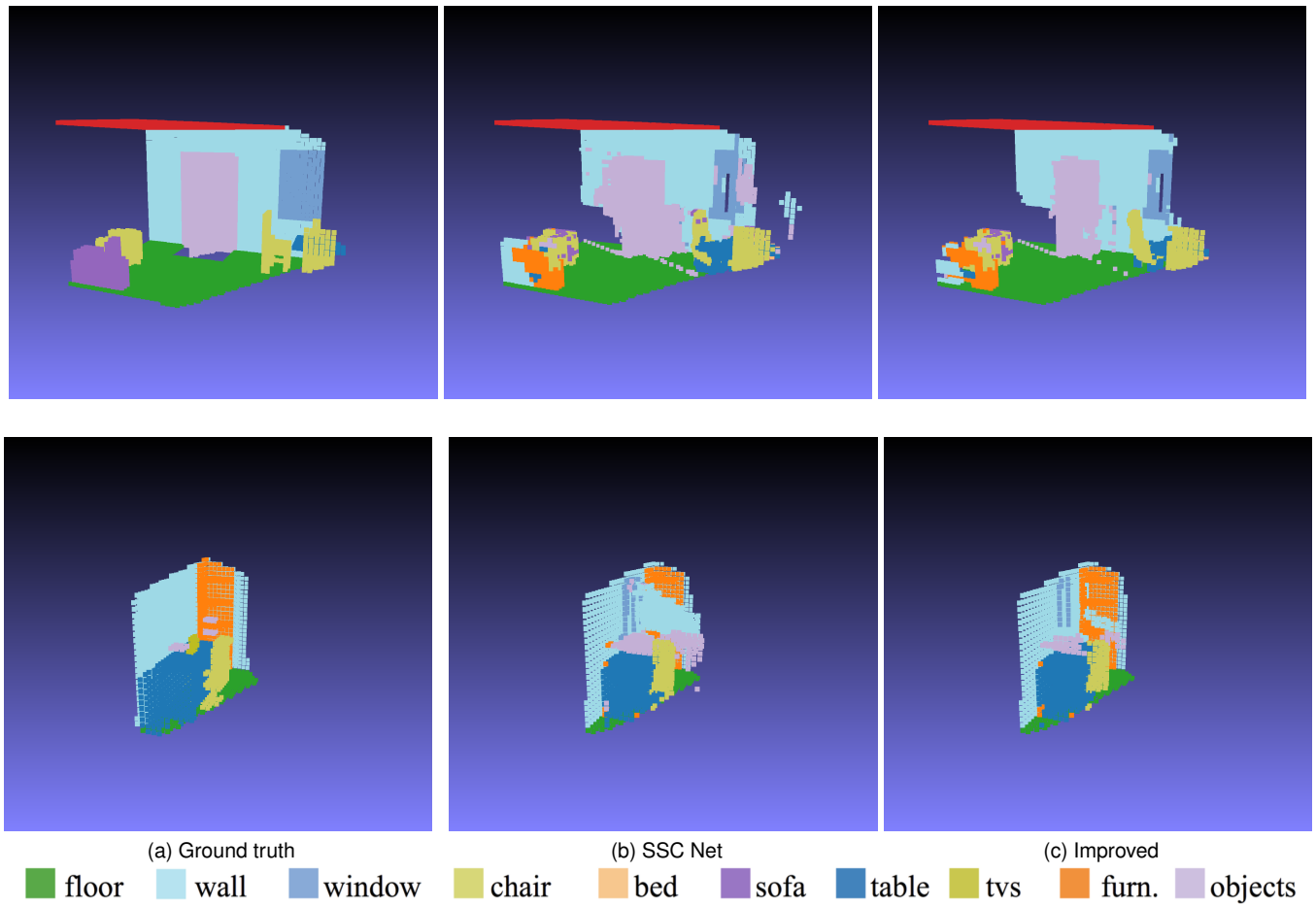

Fig. 1. **Qualitative results.** We compare with semantic scene completion results from Song *et al.* [1] on the test set of SUNCG dataset. Overall, the improved method gives more accurate voxel predictions such as tables.

TABLE 1
Scene completion and semantic scene completion results on the SUNCG test set.

Method	Scene Compeltion			Intersection over Union of Semantic Scene Compeltion											
	Precision	Recall	IoU	ceiling	floor	wall	window	chair	bed	sofa	table	tvs	furn	objs	mean
SSC Net	74.4	**95.8**	72.1	**97.1**	84.7	54.9	22.8	25.4	58.2	54.1	26.9	20.8	**44.4**	23.5	46.6
SSC Net [1]	76.3	95.2	73.5	96.3	84.9	56.8	**28.2**	21.3	56	52.7	**33.7**	10.9	44.3	25.4	46.4
Improved (End to End)	75.0	**95.8**	72.5	94.7	**85.6**	51.6	25.7	20.8	57.4	49.5	31.4	**24.4**	42.3	24.7	46.2
Improved (Seperate)	**80.5**	**95.8**	**74.4**	96.5	84.7	**57.1**	24.0	**27.9**	**62.4**	**55.8**	32.2	19.5	**44.4**	**27.2**	**48.3**

1 SECTION1

Some notes and illustrations.

REFERENCES

[1] S. Song, F. Yu, A. Zeng, A. X. Chang, M. Savva, and T. Funkhouser, "Semantic scene completion from a single depth image," *Proceedings of 30th IEEE Conference on Computer Vision and Pattern Recognition*, 2017.