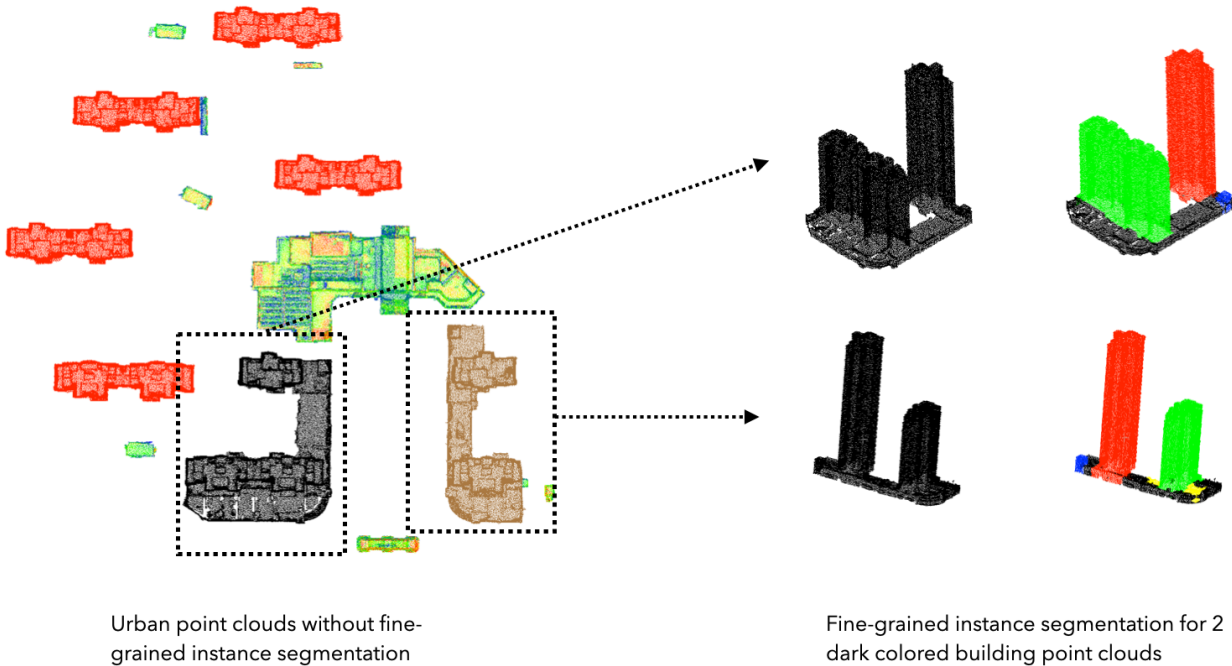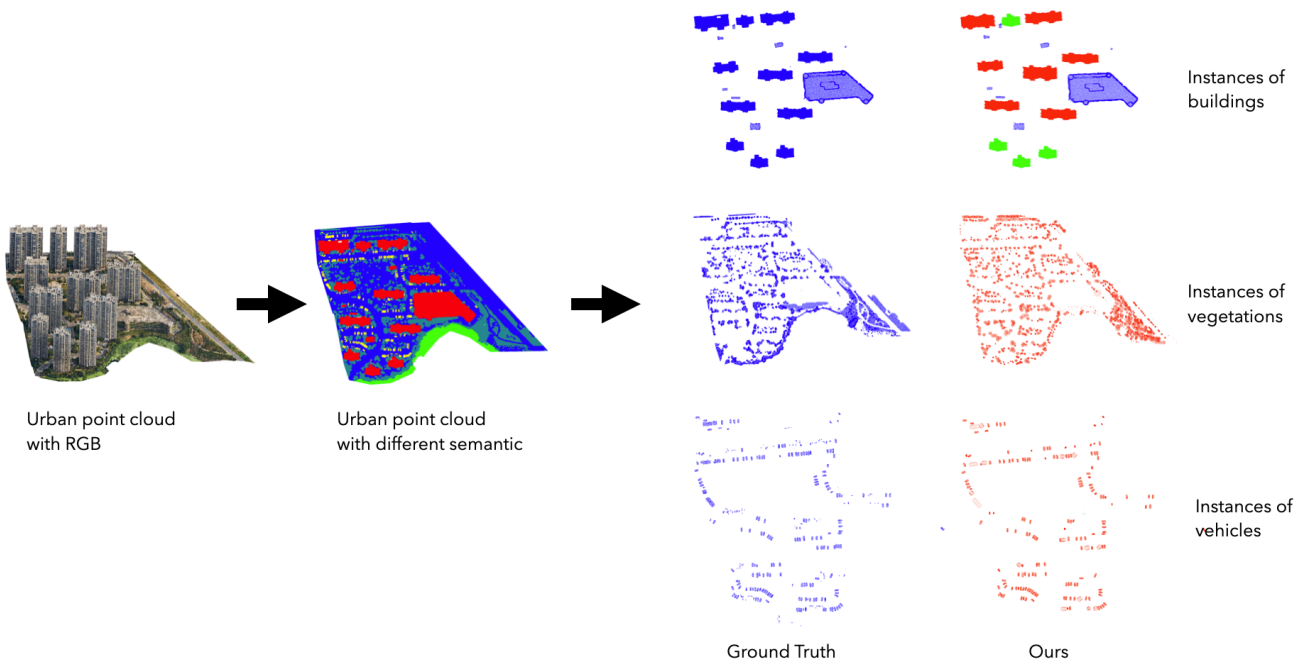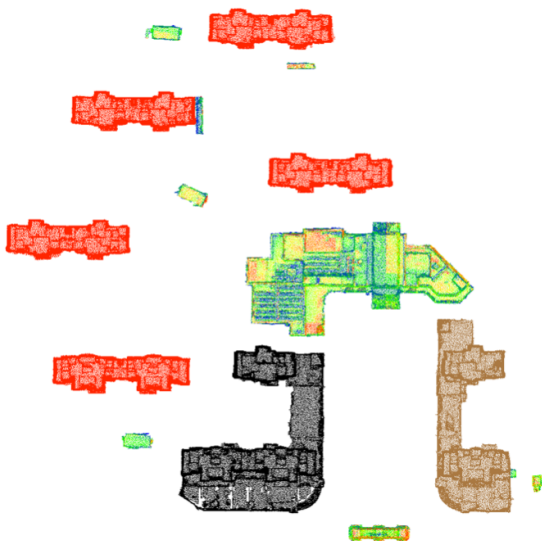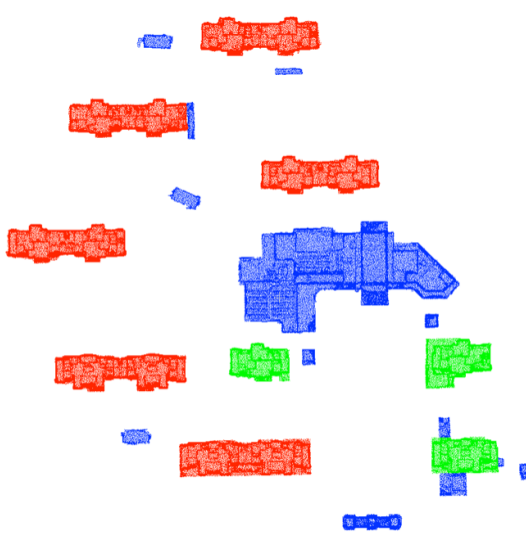# Fine-grained Instance of Large-scale Urban Point Clouds (FILU)

1. Fine-grained instance segmentation of buildings
2. Match similar point cloud instances
3. Compute spatial transformations from similar instances

Urban point cloud with RGB

Urban point cloud with different semantic

Instances of buildings

Instances of vegetations

Instances of vehicles

Ground Truth

Ours

Urban point clouds without fine-grained instance segmentation

Fine-grained instance segmentation for 2 dark colored building point clouds

Urban point clouds without fine-grained instance segmentation, 5 red buildings are instantiated

Urban point clouds with fine-grained instance segmentation (Ours), 6 red buildings and 3 green buildings are instantiated