



Piotr Rybicki

ROSCON KYOTO 2022

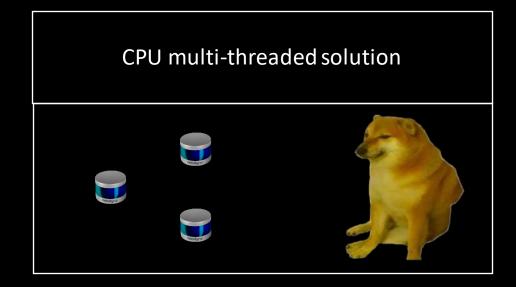


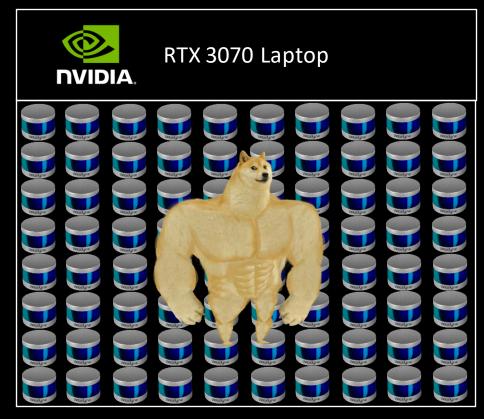
Performance

350 MLN rays/second

On a complex urban scene (below)





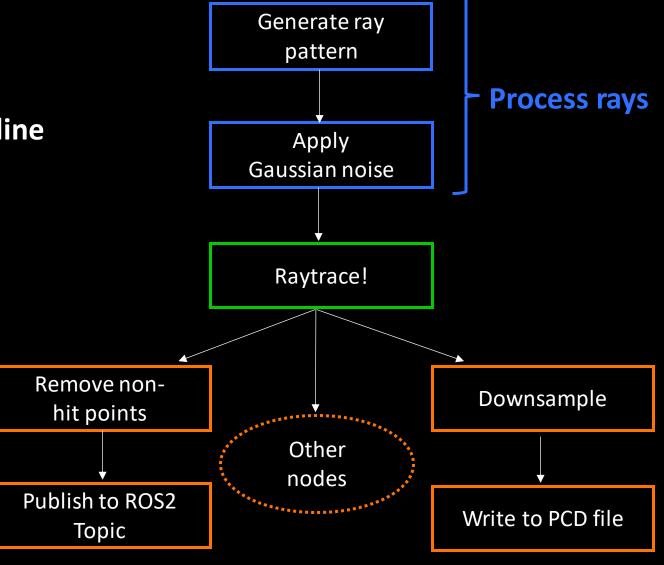


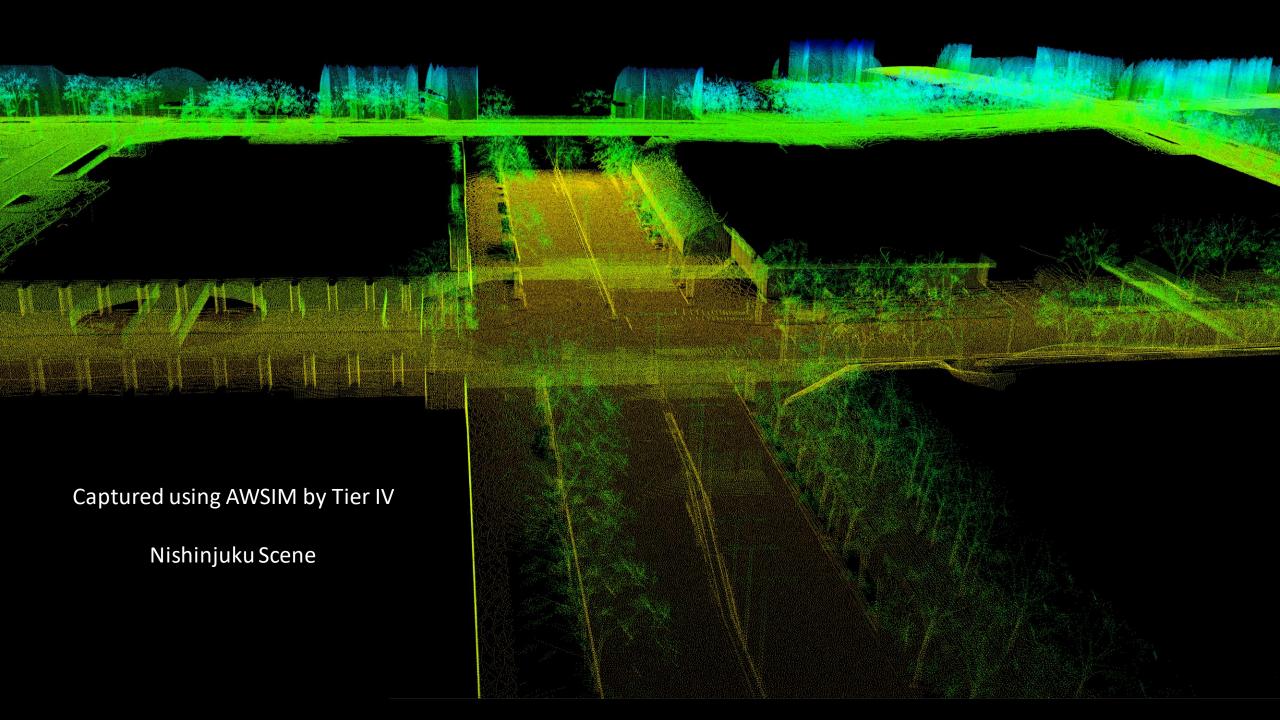
Flexiblity

Dynamically define your pipeline

- Non-periodic patterns
- Downsampling
- Writing to PCD file
- (check docs for more!)

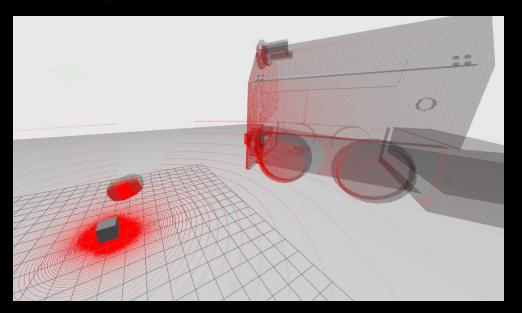
Process pointcloud





Easy to use

- C-API available from any language
- Integrated with AWSIM (Tier IV) (C#, Unity)
- Gazebo Plugin in progress
- Integration ideas are welcomed!



```
RGL_API rgl_status_t
rgl_entity_create(rgl_entity_t *out_entity, rgl_scene_t scene, rgl_mesh_t mesh);
RGL_API rgl_status_t
rgl_entity_set_pose(rgl_entity_t entity, rgl_mat3x4f *local_to_world_tf);
RGL_API rgl_status_t
rgl_graph_get_result_data(rgl_node_t node, rgl_field_t field, void* data);
```

Takeaway

https://github.com/RobotecAl/RobotecGPULidar



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