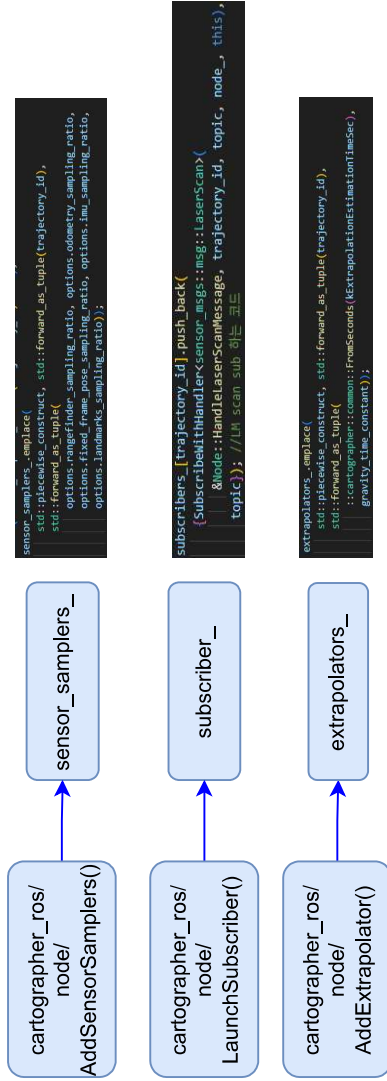


## <node.cpp>



```

sensor_samplers_.emplace(
    std::piecewise_construct, std::forward_as_tuple(trajecory_id),
    std::forward_as_tuple(
        options.range_finder_sampling_ratio, options.odometry_sampling_ratio,
        options.fixed_frame_pose_sampling_ratio, options.imu_sampling_ratio,
        options.landmarks_sampling_ratio));
  
```

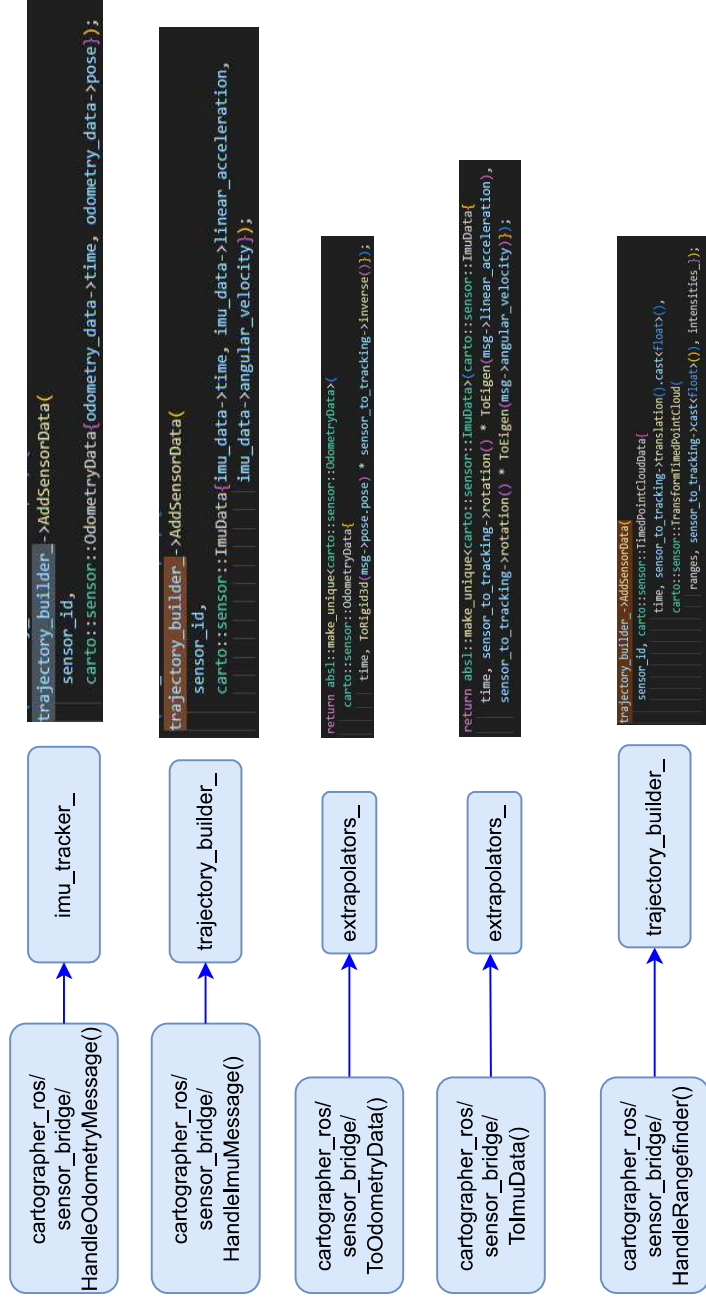
```

subscribers_[trajecory_id].push_back(
    {SubscriberHandler<Sensor>::msg::msg::LaserScan(
        &node::HandleLaserScanMessage, trajecory_id, topic, node_, this),
      topic}); //Ll scan sub 하는 코드
  
```

```

extrapolators_.emplace(
    std::piecewise_construct, std::forward_as_tuple(trajecory_id),
    std::forward_as_tuple(
        cartographer::common::FromSeconds(ExtrapolationEstimationTimeSec),
        gravity_time_constant));
  
```

## <sensor\_bridge.cpp>



```

trajecory_builder_ ->AddSensorData(
    sensor_id,
    carto::sensor::OdometryData{odometry_data->time, odometry_data->pose});
  
```

```

trajecory_builder_ ->AddSensorData(
    sensor_id,
    carto::sensor::ImuData{imu_data->time, imu_data->linear_acceleration,
                           imu_data->angular_velocity});
  
```

```

return absl::make_unique<carto::sensor::OdometryData>(
    carto::sensor::OdometryData{
        time, ToEigen(msg->pose.pose) * sensor_to_tracking->inverse()});
  
```

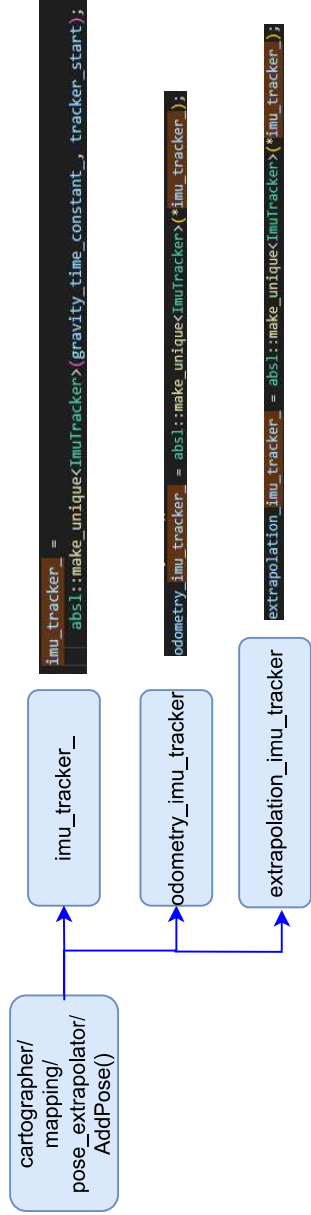
```

return absl::make_unique<carto::sensor::ImuData>(carto::sensor::ImuData{
    time, sensor_to_tracking->rotation() * ToEigen(msg->linear_acceleration),
    sensor_to_tracking->rotation() * ToEigen(msg->angular_velocity));
  
```

```

trajecory_builder_ ->AddSensorData(
    sensor_id, carto::sensor::RangeFinderCloudData{
        time, sensor_to_tracking->translation().cast<float>(),
        carto::sensor::TransformInPointCloud(
            ranges, sensor_to_tracking->cast<float>(), Intensities)});
  
```

## <pose\_extrapolator.cc>



```

imu_tracker_ =
    absl::make_unique<ImuTracker>(gravity_time_constant, tracker_start);
  
```

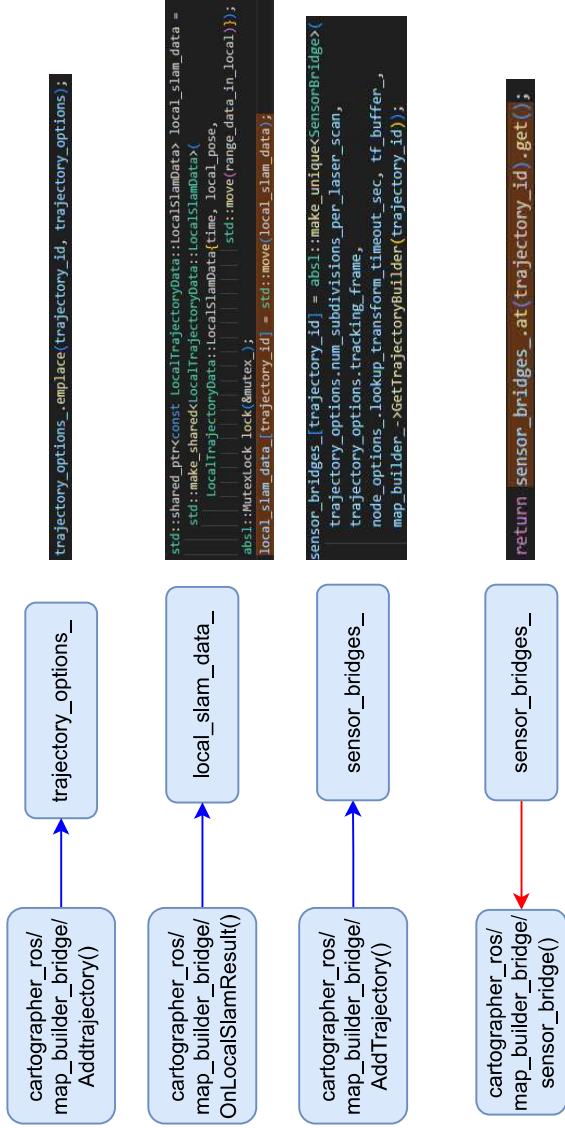
```

odometry_imu_tracker_ = absl::make_unique<ImuTracker>(&imu_tracker_);
  
```

```

extrapolation_imu_tracker_ = absl::make_unique<ImuTracker>(&imu_tracker_);
  
```

## <map\_builder\_bridge.cpp>



## <map\_builder.cc.h>

