

Data Collection Categories

What is this for?

- Find category
- For your application, draw box
- For things you care about outside the box, figure out how to store more efficiently e.g. compress, downsample

General:

E.g. Always capture logs

Autonomous Mobile Robots:

Description: Make a robot navigate environment, not strictly controlled

Important data to capture:

- Logs
- Telemetry (joint states, poses)
 - IMU
 - Odometry
-

Granularity:

Submarine

Description: Underwater travel, navigation, exploration

Important data to capture:

- Internal temperature/pressure
- Map
- Sonar

Granularity:

Choose how much data you need, e.g. lots for development, only a little for production.

Data storage doesn't need to be the cloud; these recommendations are more about the type/amount of data to store, and apply for storing at the edge or even on a memory stick.

If you need to reduce data rate:

- Don't capture at all
- Store locally, upload downsampled rate
- Compress data before upload
- Dynamically capture data

- On-demand upload (5 minute buffer rolling window, upload on demand)

Is this example (going through a list, identifying collection categories, list sensors/data/keep long term in local/cloud) - is it for the purpose of operating or operating a single/fleet of systems? Is it 100s-1000s or for a different objective?

Would be good to have a clearer objective, and how do we contribute? Then community can help add to it. Will be crucial to get to benefit you're hoping for.

