

potential LTA problem	<u>impact / relevance</u> 1 - high (prevents successful mission) 2 - medium (has some influence, e.g. delays missions / reduces quality of results) 3 - low (no / minor influence on mission)	<u>difficulty to detect / solve</u> 1 - easy (simple solutions) 2 - medium (requires some effort, but doable in the scope of the work) 3 - hard (general problem)	<u>likelihood of occurrence</u> 1 - very likely (have experienced this in practice several times) 2 - occurs (e.g. have experienced this once / heard of it) 3 - highly unlikely (never seen / heard of it)
power management (battery failure / unexpected low battery)			
charging failure (unsuccessful docking / no charging)			
drastic weather change (e.g. storm, fog, extreme sunshine, heavy rain, extreme cold)			
certain dynamics (e.g. day / night)			
sensor (perception) failure			
perceptual aliasing issue			
data management (e.g. full memory, sensor data processing failure)			
lost connection (WiFi, RTK, UWB, LTE)			
obstacles blocking planned path (static / dynamic)			
robot gets stuck (e.g. spinning wheels)			
robot falls over			
navigation failure (move_base_flex / pdc)			
sustained recovery, i.e. no return to normal operation			
incorrect / inaccurate localization (GPS, IMU, odometry)			
mapping error (e.g. incorrect costmap entries)			
plan deployment failure, i.e. robot remains in idle state			