



AUTONOMY FOR ROBOTS

Navigation

Navigation Stack

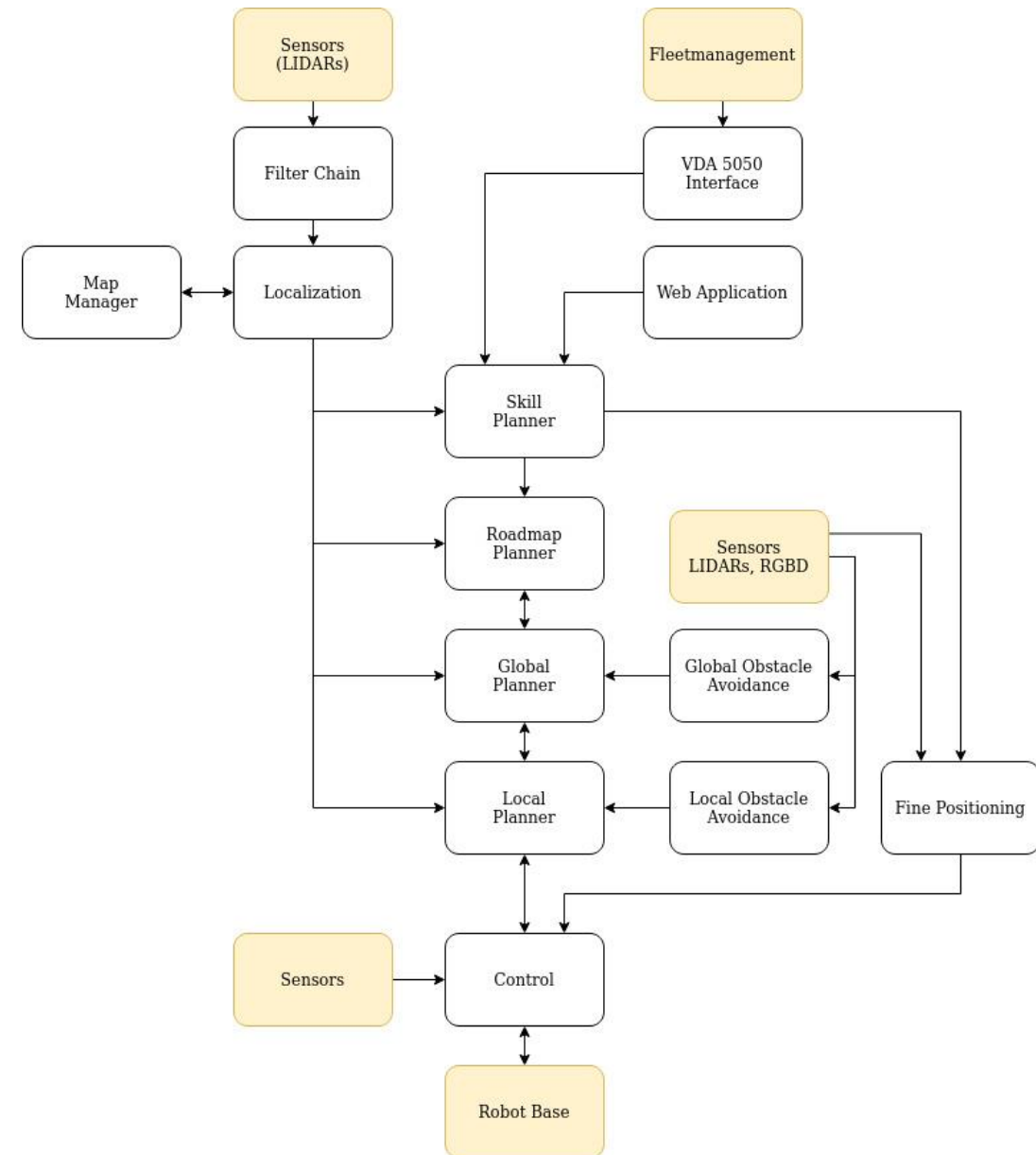
Overview of the Software Modules

Complete navigation stack is fully developed by ARTI

ARTI AI Kits

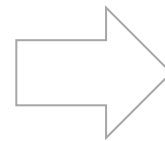
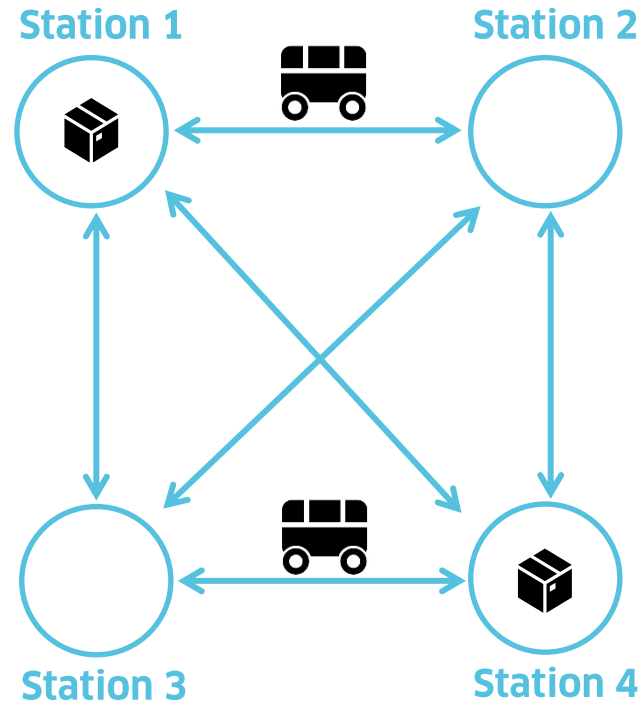
- Building blocks for a **wide variety** of robot applications.
- Unique **modular structure**
- **Flexible** application possibilities
- **Easily adaptable** to different type of robotic vehicles
- Integration is **simple** and time-saving
- **Beyond** state-of-the-art technologies

AI Kits for adding „intelligence“ to solutions

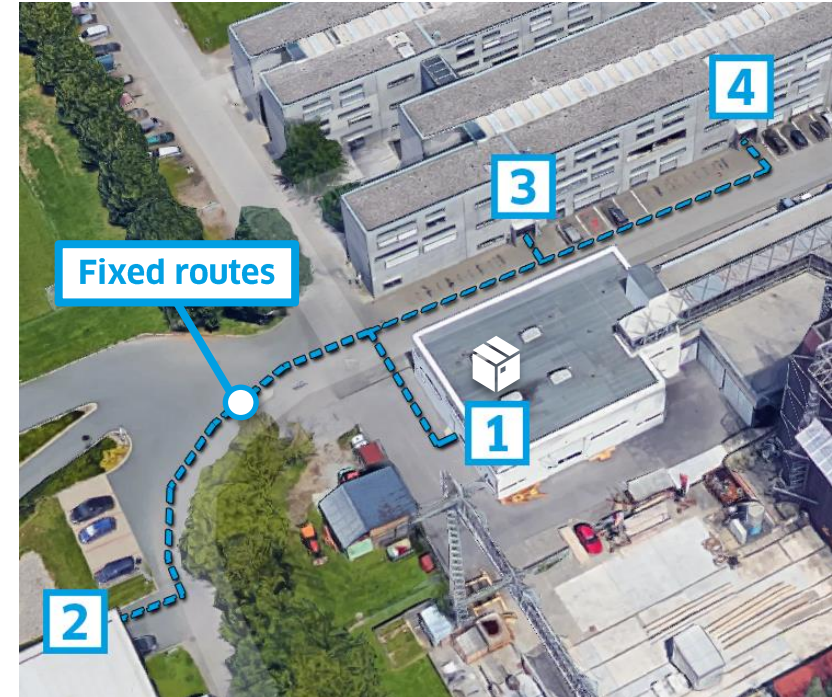


Roadmap Design

The design can be arbitrary depending on customer needs.
Robots handle transportation between multiple stations.



Actual network
on company site



Roadmap Design



Planning

Planning is covered on several stages. Enables reactions in time, complex decision and long-range plans.

(1) Skill Planner

- Task depending behaviors

(2) Roadmap Planner

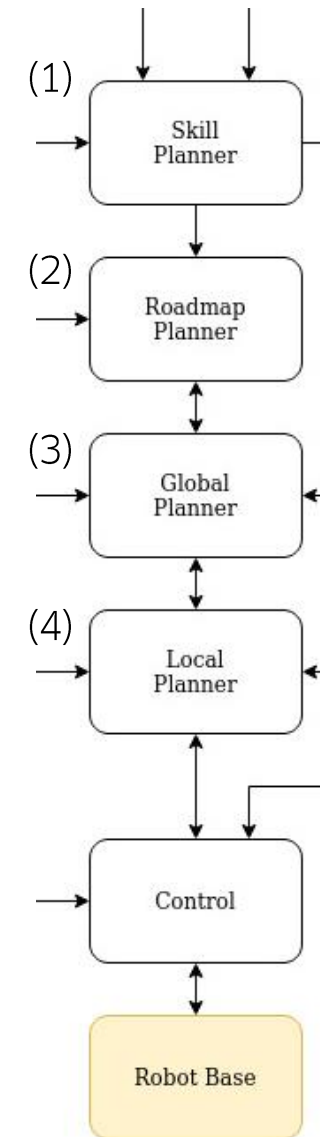
- Very fast execution
- Long-range and 3D planning

(3) Global / (4) Local Planner

- Slow/fast execution
- Mid and short-range 2D planning

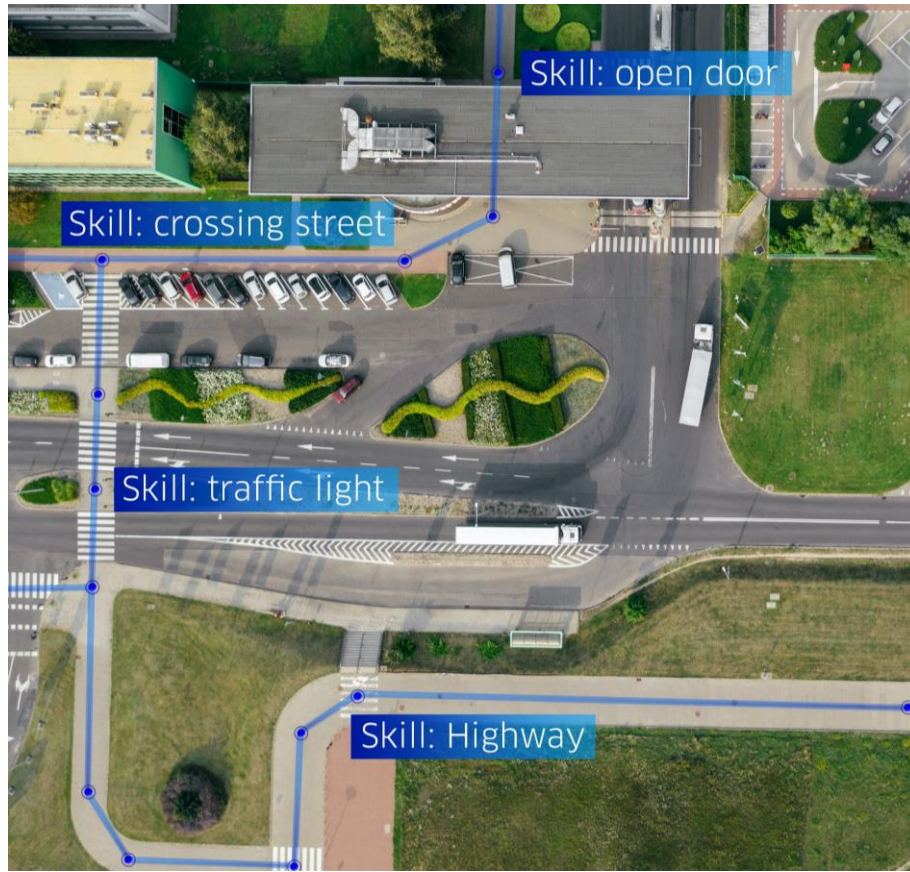
Control/Path tracking

- Very fast execution

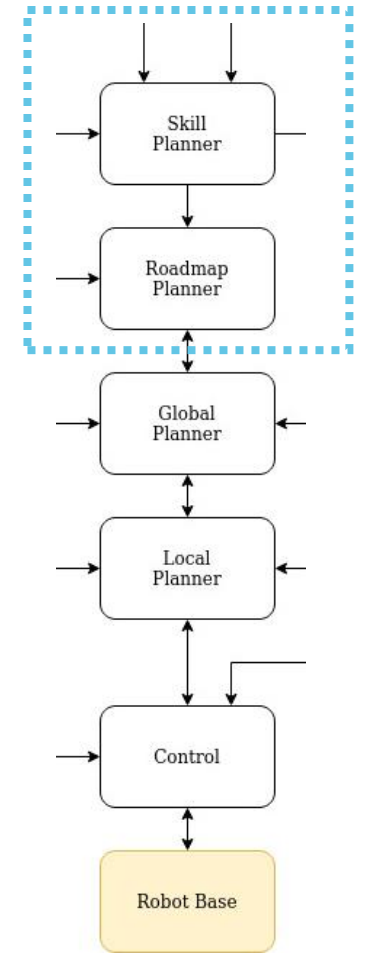
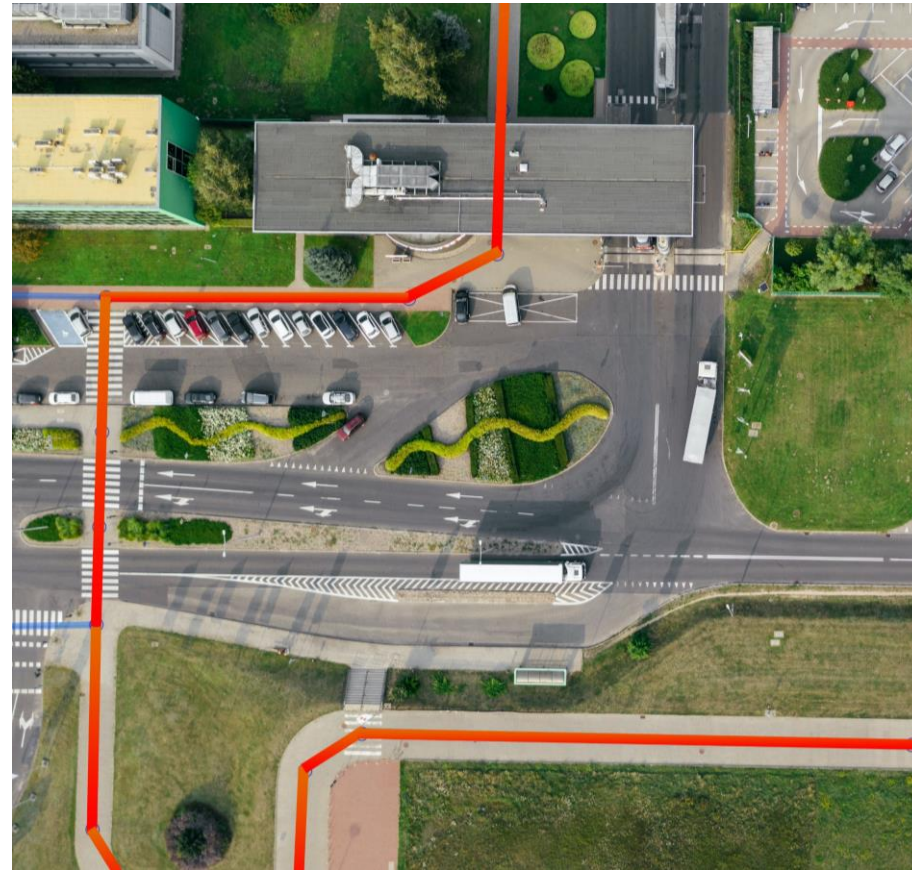


Planning

(1) Skill Planner

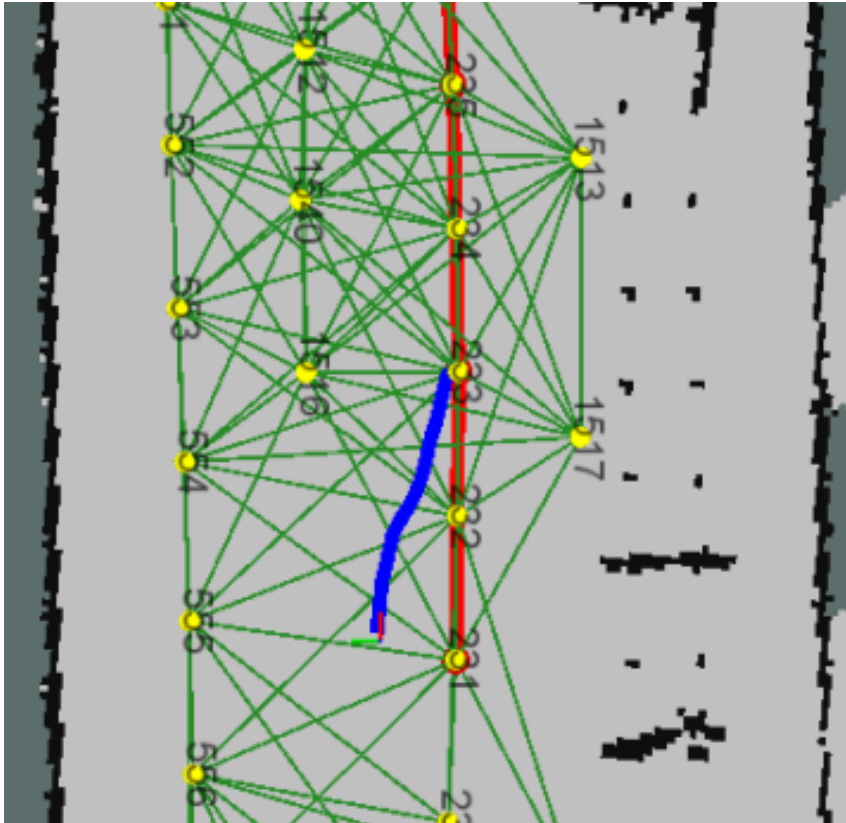


(2) Roadmap Planner

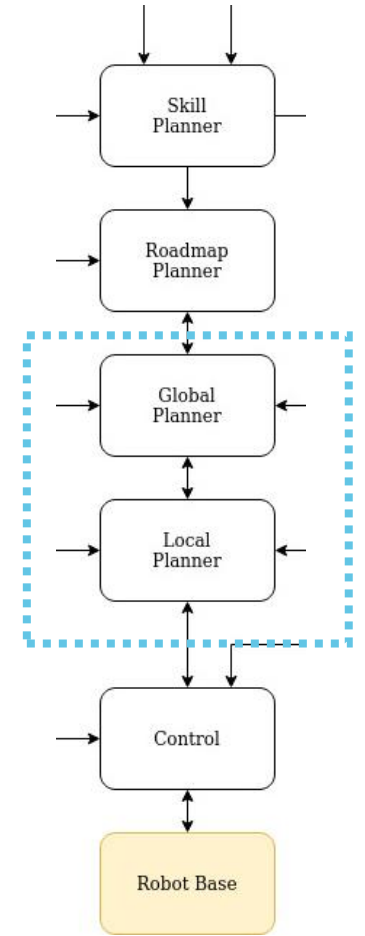
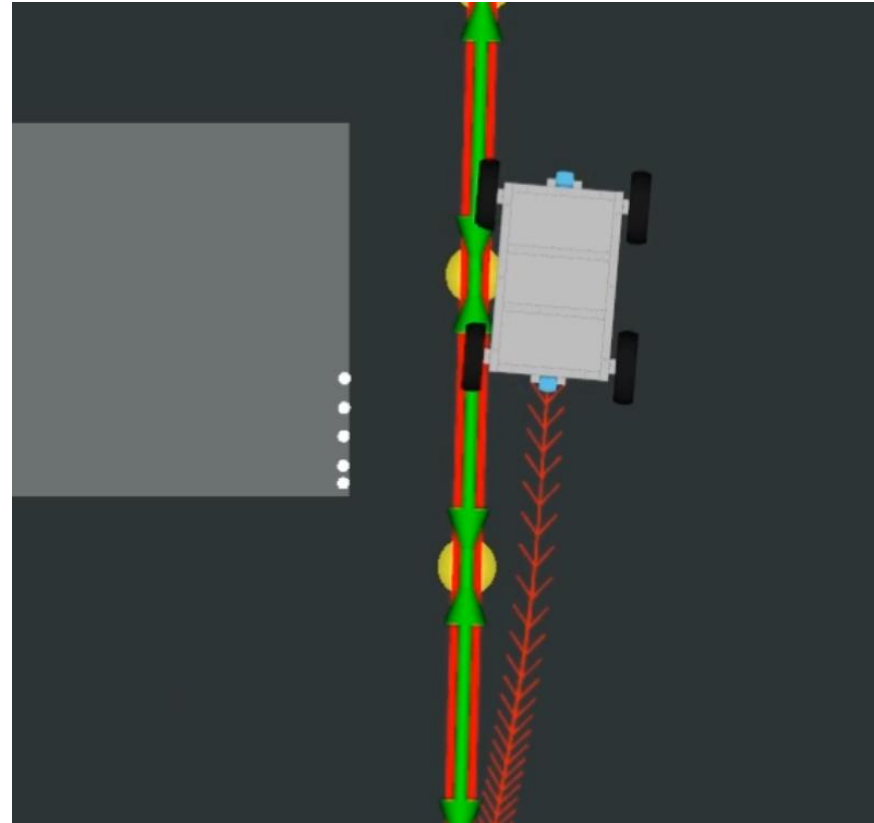


Planning

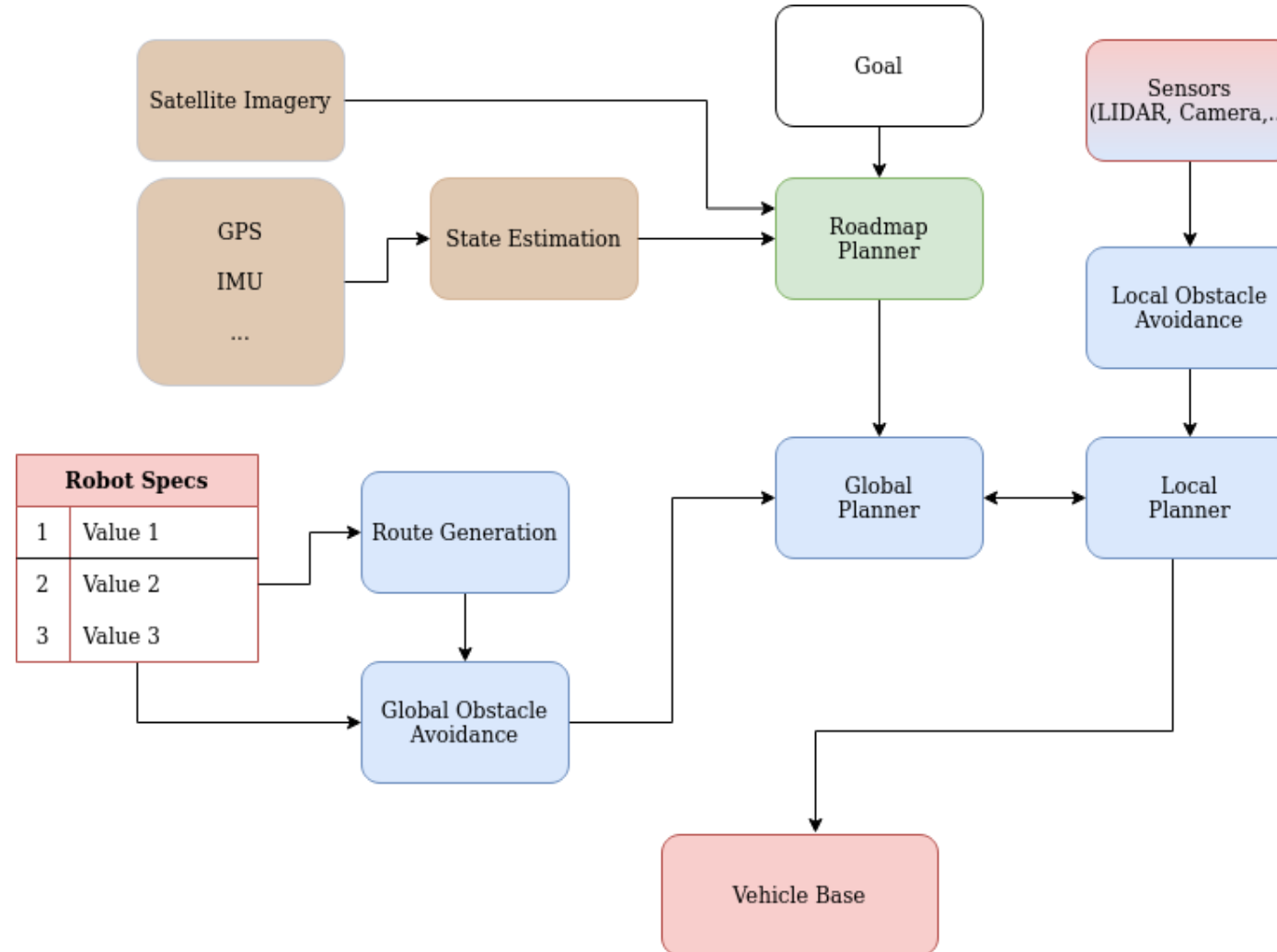
(3) Global Planner



(4) Local Planner

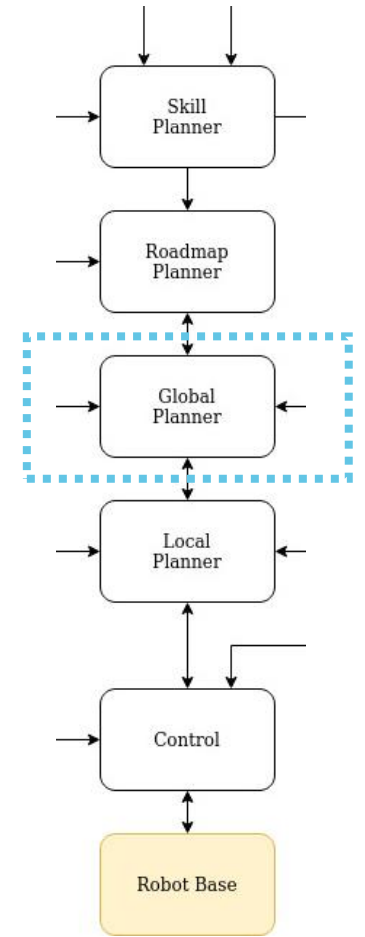
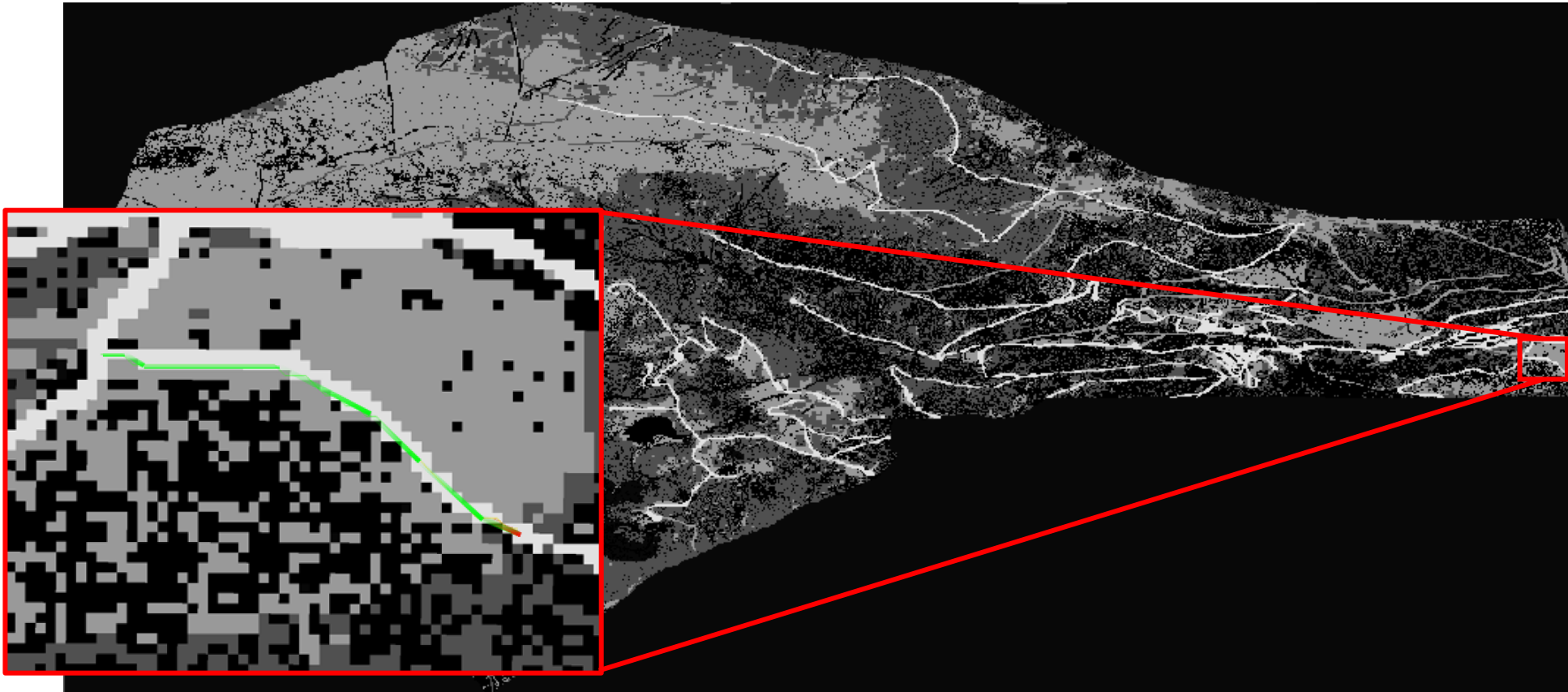


Satellite Imagery Planning



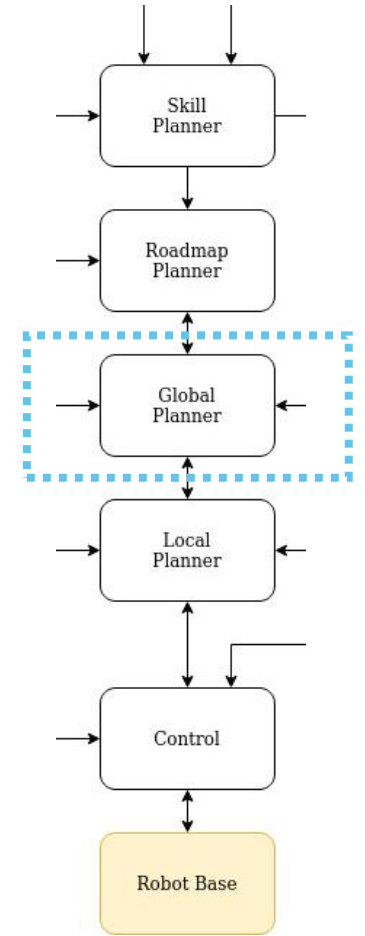
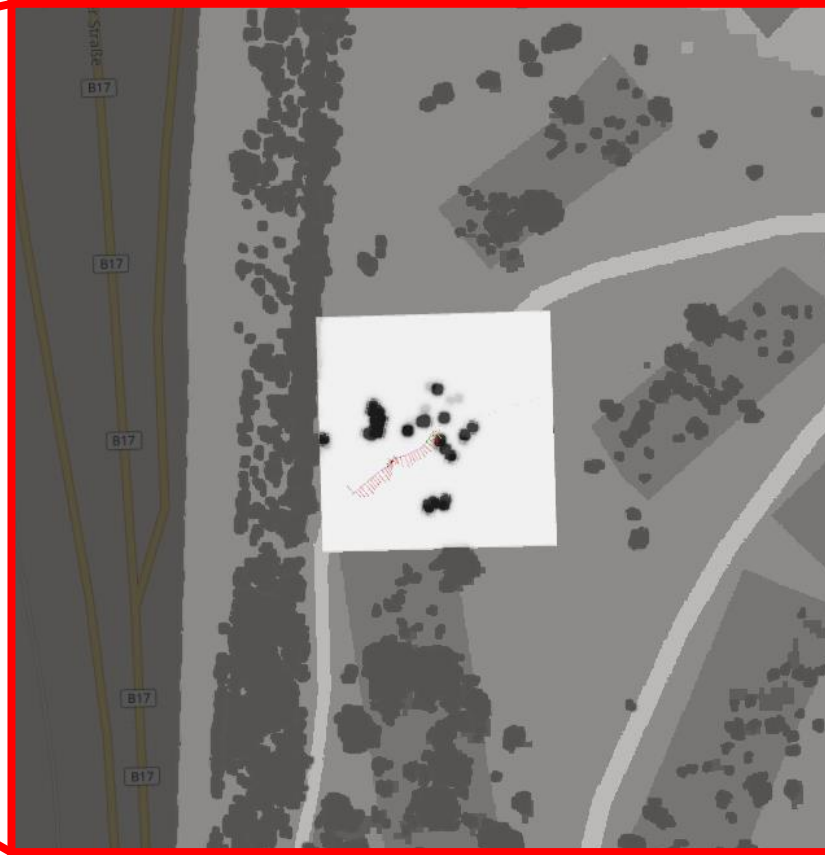
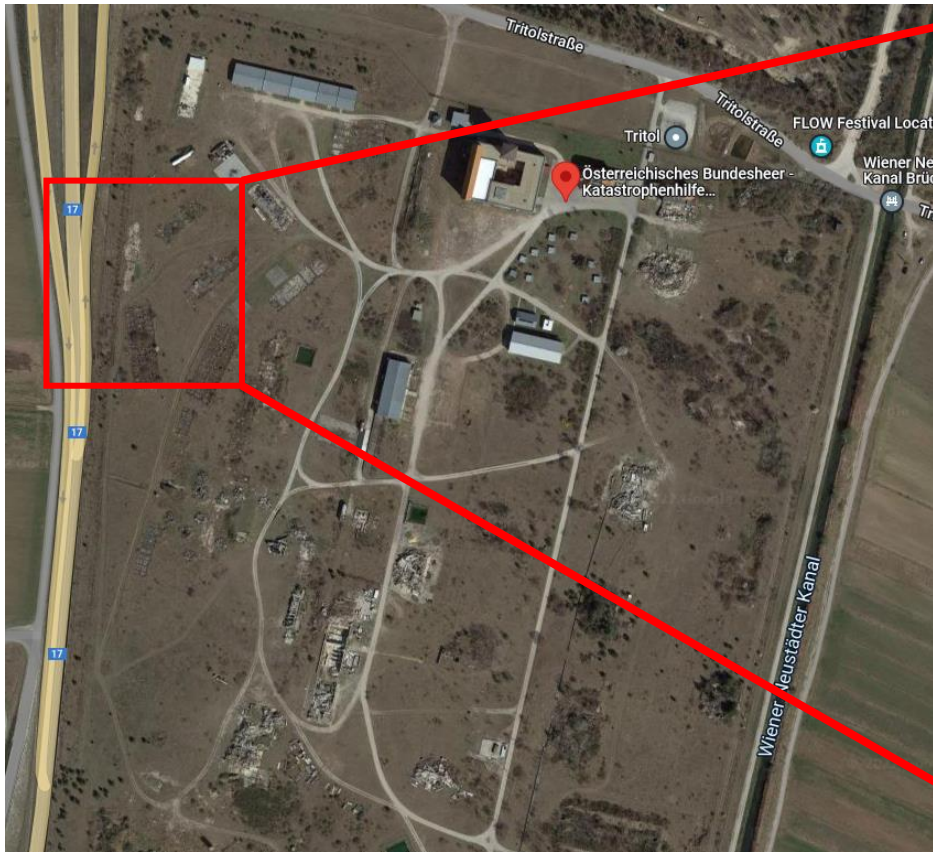
Satellite Imagery Planning

(3) Global Planner



Planning

(3) Global Planner



Get in Touch

A simple conversation can answer a lot of questions.
So don't hesitate to get in touch!

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