The multi robot transport project will be using decentralized control in the form of swarm behavior. In the project loading and unloading of the robots will be researched with the possibility of transferring parts between the robots. This can be used to optimize the flow of the products through the process.

The swarm will be a non-homogeneous set of robots, for example a reconnaissance robot equipped with a LIDAR or a robot specialized for transporting large parts and a robot specialized for transporting small parts.

For all the implementations safety will be researched using a risk identification and risk analysis.

The project will attempt to produce the following deliverables:

* Risk identification
* Risk assessment
* Risk reduction methodology
* Robot design
* Robot control system
* Description of robot logic
* Product loader
* Robot to robot transfer
* Simulation