# Meeting Agenda

**Show and discuss problem formulation**

key point is quality assessment, the following steps are followed:

1. Map to 2D

Perspective of applications for robotics and industry. Active perception? Automate cmm measurements. Accuracy of scan. Machining.

Remember to get the full story in the report and problem formulation. Get the why not just the what.

Primary goal is reduce speed of 2D mapping.

Also increase robustness and accuracy.

**Questions**

**What is the problem with using 3D density and adjusting the radius according to curvature?**

This is actually possible and could be explored

**Why can’t we just use the surface fit to estimate or project 2D mapping without creating a mesh?**

It could be possible, but due to the complex nature of the surface fit functions, it might be even more time consuming than creating a mesh.

**What equipment, data and software do we get access to, and is there anything we should already start reading and practicing?**

We have the high accuracy camera in robotics lab

He will send manual for the camera

Cloud compare: <https://www.danielgm.net/cc/>

open3d library for python

Get datasets: go to his github, then go to dataset, 3 public datasets