**Maps**:

Usual maps and the HD maps are different

Maps have meter level precision where as HDMaps have cm level precision

Maps just define the path and geographic view through GPS but HDMaps provide 3D view of the geography like show where traffic lights, signs, road, parkings are present with high precision

Localisation, Perception, & Planning are all achieved through HDMaps with use of data from different sensors and using highly complex processing

**Maps Production:**

Data sourcing -> Data Processing -> Object detection -> Manual Verification -> Map Products

From sensors Point cloud & localization Lane curb, signals/ sign HD/Point map

A huge amount of data is collected over time from many sources like sensors, multiple survey vehicles, crowd sourcing and then used to create an HDMap/