# AdEngine Status Update

Status update scheduled for 15th January 2020

## Summary

The main focus of the work done has been Module 1.1 `DTH Piggybanking H/W`. For the POC we are using an `HDMI to CSI-2 bridge` and piggybanking on Camera-In of a Raspberry Pi. The output is built with pass-through video + overlay which is editable HTML.

## Progress

- Raspberry Pi for `on-premise` device, basic setup.
- HTML Overlay with control (Tested using connected Keyboard)
- Video pass-through using PiCamera 2

## Immediate Tasks

- MQTT Broker setup for local communications
- On boot autostart AdEngine Module
- Using `CSI-2 Bridge` instead of Pi Camera for pass-through video
- DTH Video with time-script as input

## Problems/Risks

- Order delivery is taking longer than expected. We should have 2 X `HDMI to CSI-2 bridge` by 25th January 2020
- Without Hardware accelerators, we would see performance issues on video feeds greater than 720p 30fps.

## Hardware Budget

- Raspberry Pi 4 x 2 : 11500/-
- Raspberry Pi Camera Module x 1 : 2500/-
- HDMI to CSI Bridge x 2 + Delivery : 80$ = 5700/-

## More details

Details of approach for `on-premise` module can be found here: Week A: HDMI-In-Module

Online copy of this document is available at: https://karx.github.io/AdEngine/status-1