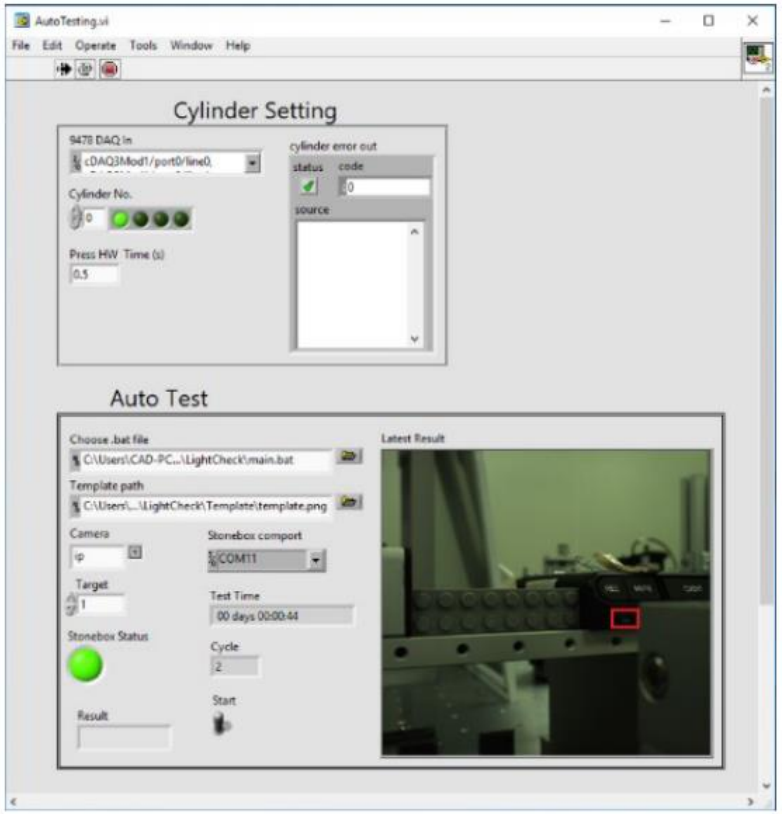
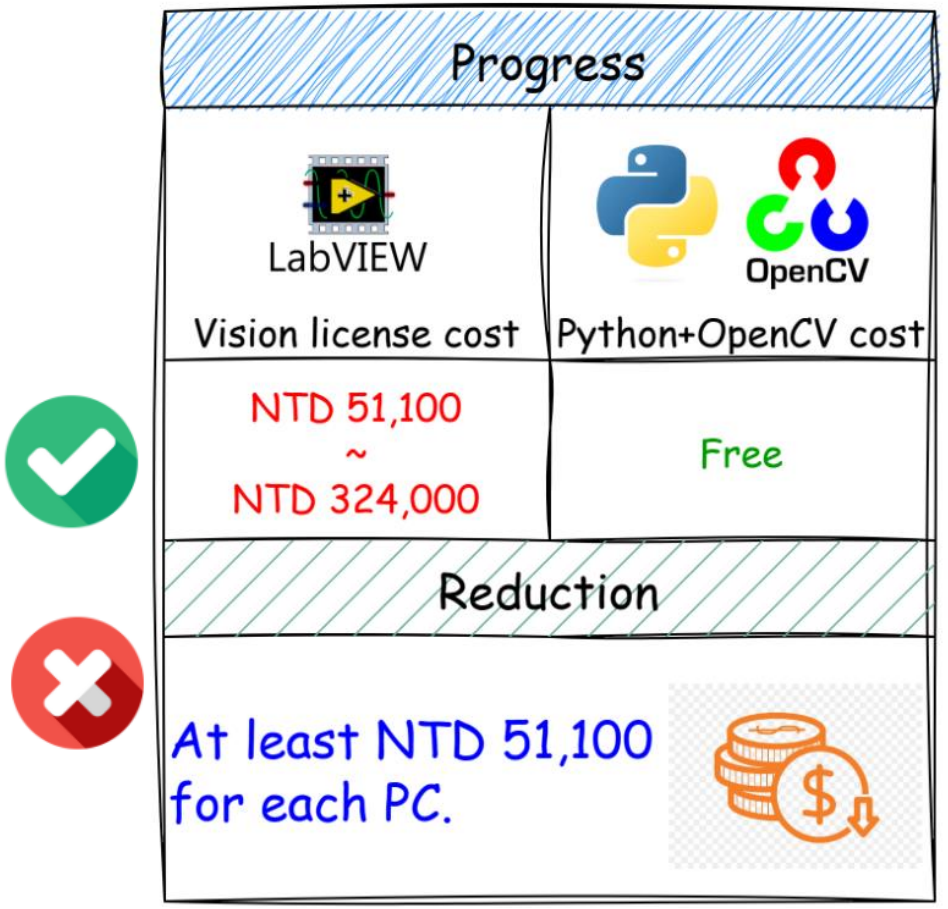
Automation Stress Testing

For accurate and repetitive motion quality test on devices.

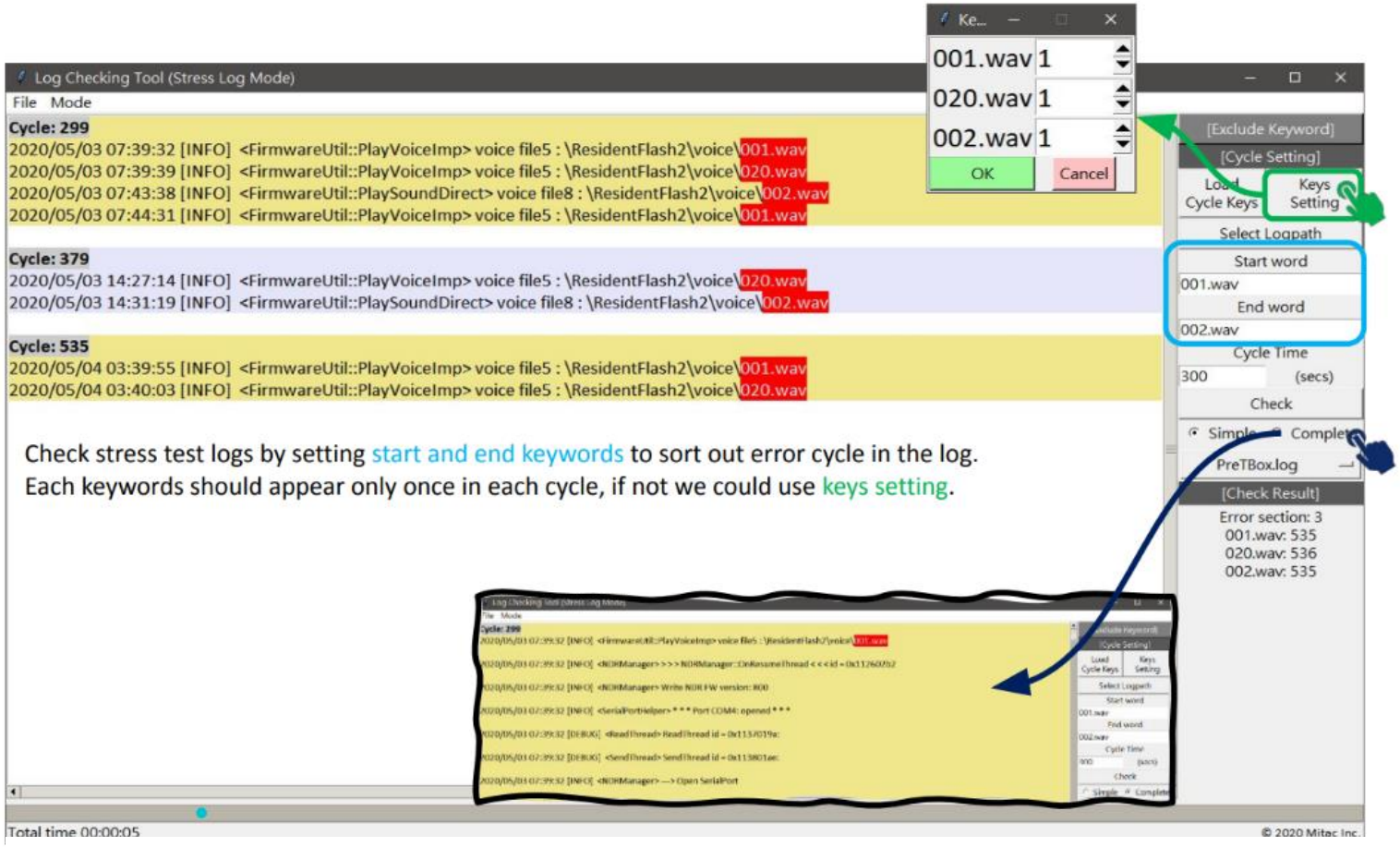


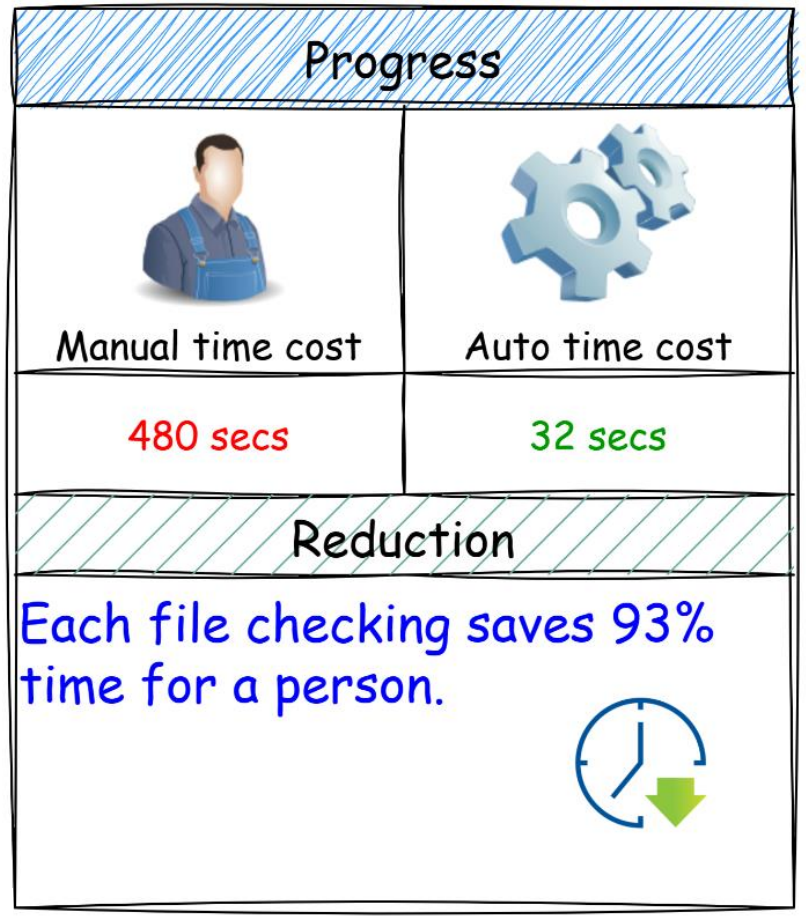


Deployed to each laptop, resulting in an average total cost reduction of nearly NT$ 937,750 for the DQE.

Keyword Auto-Searching Tool (Standalone Ver.)

Analysis and periodic report notification system for large log files.





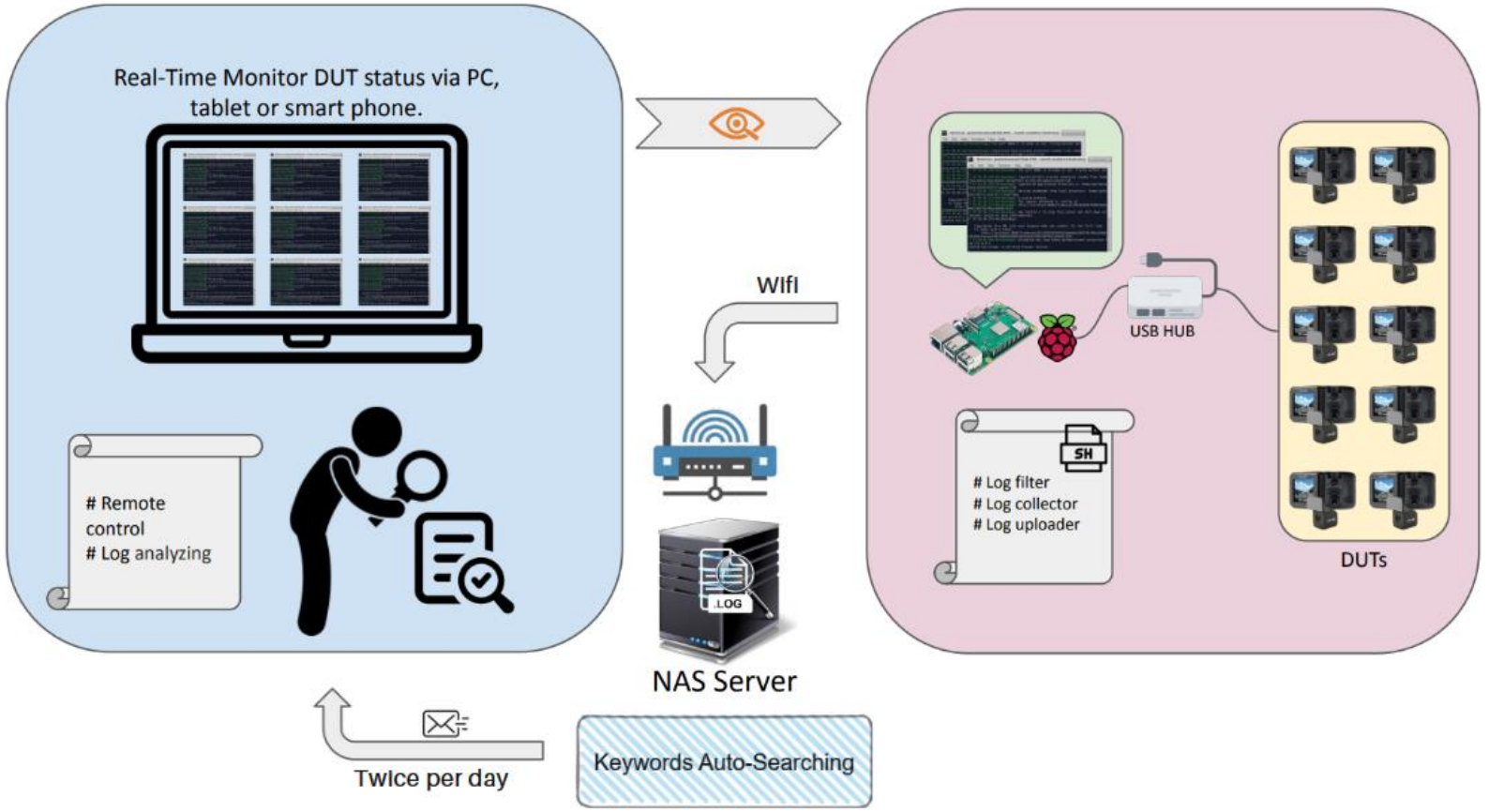
The development outcome of the project corresponds to a minimum reduction of

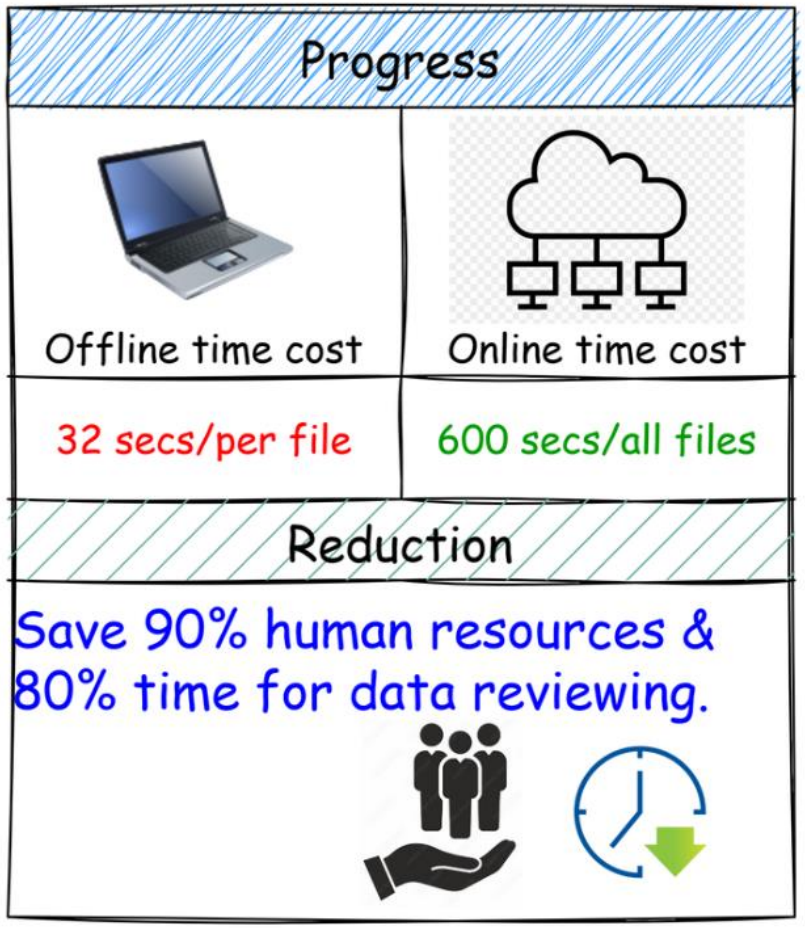
NT$ 2,330/month in total costs per person.

For 2 projects reduce 5person*2330/month. Total NT$ 11,650

Keyword Auto-Searching System (Online Ver.)

Analysis and periodic report notification system for large log files.



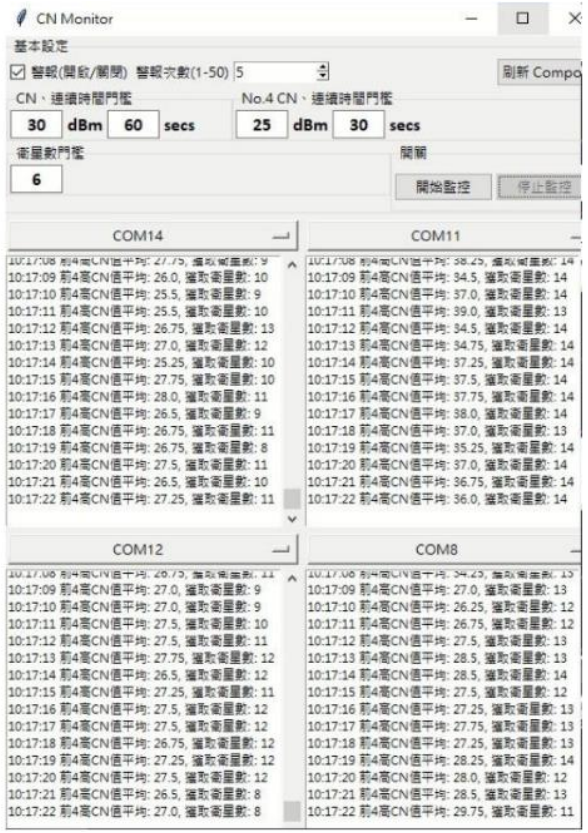


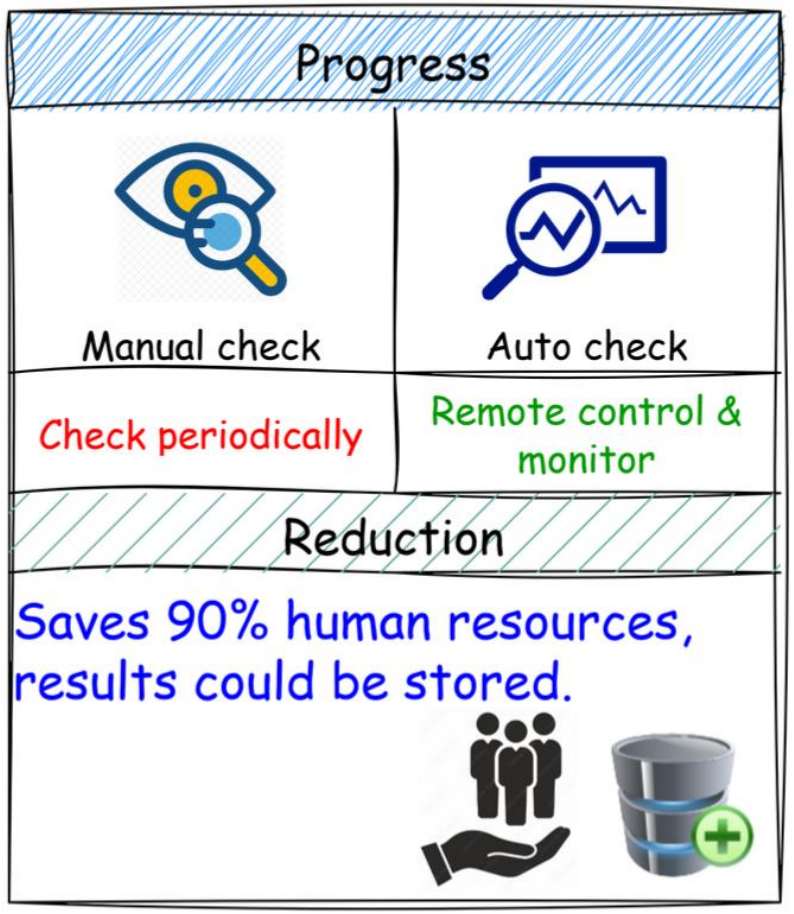
The development outcome of the project corresponds to a minimum reduction of NT$ 43,680/month in total costs per person.

＊ Assuming NTD 50,000/month per person.

GPS Signal Monitor

- Signal values are saved for root cause analysis.
- Alarm system for LINE or Telegram



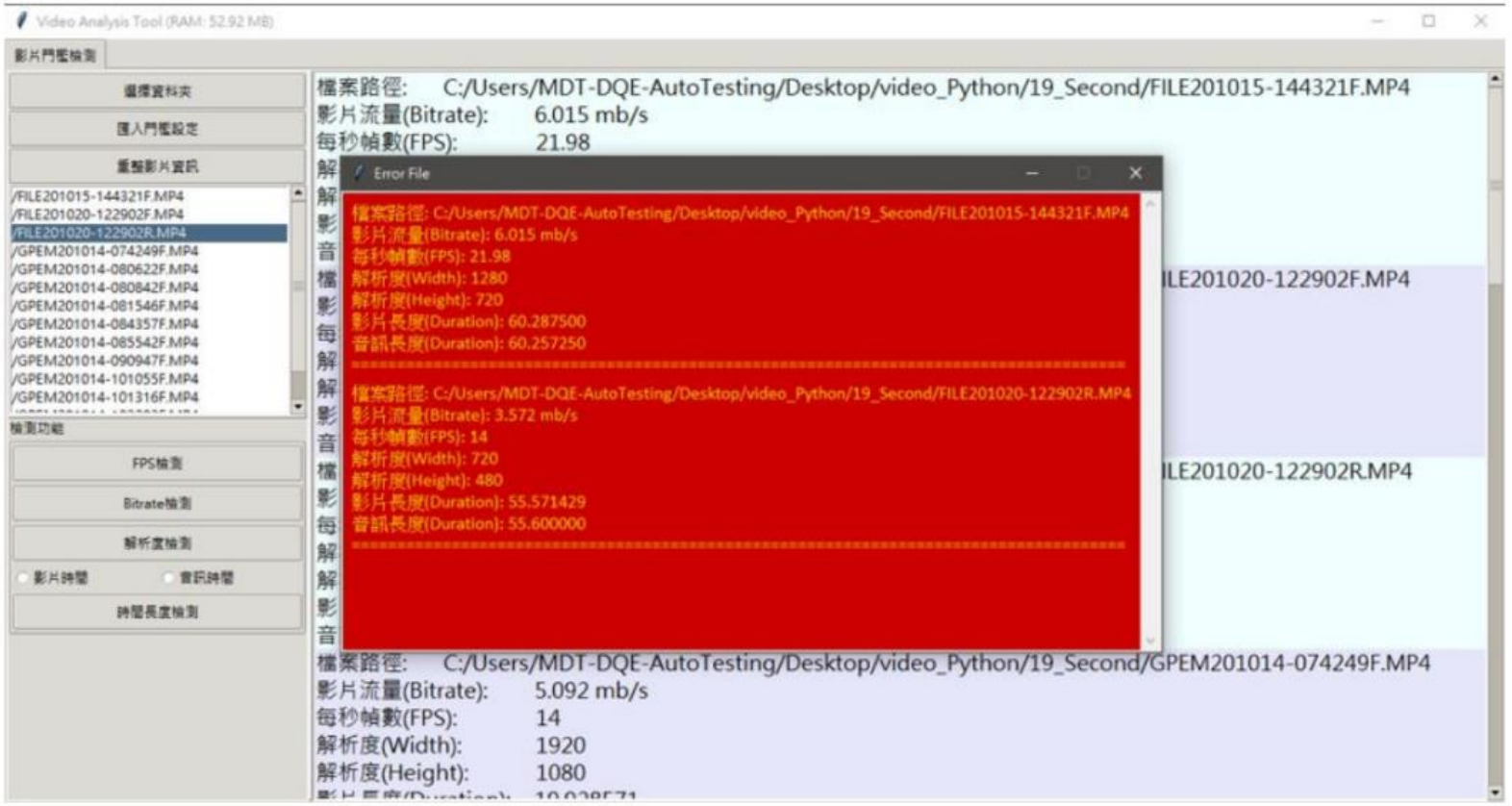


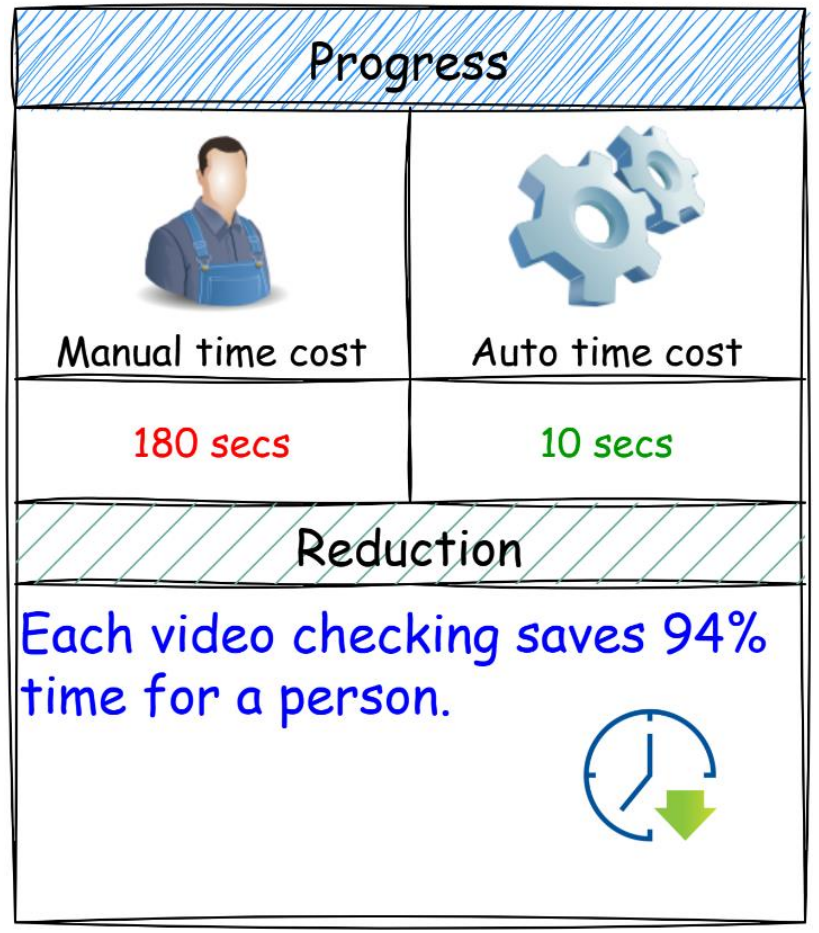
The development outcome of the project corresponds to a minimum reduction of NT$ 520/month in total costs per person.

＊ Assuming NTD 50,000/month per person.

Video Files Analysis Tool

A video files analyzer
FPS, video duration, resolution, bitrate, crash file, and abnormal file detection



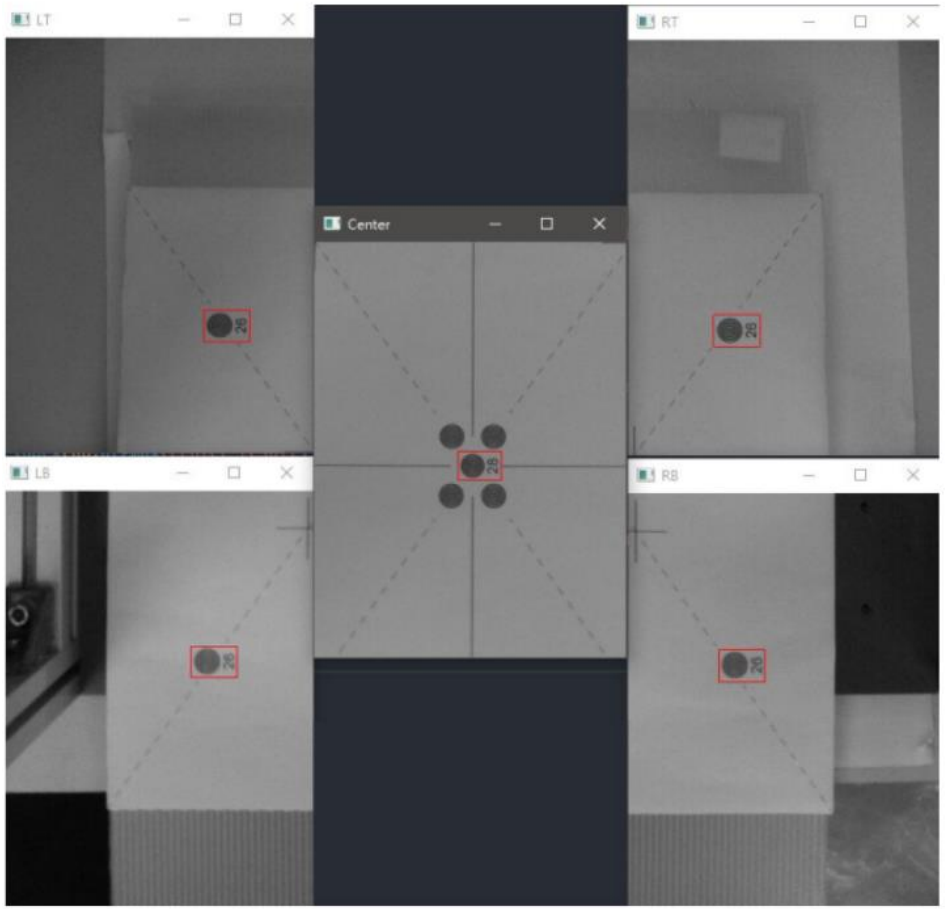


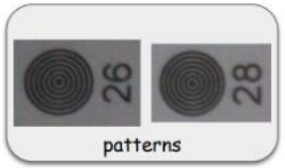
The development outcome of the project corresponds to a minimum reduction of NT$ 5,893/month in total costs per person.

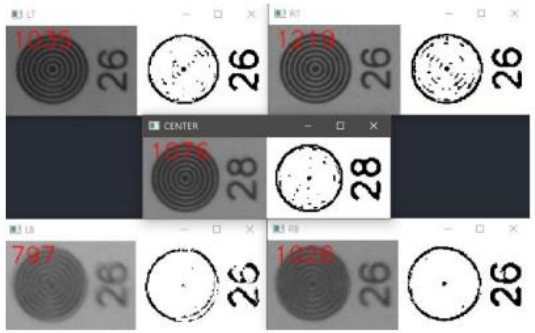
＊ Assuming NTD 50,000/month per person.

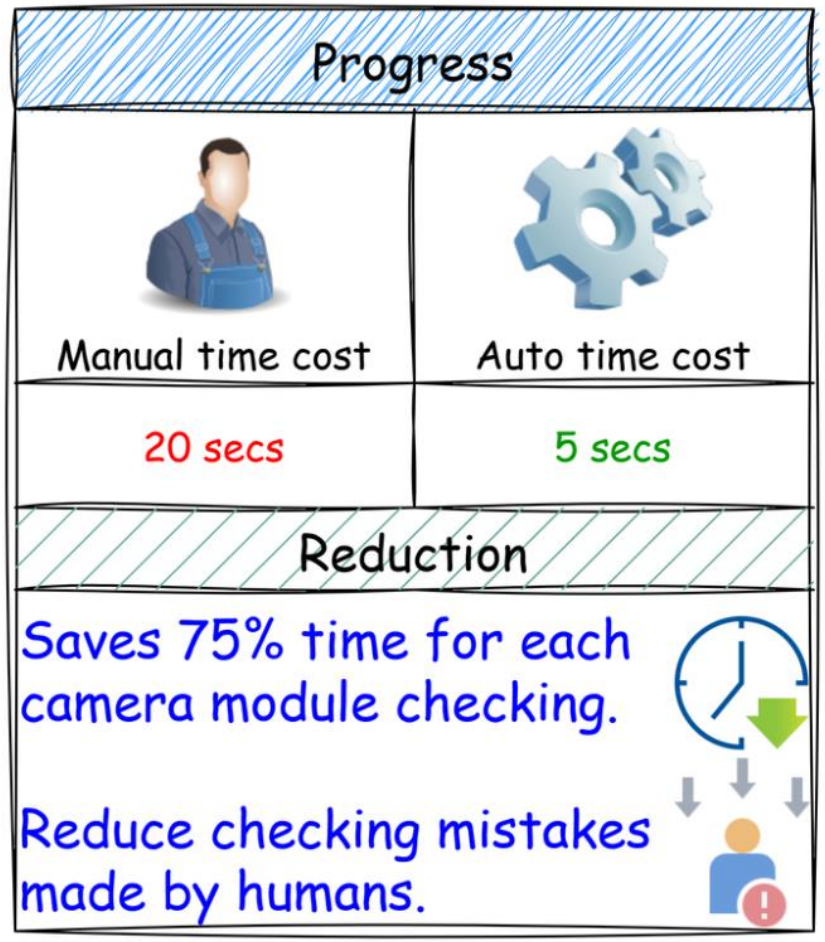
Camera Module Defocus Filter Tool

This tool could double-check whether the final product defocuses or not.









The development outcome of the project corresponds to a minimum reduction of NT$ 2,750/month in total costs per person.

＊ Assuming NTD 26,400/month per person, UPH(unit per hour) 50.

Capture Frame (event video) Tool

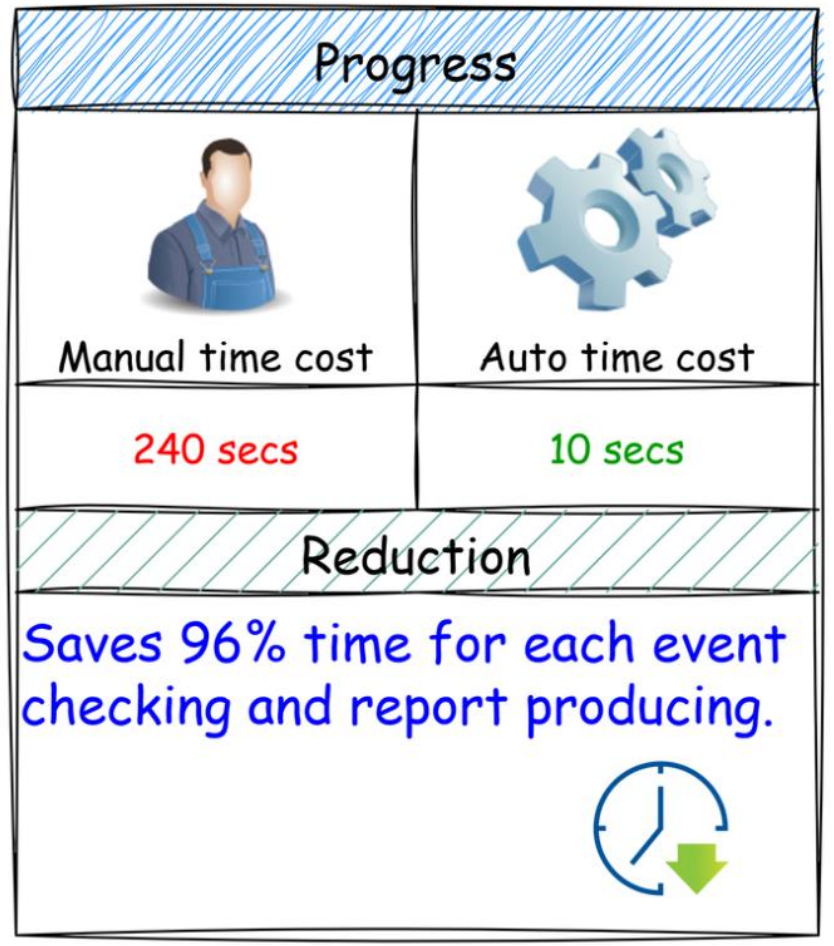
Quick getting event frames from videos based on logs.

Script

Time	Event	Speed	Distance	TTC
06-13 20:56:13.368	ADAS_LANE_DEPARTURE	68	14.639970	591.057251
06-13 20:56:33.603	DMS_INATTENTIVE			
06-13 20:58:51.316	ADAS_FRONT_COLLISION	78	18.483538	655.086365
06-13 21:01:30.129	ADAS_LANE_DEPARTURE			
06-13 21:04:40.739	ADAS_FRONT_COLLISION	49	12.926807	523.724609
...	...	...	...	...

▼DMS_MOBILE_PHONE_USAGE_000136_EMER220613-211314C_I_06-13-211314.514.jpg

▼ADAS_FRONT_COLLISION_000138_EMER220614-080659C_F_06-14-080659.621.jpg

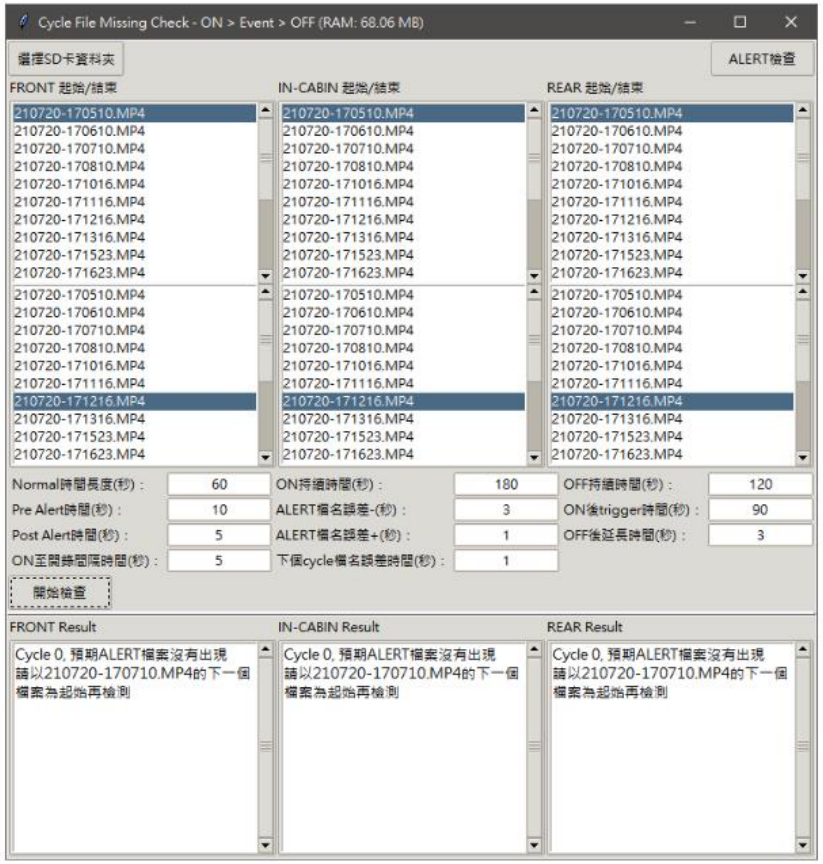


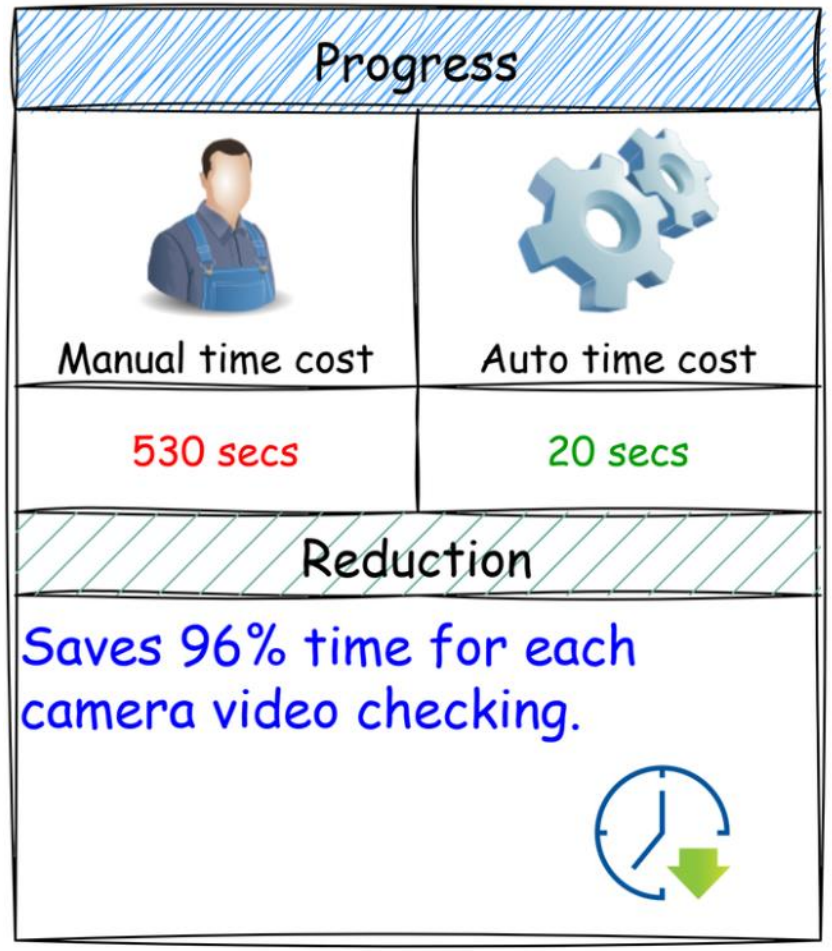
The development outcome of the project corresponds to a minimum reduction of NT$ 11,960/month in total costs per person.

* Assuming NTD 50,000/month per person.

Stress Log Checking Tool

Quick searching and checking massive logs, videos, and sequences based on different stress testing pattern.



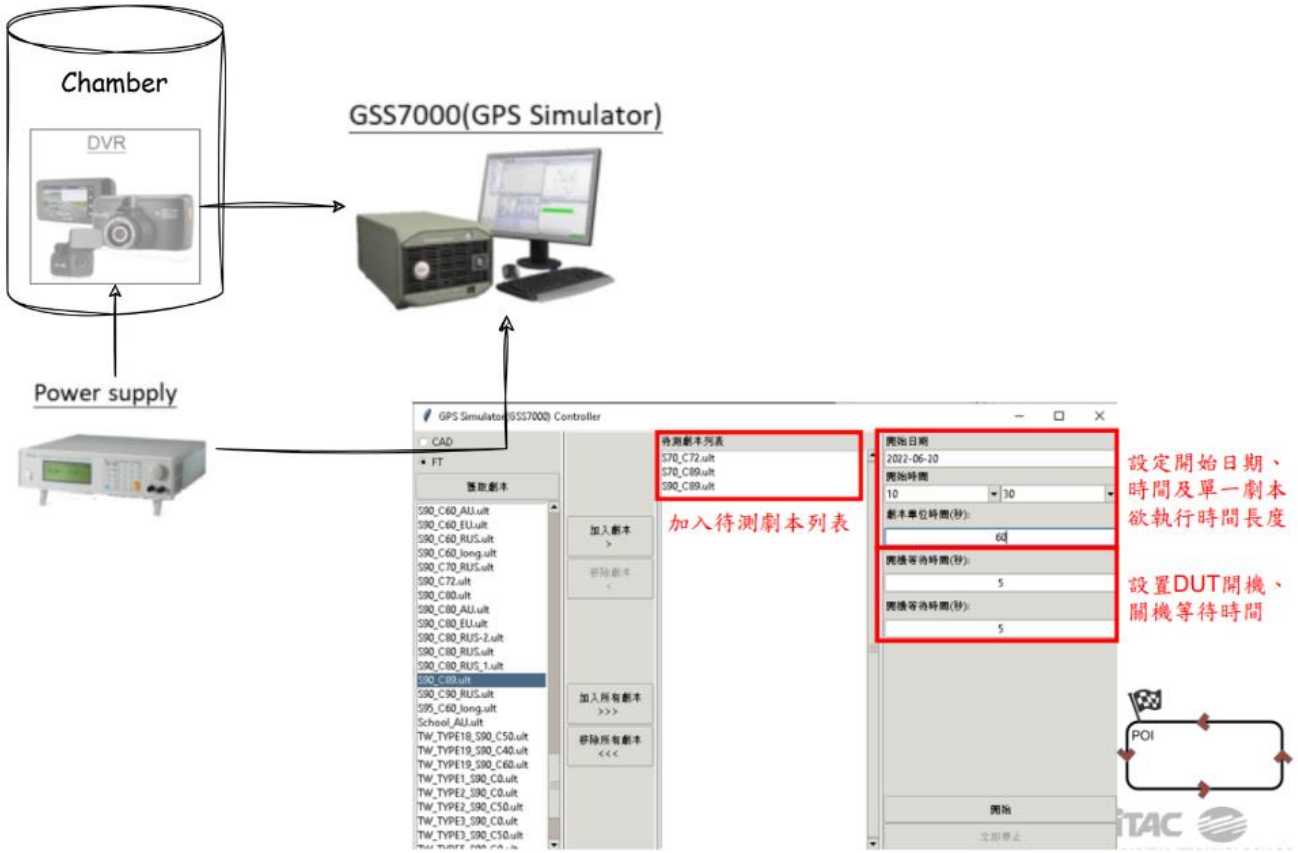


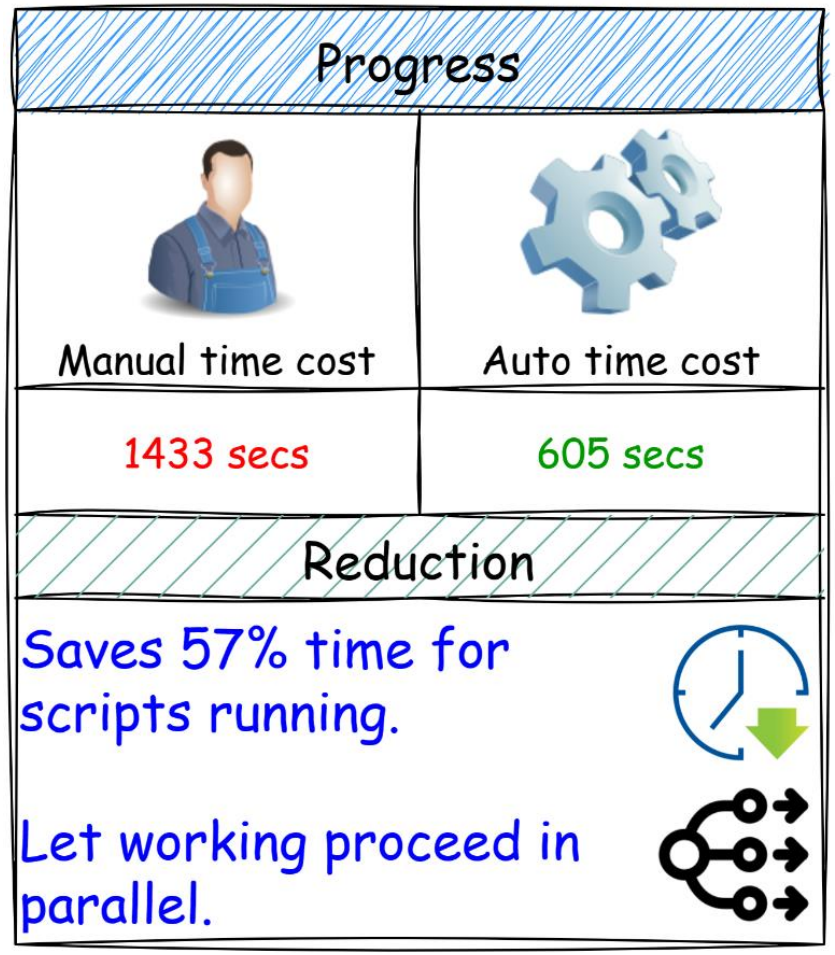
The development outcome of the project corresponds to a minimum reduction of NT$ 1,061/month in total costs per person.

＊ Assuming NTD 50,000/month per person.

GPS Simulator Script Control Tool

Detection and checking for multiple safety camera, speed limit icon.
(Project + SKU)



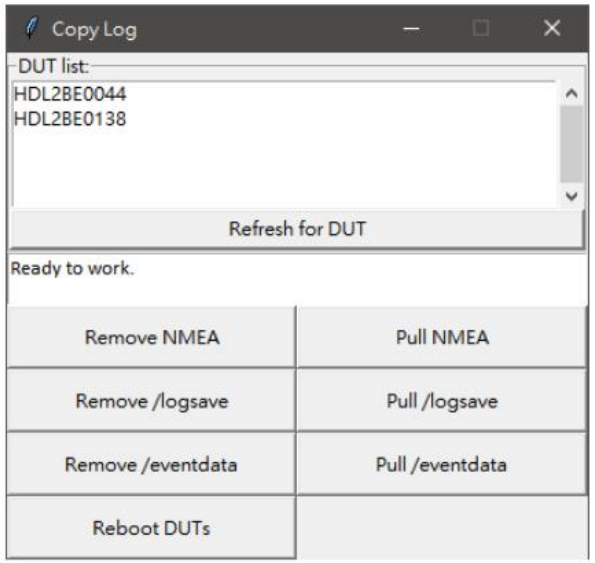


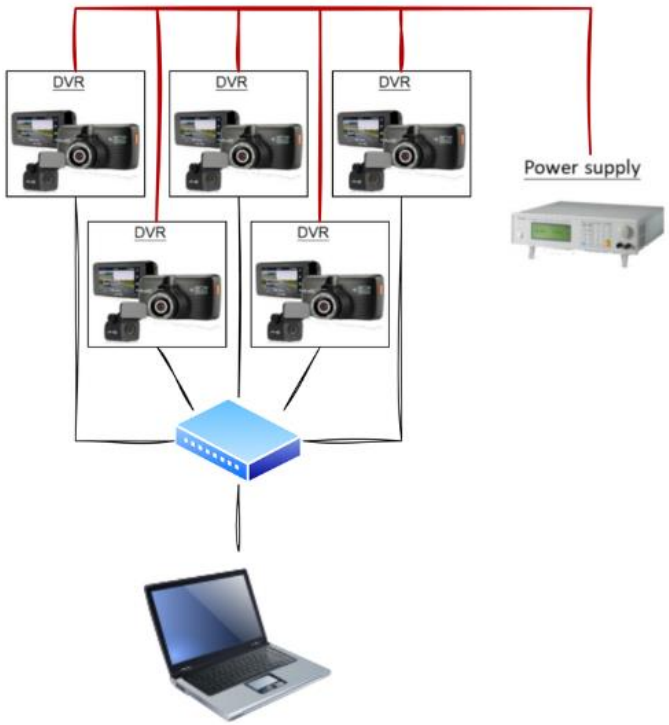
The development outcome of the project corresponds to a minimum reduction of NT$ 124,200/month in total costs per person.

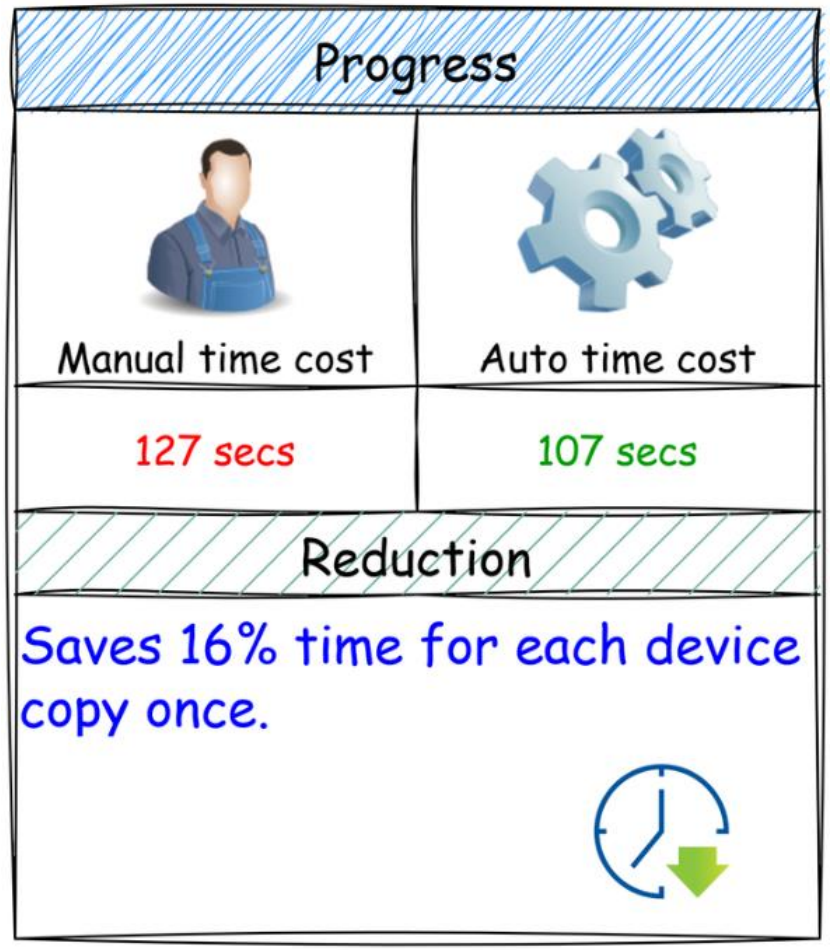
＊ Assuming NTD 50,000/month per person.

Copy Log Tool

Auto pulling and cleaning log data for multiple devices.
(Windows & Linux version)





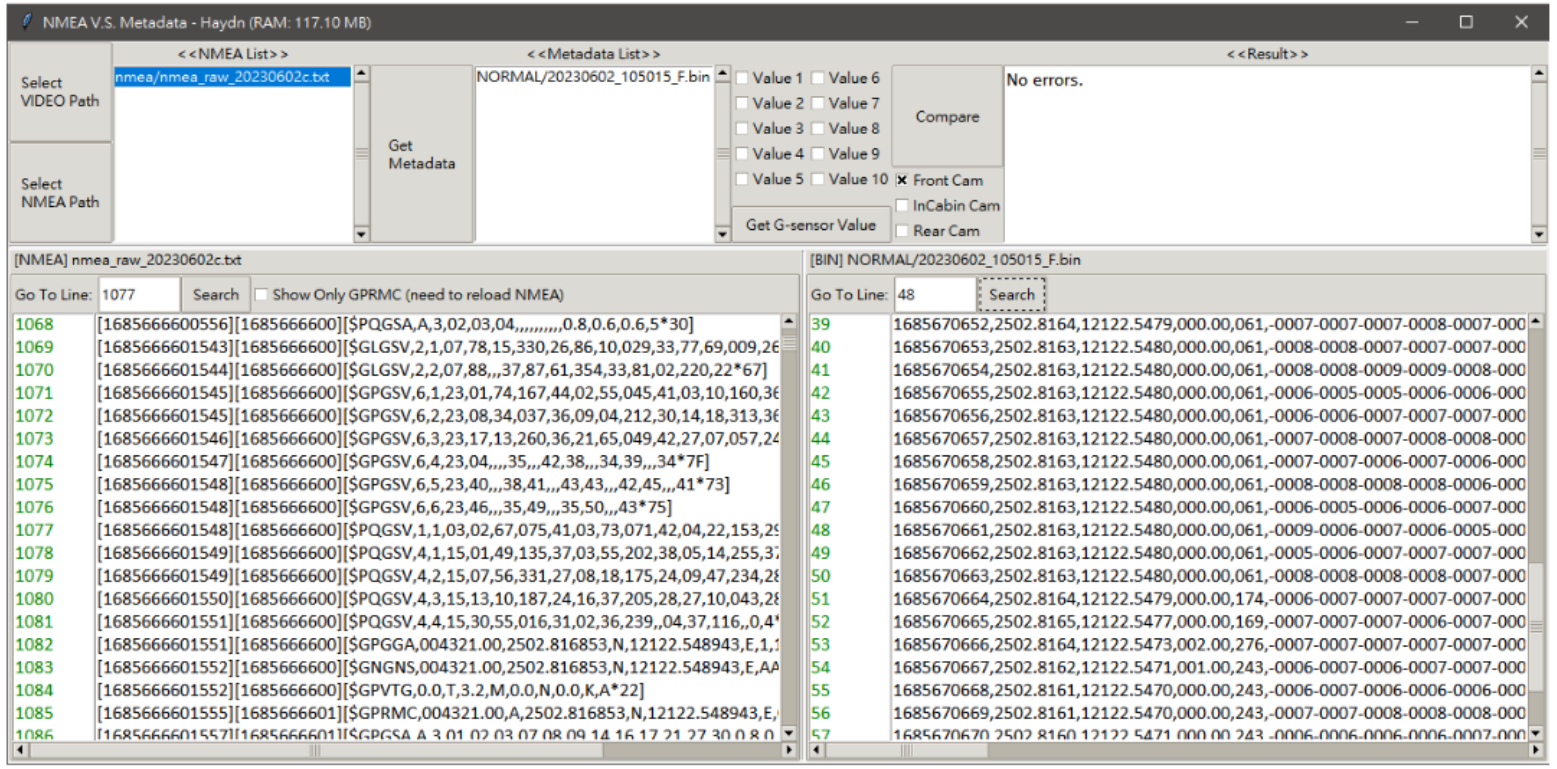


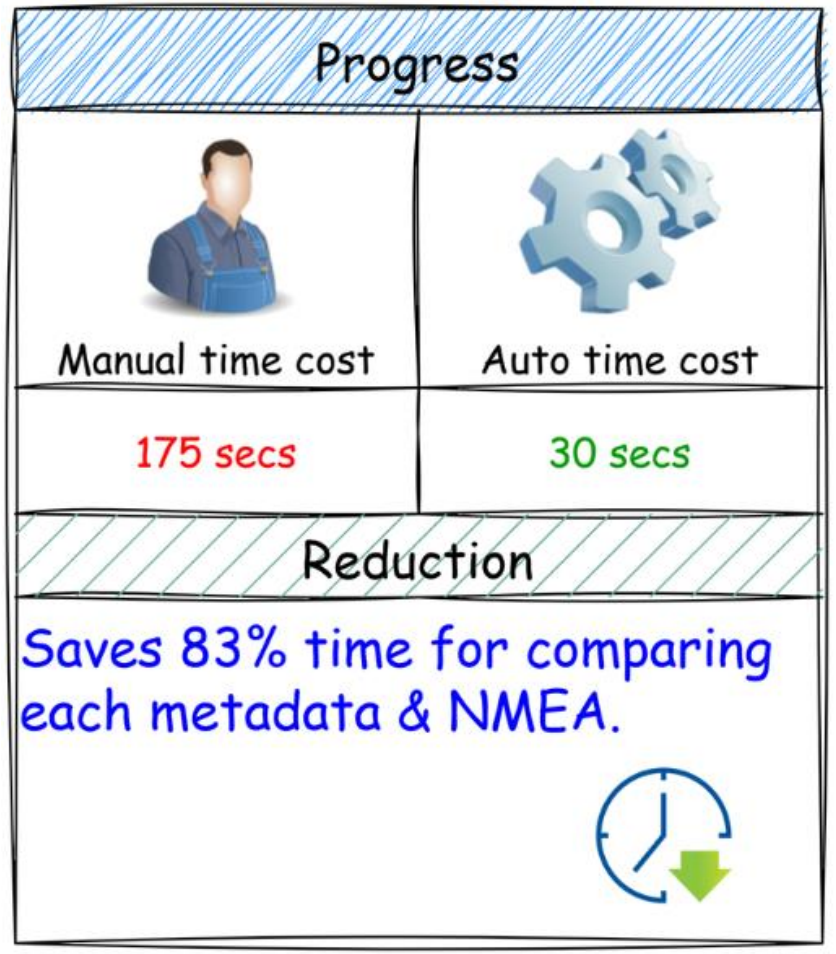
The development outcome of the project corresponds to a minimum reduction of NT$ 173/month in total costs per person.

＊ Assuming NTD 50,000/month per person.

Metadata & NMEA Compare Tool

Extract metadata from videos and compare data with NMEA log content.

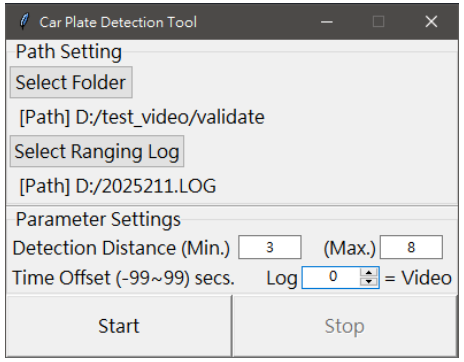


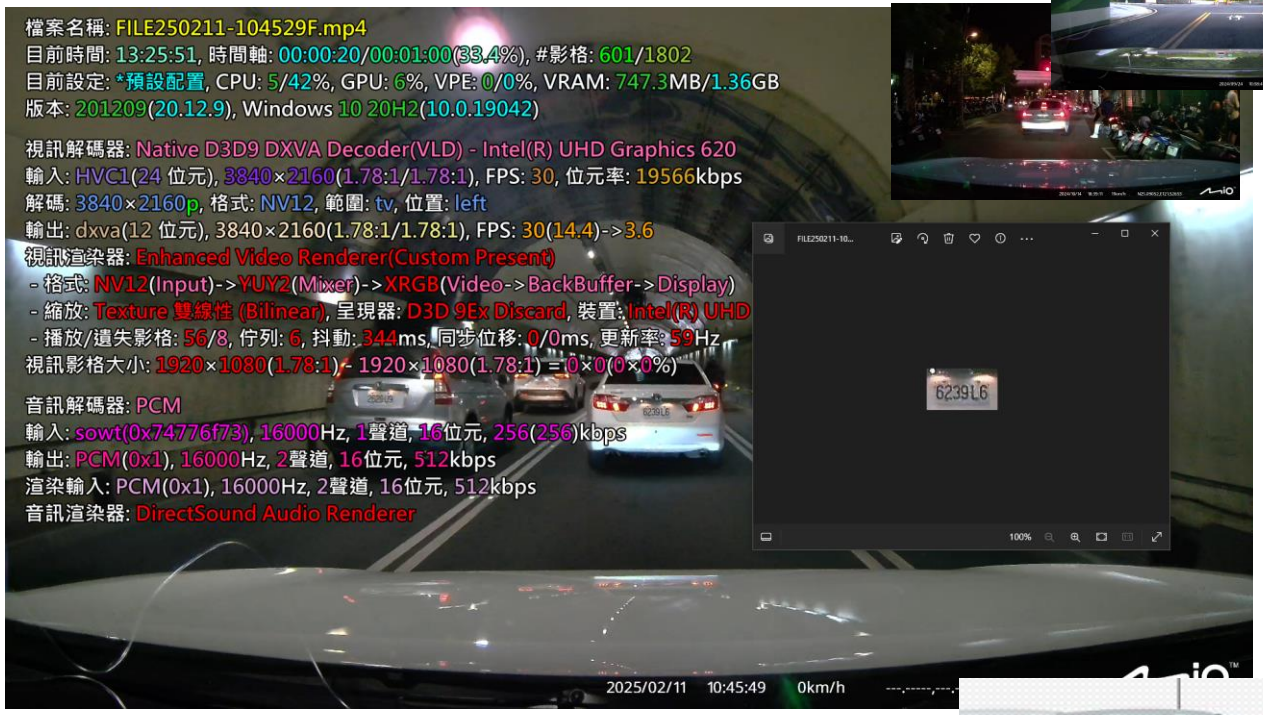


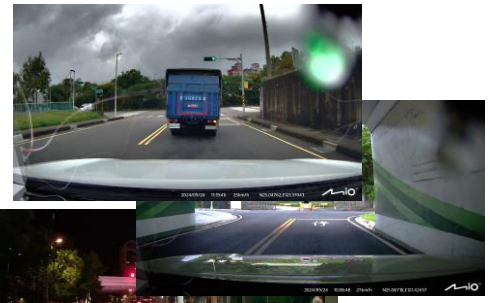
The development outcome of the project corresponds to a minimum reduction of NT$ 78,000/month in total costs per person.

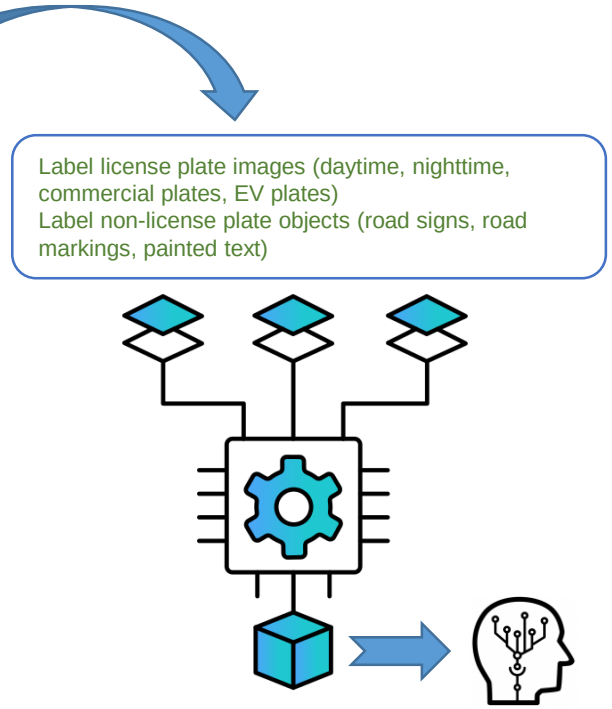
＊ Assuming NTD 50,000/month per person.

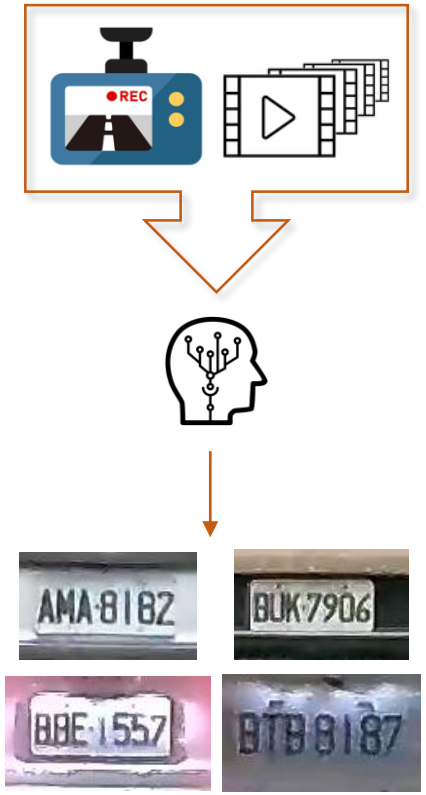
License plate clarity recognition system

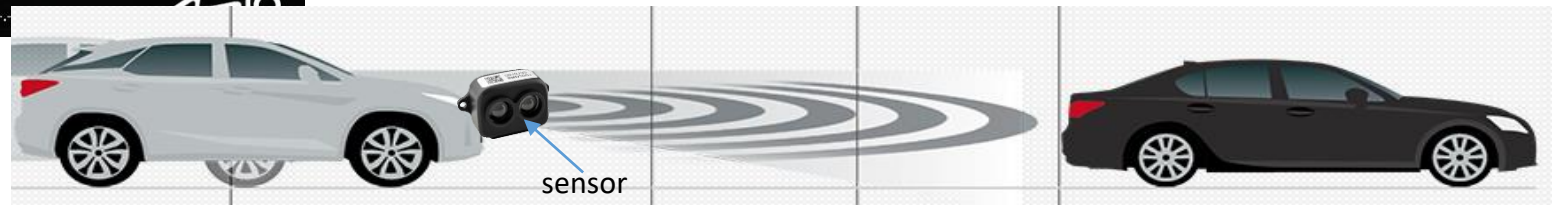




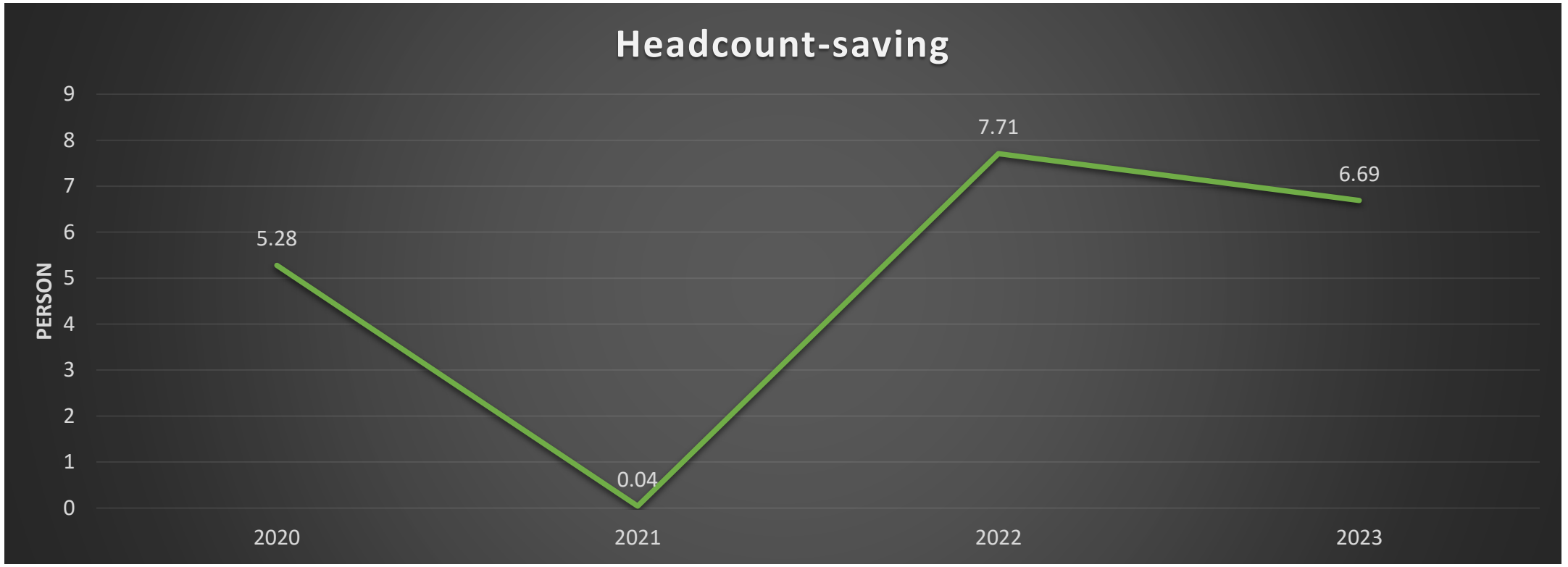








Summary



On average, helping the DQE save NT$ 3,220,000 per year.