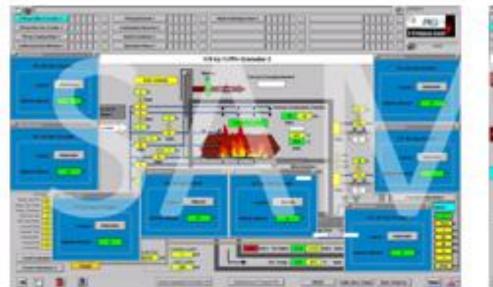
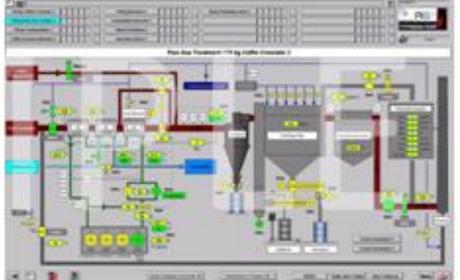
Camera image

Traditional Cremation







Crematory management software

Operation Log

Operator 1

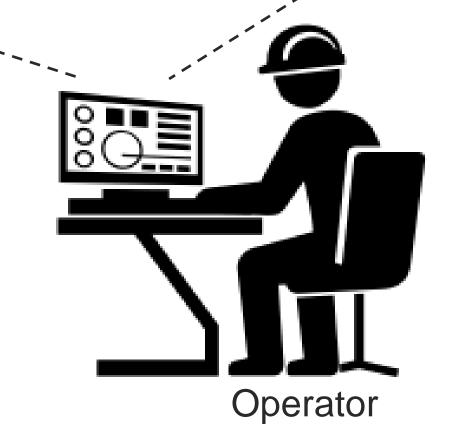
Date: xx-xx-2019

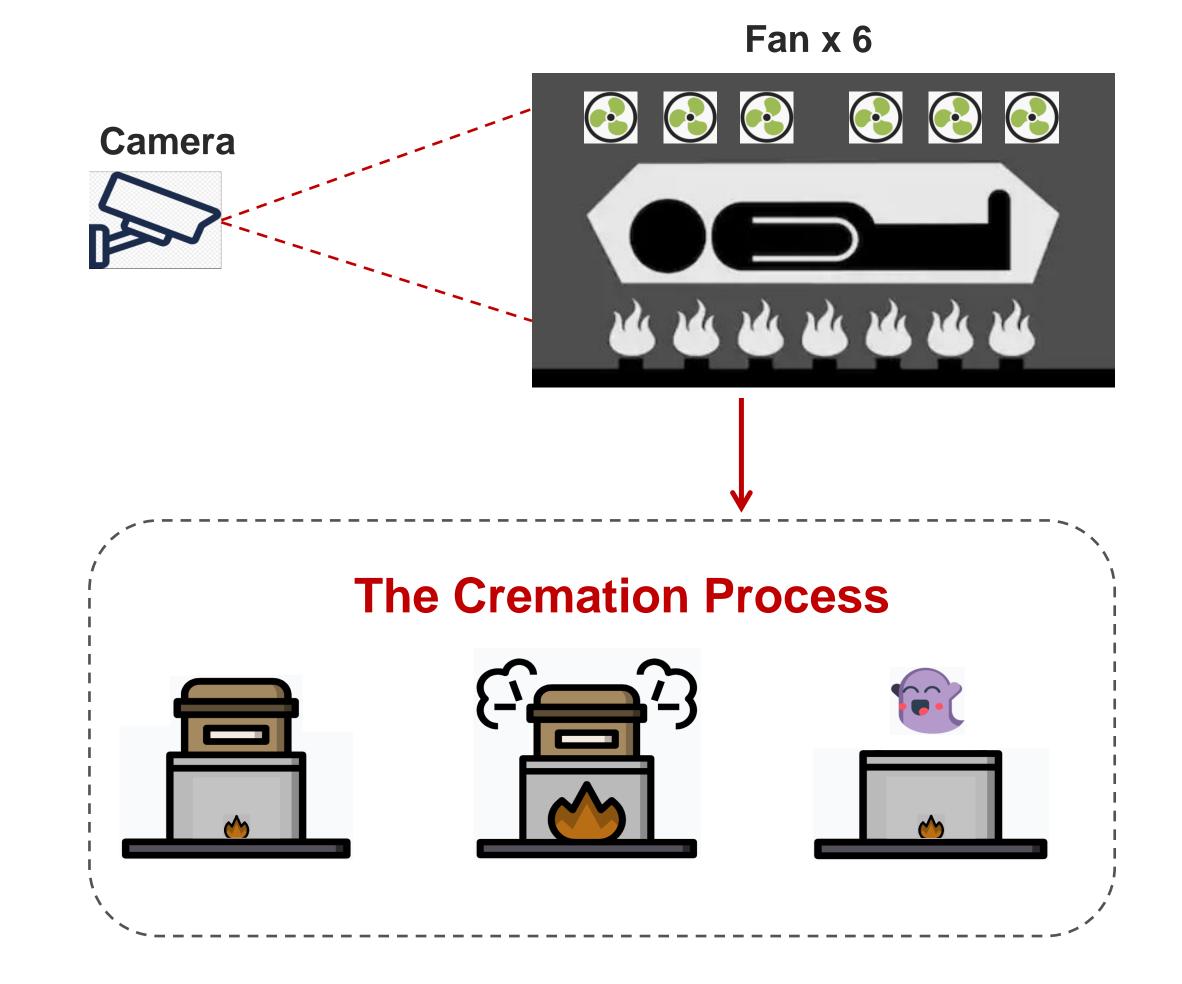
Time: 09:xx @#\$^&&*<>

Time: 10:xx @#\$^&&*<>

.

Time: 11:xx @#\$^&&*<>



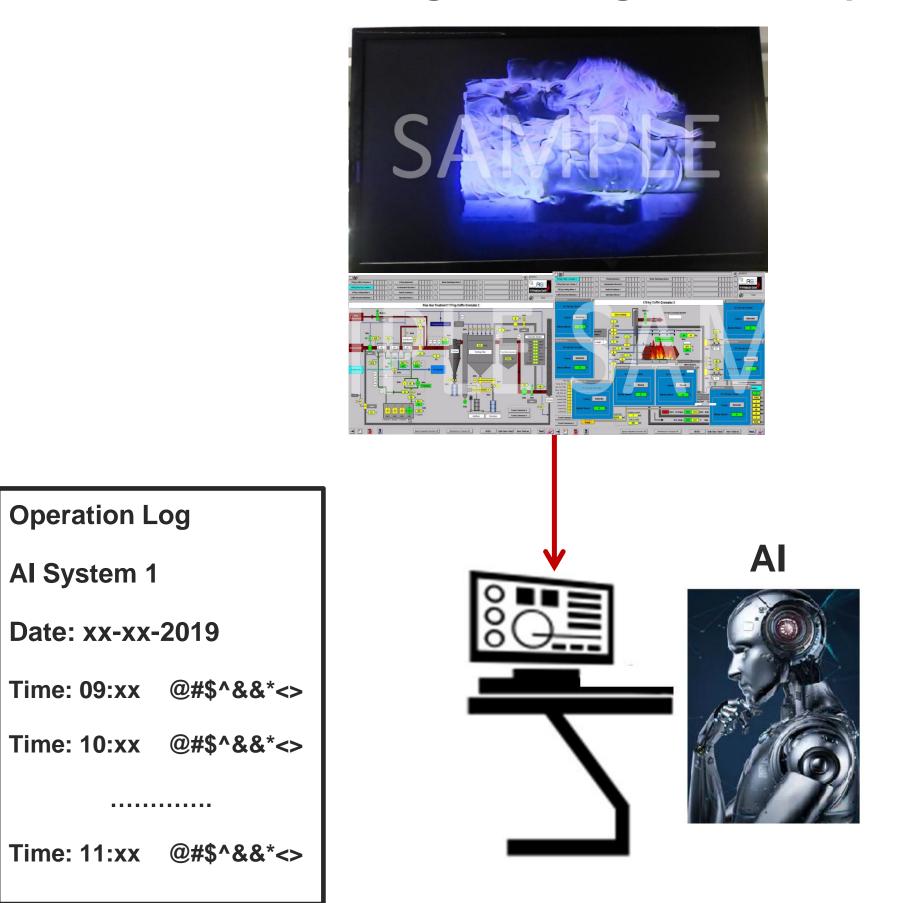


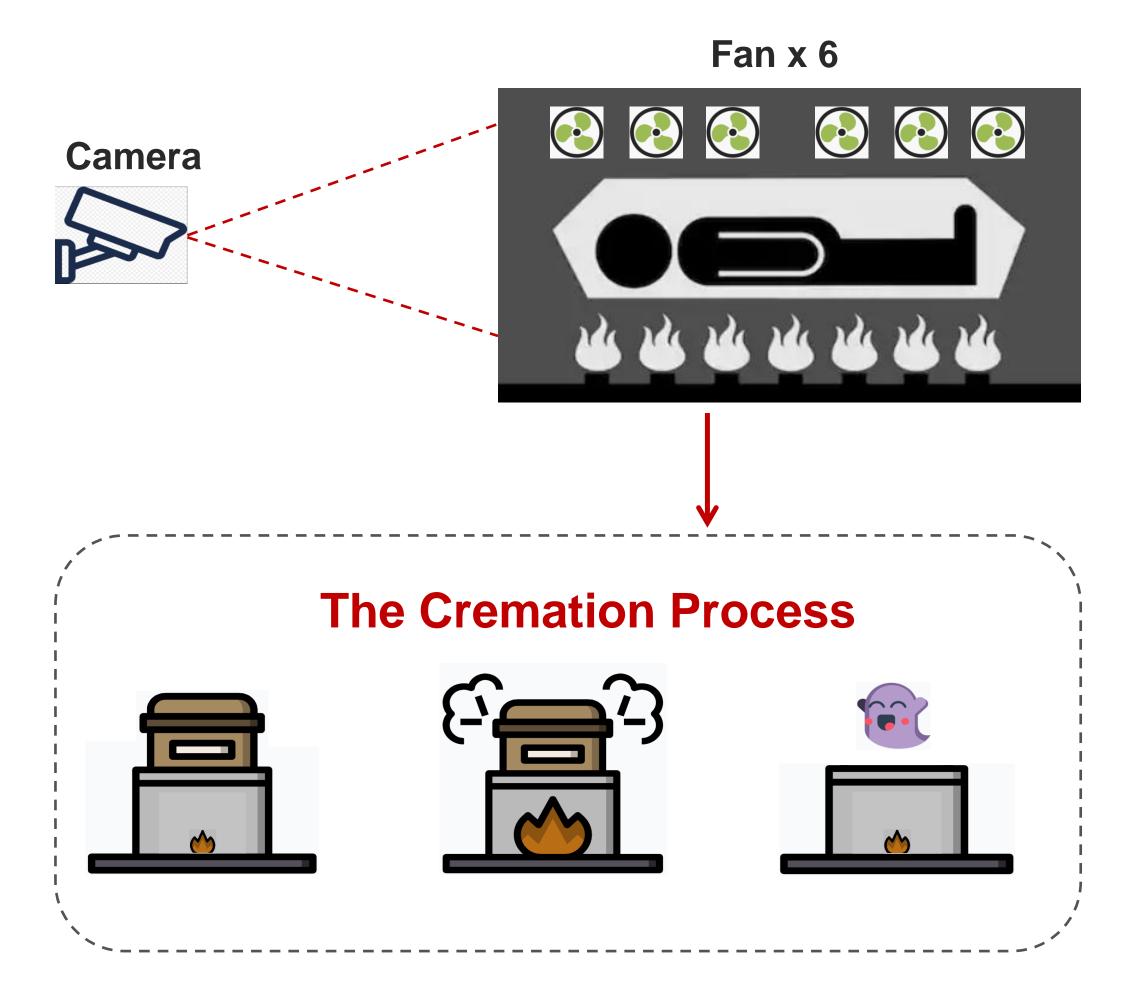


Operator perform combustion control based on the HET Here To Serve measurements such as Dust, TOC, HCL, CO, O2 and CCTV

Automation Cremation

Crematory management software and camera image are merged into one photo





All system perform combustion control based on the classification of captured photos

The more photo capture, the more accuracy result



Operation Log

Date: xx-xx-2019

Al System 1



IrisFrom Surveillance to Intelligence

Iris – a smart video platform that...

transforms your surveillance videos into vital intelligence that you can act on

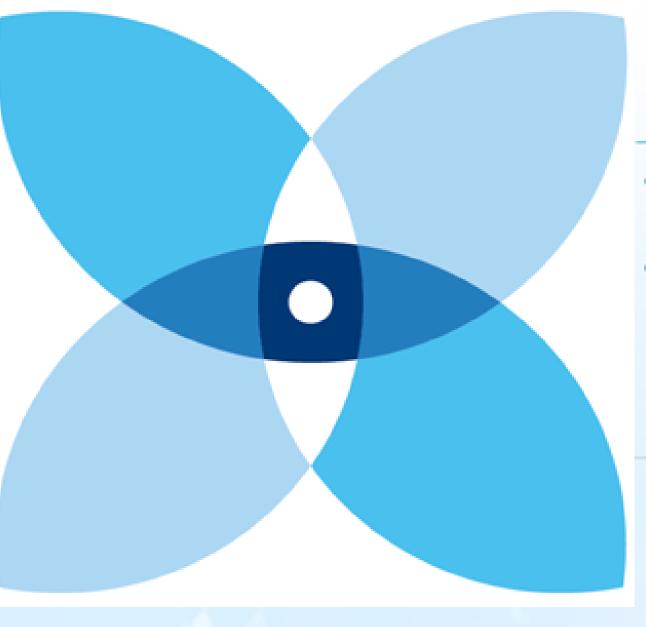
UNLIMITED CAPABILITIES

MANAGED VIDEO SERVICE **CLOUD-BASED VIDEO** MANAGEMENT SYSTEM

- Highly secured platform for easy viewing and playback
- Centralized management of camera at multiple sites

BUSINESS INSIGHTS

- Intelligence are consolidated in a single database for easy referencing
- Alerts from pre-defined criteria
- Business intelligence to predict



OPEN PLATFORM FOR BIG DATA

- Big data is consolidated from multiple sources, from edge cameras or HKT Managed Video Service
- Open architecture API allow integration with your data systems



VIDEO ANALYTICS

 Turn unstructured data from video recordings into structured information e.g. People flow, Demographics, License plate recognition & Facial attendance taking

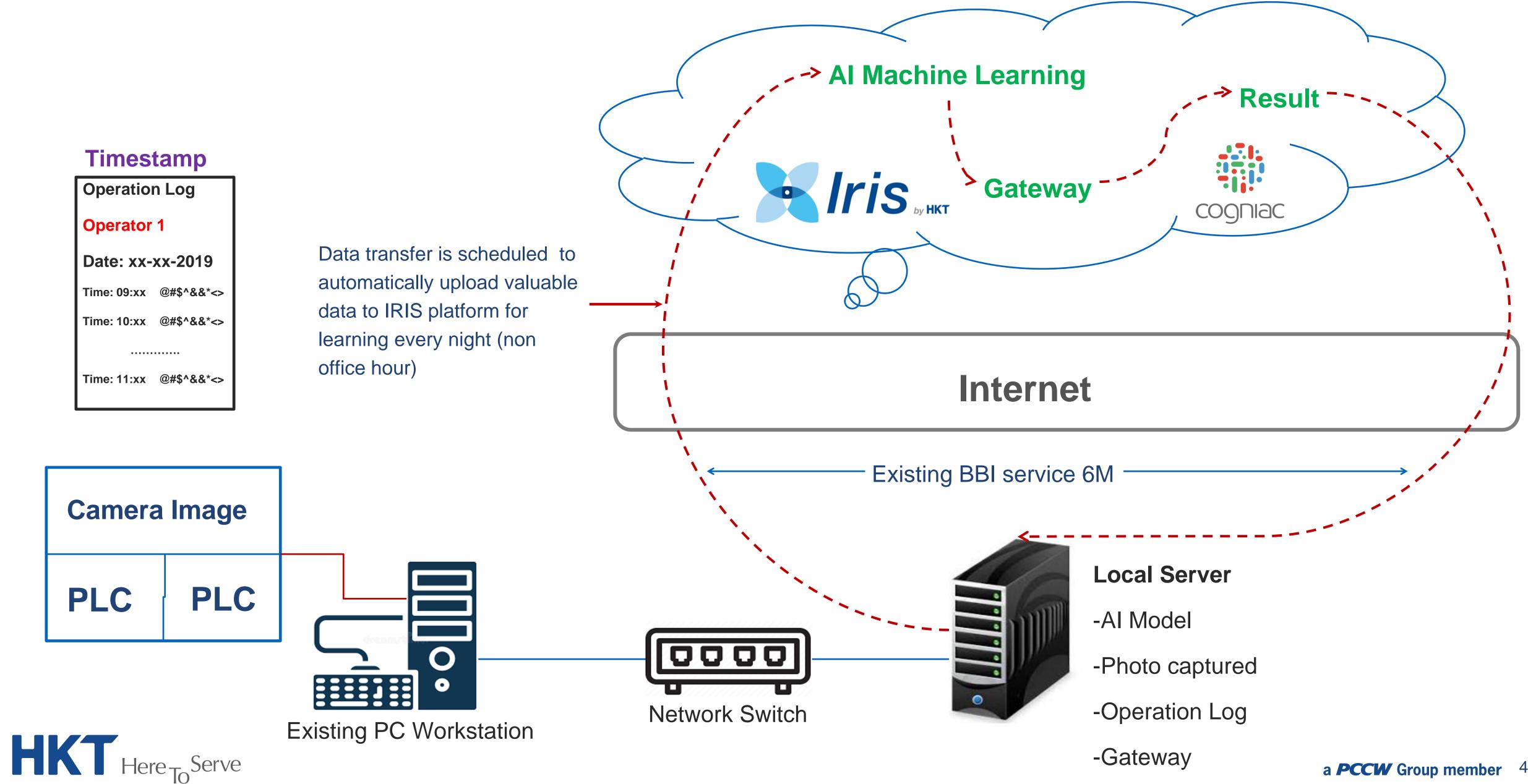
Cogniac enables anyone to easily extract actionable information from any source of visual data



Cogniac cloud training platform performs tasks such as detecting, classifying, measuring, or counting items, conditions, or actions of interest.

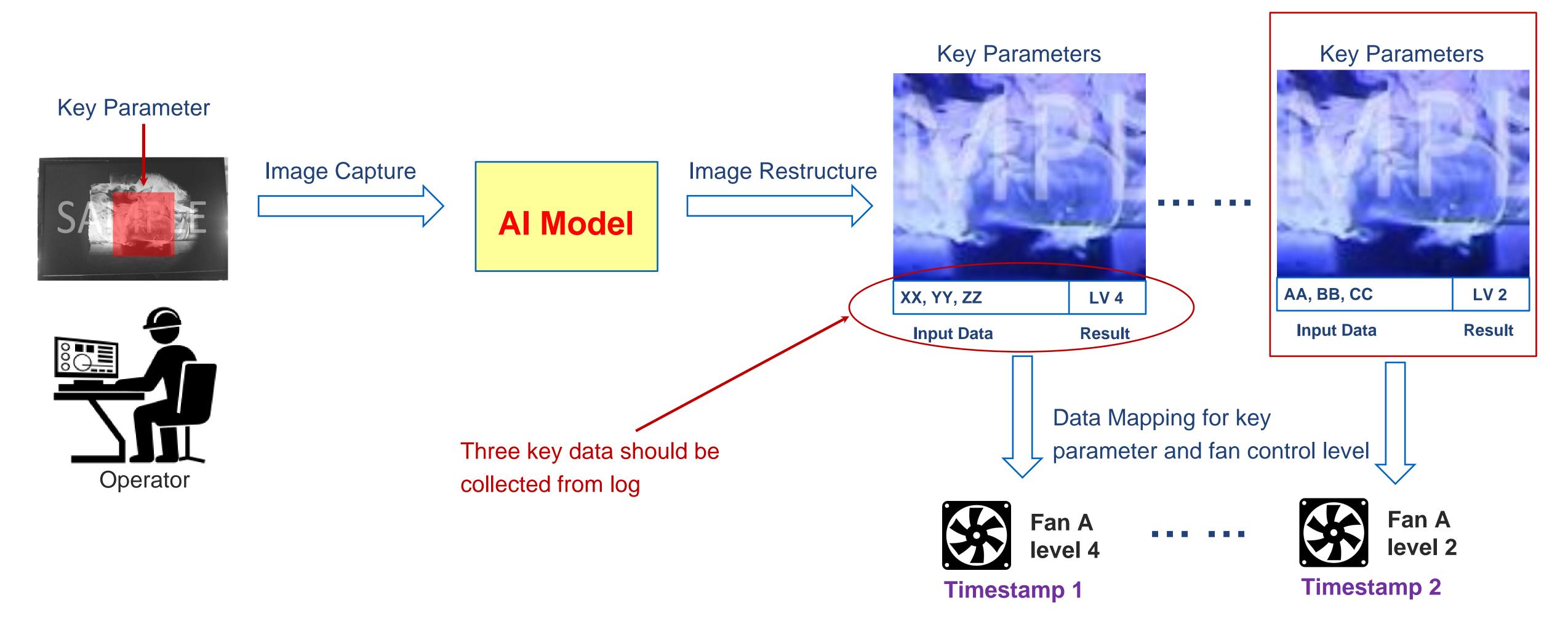


Automation Cremation Solution Diagram



Al Model Application Training Strategy

Restructured image is composed of key parameter and key data

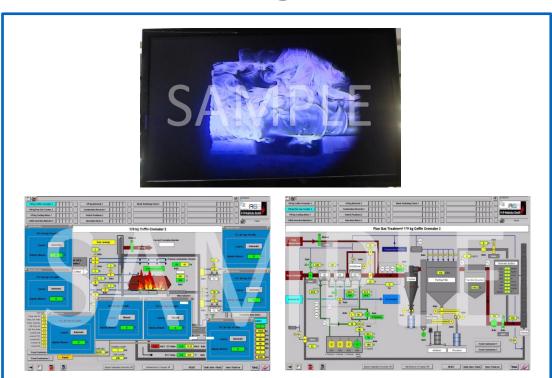


Training data for different level x N



Al Model Architecture and Approach

Image



1. The system automatically put image data into the system via the capture interface

Local Server



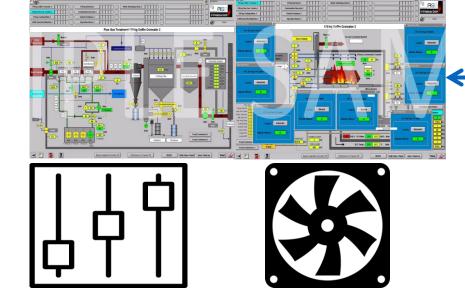
restructure



Input Data

2. Dedicated key parameters are filtered and restructured by AI model and directly upload to cloud training platform through existing BBI service

Crematory Management System



Fan level

4. API of crematory management software is available for third party application integration to control fan speed level

3. A program is developed on local server to receive the result of classification

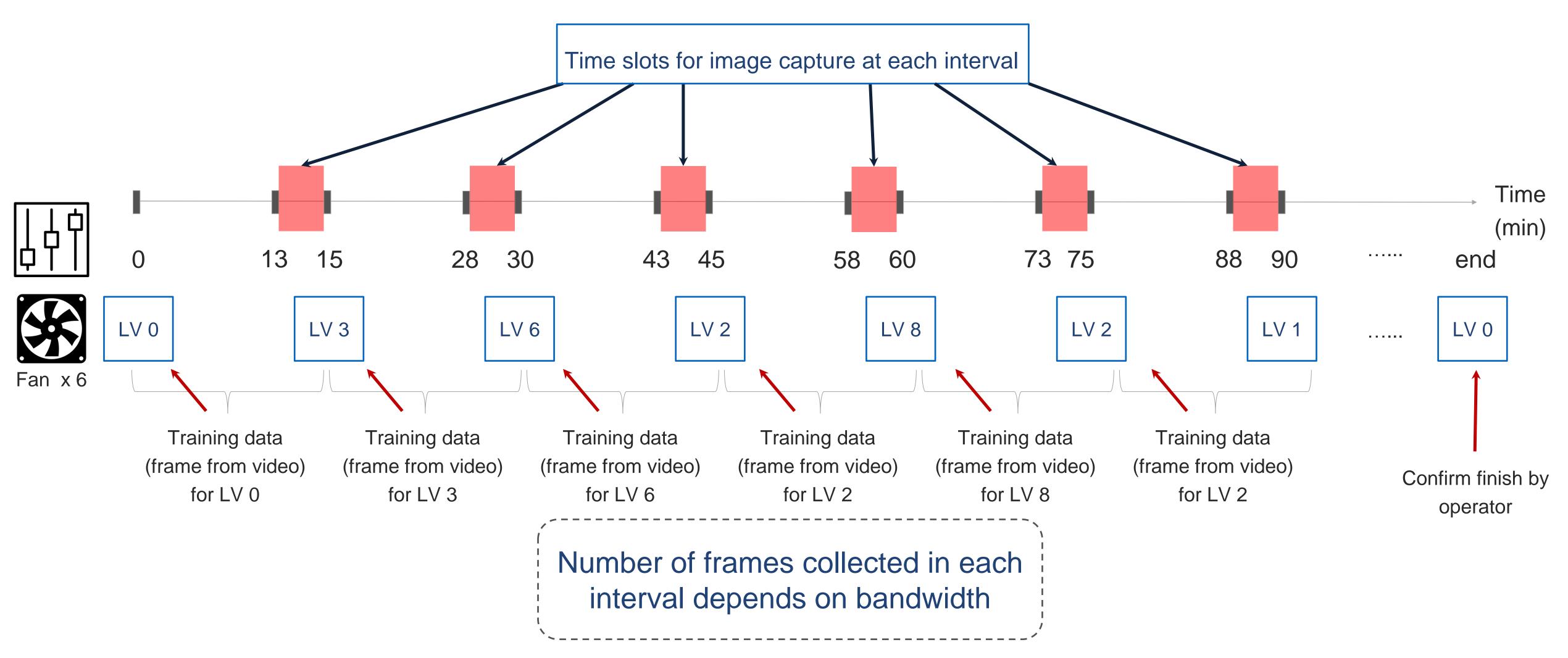
Owned by HKT





Controller

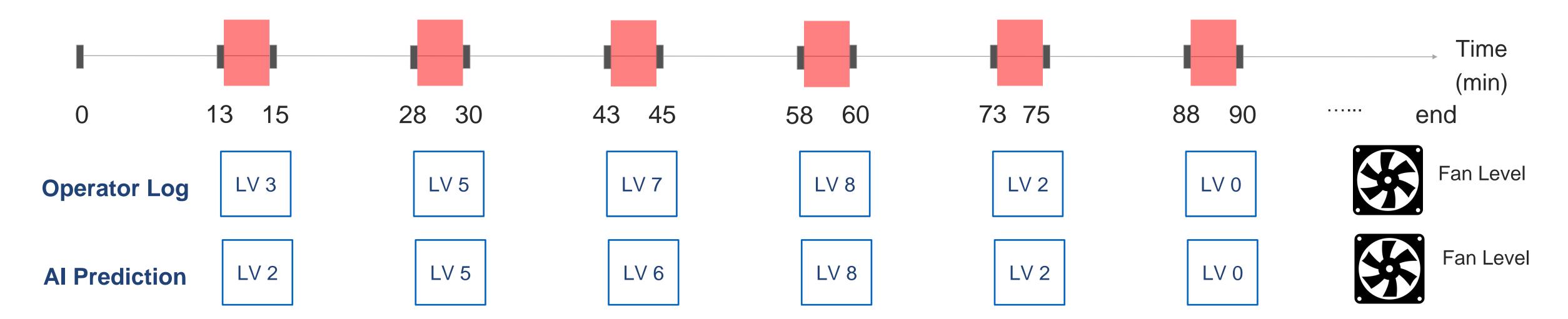
Training Data Collection



^{*} Frame from video refers to screen capture of management console and CCTV



PoC Testing Method





Operator 1

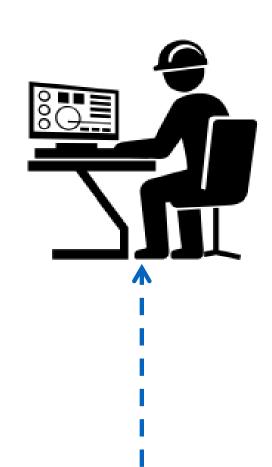
Date: xx-xx-2019

Time: 09:xx @#\$^&&*<>

Time: 10:xx @#\$^&&*<>

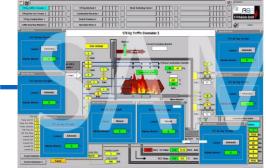
.....

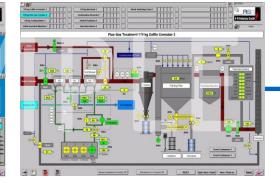
Time: 11:xx @#\$^&&*<>



Accuracy evaluation by comparing the operation log between manual log and Al log to estimate the accuracy rate on the same case and time interval









Operation Log

ΔΙ

Date: xx-xx-2019

Time: 09:xx @#\$^&&*<>

Time: 10:xx @#\$^&&*<>

.....

Time: 11:xx @#\$^&&*<>



Working Programme



Duration: 6 month

Data collection up to 5400 cases for Image classification with 60% accuracy rate

• Duration: 12 month

Data collection up to 10800 cases for Image classification with 80% accuracy rate



Duration: 2 weeks

 PoC for comparison between AI operation result and manual operation result on the same situation and timestamp



- Duration: 4 weeks
- System integration between Cogniac and crematory management software
- A well-trained machine learning system can work as a trainer to assist a new operator

