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Video Intelligence Workflows using OpenCV, Machine Learning and Camunda

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A marriage of two applications

Video Intelligence Platform

- Computer Vision (OpenCV)
- Target market: users who *already* have IP Camera (Malls, Museums, Construction sites)
- Previously had custom events and triggers based on OpenCV detections -> replaced with Camunda.
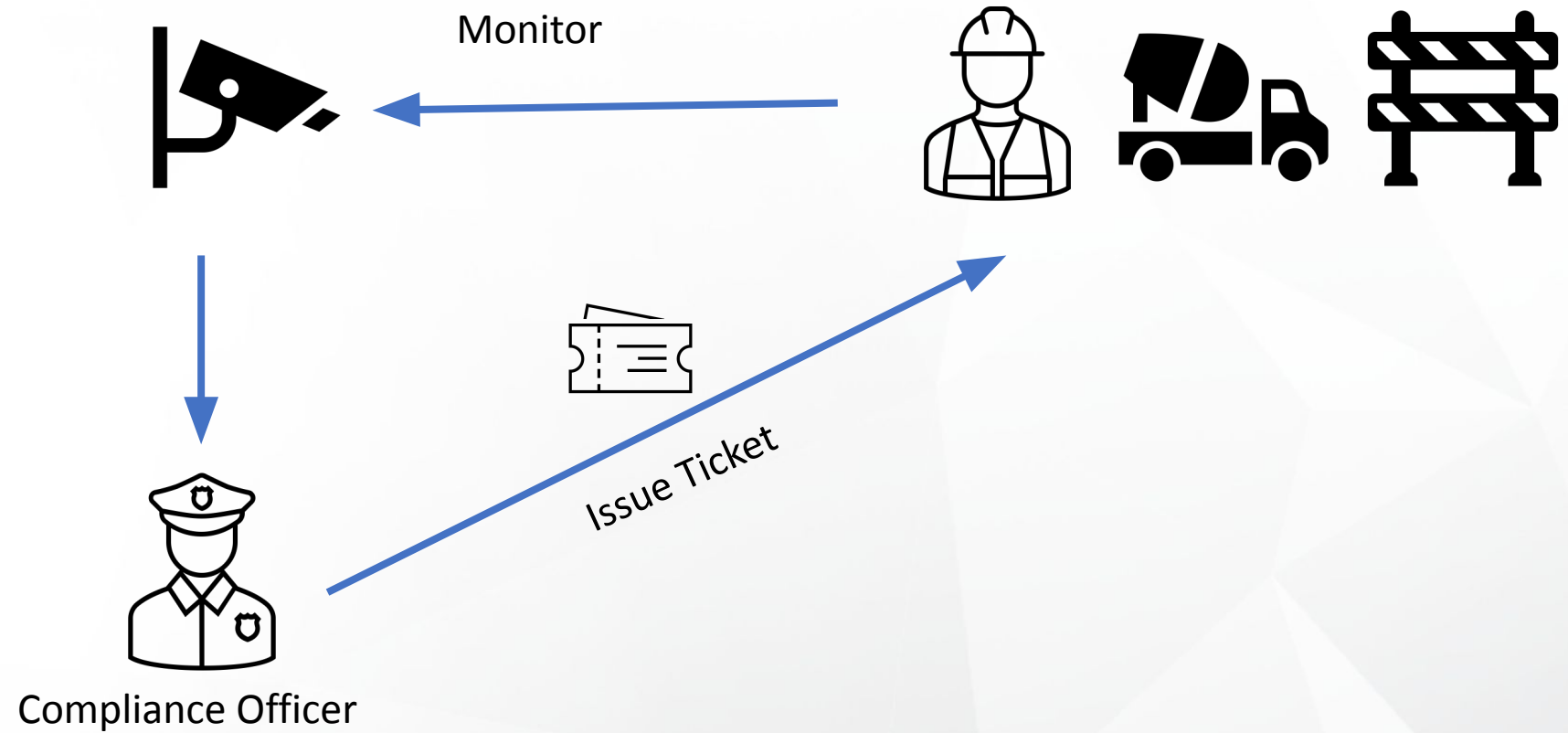
formsflow.ai (inc Camunda)

- Integrated OpenSource tools
- Camunda workflows are central
- Includes low-code forms, and approvals/sign-offs.
- Will briefly show more in solution architecture

Use-Case: Hard Hat Detection

Solution Architecture (link)

Returning to our two applications

Video Intelligence Platform

- Can quickly integrate off the shelf computer vision models
- Microservice approach, spinning up containers per camera.
- Mostly integration and deployment work to leverage FOSS

formsflow.ai (inc Camunda)

- It is a tight integration of FOSS platforms
- Camunda is the "brains"
- API/event based triggering means easy RESTful integration

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formsflow.ai - what is it?

Camunda: workflow engine, the "brains"

forms.io: form engine

Redash: analytics

Keycloak: single sign on (SSO)

Questions?

Abstract

Learn how to leverage Computer Vision, Machine Learning and Camunda to detect and act on objects or activities of interest from live video streams. Based on the priority of the event detected, the associated escalation workflow process either sends a real time SMS text message or creates a human task for manual review of the video clip containing the event. This solution is a great fit for use cases like hard hat detection for construction sites to warn construction workers and visitors who are not wearing a hard hat in zones that require it. Presentation will involve the technical architecture overview, typical use cases and also a live demonstration.