



KARTA·X

Introduction to KACSA v2

2022



Table of Content:

1. Introduction of KACSA V2.0

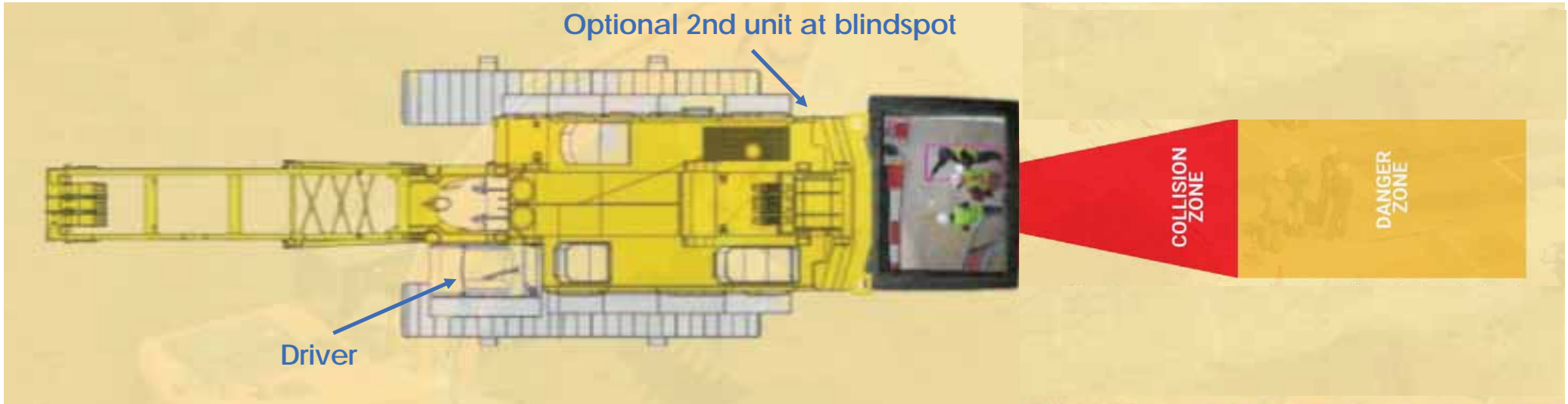
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KACSA[®] V2.0

INTRODUCTION

KACSA v2.0 OVERVIEW

CAMERA & ALERT LIGHTING SUPPORT FOR MACHINERY DETECTION



Processing Unit

- Trigger alert within 0.5s



Live Monitor x1

- Worker detection & PPE compliance detection



Cameras: x2

- Photo snapshots & optional smart recording



Detection Zone

- Adjustable Danger and Collision Zone



External Alerts: x2

- Zone based alert lights



Remote alerts & remote device management

- Data upload to cloud, remote device management

MOBILE PHONE AND TABLET APPLICATIONS

COMPLETE FUNCTIONALITY FOR MULTI-SITE USAGE



Login Credentials



Device Management



Project Tabs



Incident Viewer



Alerts and Notifications



Daily Incident Count Charts



MOBILE APP UI

DEVICES MANAGEMENT & NOTIFICATION FOR MULTI-SITE USAGE



Different Login credentials to access specific Sites/Project



Easily switch to various Active/Inactive sites

Unique Device Names

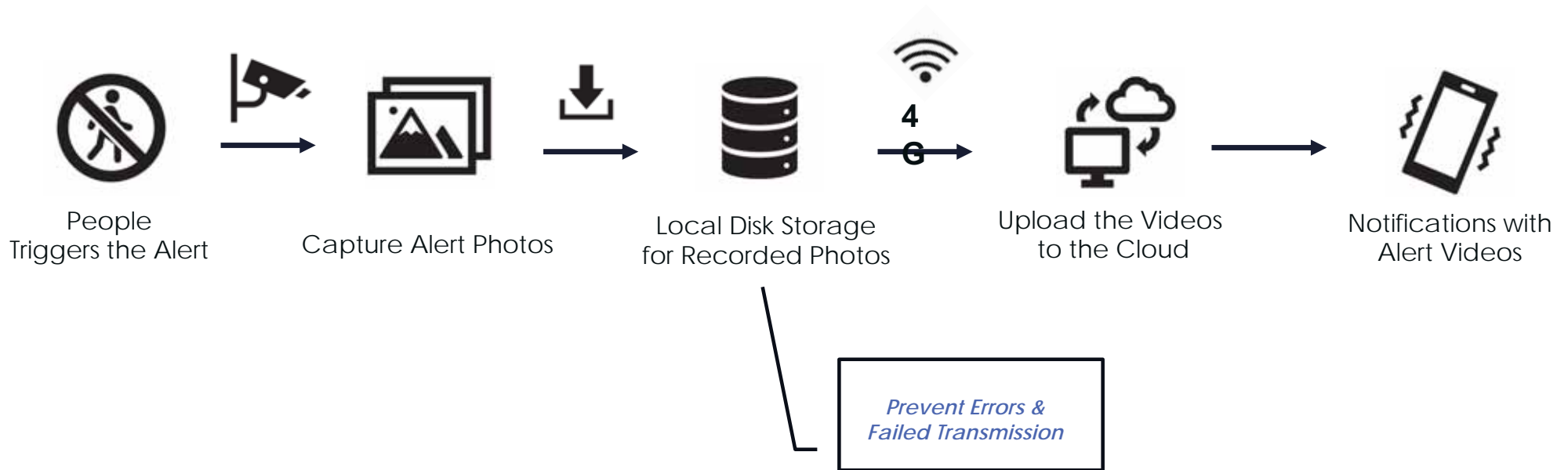


Automatically connects to Corresponding Devices list and incident list



PROPOSED SOLUTION

USER CONFIGURABLE ALERTS & INCIDENT'S PHOTOS CAPTURES



HARDWARE INSTALLATION

DEVICES MANAGEMENT & NOTIFICATION FOR MULTI-SITE USAGE



Customized
Antenna



KACSA v2.0
Installation Position



ADDITIONAL EXPANSIONS

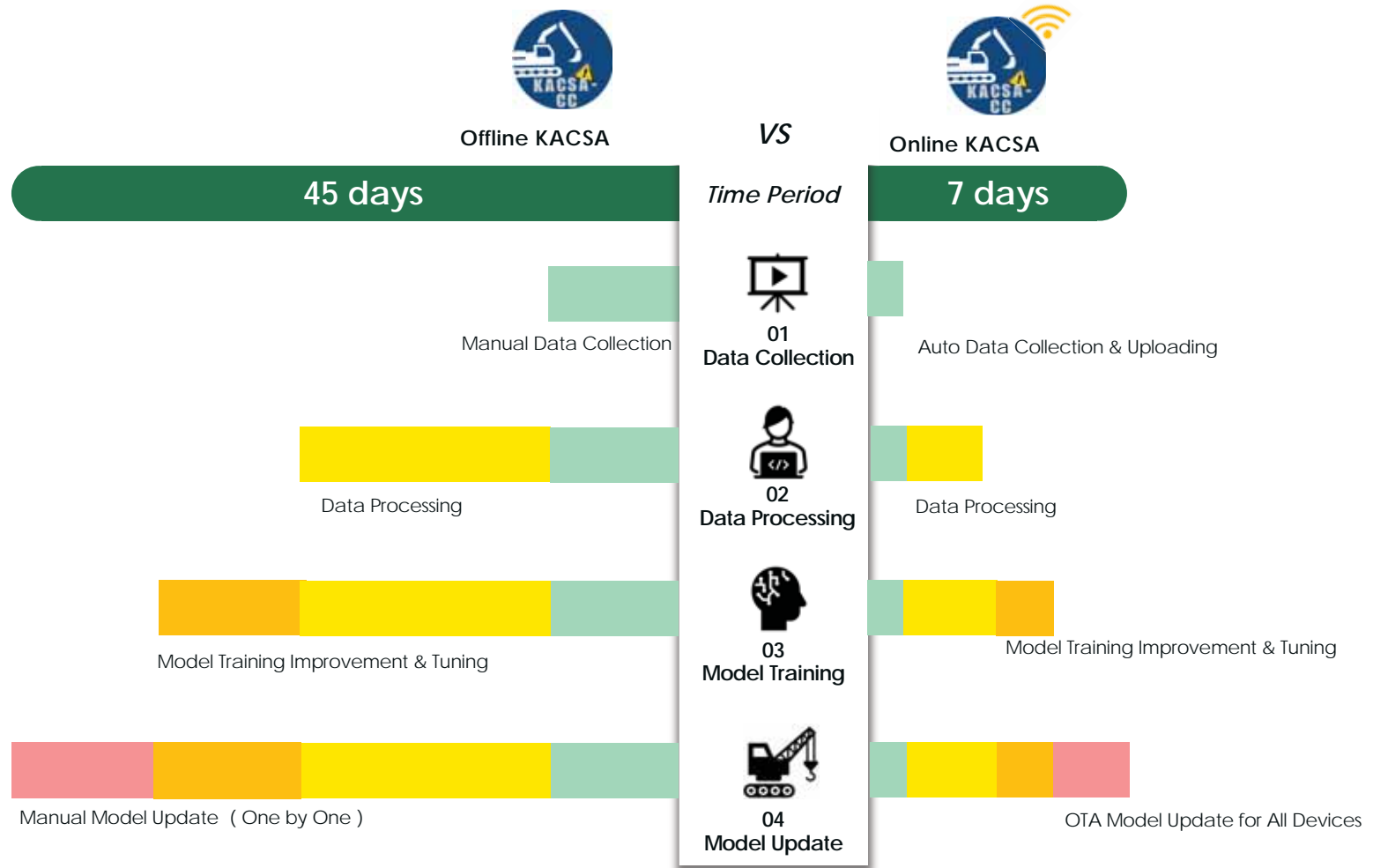
CONNECT TO OTHER KARTA-X PRODUCTS



Connect to:

- *KACSA – site level safety reporting such as:*
 - *Zone-based AI & worker activity reporting*
 - *Detection trending & heatmaps*
 - *Safety indicators & targets*
 - *Advanced analytics for data collection & compilation*
 - *Worker location & more*
- *KALPA – customizable smart light-based sensor & IoT device*

AI MODEL UPDATE TIMELINE COMPARISON

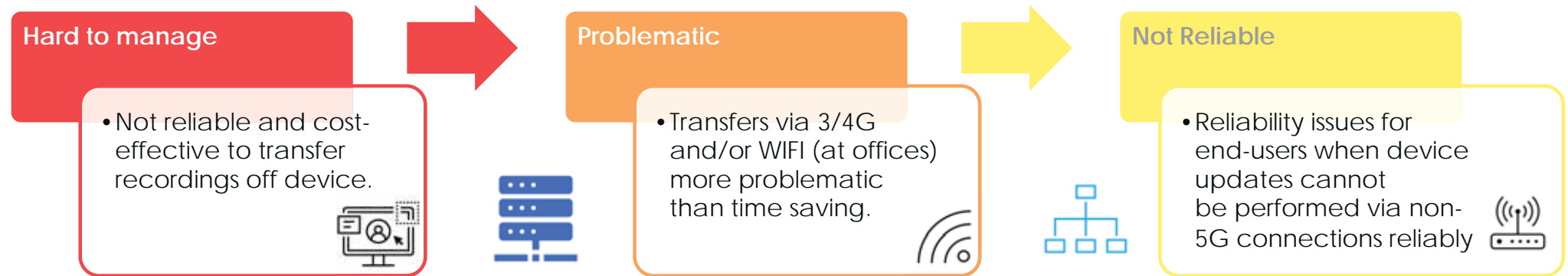


5G BASED

STRATEGIC PARTNER WITH CHINA MOBILE HONG KONG COMPANY LIMITED



Problem of Offline Devices



Solution

- ❑ Installing MEC devices equipped with 5G modules on cranes.
- ❑ IP based CCTV cameras will be directly connected to the MEC devices.
- ❑ All AI processing will be performed locally on the MEC with AI triggered video clips (worker proximity alerts and PPE non-compliance alerts), sent to the cloud via 5G.





THANK YOU

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