OneMoreSecurity Inc.

Intelligent Civil Safety Solution
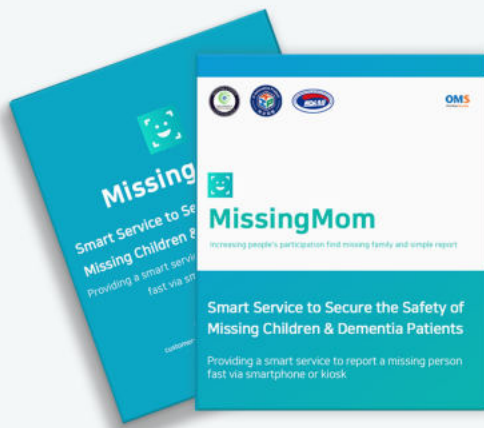
OneMoreEYE (OMEYE)
Intelligent video analytics solution for CCTV operators

AI Video Surveillance All-in-one Safety Platform
Real-time detection, route map animation, and smart surveillance monitoring service

MissingMom
Increasing people's participation that making family and simple report

Smart Service to Secure the Safety of Missing Children & Dementia Patients
Providing a smart service to report a missing person fast via smartphone or kiosk

OMS
One More Security

OneMoreEYE (OMEYE)

AI Video Surveillance All-in-one Safety Platform

MissingMom

Smart Service to Secure the Safety of Missing Children & Dementia Patients

1 Pager Info. **Website** **Video**

OneMoreEYE (OMEYE)

AI Video Surveillance All-in-one Safety Platform

Real-time location detection, route map animation, and smart surveillance monitoring service

▶ **OMEYE Awards & Certifications**

Excellent Product designated by PPS	New Excellent Product designated by MOTIE	Innovative Products designated by PPS	Good Software (GS) Level 1, TTA Software Quality (ISO/IEC 25023, 25041, 25051)
KISA K-ICTC Intelligent CCTV Performance	KISA K-NBTC Face Recognition (ISO/IEC JTC1 SC37)	KOLAS System and Software Quality (ISO/IEC 25023)	FIDO Authentication Secured Login
			WSCE 2022 Awards Winner
MOTIE Minister's Awards commercialization of new technologies	Excellent Information Security Technology designated by MSIT	MSIT Minister's Awards Information Security Merit	MSIT Minister's Awards Information Security Product Innovation Contest
			MSIT Minister's Awards Excellent Company

☐ Necessity of Introducing

approx. x2
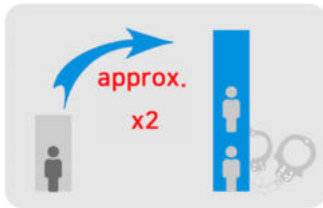
# of increase in crimes against polices

120,000 cases
Annual average from 2018 to 2022
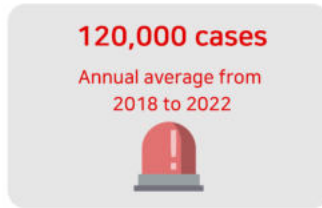
# of reported missing persons every year in Korea

5-18x times more

# of increase in CCTVs against standards

☐ Problems of Existing Solutions

Analysis through the naked eye →

+ 30 Mins ~ 2hour
1 hour-long video

Cannot analyze automatically for tracking the object
Multiple CCTV footages

- 50%
Accuracy
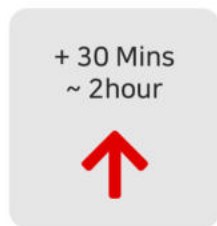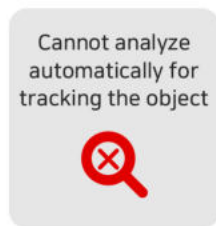
Cannot monitor dangerous situations at all times
Event-based surveillance

☐ Technical Approach

Smart Centralized Surveillance (Fast Search)

Tracking Target	Accuracy

People

- **Face Recognition**
  (Face mask on/off) ⟶ 99.98% (Mask On:98.45%)

- **Person Re-Identification**
  (Body shapes, clothes, shoes, etc.) ⟶ Rank 1 (99%)

  ⟶ Within Rank 5 (99.8%)
  (Re-ID for Top 5 Candidates)

Smart Selective Surveillance

Detect events automatically for people
(loitering, trespassing, falling, overcrowding, counting, jaywalking, etc.),
vehicles (intrusion, illegal parking, license plate, etc.), and other events (fire, smoke, hard hat, etc.)

☐ Key Points

- **High Accuracy**
  (Guaranteed fully verified algorithm
  performance by KISA and KOLAS)

- **Fast Analysis**
  (Takes under 15 seconds for 1 hour long video)

- **Real-Time Detection**
  (Detects the target's location in real-time)

- **Efficient Analysis**
  (Analyzes multiple targets and CCTVs all together)

- **No CCTV Replacement**
  (Applicable to any existing environment)

- **Smart Selective Surveillance**
  (Reduces control agents' intense workload & reliance)

☐ Service Diagram

Multiple CCTVs

Video

VMS

Video Storage Server   Video Display Server

Video Data
Linkage with VMS

OMEYE

AI Analysis Server

Analysis Result

Analysis Request

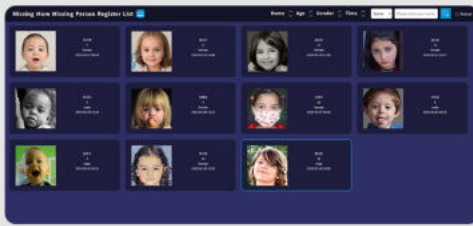Control Agent's PC

☐ Important Screen and Operational Scenario

Real-time detection and route map animation on the selected people or vehicles

● Select Targets

by selecting **Missing Person List**

by capturing images from **CCTV Video**

by selecting **characteristics**
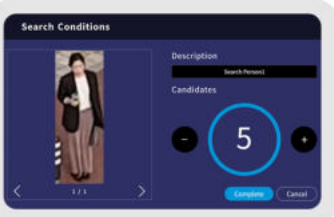

by uploading **pictures**

Input the License Plate Number

8079

Complete

by entering license **plate number**

8079

● Select Areas

● Select Conditions

Search Conditions

Description
Search Person1

Candidates

− 5 +

● Select Candidate Targets

● ▶ Real-time Detection for Live Monitoring

Detecting in real time

● Animate Map Route

Download Results

Target Image   Username

OMS

Start Time
2022-09-16
00:00:00

End time
2022-09-16
01:00:00

Description
Search Person1

Moved Location
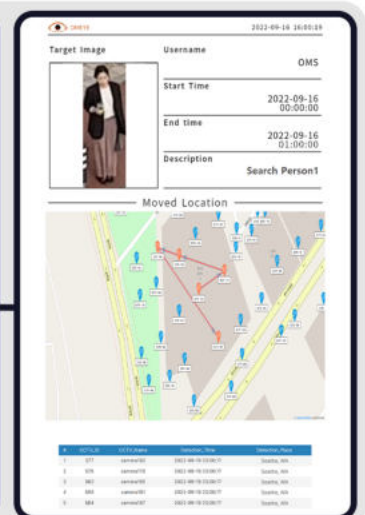
Smart Surveillance Service (Event Monitoring)

Event Detection Policy Settings
(People, Vehicles, License Plate Numbers)
- loitering, trespassing, falling, overcrowding,
illegal parking, fire/smoke, hard hat, etc.

Live Videos on Detected Events
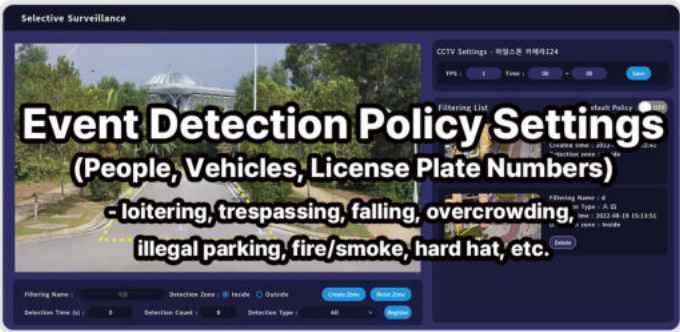
· Applied fully verified AI Algorithm by KISA K-ICTC certification

· Detect events automatically for people (loitering, trespassing, falling, overcrowding, counting, jaywalking, etc.), vehicles (intrusion, illegal parking, license plate, etc.), and other events (fire, smoke, hard hat, etc.)

· Available to set the region of interest (ROI) in the CCTV video to be detected.

· Display thumbnails of the events and play the video.

· Available to check and search the surveillance history.

· Boost user convenience by applying user policy or default policy, fixed camera, etc.

Optional linked service: fast search for missing persons (MissingMom)
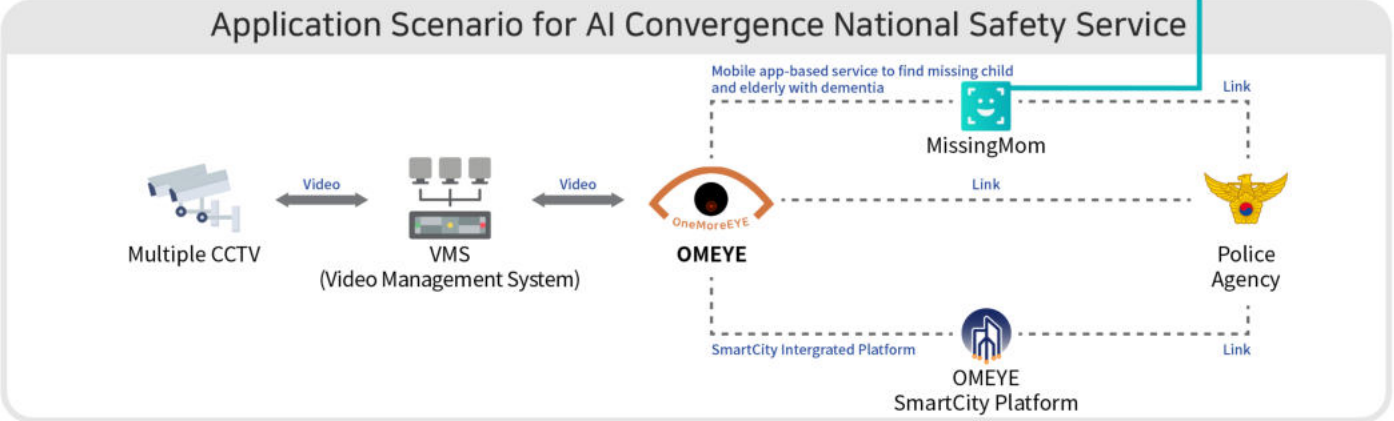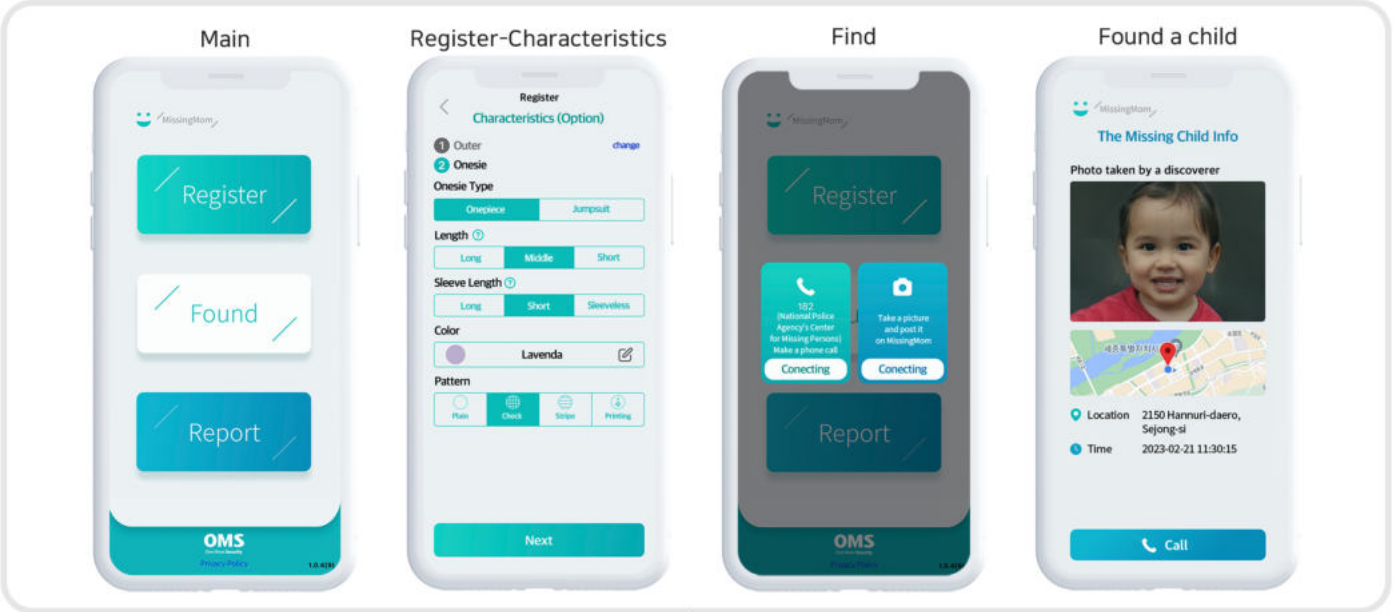
Main

Register-Characteristics

Find

Found a child

Application Scenario for AI Convergence National Safety Service

Mobile app-based service to find missing child and elderly with dementia

Multiple CCTV → Video → VMS (Video Management System) → Video → OMEYE (OneMoreEYE) → Link → MissingMom → Link → Police Agency

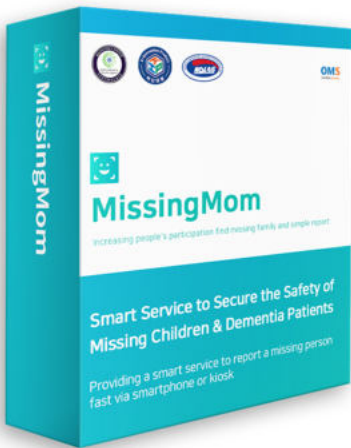SmartCity Intergrated Platform → OMEYE SmartCity Platform → Link

MissingMom

Smart Service to Secure the Safety of Missing Children & Dementia Patients

Providing a smart service to report a missing person fast via smartphone or kiosk

▶ Certifications

Face Recognition
certified with 99.98%
Accuracy by KISA
(ISO/IEC JTC1 SC37)

Innovative Products
designated by
Public Procurement Service

System and Software Quality
certified under the
accredited test by KOLAS
(ISO/IEC 25023)

☐ Key Points

· **Software performance and quality are fully certified by KISA, TTA, and KOLAS**
  (Acquired accredited certification for self-developed face recognition model (OMFACE)
   by TTA V&V)

· **Smart city living lab service**
  (Service applied with face recogntion to find missing people that enables active participation
   of citizens)

· **Simple report**
  (Simple report via registration of wearing information and face/body image)

· **Establishment of an efficient system for guaranteed civil safety**
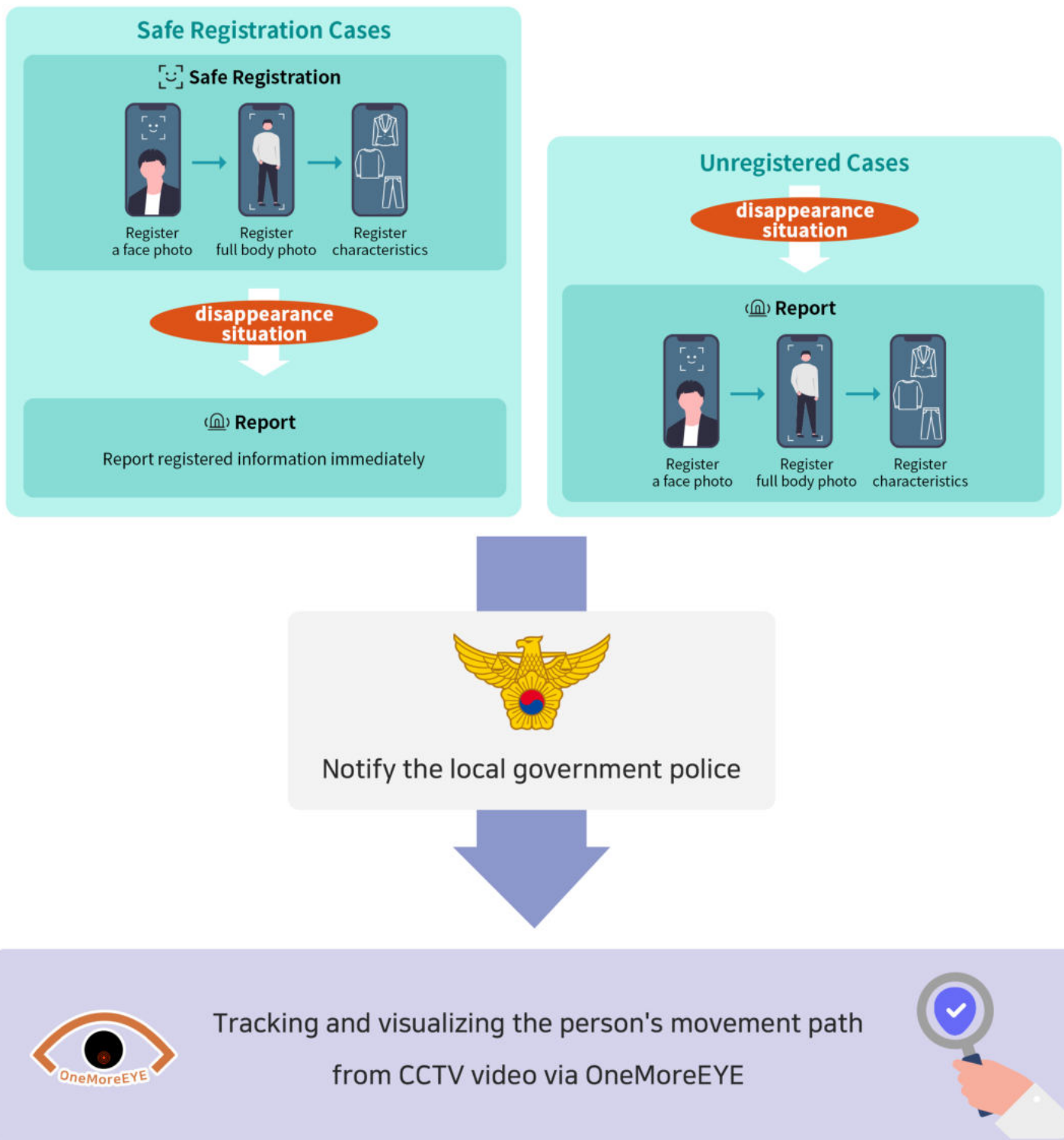 (Reduce costs through intelligent service of guaranteed civil safety)
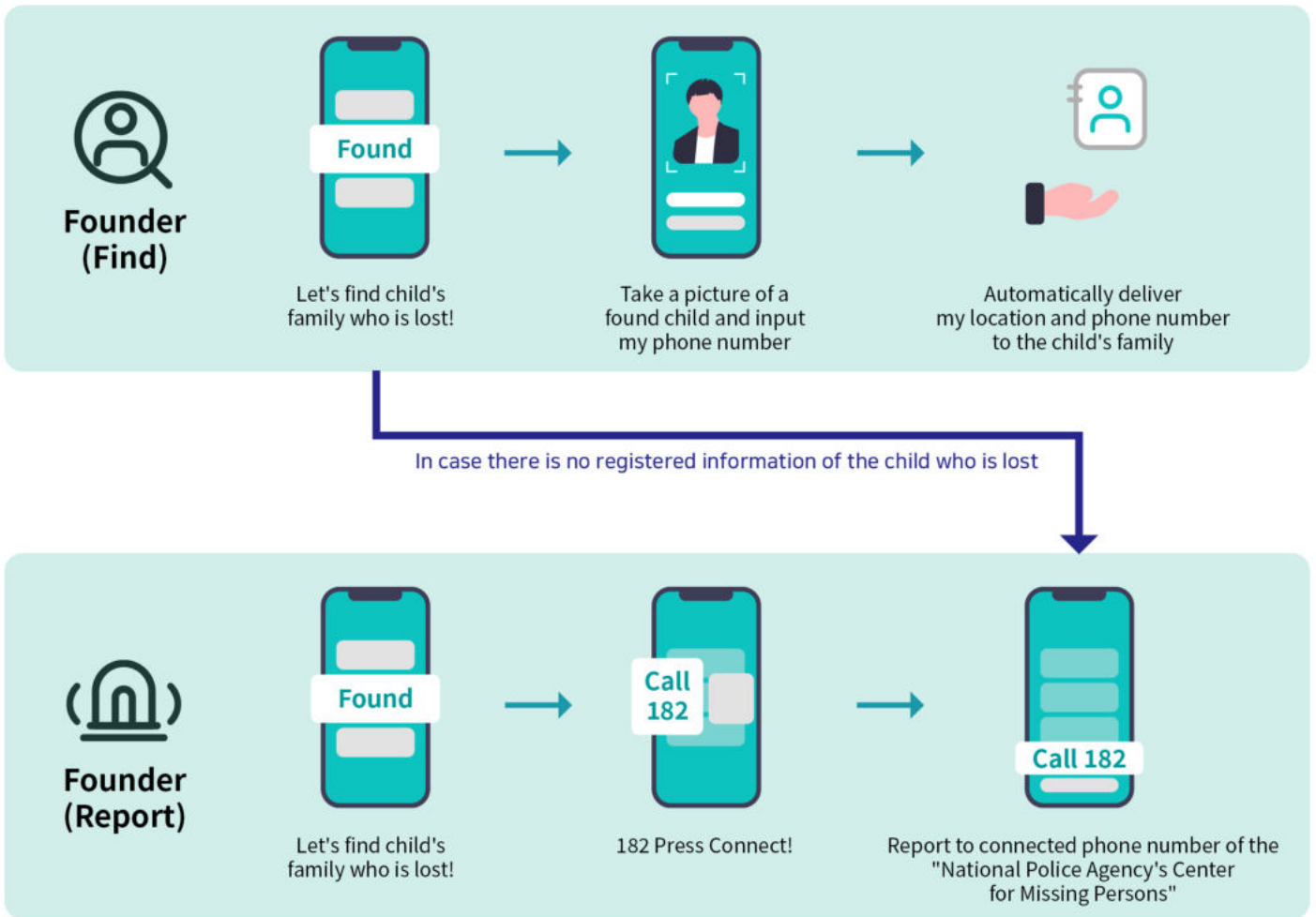
☐ Necessity of Introducing

·It is urgent to prepare measures regarding the public safety from the increasing number of reports of missing people such as children, dementia patients, intellectual, autistic, mentally disabled, etc.

·As of 2022, the number of annual reports for missing children and elderlies with dementia is approximately 50,000 cases in Korea according to the statistics of the National Police Agency

☐ Operational Scenario : Family

Safe Registration Cases

⊡ Safe Registration

Register a face photo → Register full body photo → Register characteristics

disappearance situation

⊡ Report

Report registered information immediately

Unregistered Cases

disappearance situation

⊡ Report

Register a face photo → Register full body photo → Register characteristics

Notify the local government police

Tracking and visualizing the person's movement path from CCTV video via OneMoreEYE

☐ Operational Scenario : Founder

Founder (Find)

Found		
Let's find child's family who is lost!	Take a picture of a found child and input my phone number	Automatically deliver my location and phone number to the child's family

In case there is no registered information of the child who is lost

Founder (Report)

Found	Call 182	Call 182
Let's find child's family who is lost!	182 Press Connect!	Report to connected phone number of the "National Police Agency's Center for Missing Persons"

☐ Service Scenario

MissingMom Safe Registration Cases

Safe Registration
- Register a face photo
- Register full body photo
- Register characteristics

disappearance situation

Report
- Get a face photo
- Get full body photo
- Get characteristics

MissingMom Unregistered Cases

disappearance situation

Report
- Register a face photo
- Register full body photo
- Register characteristics

Safe Registration

Filing of a report

the National Police Agency

Forward reporting information (face/full body/characteristics)

MissingMom Server

Missing person report information inquiry

Search for Missing Persons

Video

Local government CCTV control center

VMS (Video Management System)

Multiple CCTV

OneMoreEYE

MissingMom Missing Person Information Inquiry

- Find with a face photo
- Find with full body photo
- Find with characteristics
- Find with CCTV based on missing locations

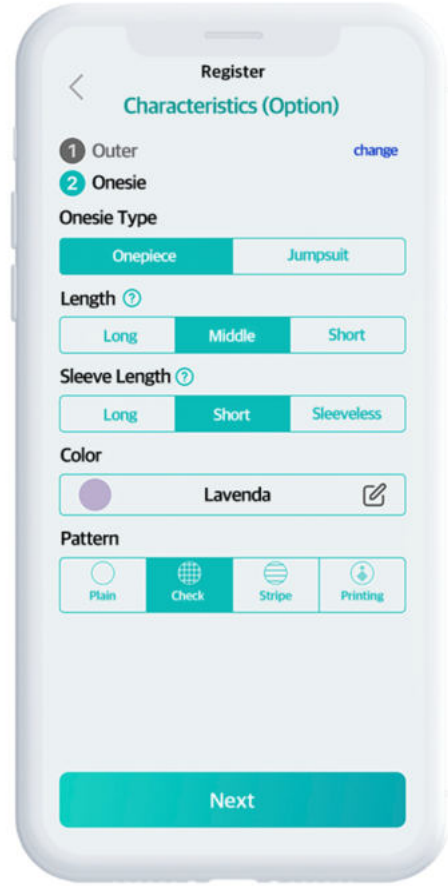Tracking the missing person's movements

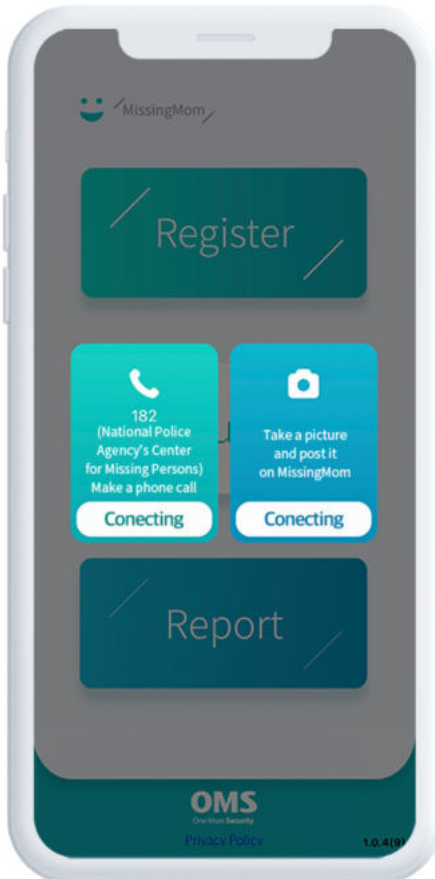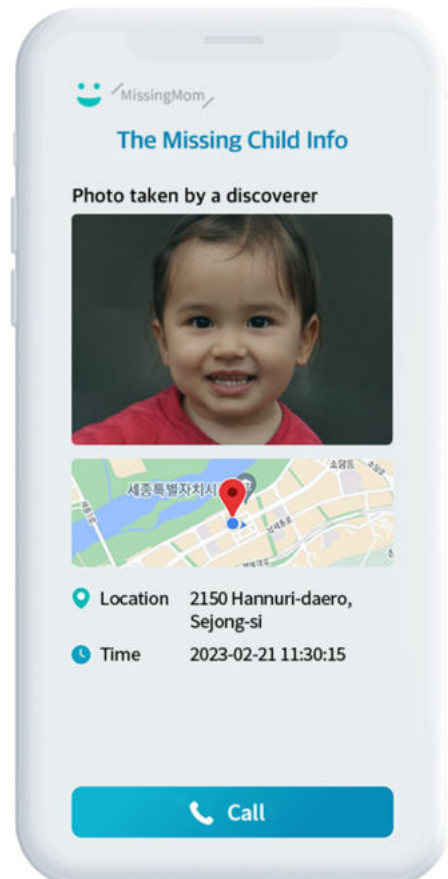# ☐ Important Screen

Main

Register-Characteristics

Find

Found a child

Other Products

OneMorePASS (OMPASS) On-Premise

FIDO(Fast IDentity Online) Solution

OneMorePASS (OMPASS) Cloud

FIDO(Fast IDentity Online) Service

OneMoreFACE (OMFACE)

Deep Learning-based Face Recognition

MyPCProtector 4.0

Vulnerability Management and Scanning Solution for PC

OMS Secure Print

Print Control Solution

OMS Code

Document Fraud Prevention

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