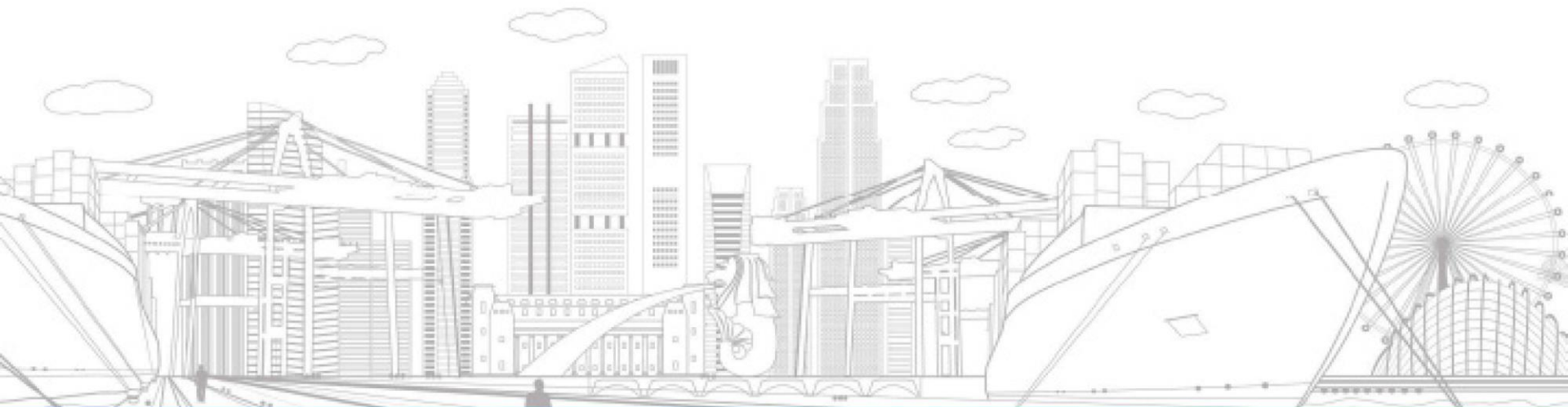




MPA  
SINGAPORE

# Enhancing Ferry Safety through Innovation



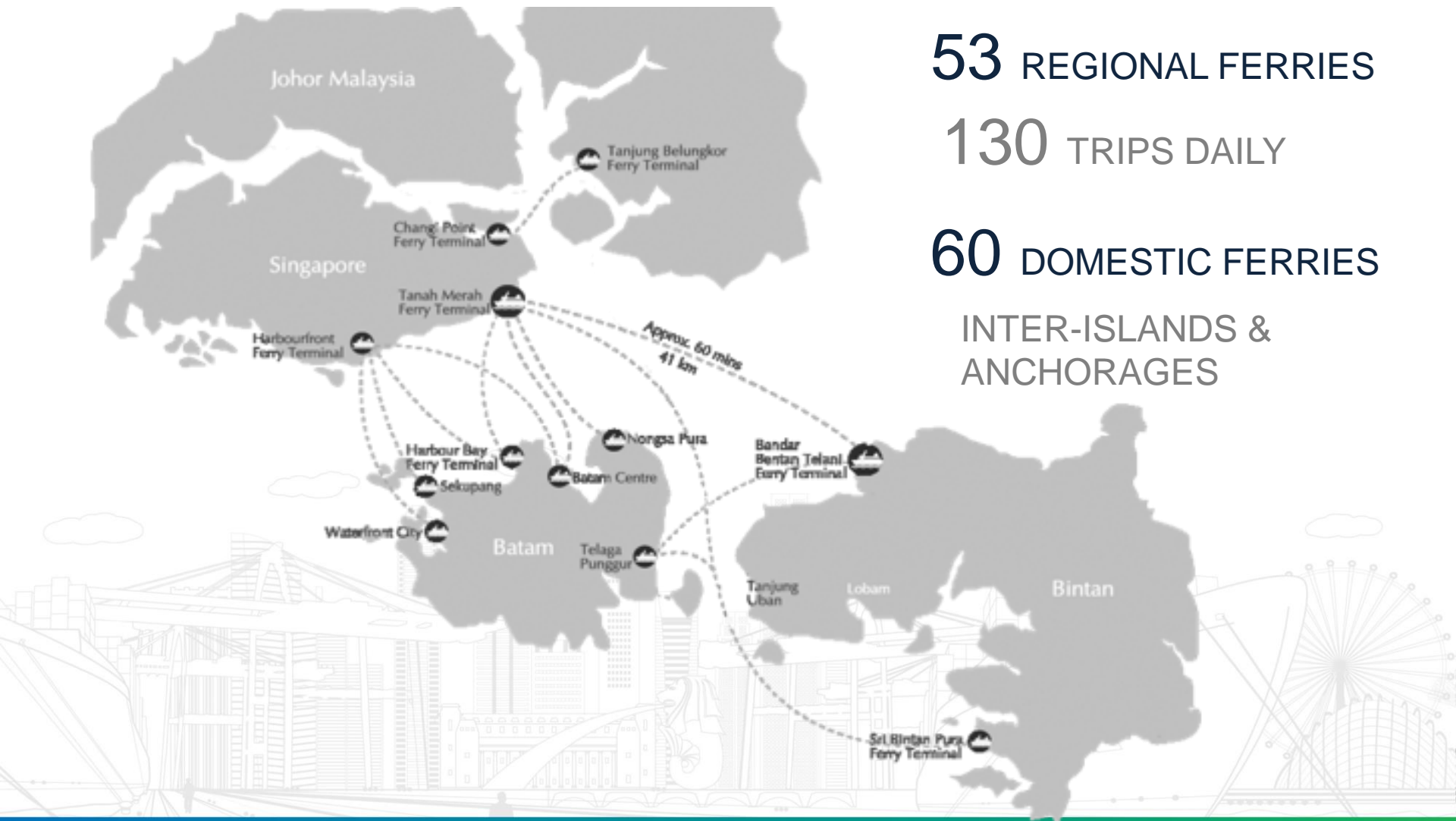
# Overview of Singapore's Ferry Services

**53** REGIONAL FERRIES

**130** TRIPS DAILY

**60** DOMESTIC FERRIES

INTER-ISLANDS &  
ANCHORAGES



# Overview of MPA's efforts to enhance ferry safety

## PARTNERSHIPS WITH STAKEHOLDERS



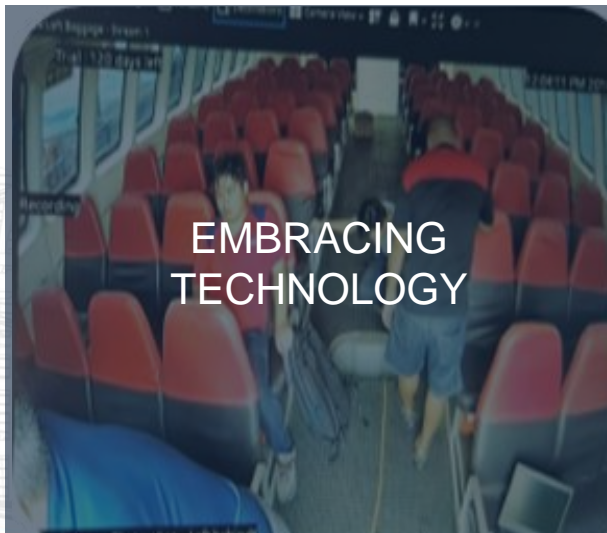
## PUBLIC SAFETY AWARENESS



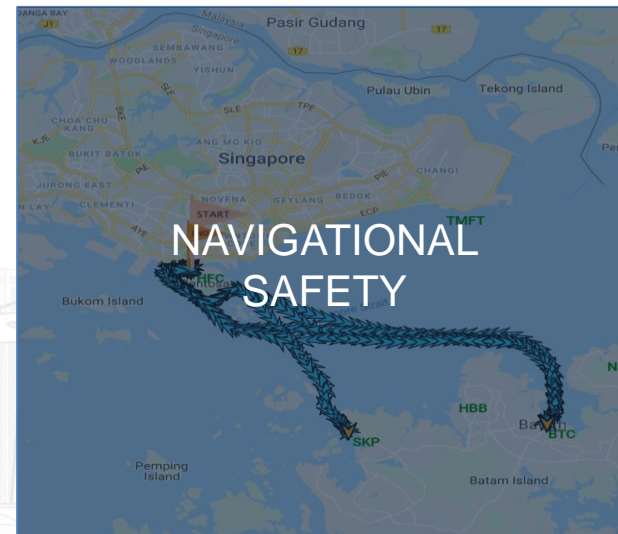
## EMERGENCY PREPAREDNESS



## EMBRACING TECHNOLOGY



## NAVIGATIONAL SAFETY





# Overview of MPA's efforts to enhance ferry safety



Ferry Safety Video (2017)



1st CoP Forum (2017)



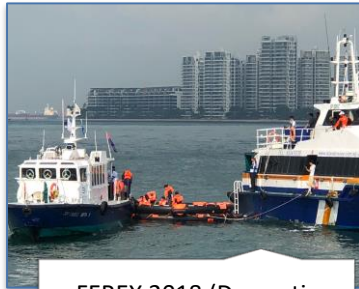
Refreshed S@S campaign collaterals (2018)



Announcement of co-funding mechanism (2018)



Industry workshop on ferry safety during annual IS@SW



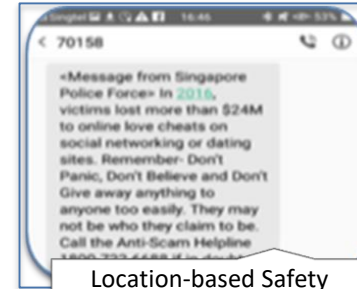
FEREX 2018 (Domestic ferry)



IoT for lifejackets (2018 and ongoing)



Video analytics to detect safety and security hazards (2018 and ongoing)



Location-based Safety Messages for Kusu season (2018)



Year-end safety messages (2018)



Buckle-type lifejacket & receptacle on regional ferries (2019)



2nd CoP Forum (2019)



FEREX 2019 (Regional ferry)



Safety e-bulletin



Interactive safety e-kiosks at passenger ferry terminals (4Q2019)

# Key Innovation 1: Lifejacket upgrades

TO BE ON BOARD ALL SINGAPORE-REGISTERED REGIONAL  
FERRIES BY 31 DECEMBER 2019

## SOLAS-APPROVED BUCKLE-TYPE LIFEJACKETS



## IMPROVED LIFEJACKET RECEPTACLES



# Key Innovation 2: Video analytics to prevent overcrowding

## BAGGAGE OBSTRUCTION IDENTIFICATION



## PASSENGER COUNTING TO PREVENT OVERCROWDING

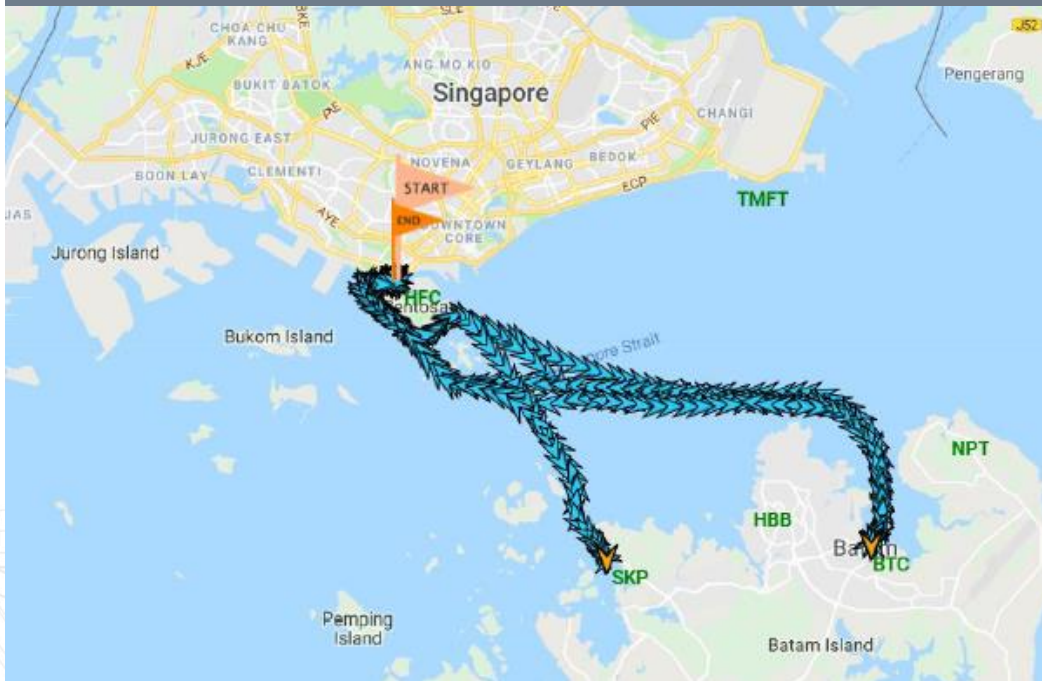


BEYOND FERRIES – TESTING IN FERRY TERMINALS

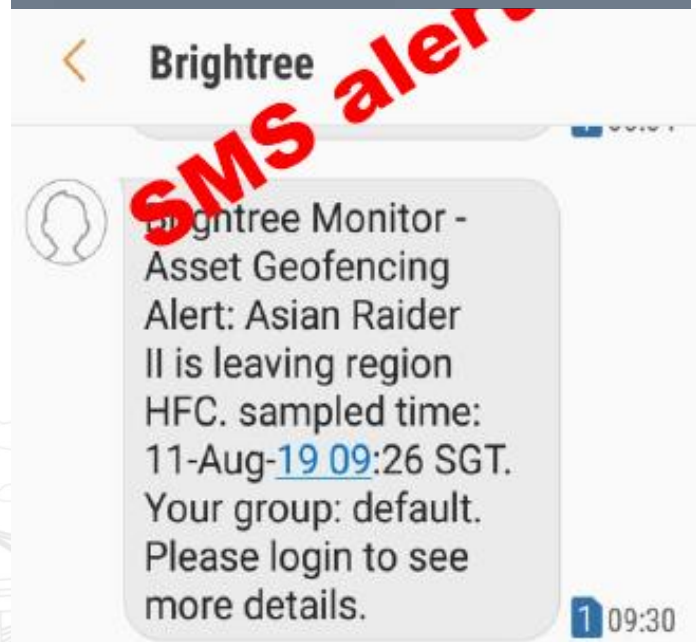


## Key Innovation 3: Geo-fencing for safety of navigation

### AUTOMATED GPS TRACKING



### AUTOMATIC ALERTS WHEN OFF-COURSE



# Moving forward



PARTNERSHIPS WITH  
STAKEHOLDERS



PUBLIC SAFETY  
AWARENESS



EMERGENCY  
PREPAREDNESS

MPA will continue to work with various stakeholders to introduce more initiatives to improve the safety of our ferries in the SOMS.



EMBRACING  
TECHNOLOGY



NAVIGATIONAL  
SAFETY





**For Information**

