

# Trap-Neuter-Release/Rehome- Manage (TNRM) Programme:

## A Humane Approach to Dog Population Management in Singapore

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National Parks Board**



World Organisation  
for Animal Health  
Founded as OIE



ANIMAL &  
VETERINARY  
SERVICE

A cluster of NParks



- Our well-being and health are inter-connected with the health and welfare of animals in our community





- 5-year programme launched on 10 Nov 2018
- Aims to sterilise 70% of the free-roaming dog (FRD) population
- A humane, science-based approach to population management
- Collaboration between AVS, Animal Welfare Groups, veterinarians and the community



- Singapore has been free from rabies since 1953.
- Vaccination of the free-roaming dog population helps increase herd immunity, minimising potential spread in the event of a rabies incursion.
- Supports rabies contingency plans





## Trap

Humane capture of FRDs



## Neuter

- Sterilise
- Vaccinate for Rabies
- Microchip
- Ear-tip



## Release/Rehome

- Rehome
- Shelter
- Foster
- Release
- Relocate



## Manage

- Work with AWGs to manage concerns
- Education & outreach



Humane capture of an FRD



TNRM signage for trapping operations



TNRM armband





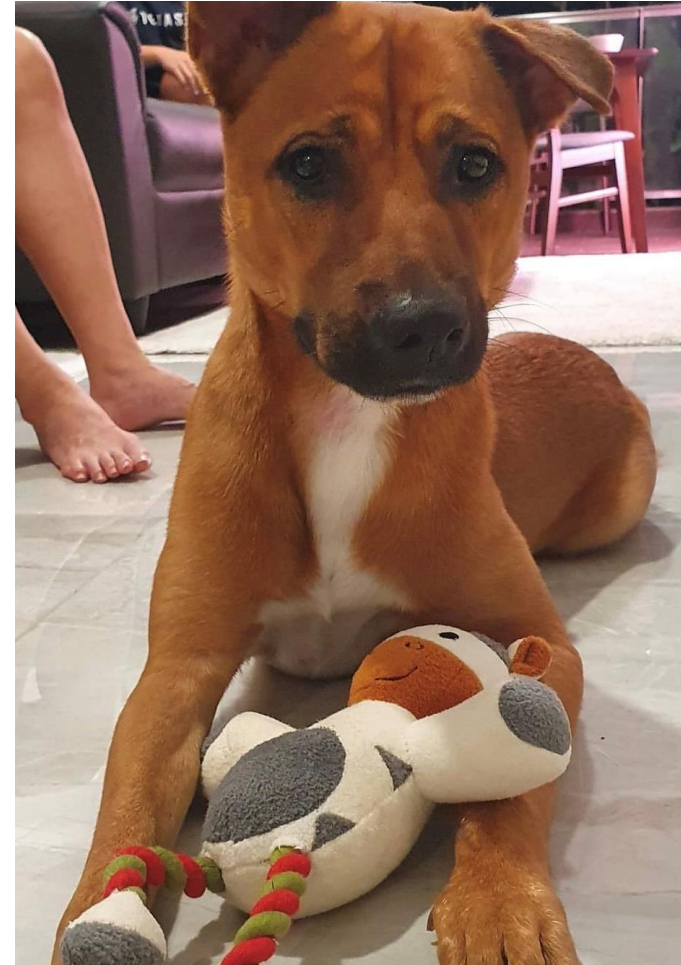
Identification of a sterilised dog by its left ear tip.



Recovery of a dog after sterilisation



- Health and behaviour assessment
- Rehomed where possible
- Released to live out their lives naturally

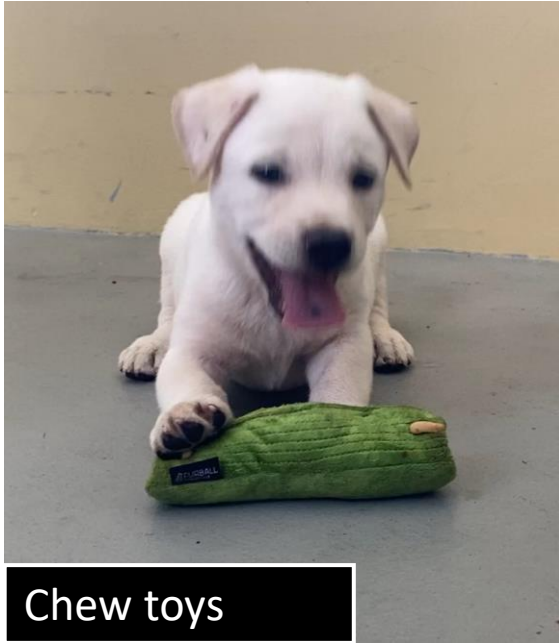




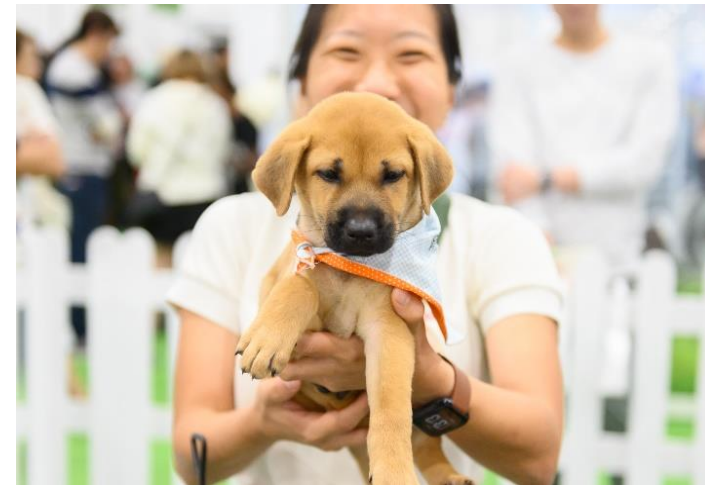
- Socialisation
- Obedience training
- Behaviour modification







- Public education, outreach and engagement through community events, roadshows, talks and walkabouts in estates
- Feedback management
- Pets' Day Out: Pet adoption, promoting rehoming and education on TNRM
- Supporting AVS Animal Welfare Group Partners' adoption drives







**WATCH OUT FOR  
STRAY DOGS**  
KEEP A DISTANCE FROM THIS AREA

## What To Do When You Encounter Stray Dogs



### Do keep your distance

Cyclists are encouraged to turn back if possible, or dismount and push your bicycle. Stray dogs are territorial and have a higher tendency to chase fast-moving objects.



### Do stay calm and move away slowly

Avoid approaching the dogs as they may feel threatened; running may cause them to give chase.



### Do not shout or whistle at the dogs

Loud noises may startle the dogs, causing them to attack; whistling may encourage the friendlier ones to give chase.

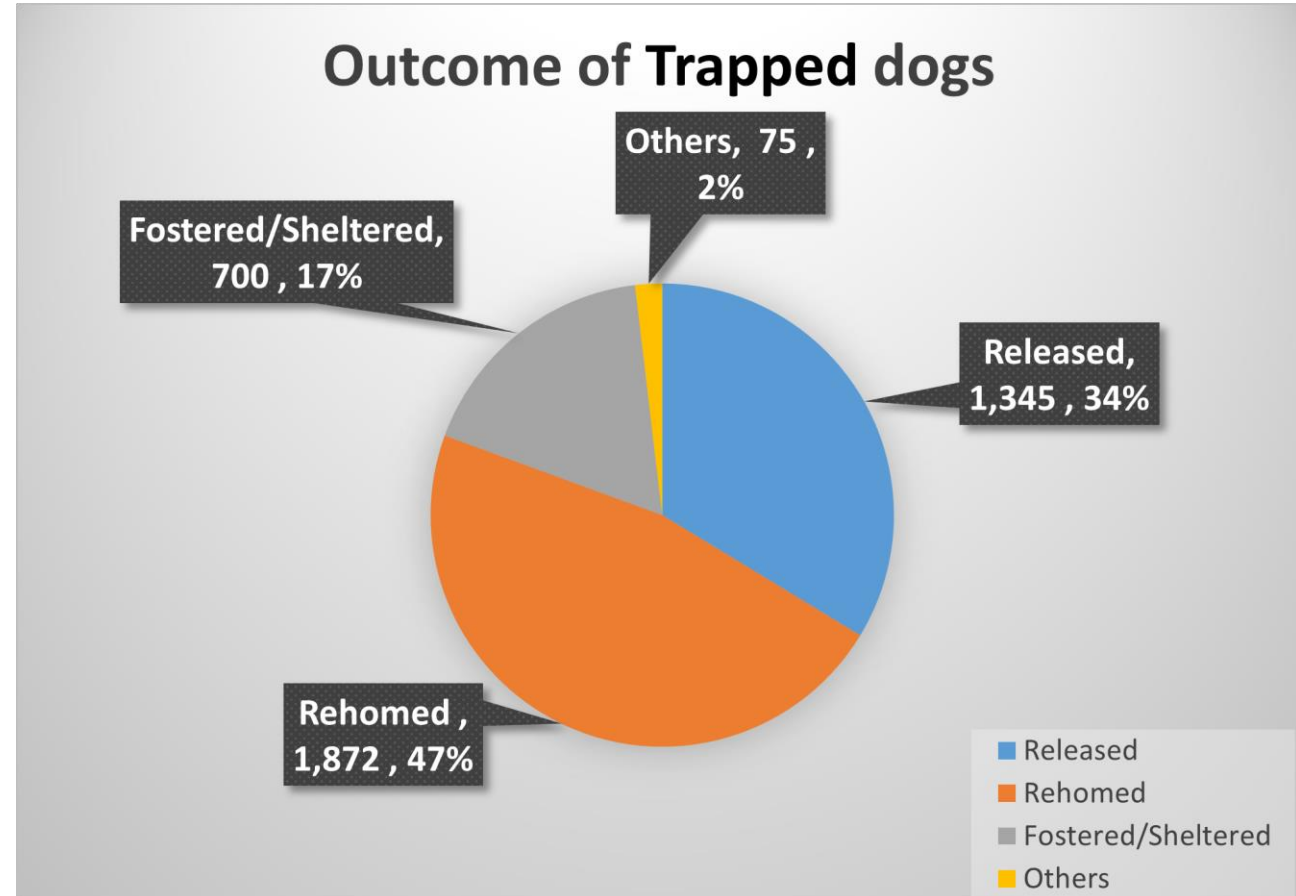


### Do not stare at or provoke the dogs

The dogs may feel threatened by eye contact or sudden movement.

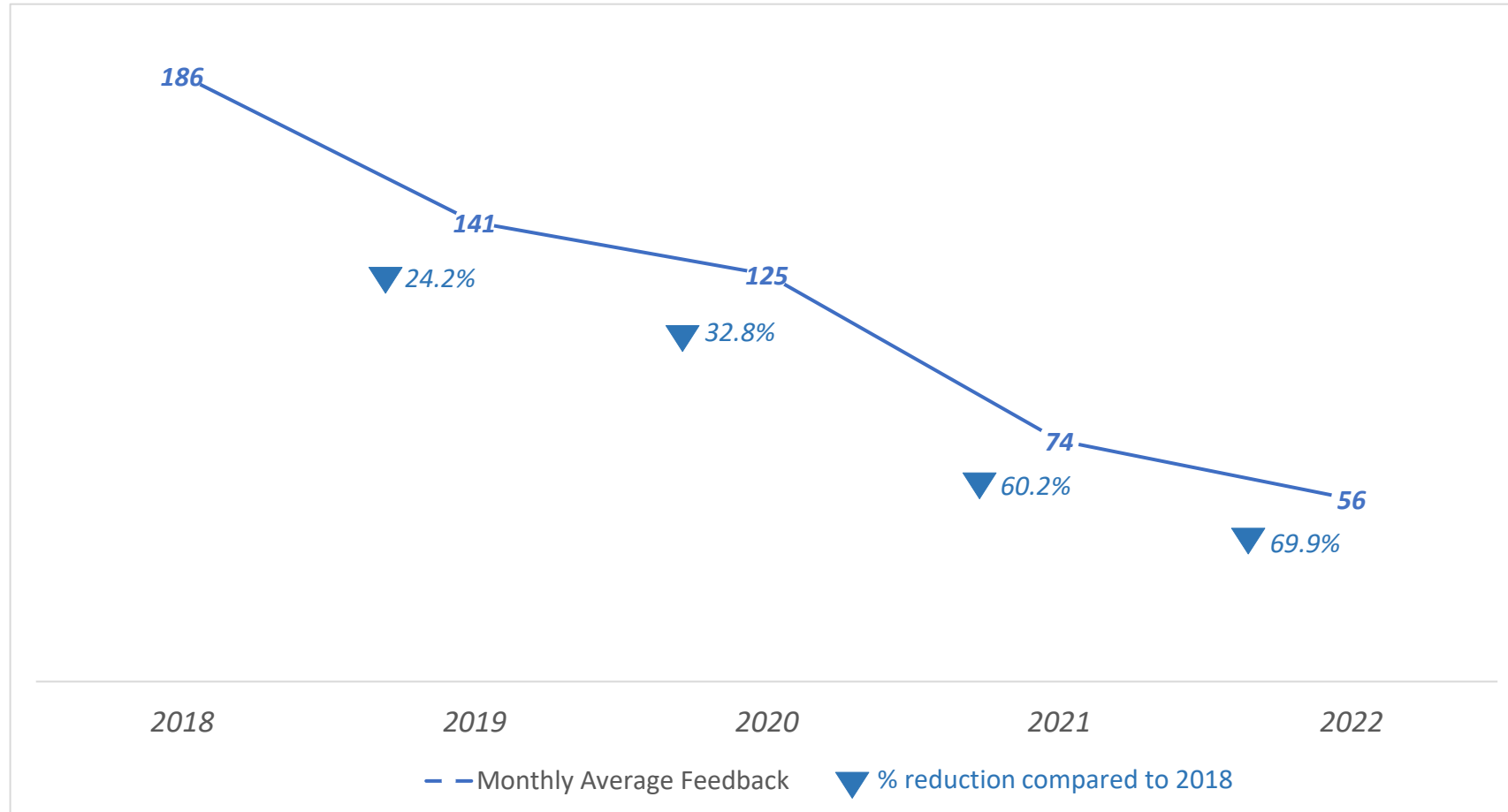
The Animal & Veterinary Service is managing stray dogs as part of the nationwide Trap-Neuter-Release-Manage programme.

- Since its launch in Nov 2018:
- Almost 4,000 dogs trapped (as of Aug 2023)
- >60% rehomed/ fostered





- General downward trend in average monthly feedback from 2018 to 2022





- Trapping of elusive, trap-shy dogs for sterilisation
- Managing human-dog interactions in a highly urbanized environment
- Allaying concerns from public and AWG partners on research methods and assuring them that the safety and welfare of dogs are taken care of





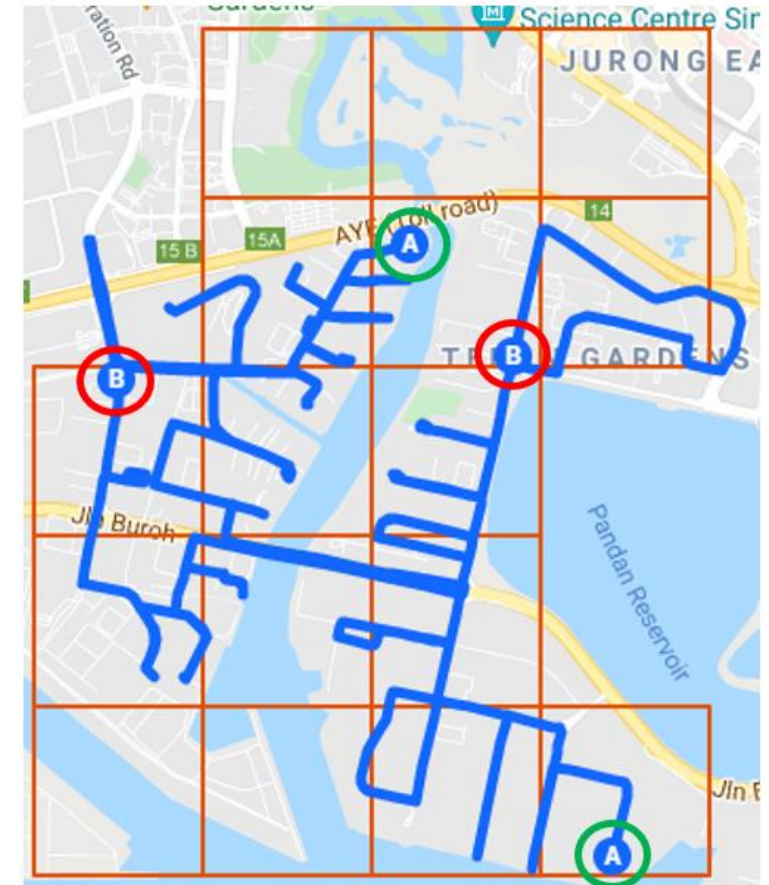
- To determine FRD populations at hotspots



Taking pics: Left to Right - Right side face/body, left side of face/body, front view, back view. **Male, Adult, Entire.**



IDing an entire/neutered female: Left to Right - Take note/pics of the vulva, ear tip, and nipples. **First 3 pics: entire female, last 3 pics: neutered female.**

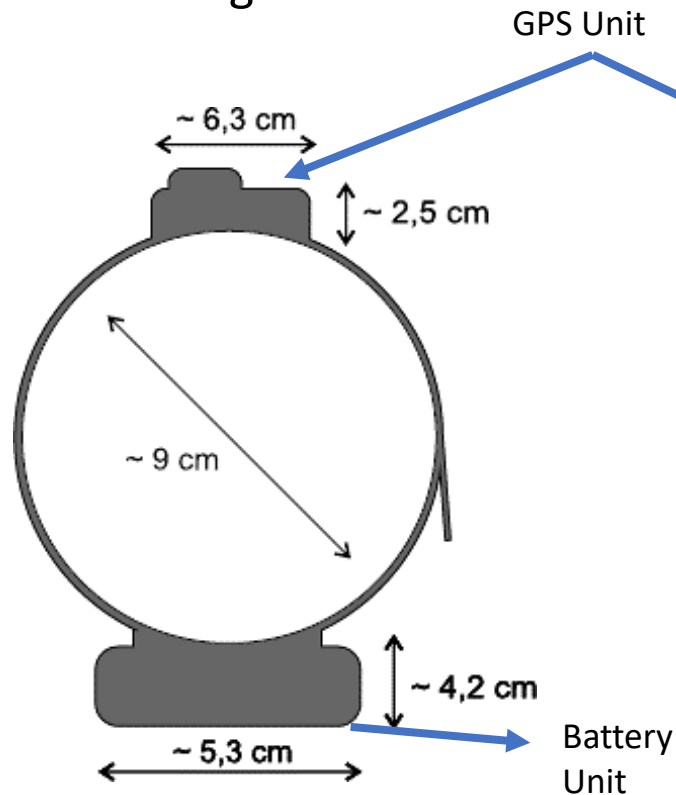




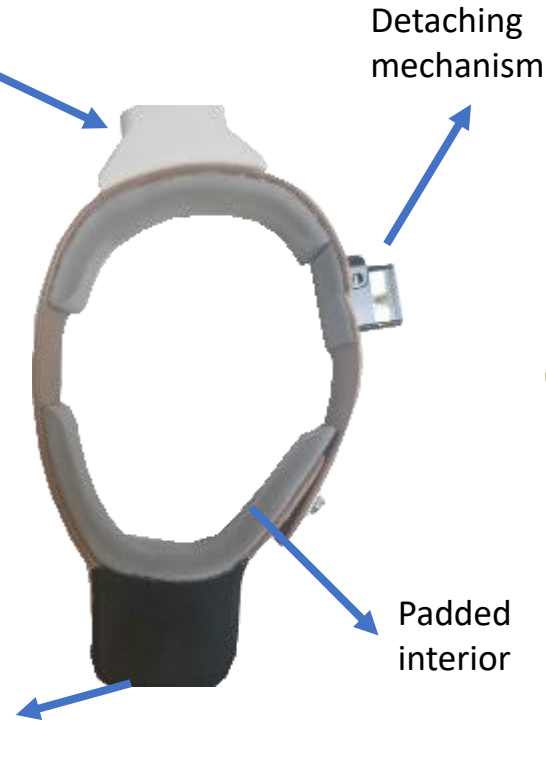
- To determine movement, inter- and intra-pack interactions of FRDs at industrial and forested areas



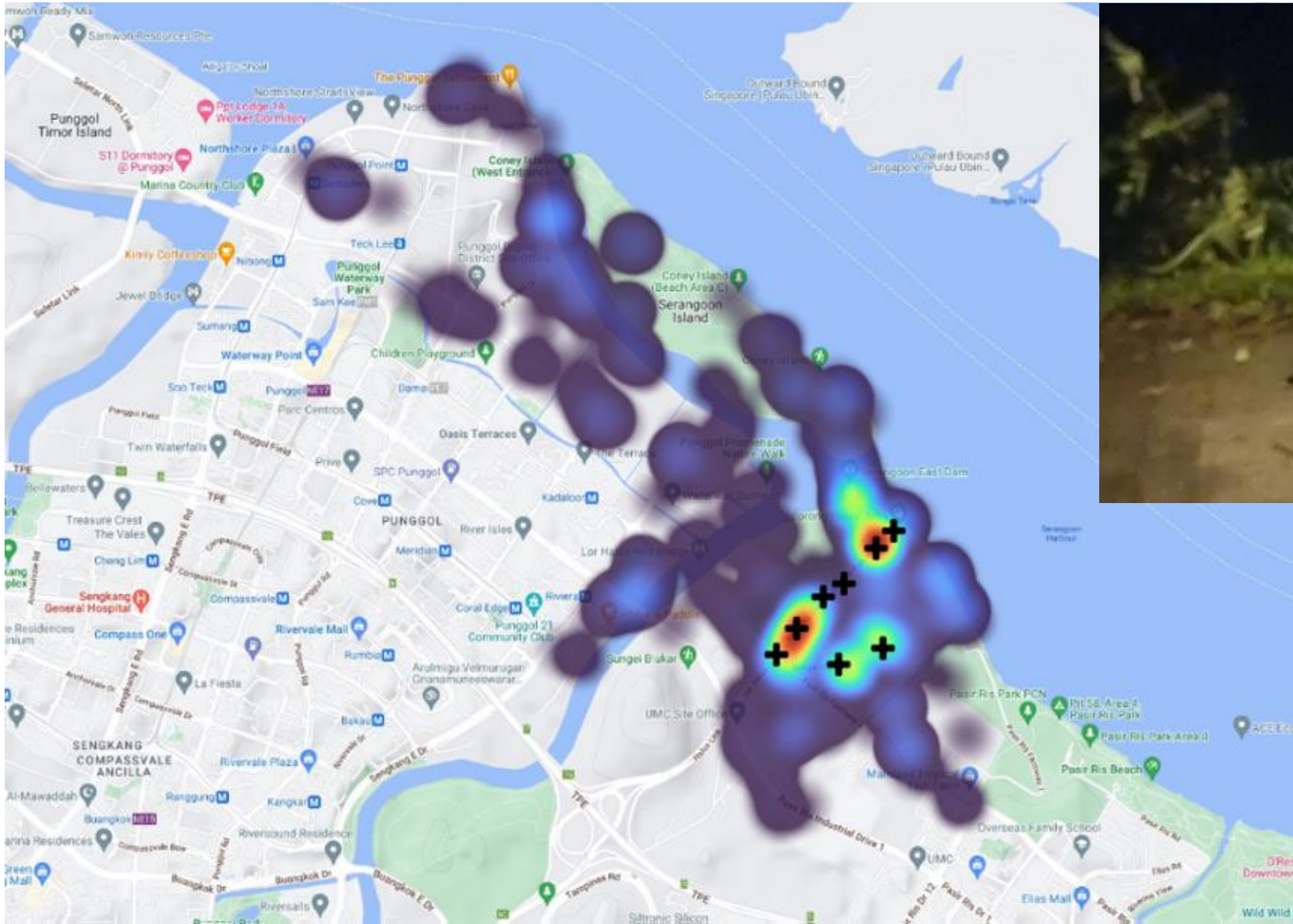
E-Obs GPS collar on semi-owned dogs



LOTEK Satellite collar on unowned dogs







✖ = Feeding Points



## Animal Welfare Groups and the community



## Government Agencies



People's Association

## Industry professionals (veterinarians, dog trainers)





<http://bit.ly/avsdosndonts>



- Dog body language
- Free-roaming dog encounters



<http://bit.ly/avstnrm>



- TNRM Infographic





# Thank you!

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