



## Innovative Urban Wildlife Management with Drones on Stockholm's beaches CITYAM – Preparing cities for urban air mobility

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⌚ 16:45 – 18:15

### SPEAKERS

Johanna Löfblom, City of Stockholm



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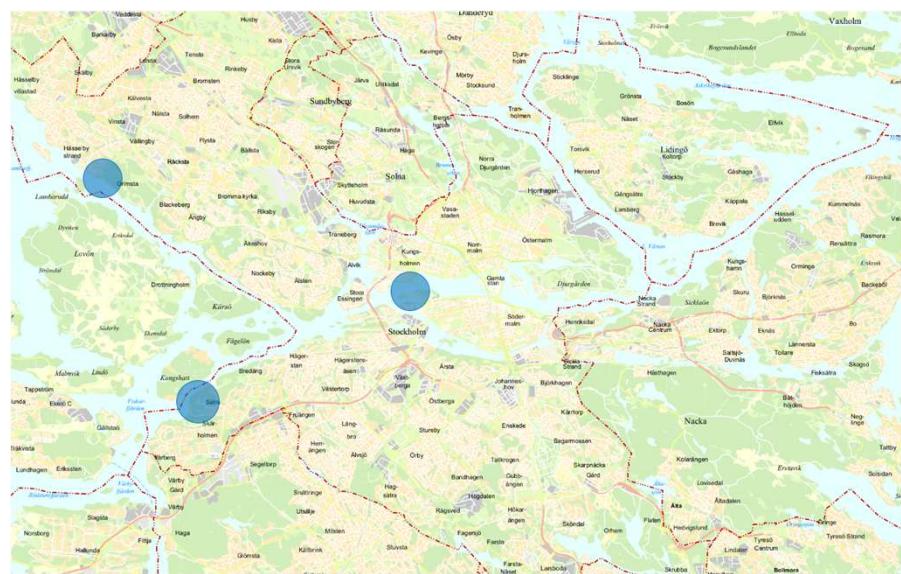
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# The Stockholm Pilot:

## Overview

- Purpose:** Test AI-enabled drones for herding canada and barnacle geese on 3 public beaches
- Period:** Conducted during summers 2023, 2024 and 2025
- Partners:** City of Stockholm (City council, traffic administration, 3 district councils), Kista Science City and Flox Robotics AB.



# How it worked

- Operated under VLOS (Visual Lines of Sight) conditions by 6 pilots
- AI equipped drones used species-specific sounds to herd goose
- AI tracking adapted herding patterns on the goose behavior
- Citizens engaged via QR-coded signage linking to a feedback form for questions, concerns, feedback or "Hey, it's goose here now!"



# Key results (from 2024)

- **7,614** geese observed
- **7,225** successfully herded (95% deterrence efficiency)
- **287** citizen interactions recorded via digital feedback (almost only positive interactions)
- Strong public awareness and acceptance of drone operations!

*"They are in the middle of the beach, on the sand and on the grass"*

*"Appreciate this feature.  
Great job 😊"*

*"There were about 10-20 Canada geese at the north end of Sätra beach, seen quickly"*

*"Good that you're trying to tackle the goose problem!"*

*"Thanks for this service!"*

*"Send a drone fast"*

*"Fewer geese than last year – back then they were settled on the beach almost around the clock"*

*"Hi! What a great job you're doing. I work as an UX designer, which means that I focus on, among other things, making information easier to find and understand. That information needs to be made more accessible and visible. It's a bit hidden, if you ask me."*

# Lessons learned

- Continuous citizen engagement is essential for acceptance
- Automation via dock-based systems could reduce staffing needs
- Reliable 24/7 electricity at beach sites required
- Better signage and communication for citizens
- Explore water quality monitoring for environmental impact



# Key takeaways

1. Ethical, species-specific, and publicly accepted approach
2. Demonstrated drone potential as a municipal service
3. Future: automation, continuous citizen engagement, environmental monitoring
4. Helping humans and wildlife coexist

