

A sunset over an airport runway. The sun is a bright yellow circle on the left side of the frame. In the center, an airplane is silhouetted against the orange sky, appearing to be on a runway or taxiway. In the foreground, there is a dark silhouette of a fence with several vertical posts and horizontal rails. The overall scene is bathed in the warm, orange light of the setting sun.

A Holistic Approach to Wildlife Risk Assessment

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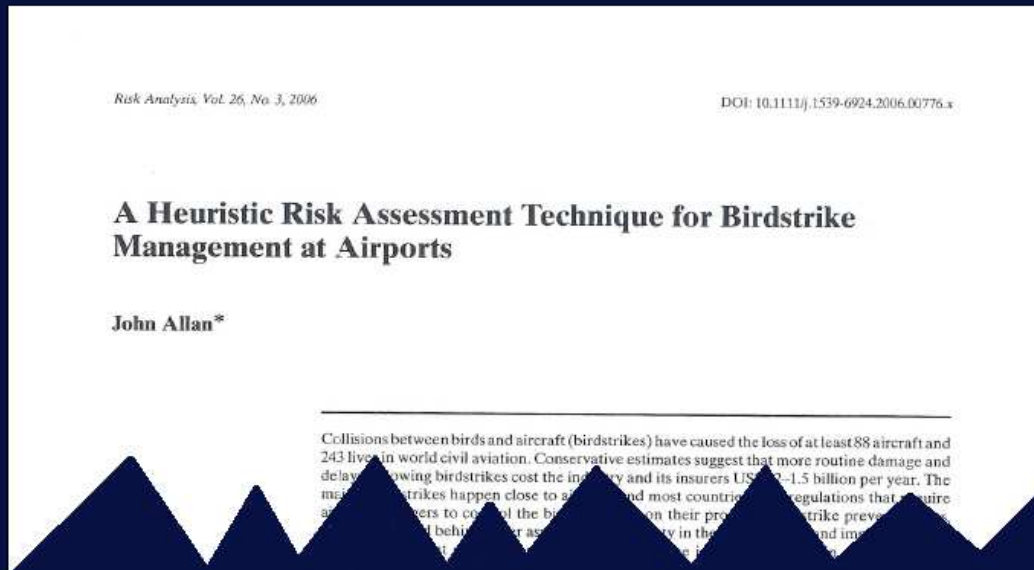
Wildlife Manager at Copenhagen Airports A/S



*“The only true wisdom is in knowing
you know nothing”*

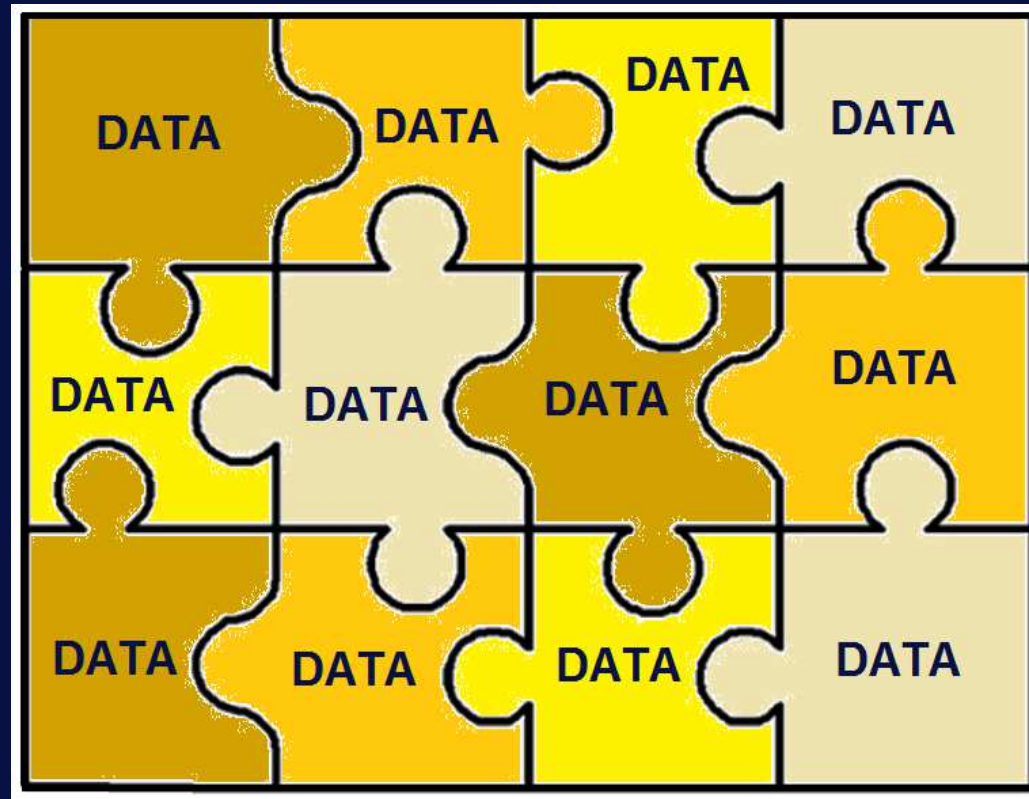
- Socrates

Risk Assessment Matrix



Severity / Probability	Very high	High	Moderate	Low	Very low
Very high			Barnacle goose	Greylag goose	Canada goose Grey heron Osprey Mute swan Great blackbacked gull Whitetailed eagle* Cormorant*
High		Herring gull	Roughlegged buzzard Mallard Common buzzard	Shelduck	Eurasian wigeon Pochard Redbreasted merganser Tufted duck
Moderate		Wood pigeon	Crow	Hen harrier Marsh harrier Rook	Hooded crow Caspian tern Peregrine falcon
Low	Kestrel	Shorteared owl Common gull	Merlin Domestic pigeon	Golden plover Blackheaded gull Longeared owl Woodcock Sparrow hawk	Partridge Jackdaw Magpie Tawny owl Mediterranean gull Lapwing
Very low		Barn swallow Swift Skylark Starling	House martin Meadow pipit Song thrush	Chaffinch Sand martin Nightjar Blackbird Wheatear Ringed plover Redwing	Dunlin Twite Ruff Goldcrest Common chiffchaff Brambling Willow warbler Linne Mistle thrush (Budgerigar)

Risk Assessment Puzzle



Bird Controller Data

- Date & time
- Species
- Location on airfield
- Movement direction
- Behaviour
- Attractant
- Mitigation action



Common Buzzard



Red risk level

Wood pigeon



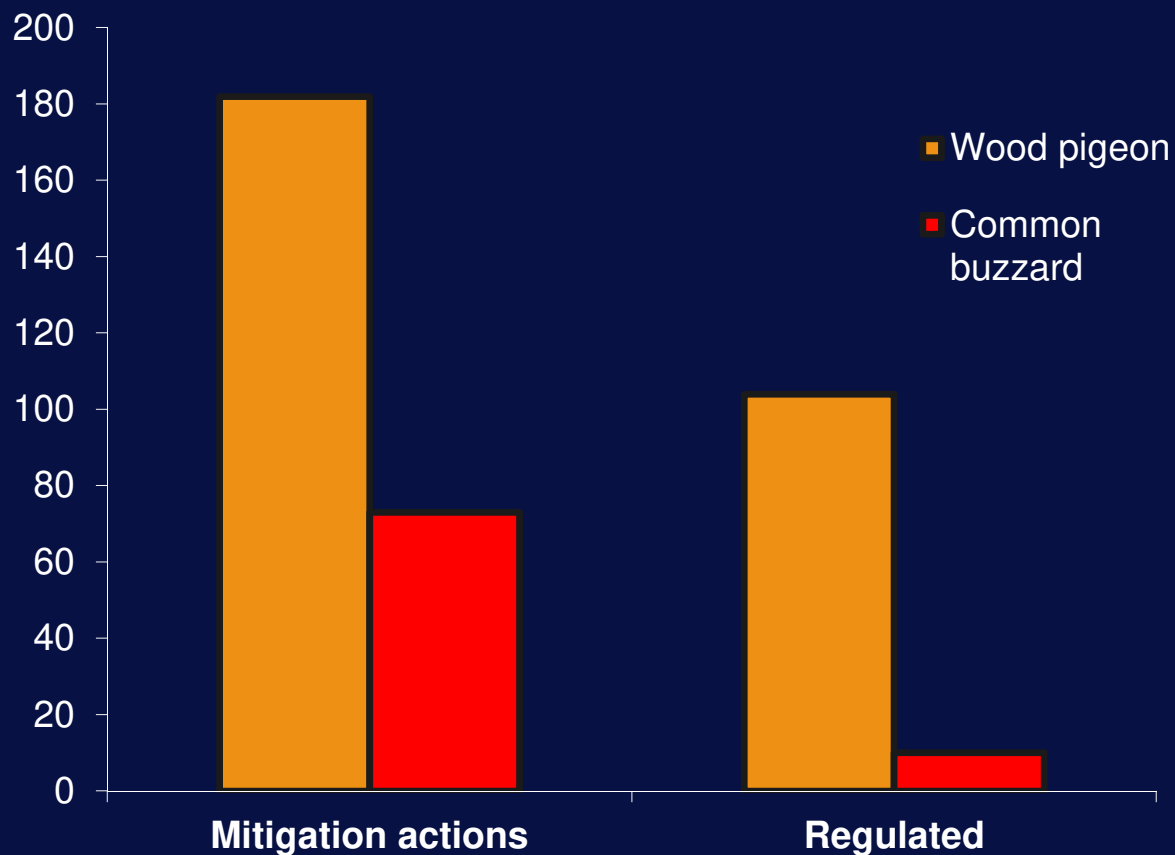
Orange risk level

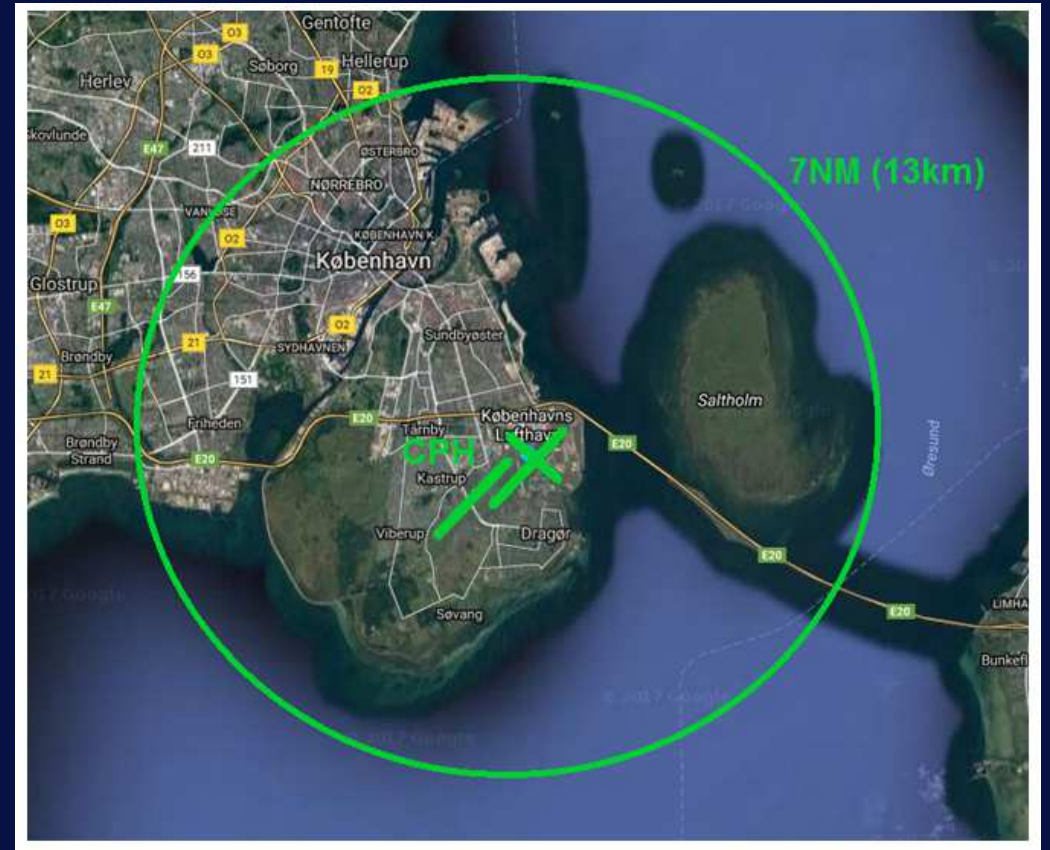
Common Buzzard vs. Wood Pigeon in 2016

Observed individuals:

Common buzzard 123

Wood pigeon 20.350

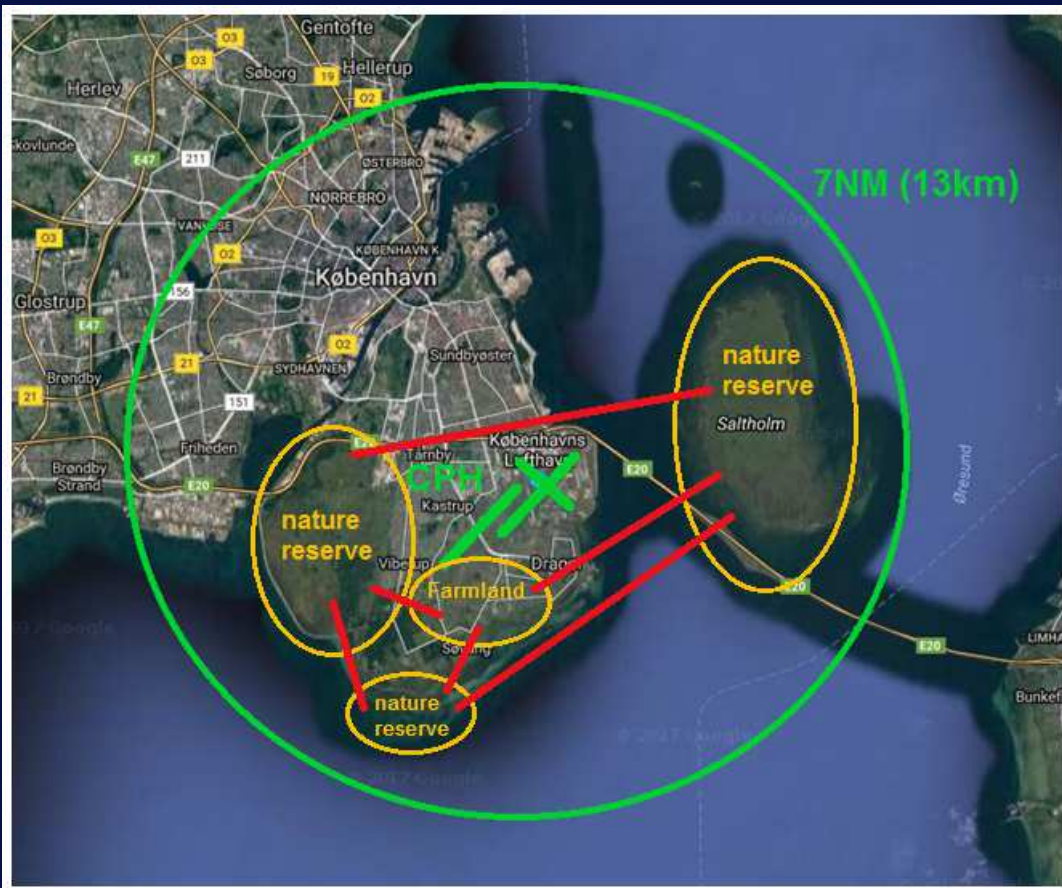








Movement Patterns



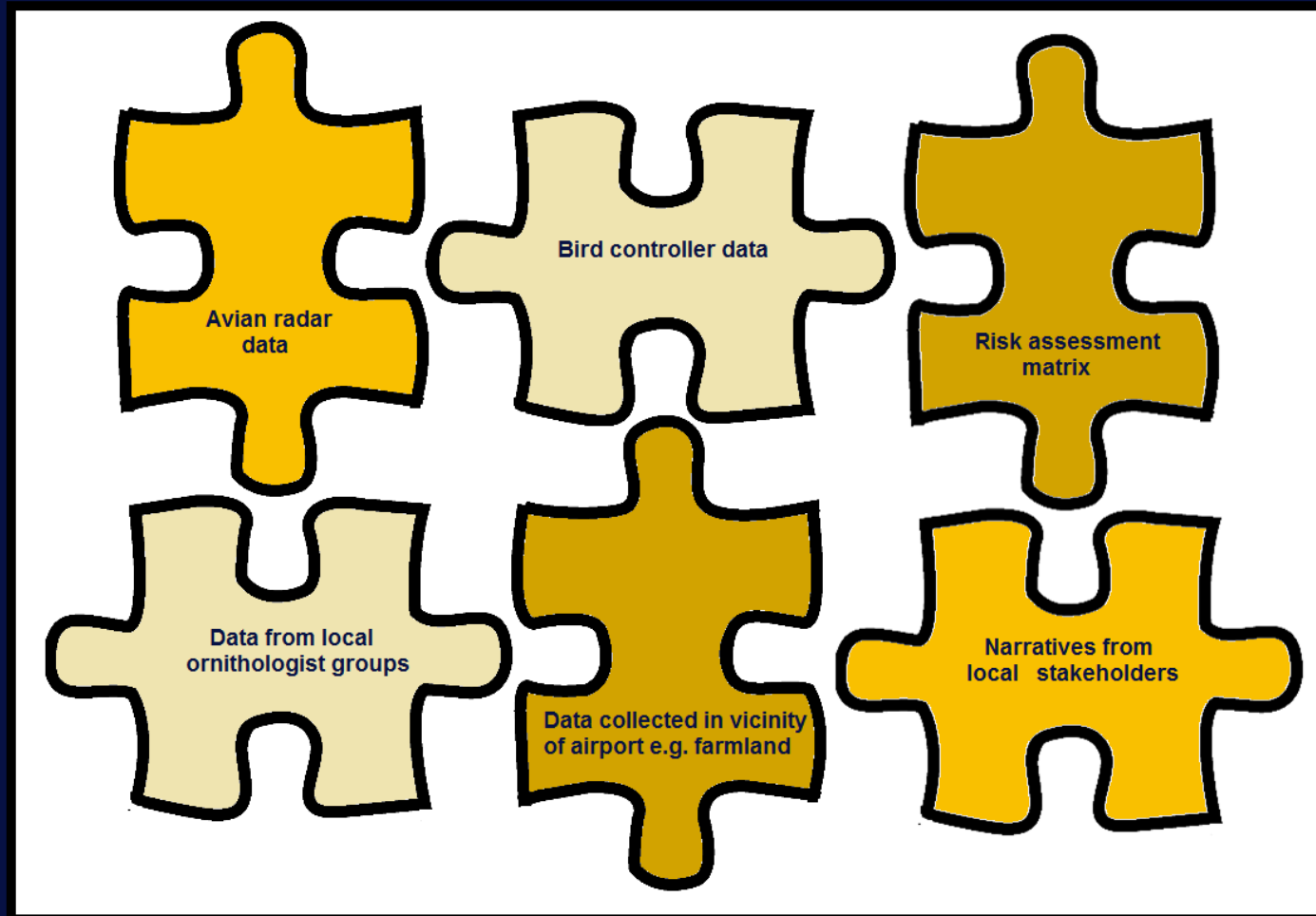
3D Avian Radar



Citizen Science



Risk Assessment Puzzle



Thank you for your attention.

Camilla Rosenquist
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