

PA82

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UrBio: a Citizen Science Project

1. Introduction

- Urban biodiversity significantly influences environmental health, human well-being and ecosystem services in cityscapes.
- Cities host diverse synanthropic communities of species.
- Exponential urbanization and environmental changes might have negative effects on animal communities, leading to a dramatic decline in populations.
- Understanding key factors affecting species distribution and trends is crucial for safeguarding urban biodiversity.



2. Objectives

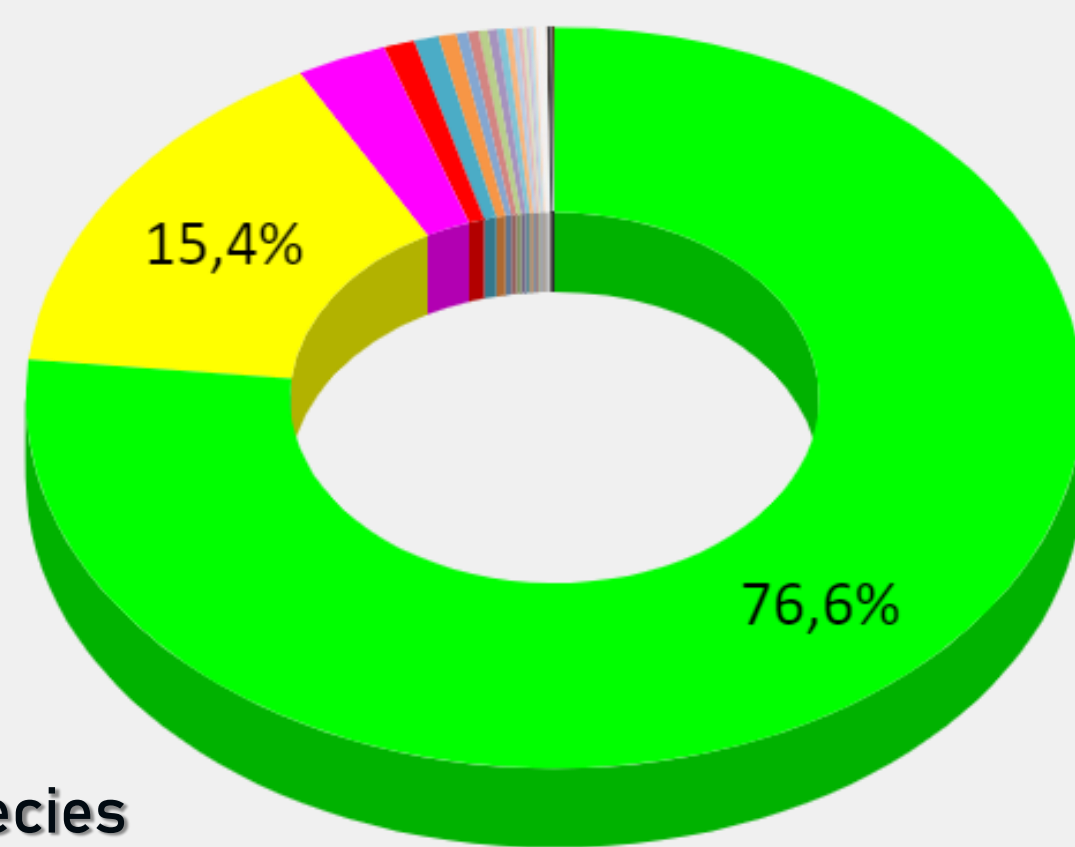
- The project involves citizen scientists in collecting standardized data on key urban species and communities in Italy.
- This data assesses species distribution and abundance, identifies factors shaping communities, and considers both anthropic and environmental influences.
- The findings unveil urban drivers impacting biodiversity across cities.

3. Methodology

- Monitoring Areas: urban centers with 10,000+ inhabitants
- UrBio Scheme: different animal taxa
- AviUrb Scheme: census of breeding birds
- Passer Scheme: focused on Italian sparrow



4. Results: Exotic species



- 32 Exotic species
- 4525 observations

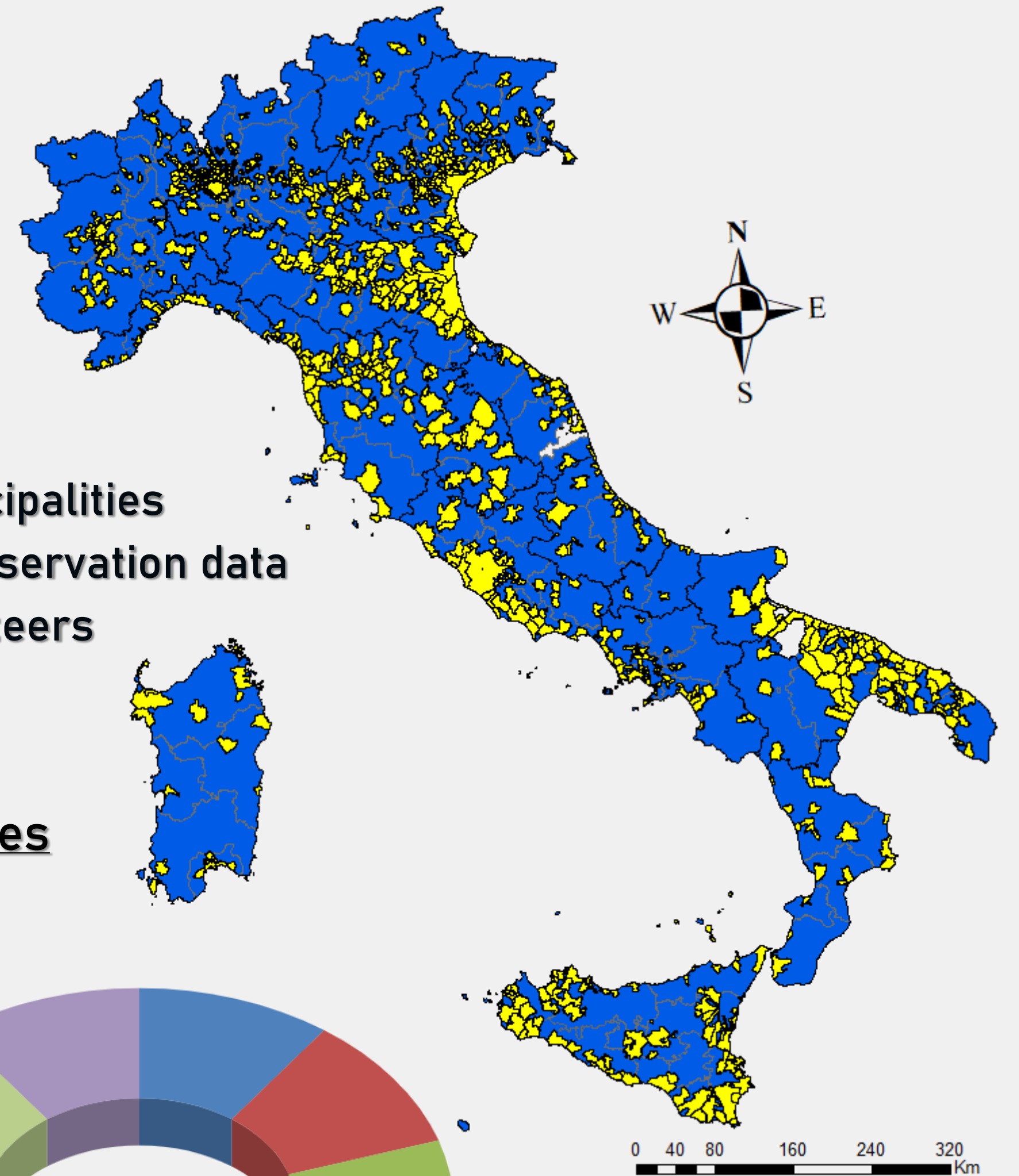
- Psittacula krameri*
- Threskiornis aethiopicus*
- Alopochen aegyptiaca*
- Anser cygnoides domesticus*
- Leiothrix lutea*
- Cairina moschata*
- Acridotheres tristis*
- Melospittacus undulatus*
- Aix sponsa*
- Callonetta leucophrys*
- Amazona aestiva*
- Calopsitta*
- Branta canadensis*
- Anser indicus*
- Euodice malabarica*
- Anser cygnoides*
- Anser cygnoides*
- Branta leucopsis*
- Other 14

5. Future perspectives

- Expand participant base for broader city coverage
- Establish ongoing urban biodiversity monitoring
- Involve the public, fostering a community of citizen scientists
- Analyze data to model biodiversity variations
- Influence policy for greener, biodiversity-friendly urban environments

4. BIRD Preliminary Results

- 1102 Municipalities
- 272675 observation data
- 1101 volunteers



4. Results: Uncommon species

- Egretta gularis*
- Aquila fasciata*
- Pyrrhocorax pyrrhocorax*
- Aythya marila*
- Melanitta nigra*
- Dendrocygnes medius*
- Prunella collaris*
- Thalasseus bengalensis*
- Gavia immer*
- Sylvia cantillans*



4. Results: Frequent species

