

## UNEARTHING CEMETERIES: 'A META-ANALYSIS OF VASCULAR FLORA IN URBAN CEMETERIES

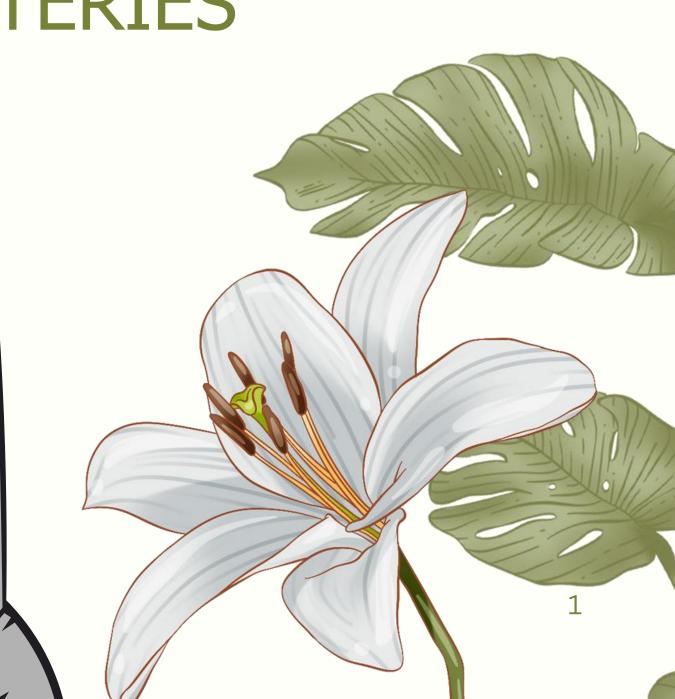


Erika Puglisevich

Fabrizio Buldrini

Gianmarco Tavilla

Sandro Lanfranco



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#### AGENDA

Introduction

Selection of Studies

Trends of Studies

Preliminary Analysis

Next Step

### Why Cemeteries?





## With extensive urbanisation and loss of species, cemeteries are possible urban green areas which can act as refuges for vascular plants

EU Nature Restoration Law

CORINE Land Cover
Classification

Green Infrastructure Recognition



#### To explore how regional environmental factors shape cemetery floral diversity

To explore the consistency of cemetery flora as biodiversity reservoirs across urbanized regions worldwide



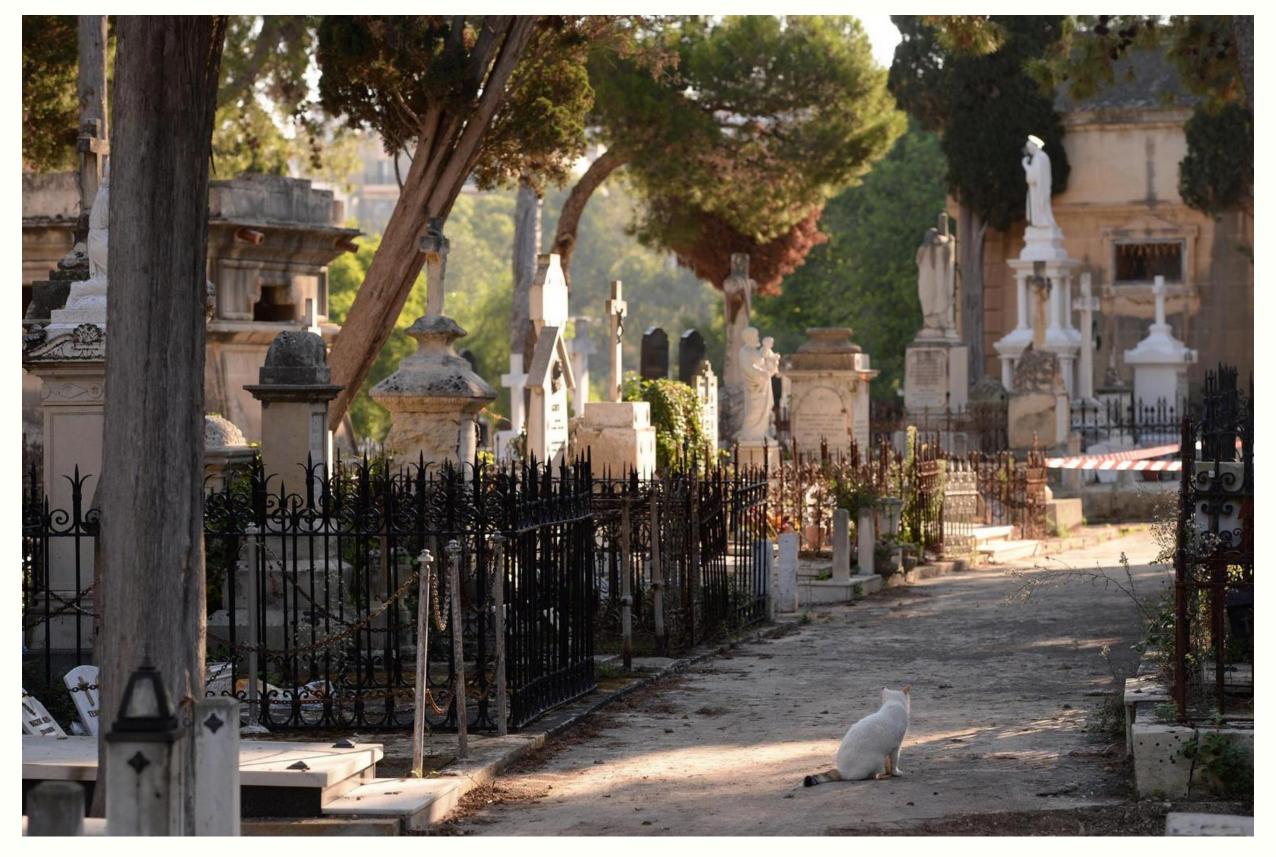


To quantify regional variation in the richness and composition of vascular flora in cemeteries

# Types Of Cemeteries



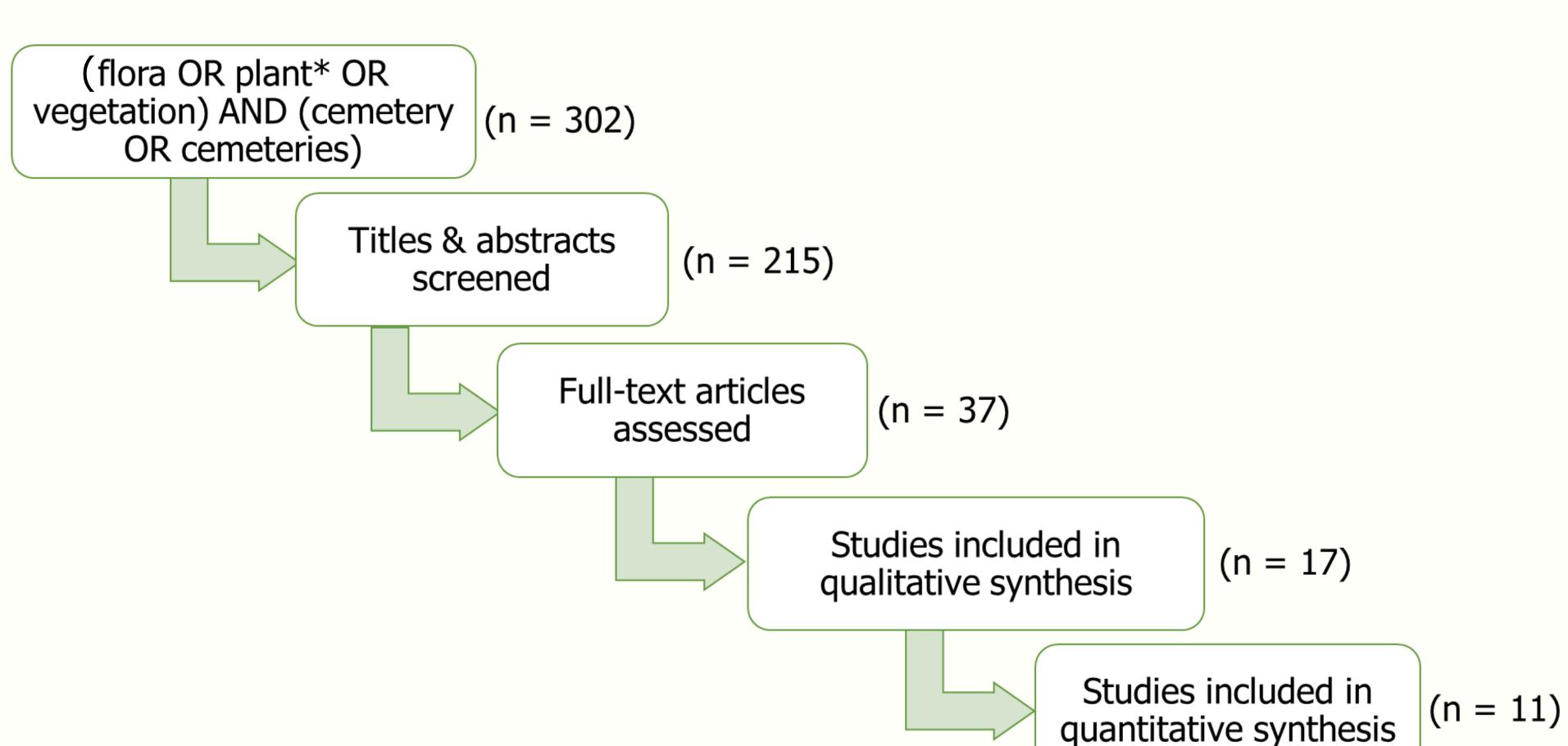
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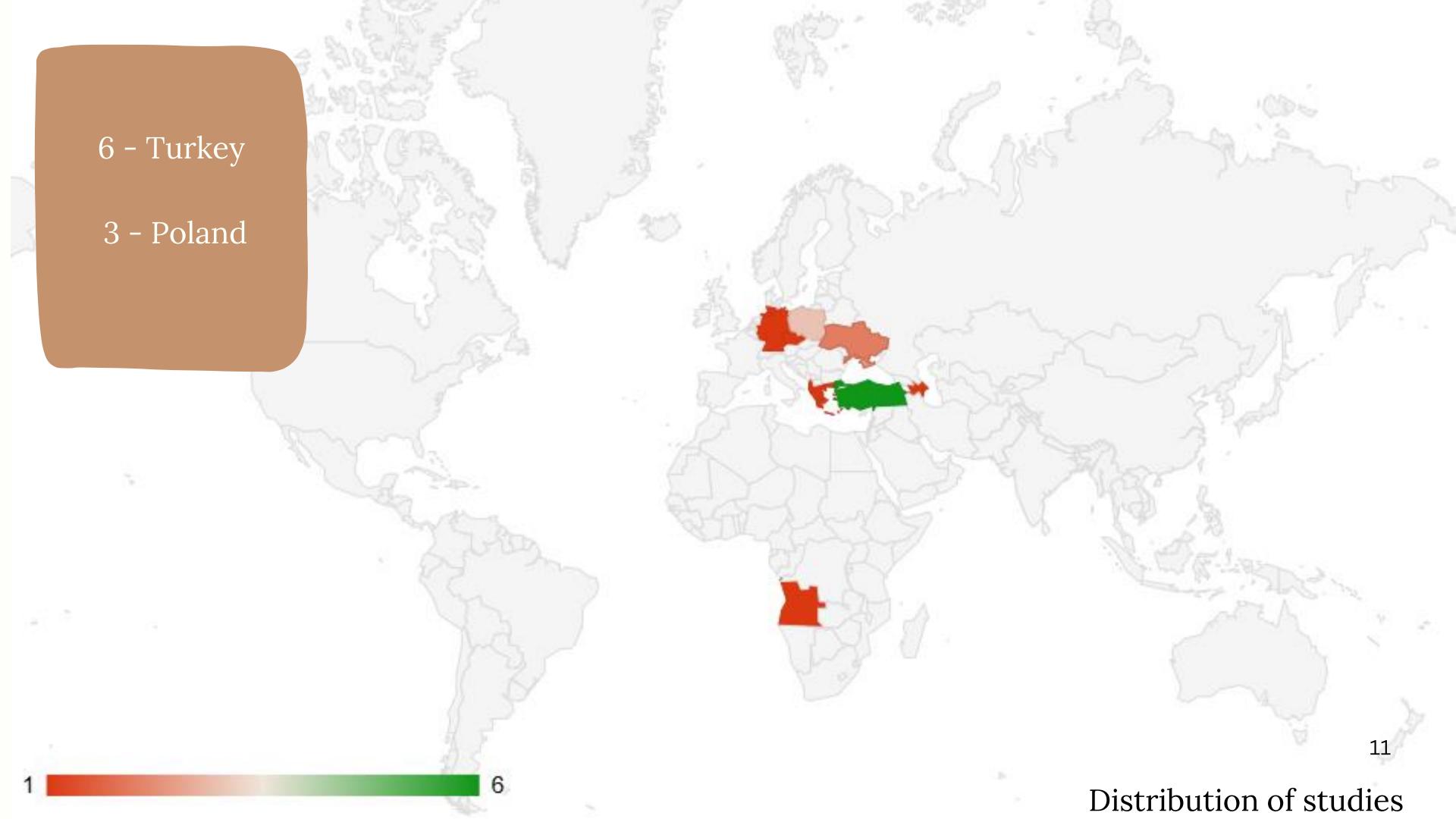


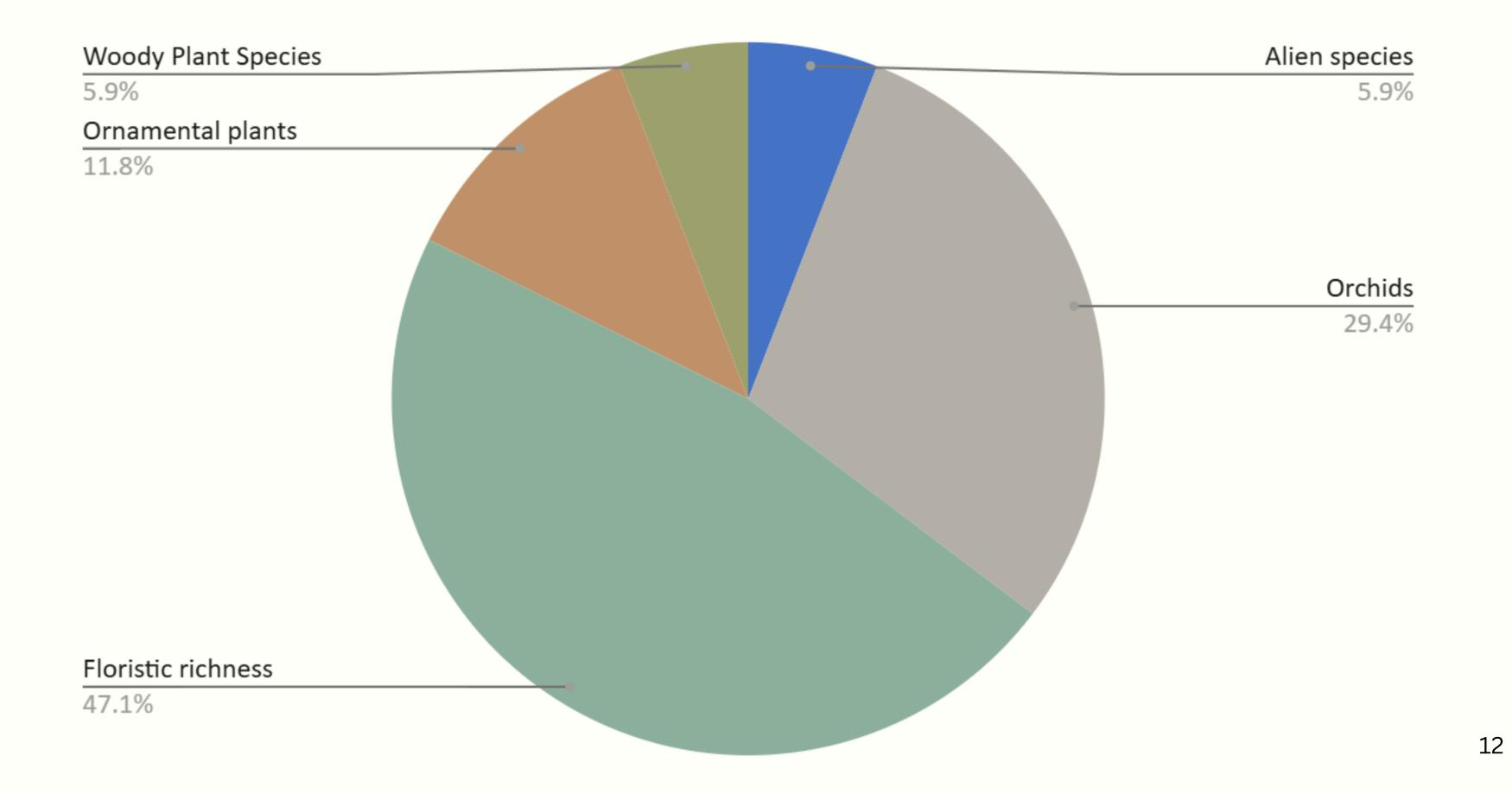
Calleja, C. (2024, June 21). Seven secrets from the Addolorata Cemetery. Times of Malta. https://timesofmalta.com/article/seven-secrets-from-

the-addolorata-cemetery.745440

# PRISMA Workflow





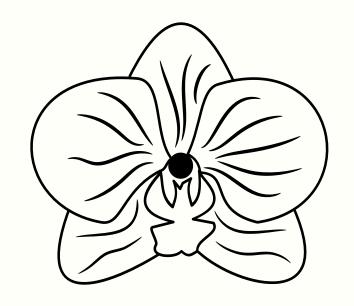


### Analysis



#### Full Species List

Turkey (1 cemetery)
Poland (78 cemeteries)
Ukraine (13 cemeteries)
Germany (1 cemetery)



#### Orchid List

Azerbaijan (96 cemeteries)
Turkey (316 cemeteries)
Albania (166 cemeteries)
Germany (1 cemetery)

### Orchids



#### High species richness and abundance

- High elevation and latitude
- Low management
- Older cemeteries with ecological continuity

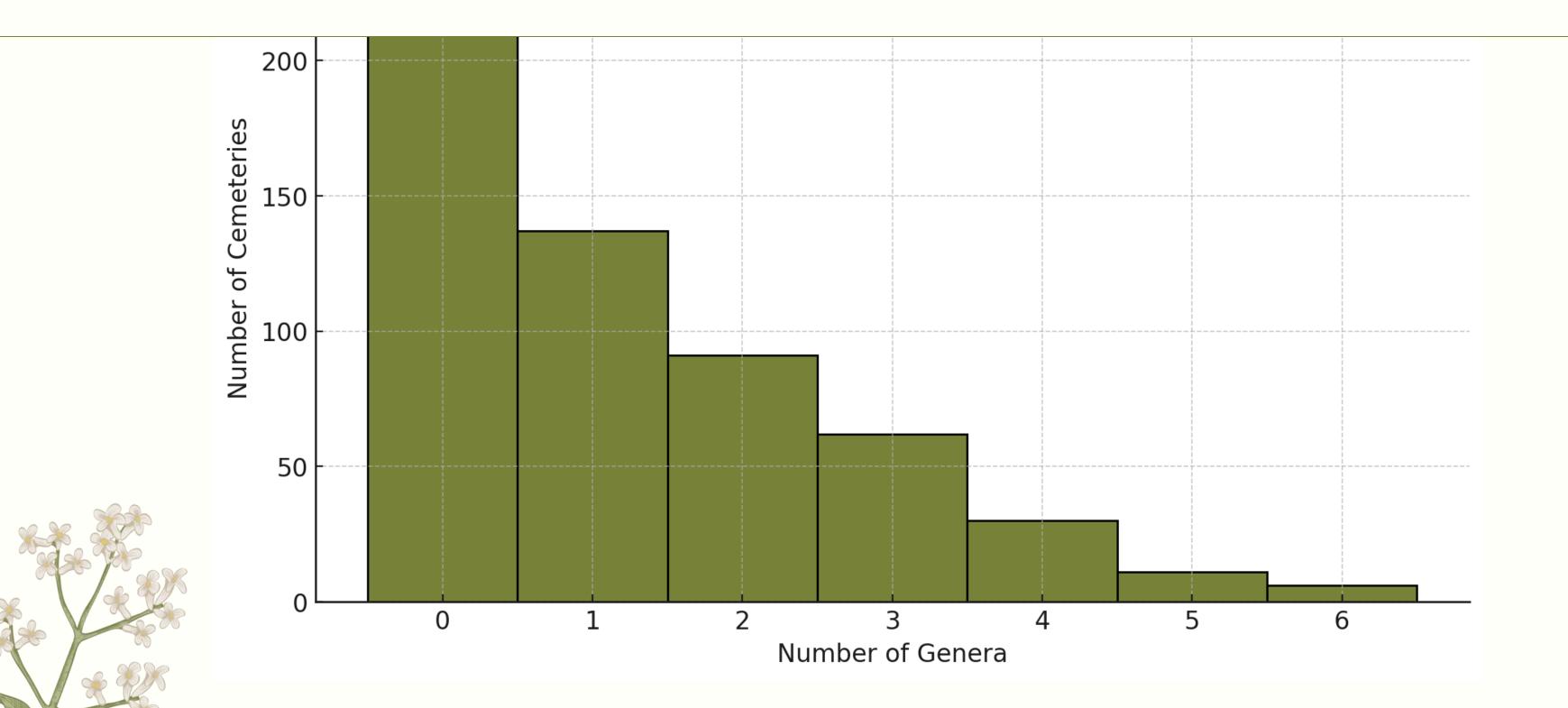


#### Low species richness and abundance

- Intensive human disturbance
- Lack of tree cover or habitat complexity
- Young cemeteries

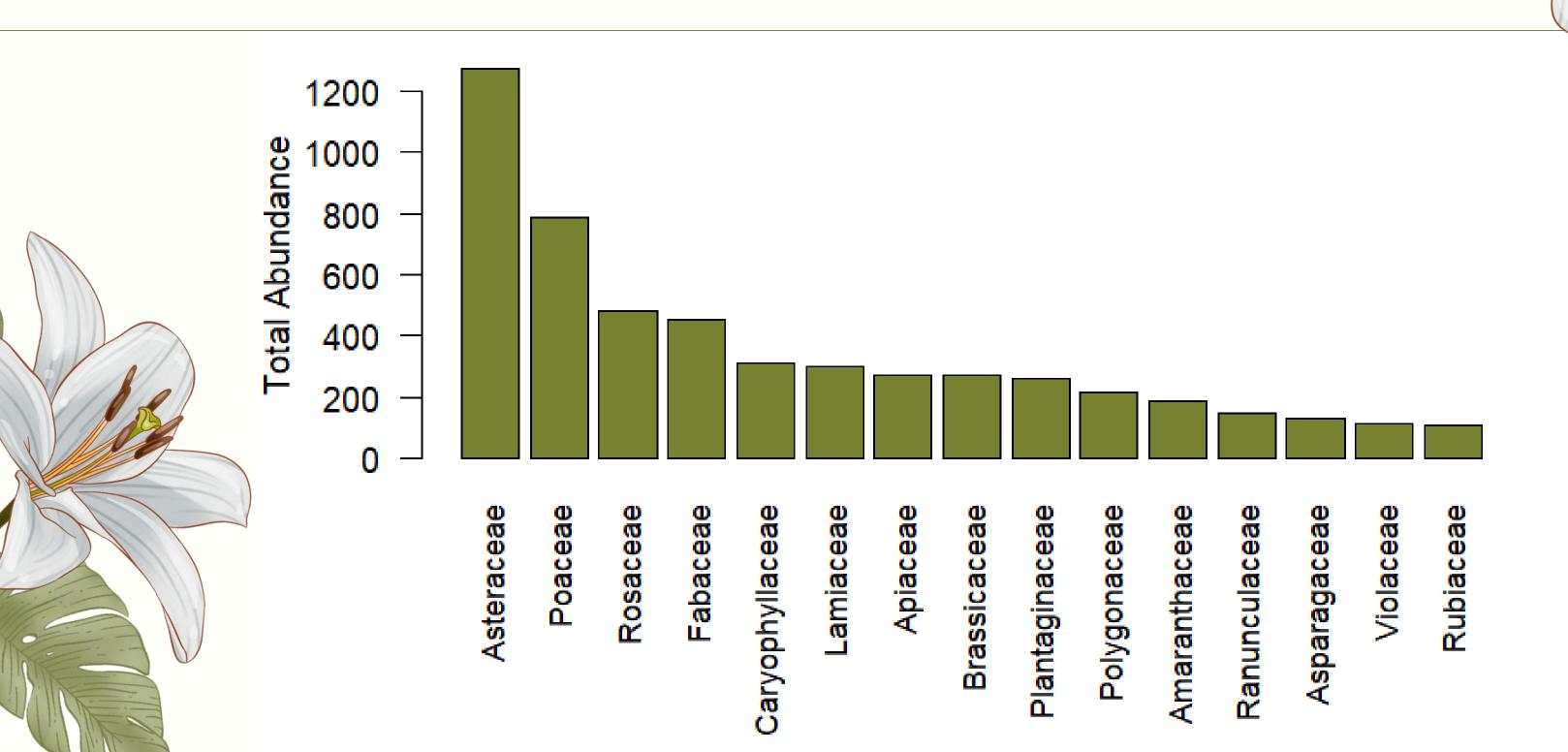


## Total Number Of Distinct Species Per Genus Across Surveyed Sites

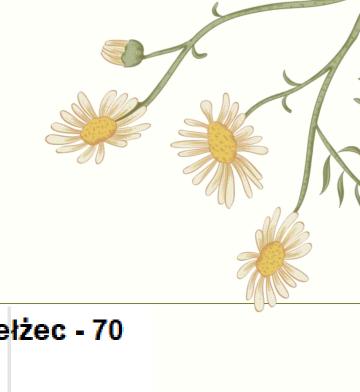


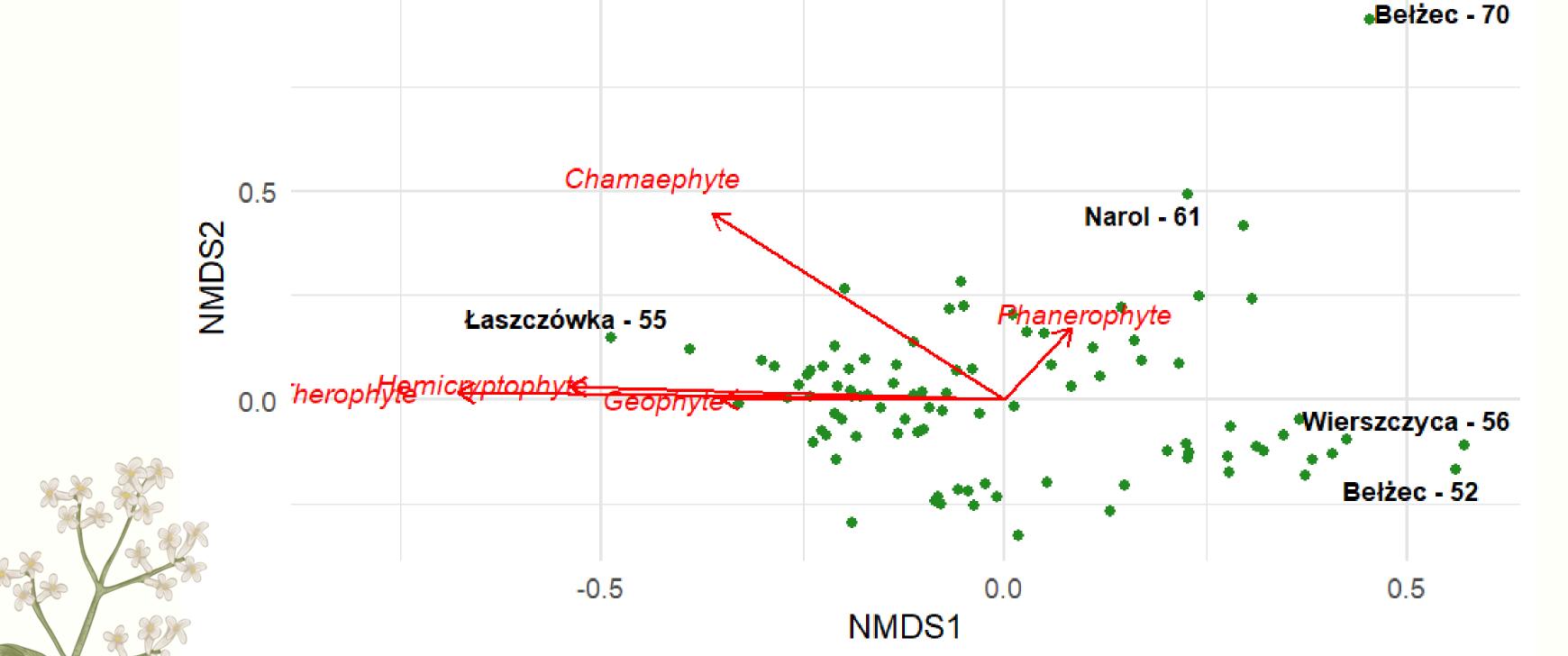
# Floristic Inventory

## Representation Of Families Across Cemeteries

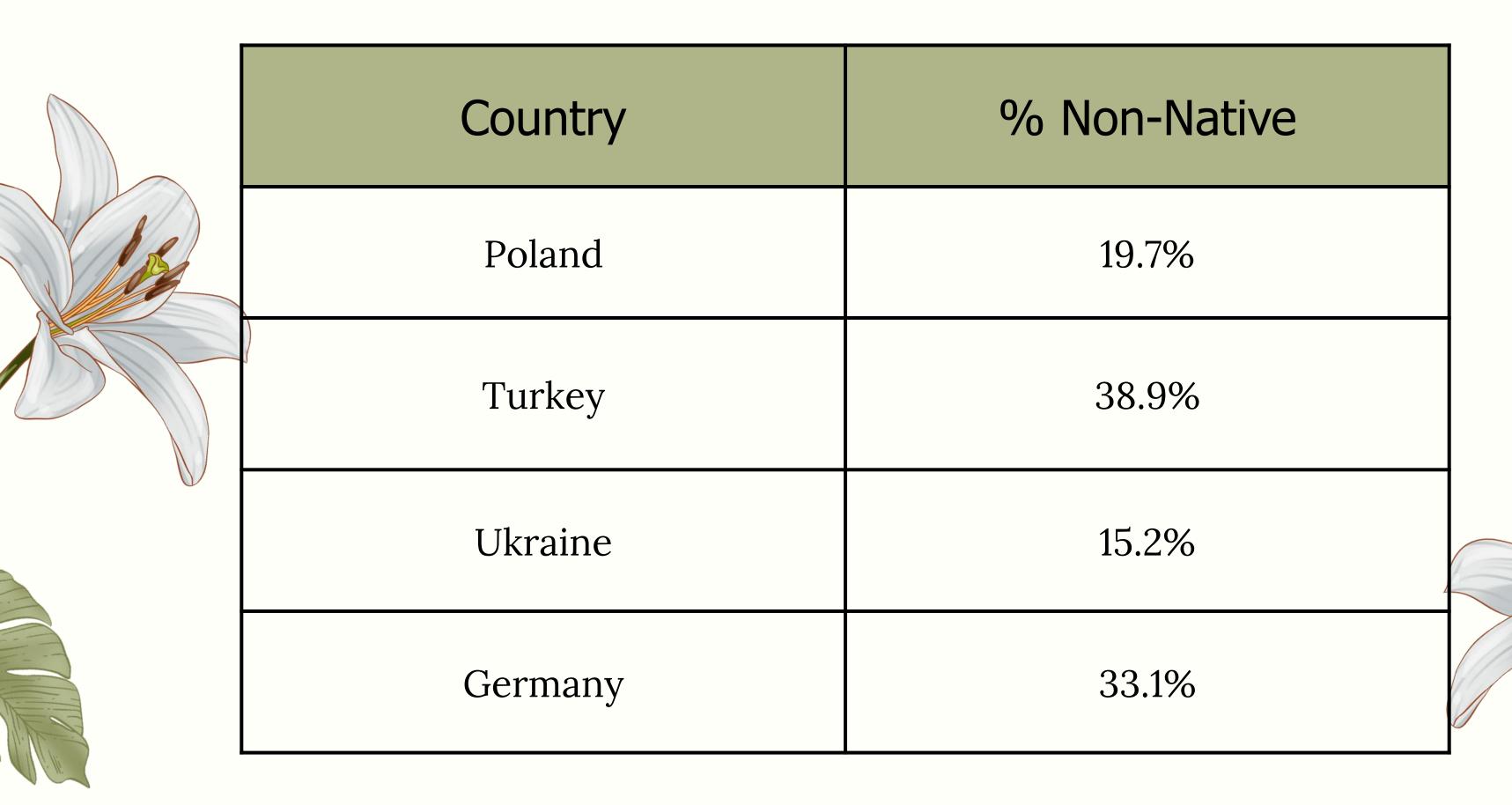


## NMDS(Bray-Curtis): Life Form Across Cemeteries





#### Non-Native



#### To Summarise



#### What Are The Trends



**Cemeteries Studied** 

Park -Like Built **Dominant Families** 

Ruderals

**Orchid Abundance** 

Low Management
Colder Climate

Life-Form

Phanerophytes and Therophytes

**Non-Native Species** 

Urban Areas

## Expanding On The Study

Regional Floral Lists

**Expand Search** 



Cemetery Characteristics

Ecological Variance





#### Thank You



Erika Puglisevich erika.puglisevich@um.edu.mt

