

# VEGETATION DATABASE AND LONG-TERM ANALYSIS OF HIGH MOUNTAIN ECOSYSTEMS: THE CASE OF VIOLA (VEGETATION OF CENTRAL APENNINES)

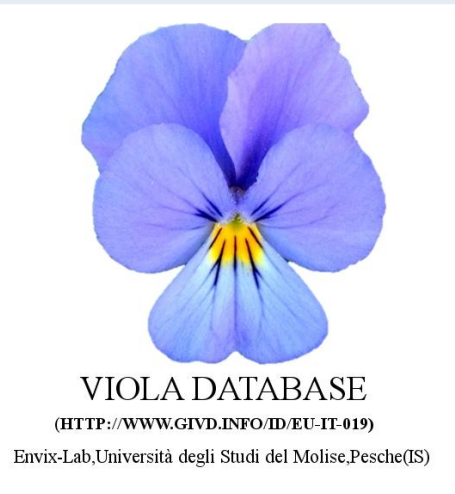
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## WHAT IS VIOLA DATABASE?

VIOLA IS A DATABASE OF HIGH-MOUNTAIN VEGETATION OF CENTRAL APENNINES



### DATA ENTRY

- SPECIES CHECK
- NOMENCLATURE HARMONIZATION
- SPECIE'S ECOLOGICAL INDICATORS, PLANT TRAITS
- GEOREFERENTIATION



### DATA STORAGE

- TURBOVEG DATABASE
- GIVD (GLOBAL INDEX OF VEGETATION-PLOT DATABASE)
- EVA (EUROPEAN VEGETATION ARCHIVE)
- VEGITALY

## WHAT VIOLA DATABASE CONTAINS?



- 1761 PLOT
- PLOT SIZE: 10 TO 100 M<sup>2</sup>
- LONG-TERM: 1950-2017 - IN PROGRESS

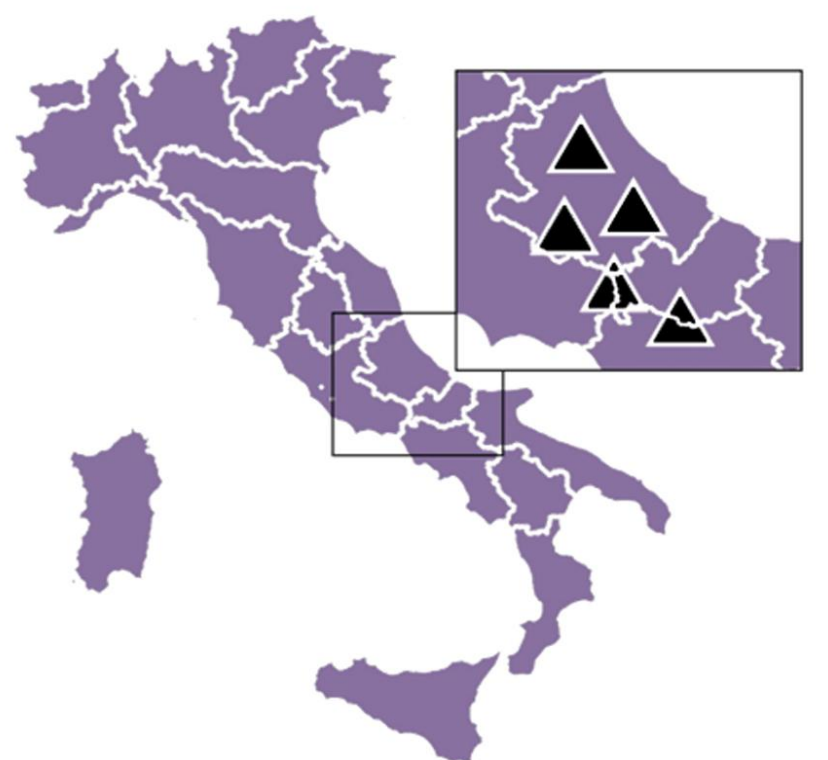


- 800 TAXA
- 94 ENDEMISMS
- DOMINANCE OF HEMICRYPTOPHYTES (66%)
- DOMINANCE OF EURASIAN AND SOUTH EUROPEAN OROPHYTIC SPECIES,



### 5 MASSIFS IN CENTRAL APENNINES

- GRAN SASSO
- VELINO
- MAJELLA
- MONTI DELLA META
- MATESE



## ONGOING WORKS AND FUTURE RESEARCHES

- SPECIES DISTRIBUTION MODELS (SDM)
- MONITORING AND ASSESSMENT OF CONSERVATION STATUS OF HABITATS OF CONSERVATION CONCERN (DIR HABITATS)
- SYNERGIES WITH LTER OBSERVATION NETWORK
- TRANS DOMAIN LONG TERM ANALYSIS
- REMOTE SENSING AND SNOW DURANTION

- SHORT TERM AND LONG TERM ECOSYSTEM CHANGE
- GLOBAL CHANGE - TERMIFILIZATION
- DIFFERENT SCALES (LOCAL TO GLOBAL)
- VEGETATION PATTERN AND ENVIRONMENTAL CONSTRAINS



## REFERENCES

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