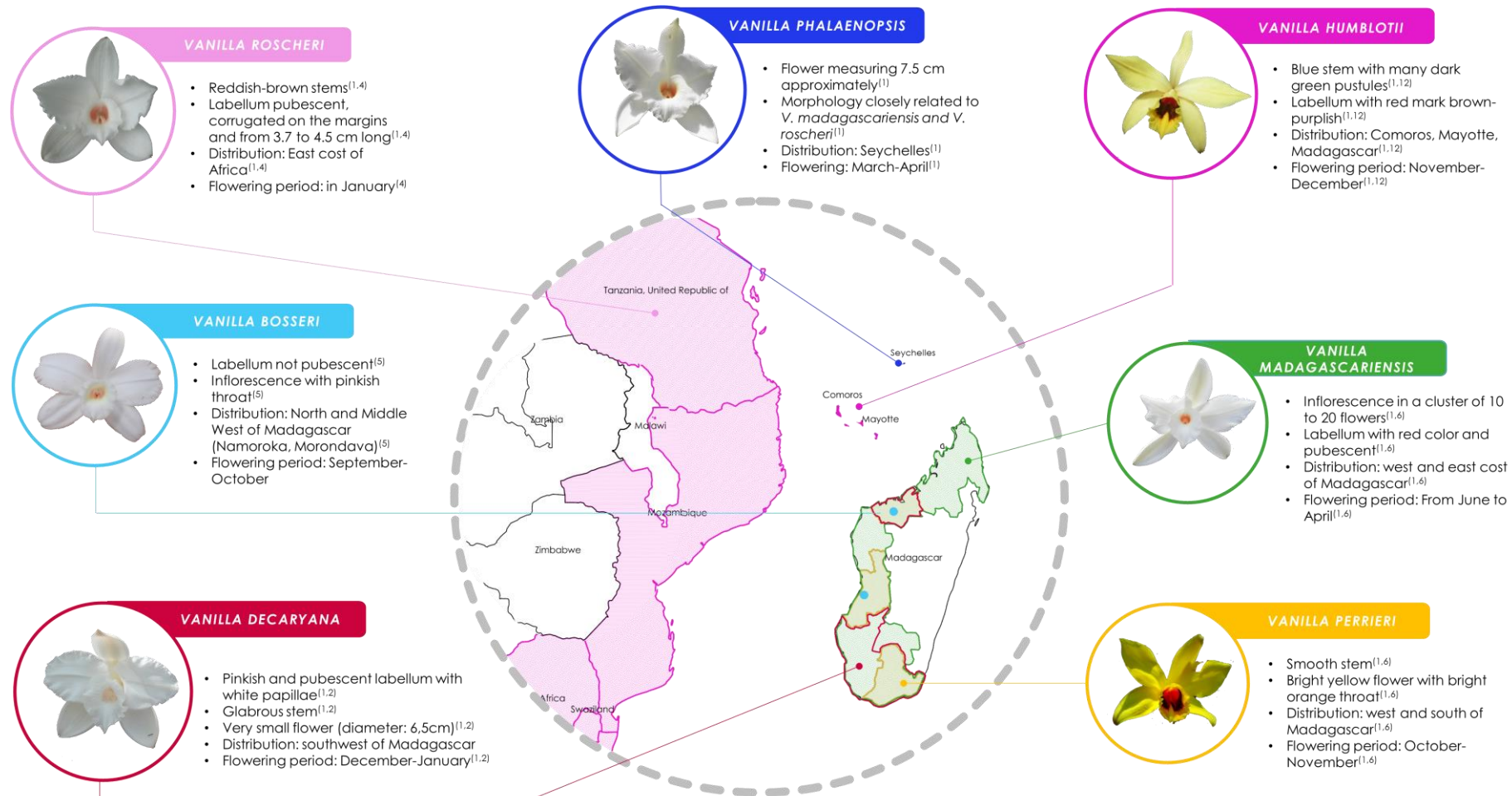


CHARACTERIZATION AND CONSERVATION OF GENETIC RESOURCES OF *VANILLA* GENUS NATIVE TO THE SOUTH WESTERN INDIAN OCEAN REGION

7 aphyllous *Vanilla* species are endemics to **SWIO** region. They form a recent monophyletic group with a great potentiality for the future.

DESCRIPTION AND LOCATION



RESEARCH PROBLEM

- **Difficulty to identify species** despite some differences in flower color, labellum ornamentation, stem texture and flower size.
- **Geographical distribution and flowering season overlap** in Madagascar, increasing the probability of finding some sympatric species and therefore possible hybrids.

METHODOLOGY

SAMPLING

In all the geographical distribution, especially in Madagascar

MOLECULAR ANALYSIS

- Chloroplastic markers
- **ITS markers**
- **Microsatellites**
- Genome sizes

BIOLOGY-ECOLOGY

- **Identify the pollinators**
- **Reproductive biology**
- **Factors of speciation**

MORPHOLOGICAL DESCRIPTION

- **Color and form of flowers**
- **Texture of stem**
- **Type of labellum**

