

HYBRID PARKS

Combining abilities, creating synergies and enhancing the performance of parks for sustainable development policies

International Conference

«Green Areas: A level for sustainable local development»

26/6/2014, RODOS PALACE HOTEL, Rhodes



ΠΕΡΙΦΕΡΕΙΑ
ΝΟΤΙΟΥ ΑΙΓΑΙΟΥ



HYBRID PARKS



**Rhodes: Wild growing and
endemic flora.**

Potentialities of exploitation - Parks

Dr. Nikolaos Theodoridis,

Forester – Environmentalist, Decentralized Administration of Aegean

Konstantinia Sot. Papastergiou,

Forester – Environmentalist, M.Sc., Municipality of Rhodes

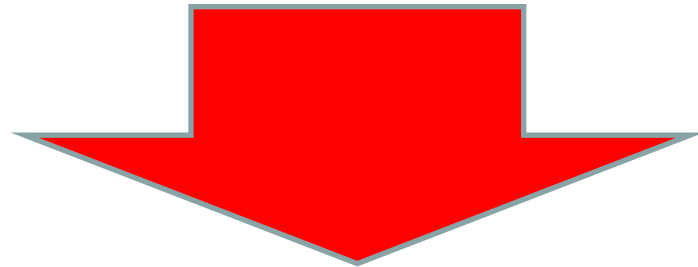
HYBRID PARKS

THE FLORA IN THE ISLANDS

- Rhodes is the largest island of Dodecanese and is situated in the SE Aegean.
- Due to position, (latitude and proximity to three continents), the suitable conditions for the development of a wide variety of flora were created.
- Rift island.

HYBRID PARKS

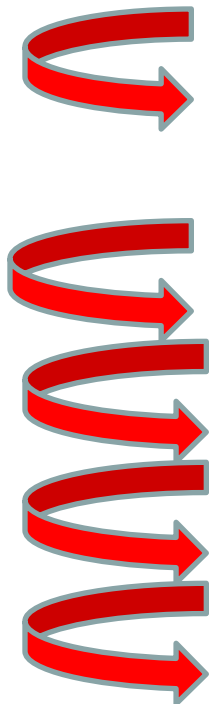
- The small number of plant species is due to the isolation of the islands.
- The difficulty for their expansion because of the sea creates the conditions for



the genesis and settlement of endemic species

HYBRID PARKS

To this, contribute:

- 
- the time of the islands' creation,
 - their age,
 - the distance among them,
 - the distance from the mainland and
 - the topographical and geomorphological conditions.

HYBRID PARKS

- The amount of plant species of Dodecanese in the western islands (Karpathos, Kasos, Atypalaia, etc) is similar to the one of the southern Greek mainland, Cyclades and Crete.
- While in the eastern islands (Rhodes, Tilos, Halki, etc) is similar to the one of Marmaris and Asia Minor.

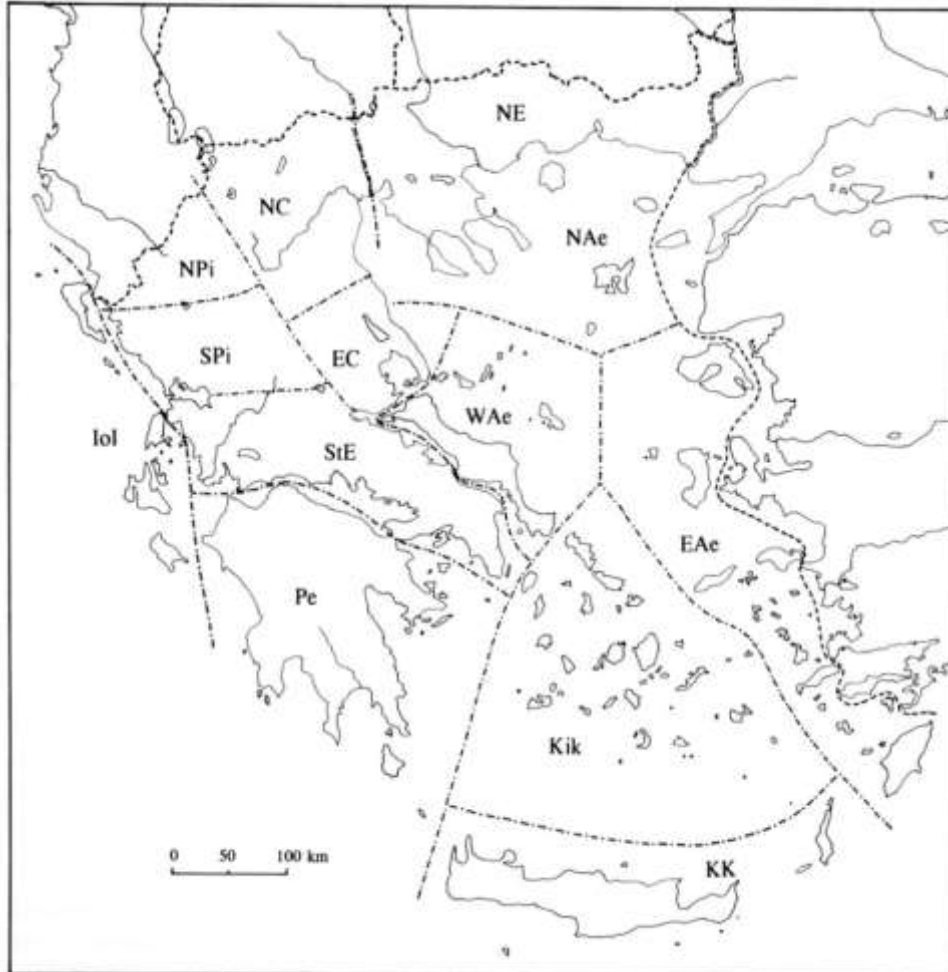
HYBRID PARKS

- Different composition and development of plant communities in ravines, mountain slopes, plains due to the soil composition and the microclimate.



Equisetum telmateia

HYBRID PARKS



PHYTOGEOGRAPHY -WILD PLANTING FLORA

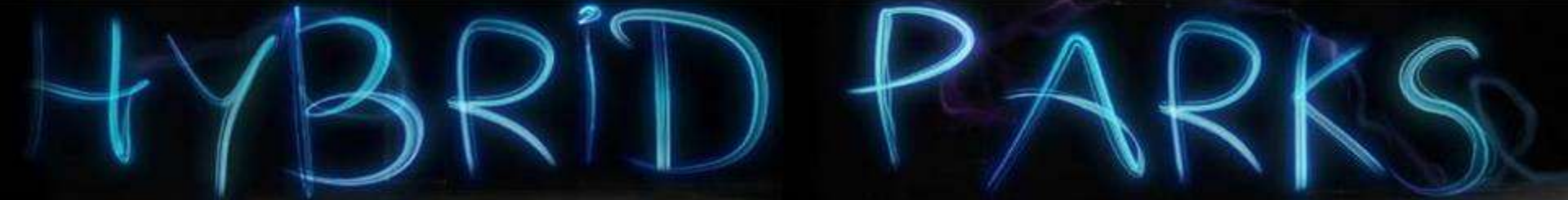
- The Greek space is divided to **13** phytogeographical departments

HYBRID PARKS

- Total flora of Dodecanese **1.400** taxa. The flora of four islands (Rhodes, Halki, Simi, Tilos) is consisted by **1.432** taxa, of which the **1.220** are wild growing.
- Most of them (**1.156**) are present in Rhodes.

HYBRID PARKS

	Ρόδος	Χάλκη	Σύμη	Τήλος
Ενδημικά taxa	142	44	68	42
Τοπικά ενδημικά	14	5	3	0
Ευρύτερα ενδημικά	128	39	65	42
Μεσογειακά taxa	652	246	244	224
Ευρυ-μεσογειακά	291	120	125	124
Στενο-μεσογειακά	155	51	50	43
Δυτικο-μεσογειακά	1	1	0	0
Νοτιο-μεσογειακά	4	0	0	0
Ανατολικο-μεσογειακά	201	74	69	57
Ιρανο-Ανατολικά taxa	19	1	2	1
Ευρείας εξάπλωσης	343	101	109	107
Μεσογειακά-Ατλαντικά	31	6	8	9
Μεσογειακο-Ιρανο- Τουρανικά	108	47	41	47
Παλαιοεύκρατα	146	43	44	40
Εύκρατα	16	0	5	3
Υποτροπικά & τροπικά	6	0	0	0
Κοσμοπολίτικα	36	5	11	8



HABITAT TYPES

COASTAL ECOSYSTEMS

1. Sandy and gravelly shores
2. Cliffs
3. Saline habitats

BUSHES

1. Brushwood
2. Maquis vegetation and shrubs

GRASSLANDS

1. Dry grasslands
2. Wet grasslands
3. Temporary lakes

FORESTS

1. Coniferous forests
2. Deciduous and evergreen broadleaf

MOUNTAIN VEGETATION CHASMOPHYTIC VEGETATION

HYBRID PARKS



- **Cyclamen repandum**

Endemic plant of Rhodes

HYBRID PARKS



- **Consolida arenaria**

Endemic plant of Rhodes

HYBRID PARKS



- **Umbilicus
albido-opacus**

Endemic plant of Rhodes

HYBRID PARKS



- **Anthemis rhodensis**

(Foto: G. Pastrikos)



Belongs to the family of daisy and chamomile .

HYBRID PARKS



- **Silene
salamandra**

(Foto: Michael Hassler)

Endemic plant of Rhodes

HYBRID PARKS



- **Fritillaria rhodia**

(Foto: Johannes Flohe)

Rare species

HYBRID PARKS



- **Paeonia rhodia** (Foto: G. Pastrikos)



HYBRID PARKS



Manolis Sarris 



INNOVATION & ENVIRONMENT
REGIONS OF EUROPE SHARING SOLUTIONS

HYBRID PARKS



Onopordum rhodense

(Foto: G. Pastrikos)

- Rare and endemic plant of Rhodes.
- Protected by international treaties signed by Greece.
- Included in the Red List of endangered species by IUCN.

HYBRID PARKS



- **Ophrys fusca ssp. eptapigiensis**

(Foto: Michael & Ulrike Hassler)

Endemic plant of Rhodes

HYBRID PARKS



- **Ophrys fusca ssp. lindia**

(Foto: Michael & Ulrike Hassler)

Endemic plant of Rhodes

HYBRID PARKS



- **Ophrys halia**

(Foto: G. Pastrikos)

Endemic plant of Rhodes

HYBRID PARKS



- **Ophrys holosericea
ssp. oreas**

(Foto: Michael & Ulrike Hassler)

Endemic plant of Rhodes

HYBRID PARKS



- **Allium
rhodiaceum**

«A new species
from Rhodes!»

HYBRID PARKS



- **Campanula rhodensis**

Endemic plant of Rhodes



naturewonders.org

HYBRID PARKS



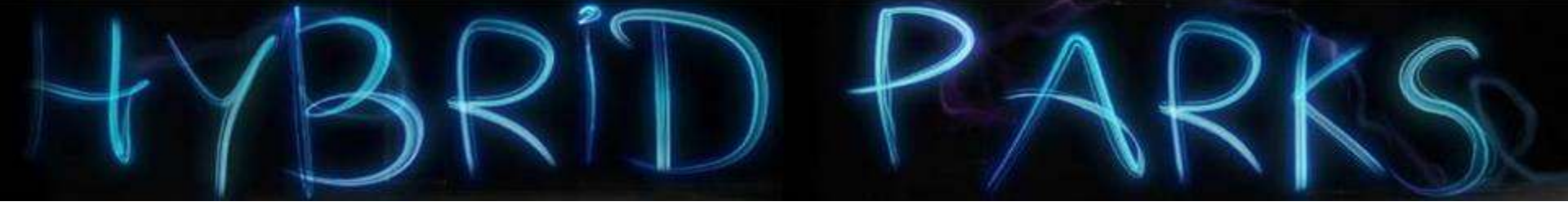
- **Centaurea lactucifolia**



HYBRID PARKS

POTENTIALITIES OF EXPLOITATION

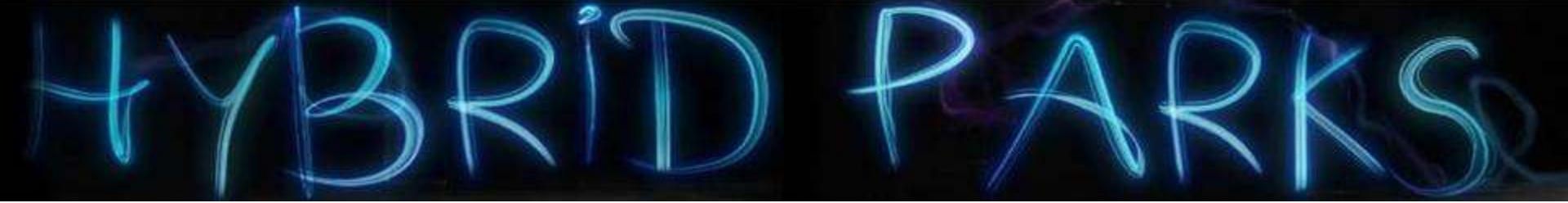
- Hybrid Parks
- In situ observation
- Trade



A. Hybrid Parks

Basic Purpose:

The best service of financial, social, environmental purposes within the framework of sustainable development policies and policies for the mitigation of climate change.



The case of Rhodes

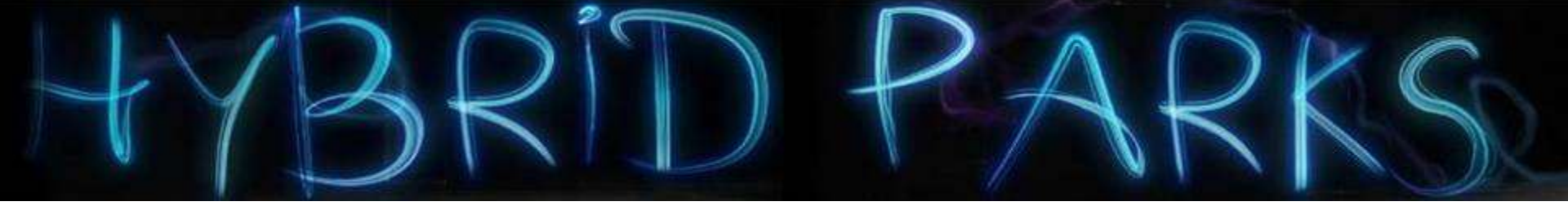
- The creation of a Mediterranean Park in the hinterland of Rhodes: Opportunity for the projection of the exceptional natural environment of the island with the development of a domestic tourism with nature loving, recreational and educational activities.
- **Purpose:** The enhance of tourists' flow to the islands' mainland.

HYBRID PARKS

SUGGESTION

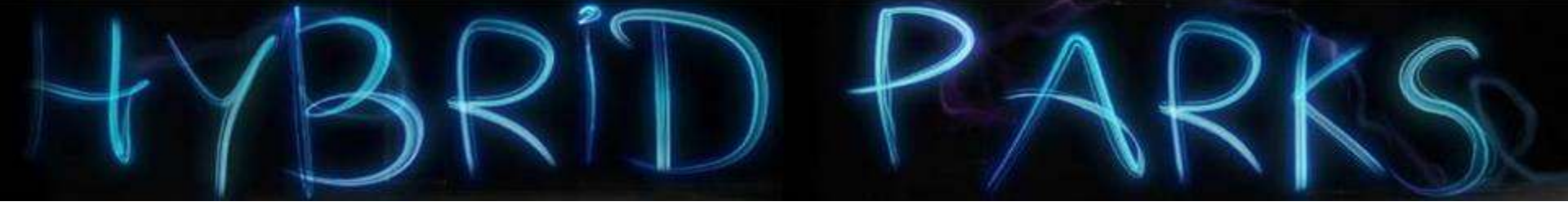
The “Mediterranean Park” next to the dam of the lake “Gadoura”.





Identification of species with a guide and experiential approach

- **Purpose:** Meeting the Greek flora
 - ✓ Easily accessible area (500 acres).
 - ✓ With appropriate infrastructure for tours, sports, site viewing, tasting local products.
 - ✓ View points to the lake.
 - ✓ Parking area.
 - ✓ Picnic areas.



B. In situ observation

- Organization of group tours for people who are involved with botany, photography, painting, etc. in areas with rare plants.
- Organization of excursions for observation and shooting of the species during the period of flowering.
- Thorough study and monitoring precedes in order to find the elements or conditions that contributed to the creation and the preservation of the certain species.

HYBRID PARKS

C. Trade

- Many plants and seeds of the flora of Rhodes and the other islands of Dodecanese, are marketed legally or not and sold by companies of Europe and USA.
- Most of them were exported from Greece recently or in the past without the necessary permits.
- In many of them, new cultivations and varieties or crosses have been done.
- These species, either ornamental or for beekeeping, either medicinal or for beverage production, can be cultivated on marginal soils especially in terms of fertility, for commercial and ornamental purposes.

HYBRID PARKS

Σας ευχαριστούμε πολύ!
Thank you!



Asyneuma gigantium

