

### 2nd Mediterranean Plant Conservation Week "Conservation of Mediterranean Plant Diversity: Complementary Approaches and New Perspectives"



(CARE-MEDIFLORA project & IUCN-MED)

12-16 November 2018, La Valetta, MALTA

### Assessing the conservation status of Monocots in the Mediterranean region:

reflections from a recent IUCN Red List evaluation

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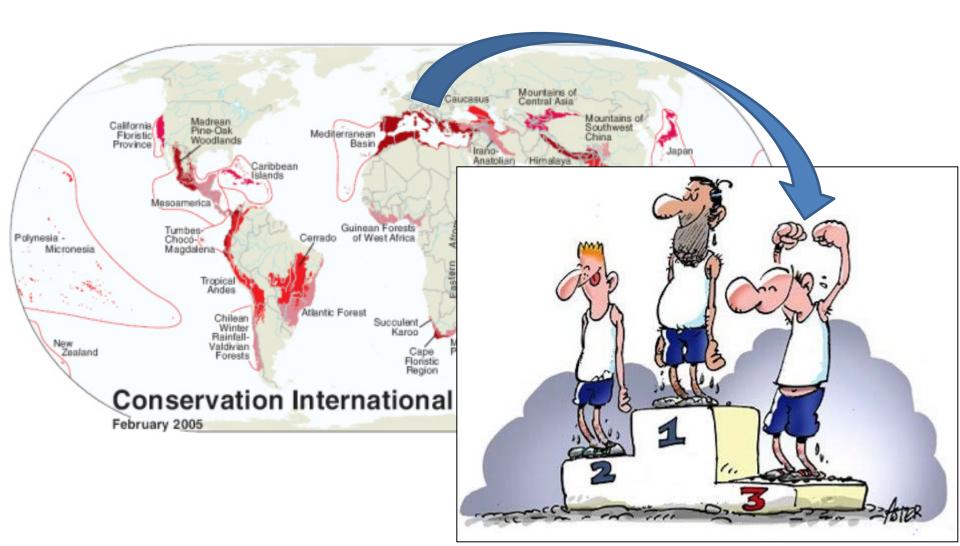
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- \*\* IUCN Global Species Programme, United Kingdom.
- \*\*\* IUCN Centre for Mediterranean Cooperation, Spain.
- \*\*\*\* Ardeola Environmental Services, United Kingdom.

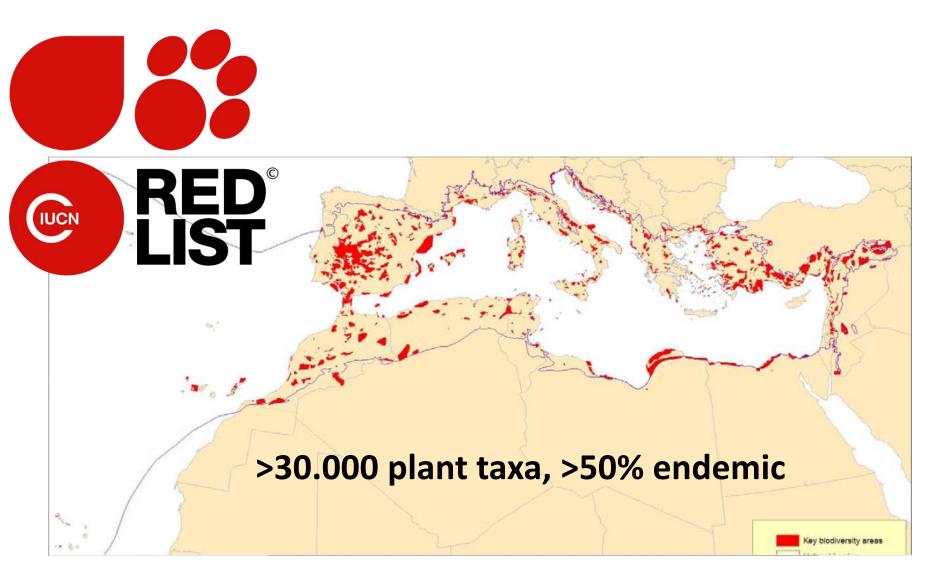




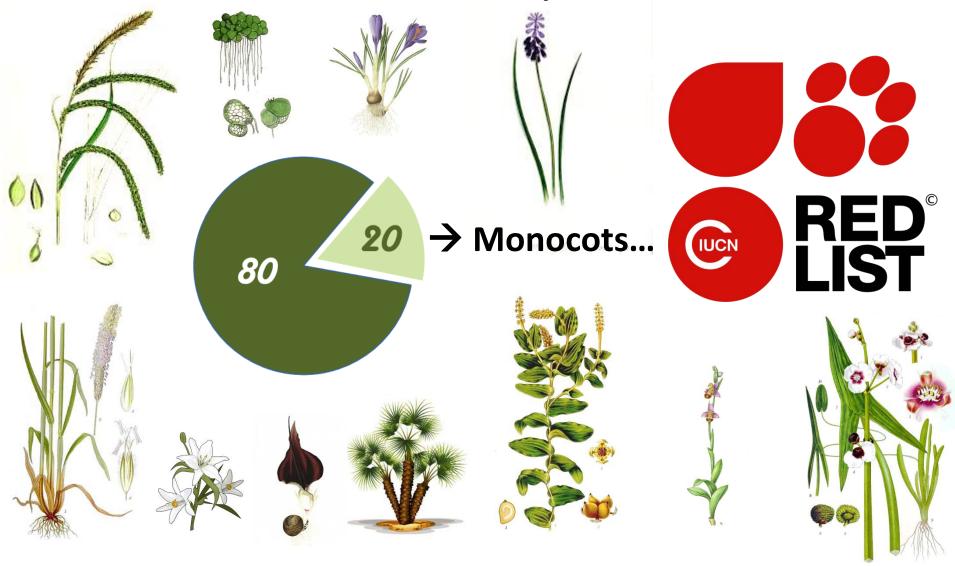
### 3<sup>rd</sup> global biodiv. hotspot for plants



#### « how many are threatened? »

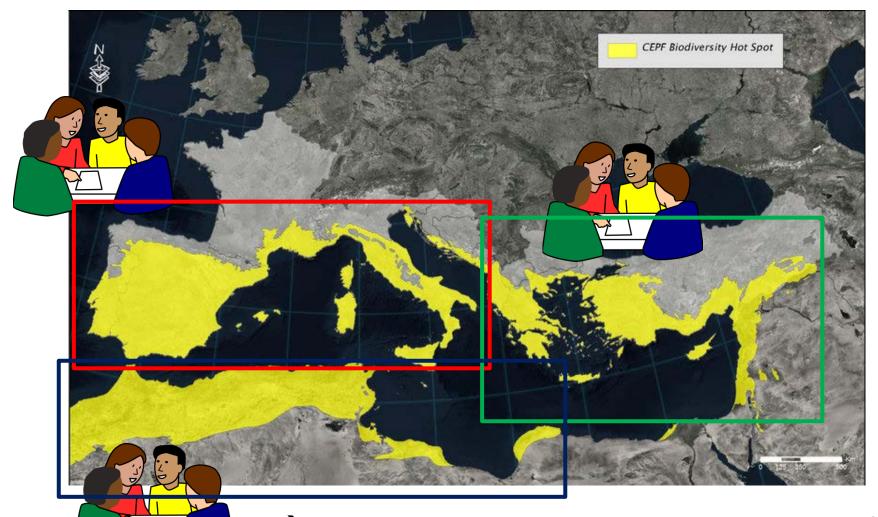


# Towards a Mediterranean Red List of threatened plants



### A eight-year project (2012-2018)

3 workshops (2015-2017), >50 experts, 4 managers:



→ 621 taxa assessments, +650-750 drafts...



### which taxonomic reference to follow

3x or 4x more names than accepted taxa (synonyms... or not?)

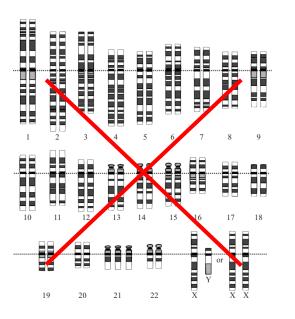


Unsolvable question... → Fluctuant taxonomy!

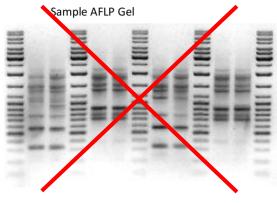
#### Fluctuant taxonomy: how and why?

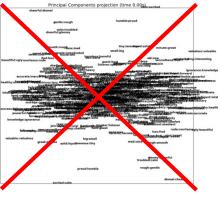
1<sup>st</sup> property:

 A taxon have to be identifiable in the field





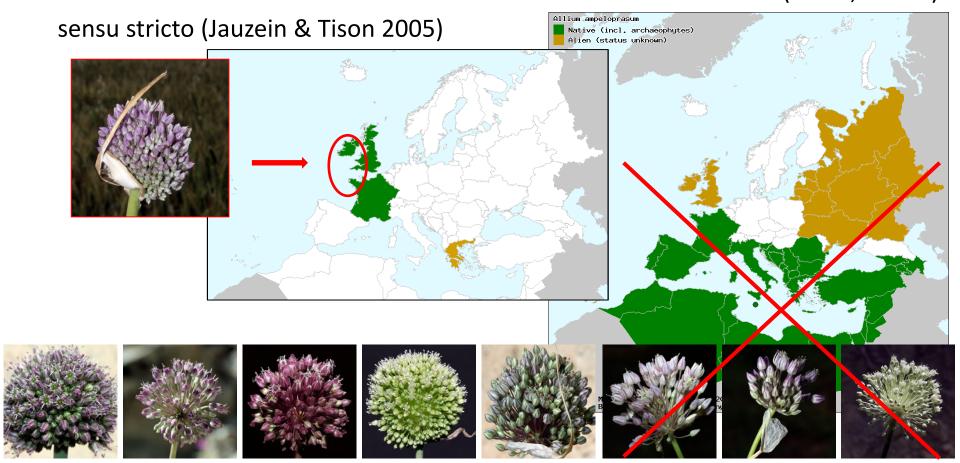




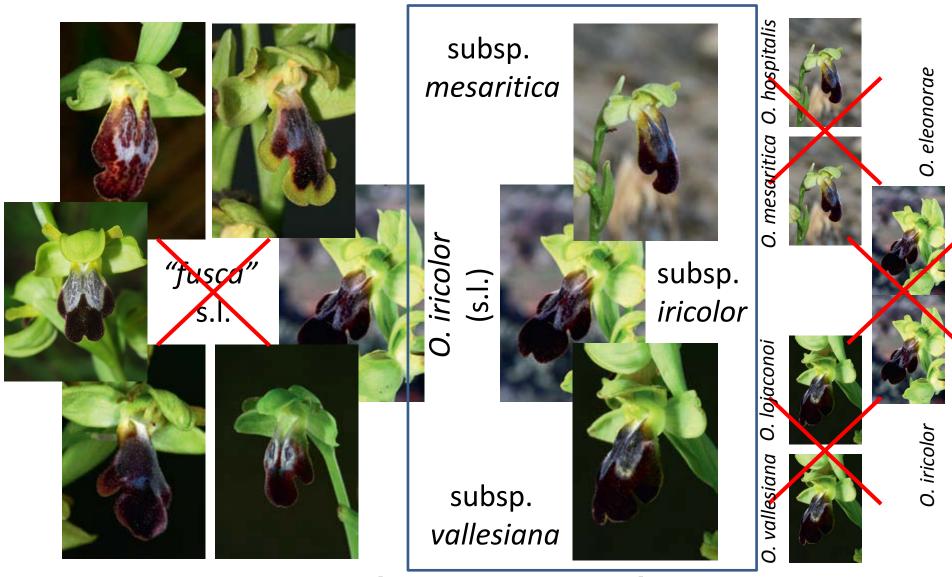
# 2<sup>nd</sup>: A taxon have to respond to homogenous conservation issues

The case of Allium ampeloprasum L.:

sensu latissimo (WCSP, E+M...)

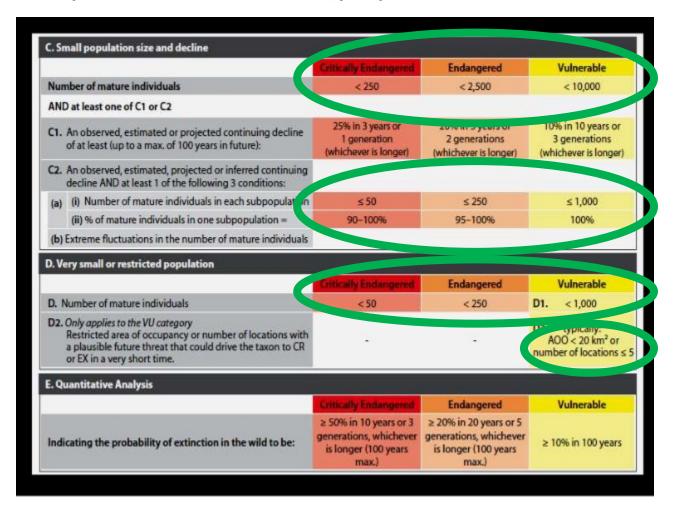


#### Ex.: the genus *Ophrys* (Orchidaceae)

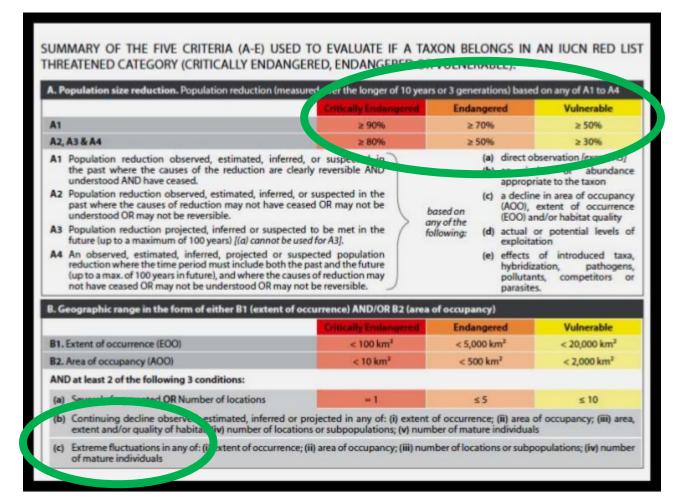


very lumper position → our compromise ← splitter orchidologists

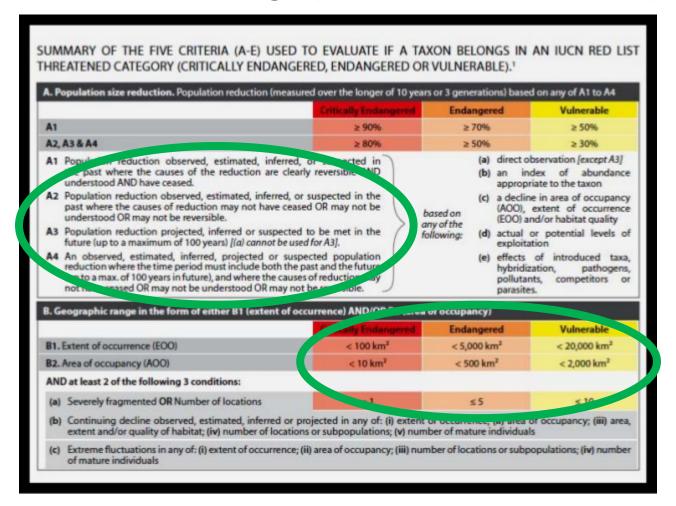
1) lack of quantitative data (population, nb 'locations'...)



2) lack of historical data (trends, decline ratio...)



3) lack of field knowledge (distribution, threats...)

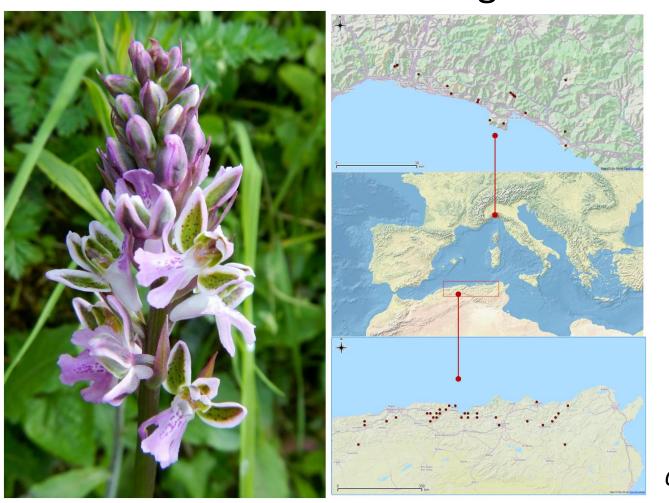


4) lack of biological data (generat° length, fragmentat°...)

		Critically Endangered	Endangered	Vulnerable
Number of mature individuals		< 250	< 2,500	< 10,000
ANI	O at least one of C1 or C2			
	An observed, estimated or projected continuing decline of at least (up to a max. of 100 years in future):	25% in 3 years or 1 generation (whichever is longer)	20% in 5 years or 2 generations (whichever is longer)	10% in 10 years or 3 generations (whichever is longer
	An observed, estimated, projected or inferred continuing decline AND at least 1 of the following 3 conditions:			
(a)	(i) Number of mature individuals in each subpopulation	≤ 50	≤ 250	≤ 1,000
	(ii) % of mature individuals in one subpopulation =	90-100%	95-100%	100%
(b)	Extreme fluctuations in the number of mature individuals			

	Critically Endangered	Endangered	Vulnerable
B1. Extent of occurrence (EOO)	< 100 km²	< 5,000 km²	< 20,000 km²
B2. Area of occupancy (AOO)	< 10 km²	< 500 km <sup>2</sup>	< 2,000 km <sup>3</sup>
AND wing 3 conditions:			
(a) Severely fragmented OP umber of locations	×1	≤5	≤ 10
(b) Commung occure observed, estimated, inferred o extent and/or quality of habitat; (iv) number of locat	r projected in any of: (i) extent or ions or subpopulations; (v) numb	of occurrence; (ii) area per of mature individual	of occupancy; (iii) area
(c) Extreme fluctuations in any of: (i) extent of occurrence of mature individuals	e; (ii) area of occupancy; (iii) num	ber of locations or subp	opulations; (iv) numbe

"severe" vs natural fragmentation?



« Severely » fragmented ?

If « yes »  $\rightarrow$  EN: B2ab(iii,v)

If « no »  $\rightarrow$  **VU**: C2a(i)

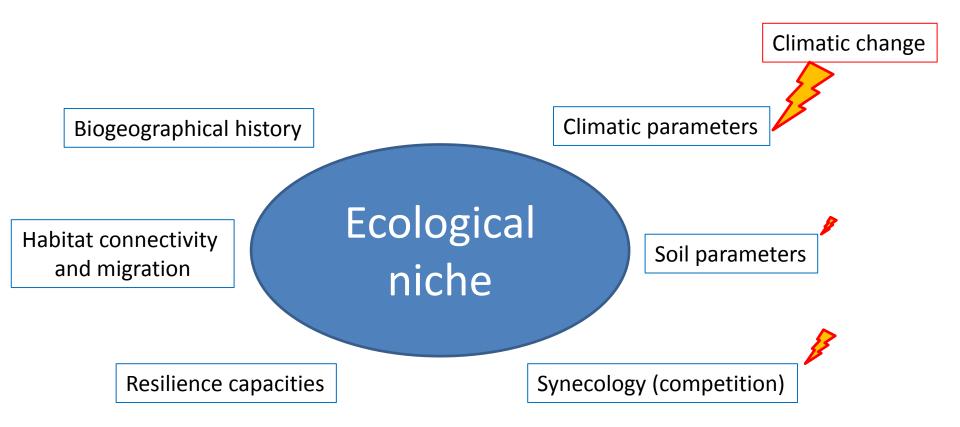
*Orchis patens* subsp. *patens* 

Positive grazing vs negative "over" grazing?



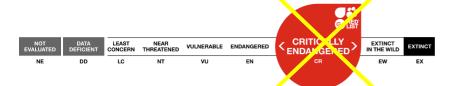


 climatic change: what do we know about the climatic vs other needs of each species?



### Feedback from reassessing Dicots:

#### Convolvulus durandoi



11 February 2009

SCOPE OF ASSESSMENT
Global, Mediterranean,
Pan-Africa

Assessment in detail



A COLUMN COLUMN

→ Rainy forests on clay soils...
 2017 field : not rare, overlooked
 2019 redlist → NT category !





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Thanks to all experts of the Mediterranean Plant Specialist Group