



***Overarching Workshop to Develop a Multi-species Action Plan to
Conserve African-Eurasian Vultures***

Toledo, Spain, 16-19 February 2017



Introduction and review of the consolidated threat list and prioritisation

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Vulture Multi-species Action Plan

VULTURE THREATS



- Unintentional Poisoning
 - Poison baits
 - NSAIDs
 - Lead
- Intentional Vulture Poisoning
- Electrocution on power poles
- Collisions
 - Power lines
 - Other infrastructure
 - Vehicles
- Decline of food availability
- Habitat loss / Degradation
- Direct Persecution (poaching)

Unintentional Poisoning (poison baits)

- Human-animal conflict
- Damage-causing animal control
- Rodent control
- Retaliatory killing



Unintentional Poisoning (NSAIDs)

Diclofenac



Unintentional Poisoning (lead)

Lead ammunition

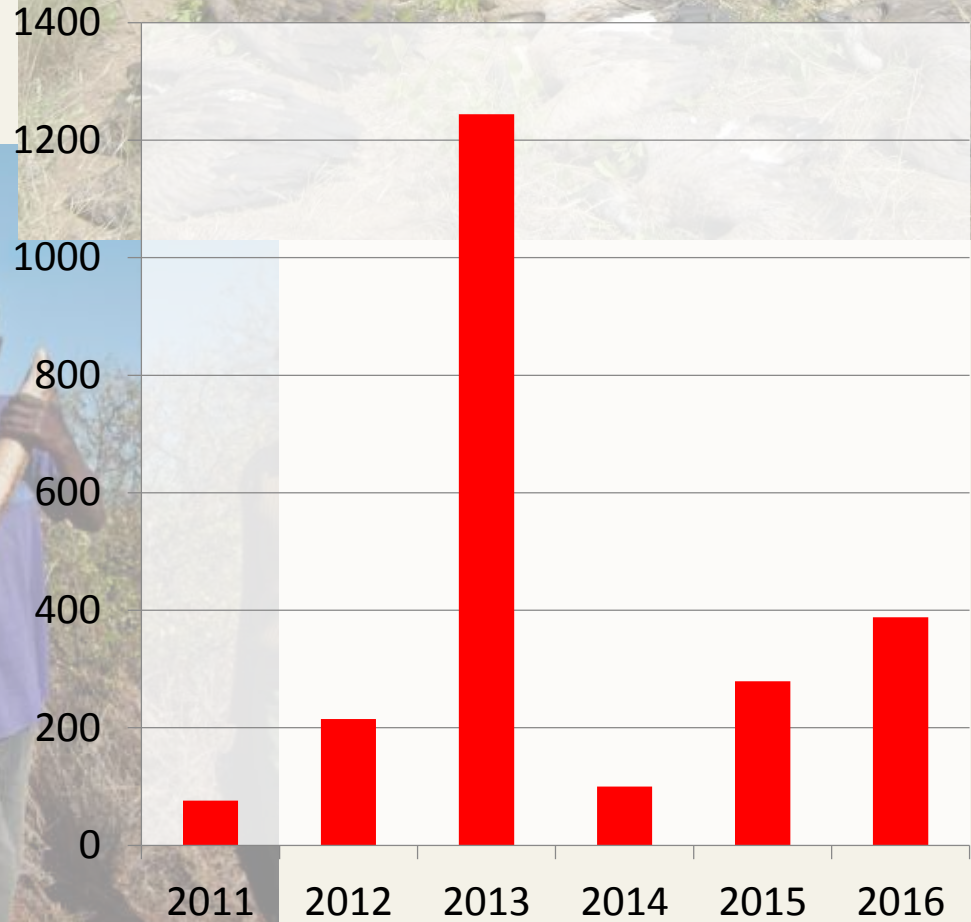


Intentional Vulture Poisoning

- Belief-based use
- Sentinel poaching
- Persecution
- Bush-meat/Culling



Vultures poisoned



Electrocution on power poles



Collision

- Power lines
- Other infrastructure
- Vehicles



Decline of food availability

- Reduced availability of livestock carcasses for vultures, commercial vs communal farming
- Decline of wild ungulates
- Improved carcass disposal, e.g. better regulations
- Competition with other scavengers
- Change in cultural practices
- Change in foraging patterns due to different spatial availability of food
- Changes in the use of feeding sites



Direct Persecution (poaching)

- Taxidermy
- Misbelief



Habitat loss / Degradation

- Loss of trees and cliffs
- Degradation of rangelands
- Human settlement expansion within historical foraging range
- Bush encroachment/afforestation



APPROUCH AND METHODOLOGY

Vulture MsAP Questionnaire



- Africa (? responses)
- Asia (? responses)
- Europe and the Middle East (89 responses)

Poisoning

- Poisoning (uncontrolled use of pesticides)
- Poisoning (lead intoxication - ammunition)
- Poisoning (veterinary drugs)

Collision and Electrocutation

- Collisions with wind turbines
- Collision with power lines
- Electrocutation on power poles

Food availability / limitation

- Decline of extensive livestock farming
- Decline of wild ungulates
- Stricter sanitary and veterinary regulations

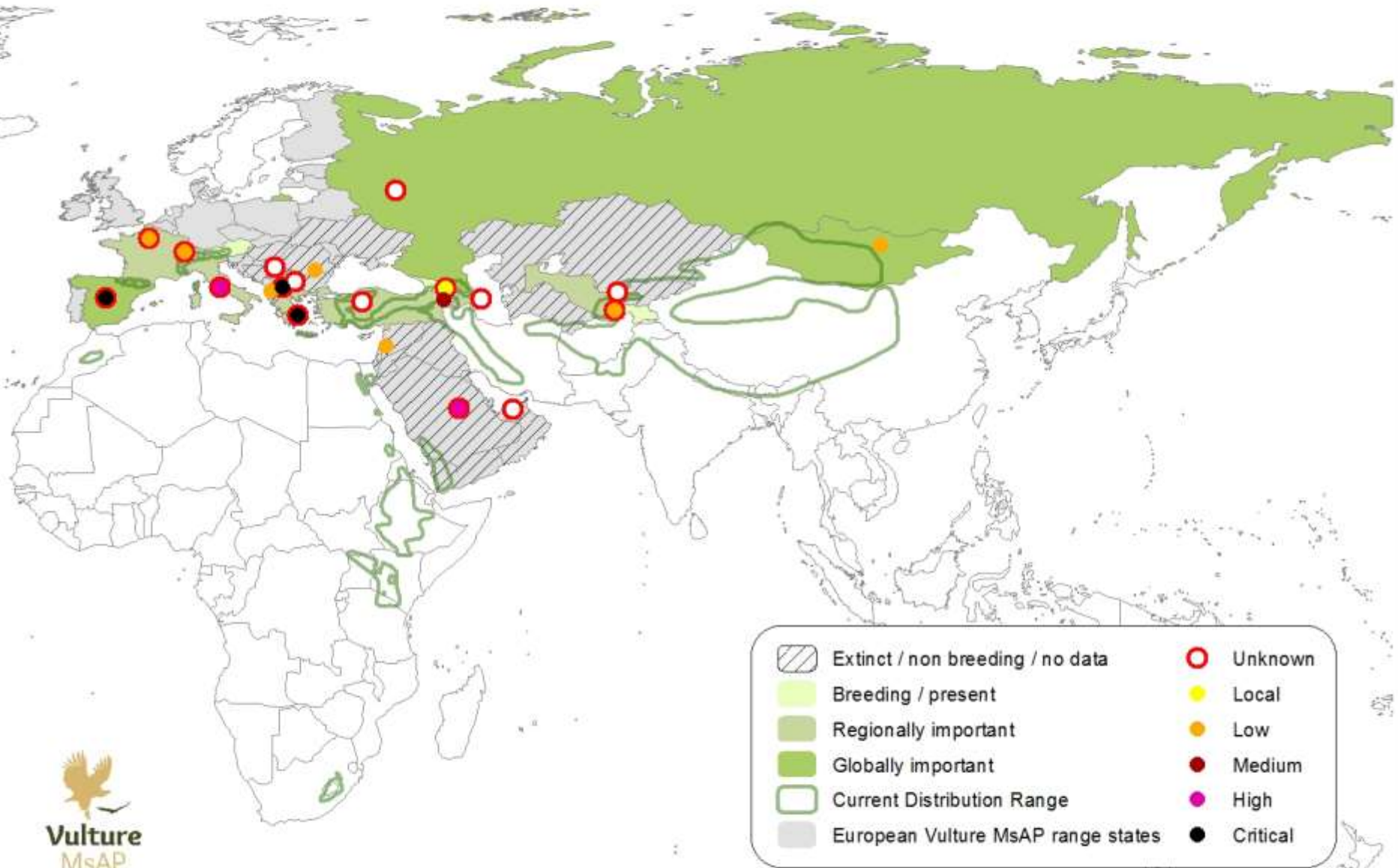
Other threats

- Hunting – Poaching
- Habitat loss / Degradation
- Disturbance from human activities
- Harvesting/nest robbery
- Low public and stakeholder awareness
- Missing or ineffective policies, laws and enforcement



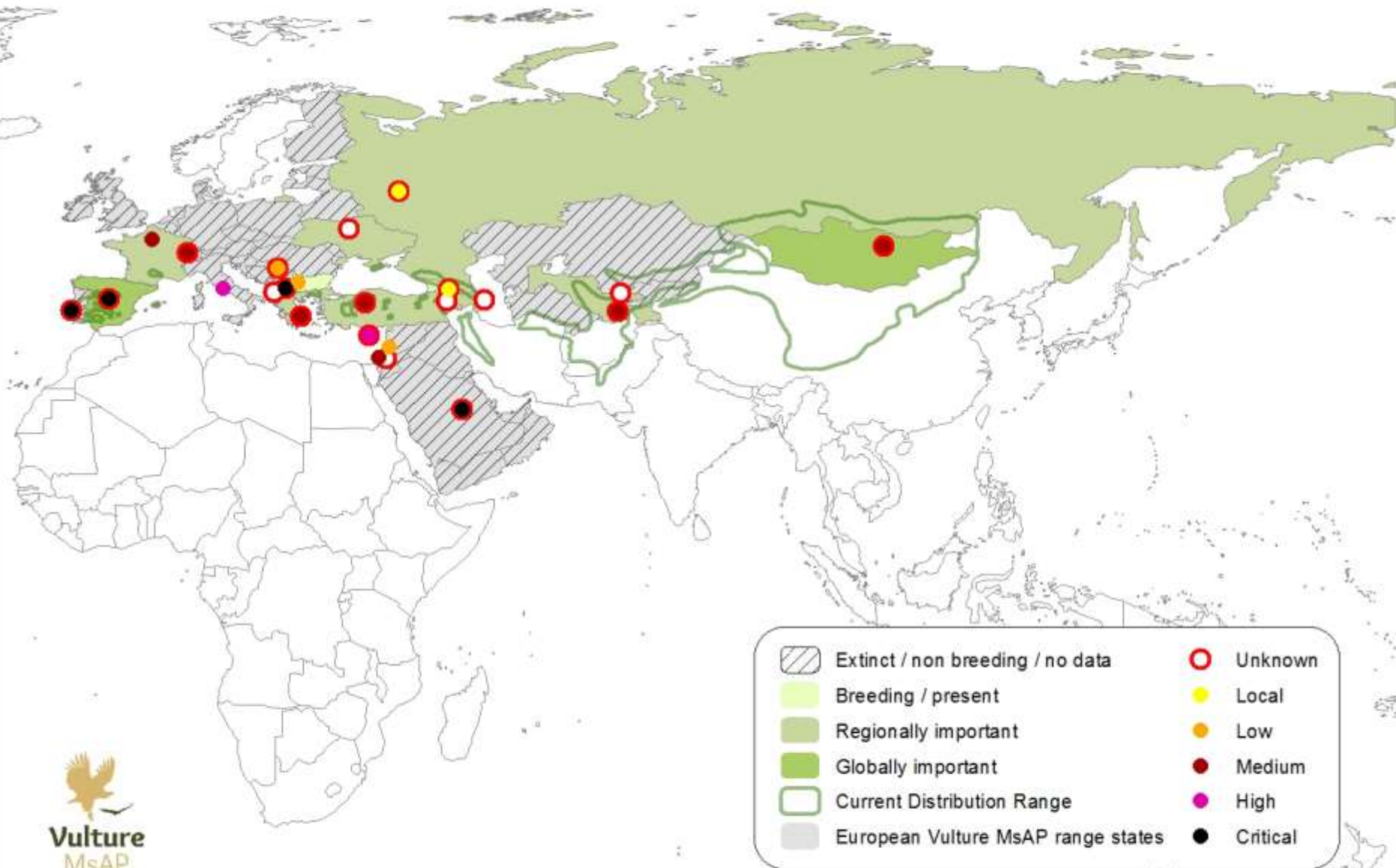
**Main Threats Affecting All Species by Region –
Questionnaires**

Bearded Vulture (*Gypaetus barbatus*) POISONING



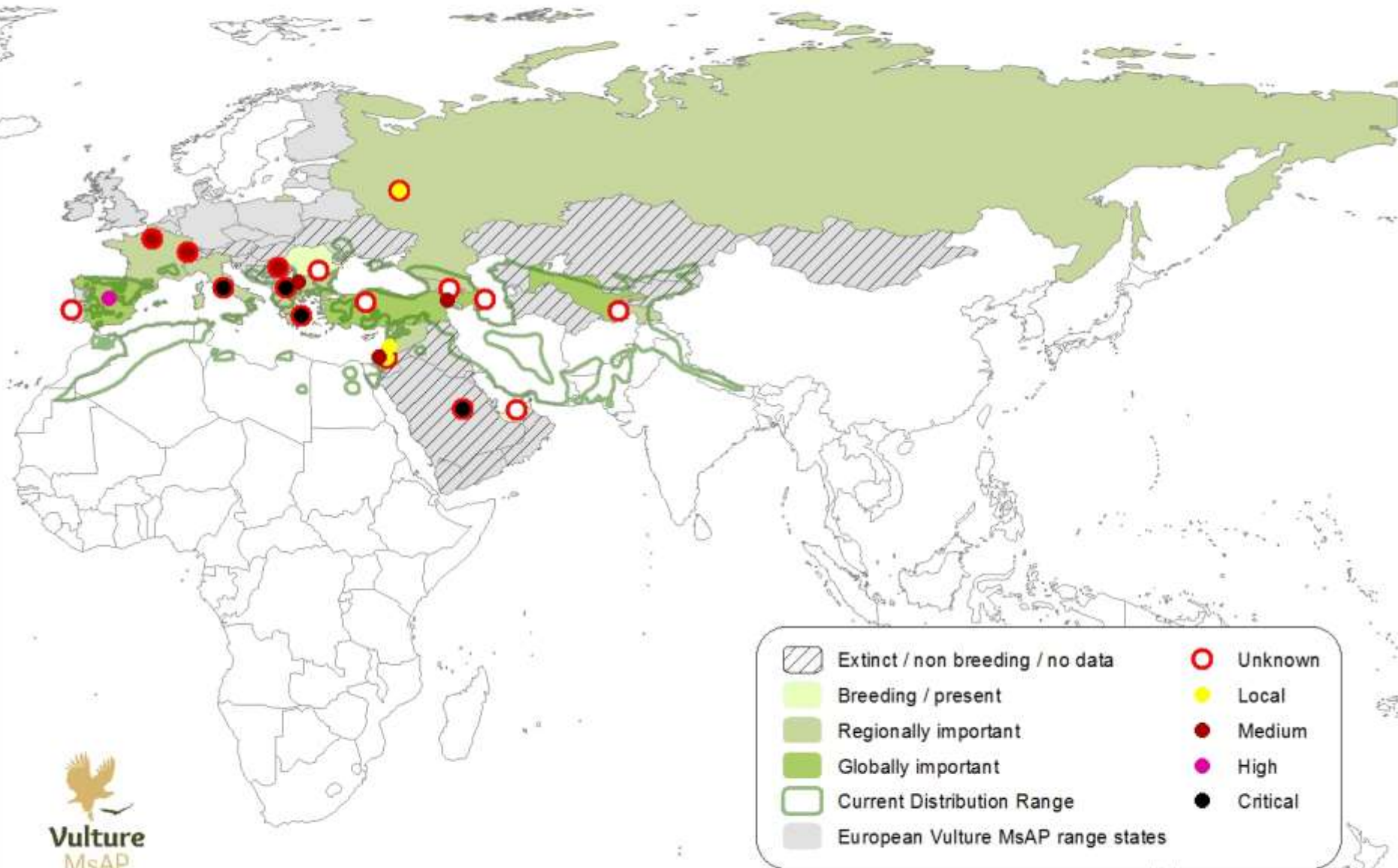
Data source: BirdLife International and NatureServe (2015) Bird species distribution maps of the world.
BirdLife International, Cambridge, UK and NatureServe, Arlington, USA.

Cinereous (Black) Vulture (*Aegypius monachus*) POISONING



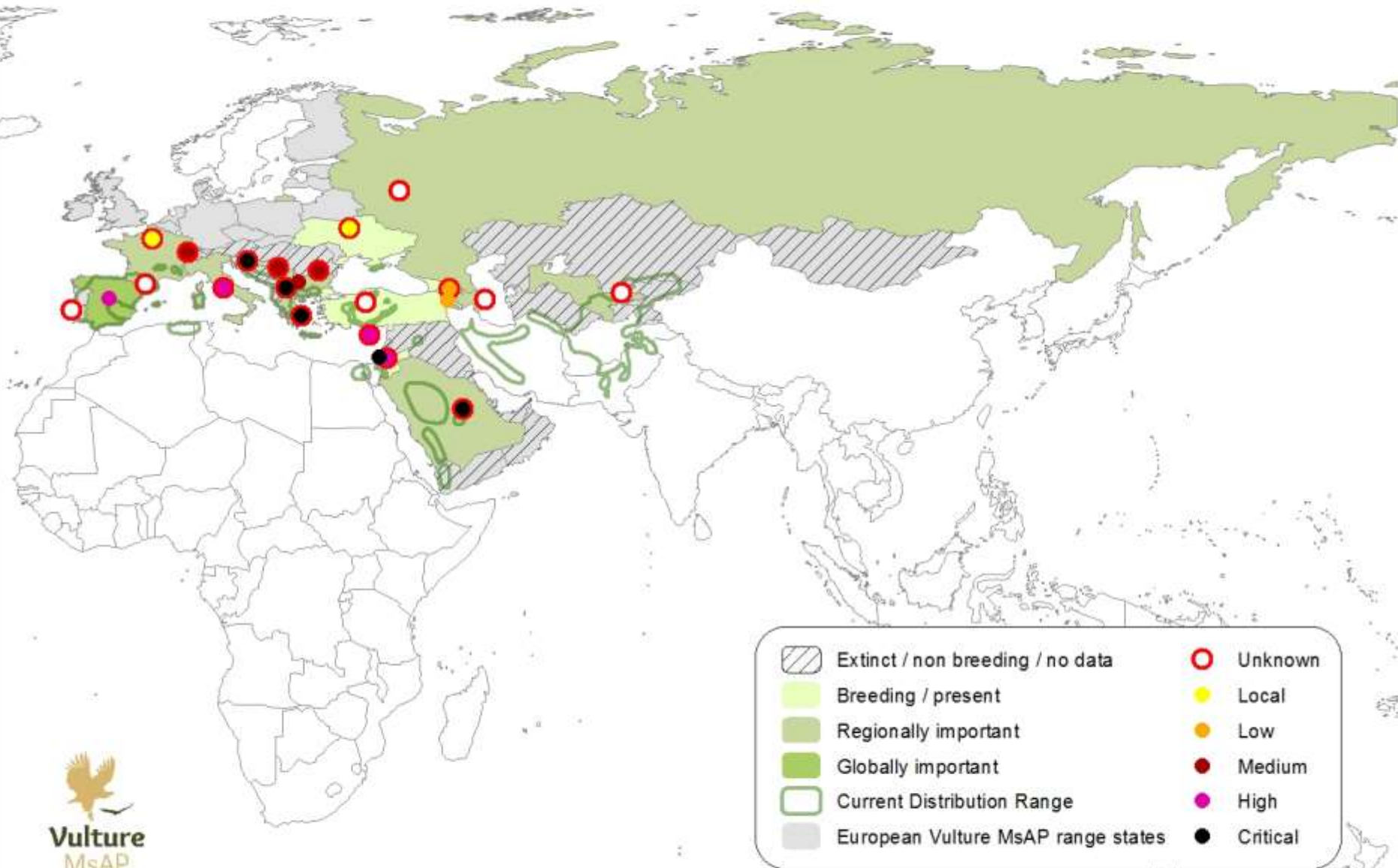
Data source: BirdLife International and NatureServe (2015) Bird species distribution maps of the world.
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Egyptian Vulture (*Neophron percnopterus*) POISONING

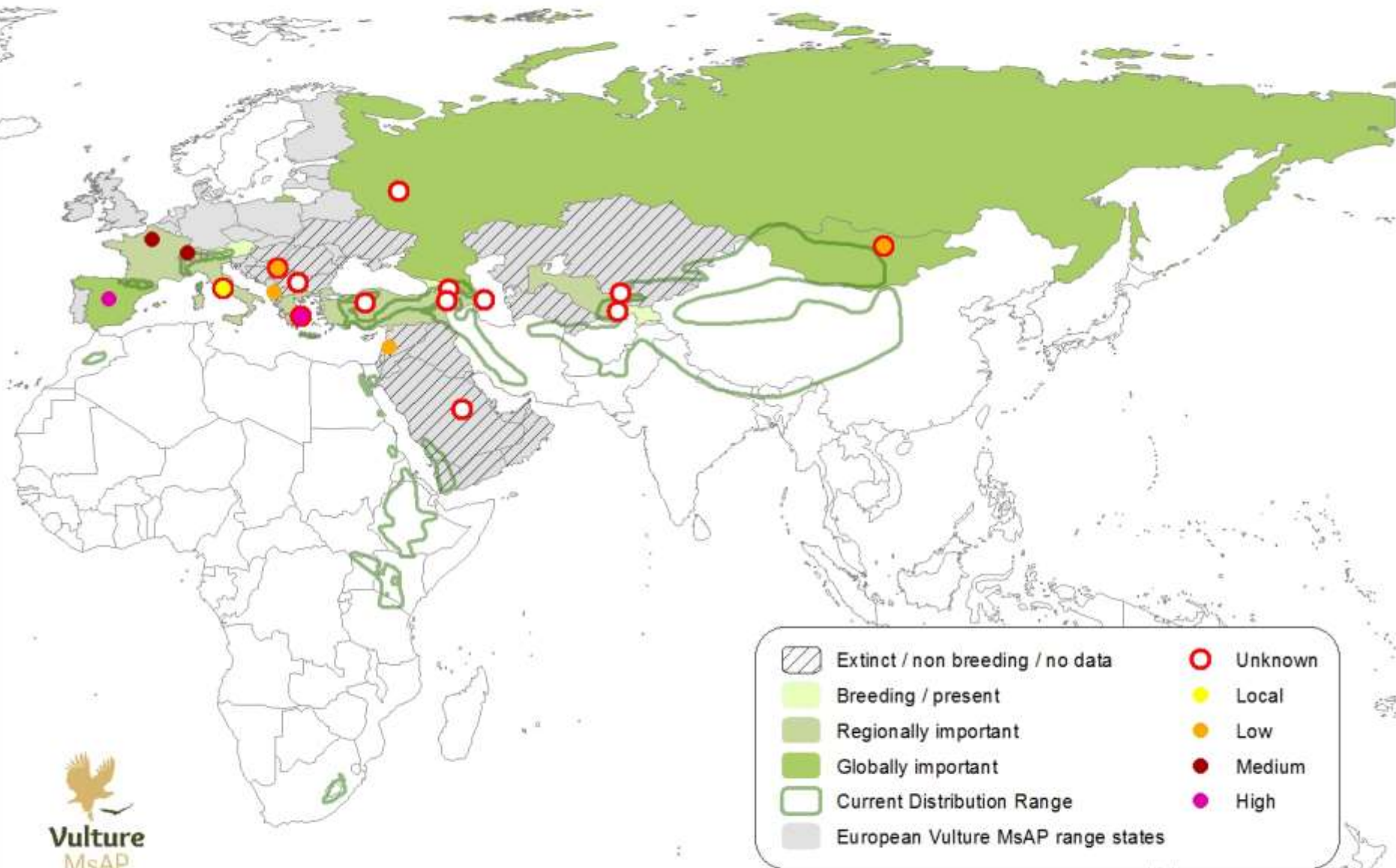


Data source: BirdLife International and NatureServe (2015) Bird species distribution maps of the world.
BirdLife International, Cambridge, UK and NatureServe, Arlington, USA.

Griffon Vulture (*Gyps fulvus*) POISONING

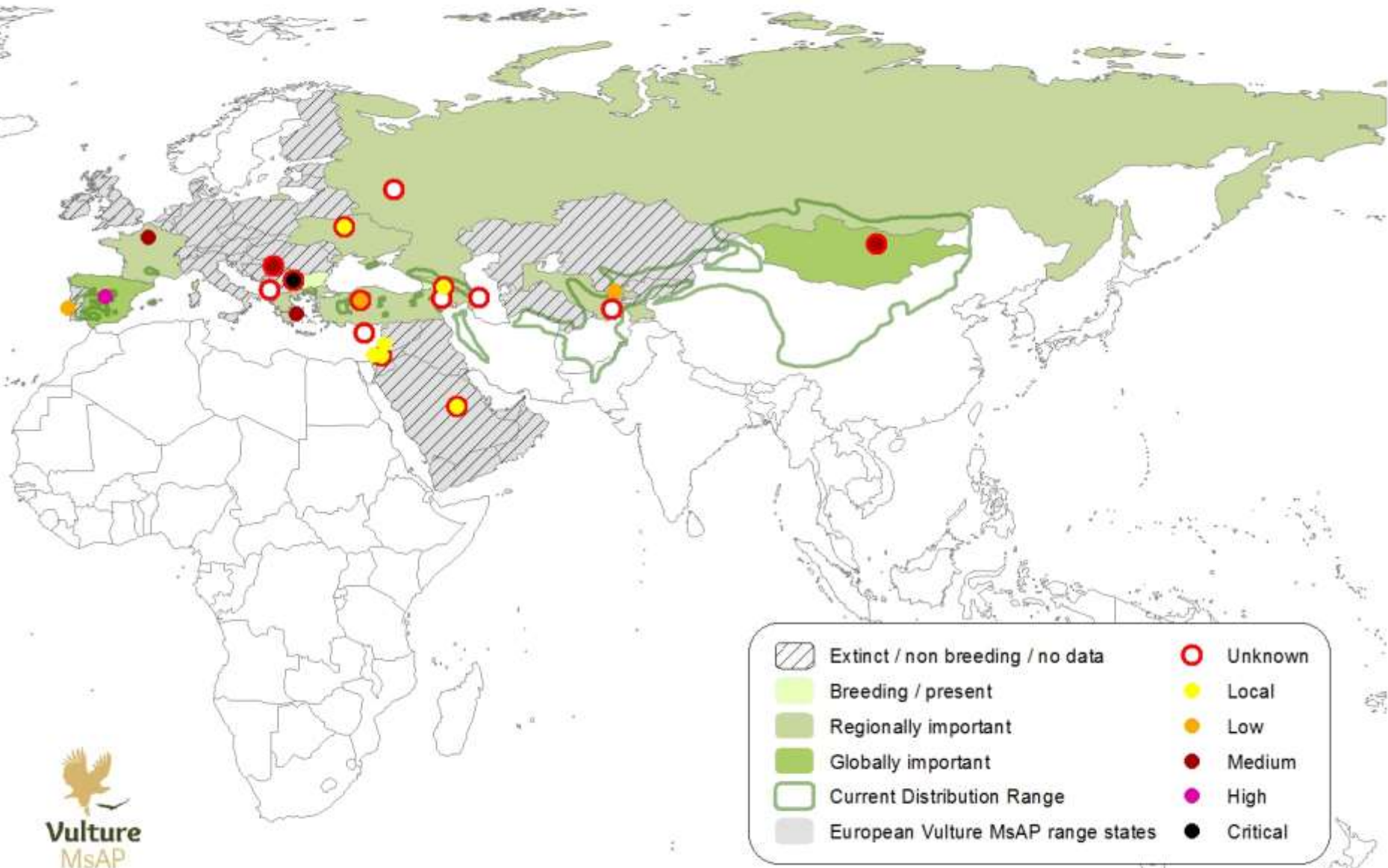


Bearded Vulture (*Gypaetus barbatus*) - COLLISION & ELECTROCUTION



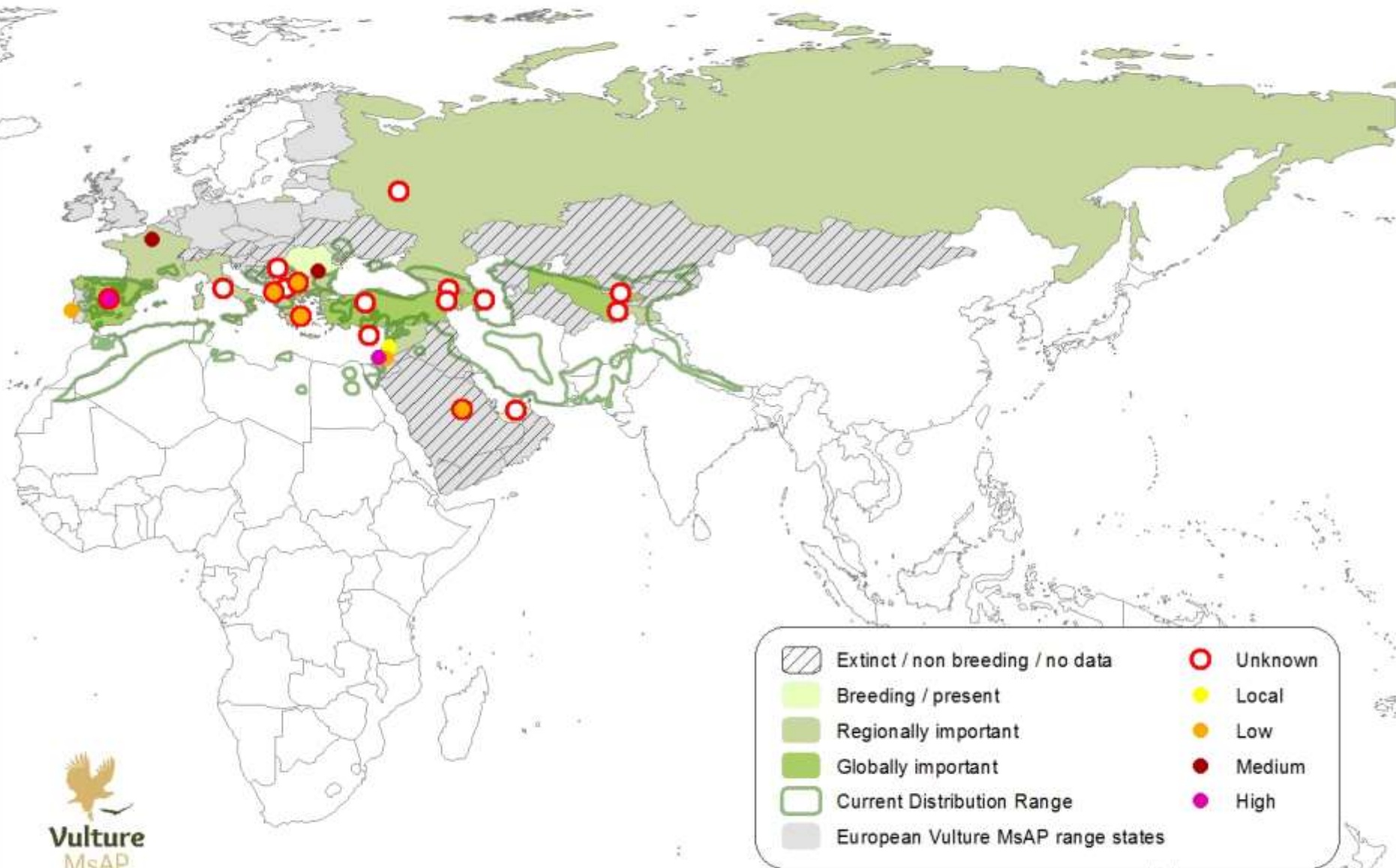
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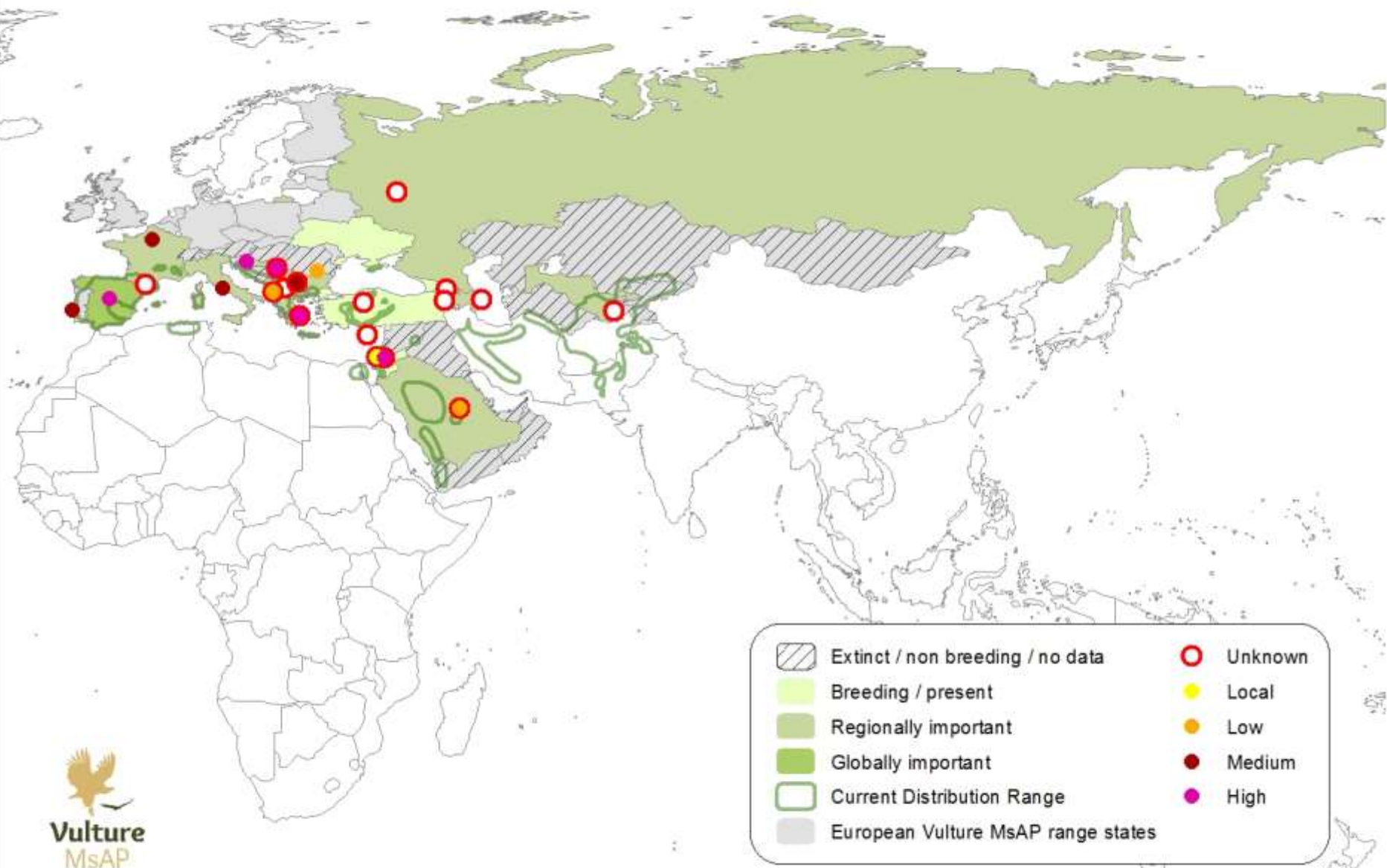
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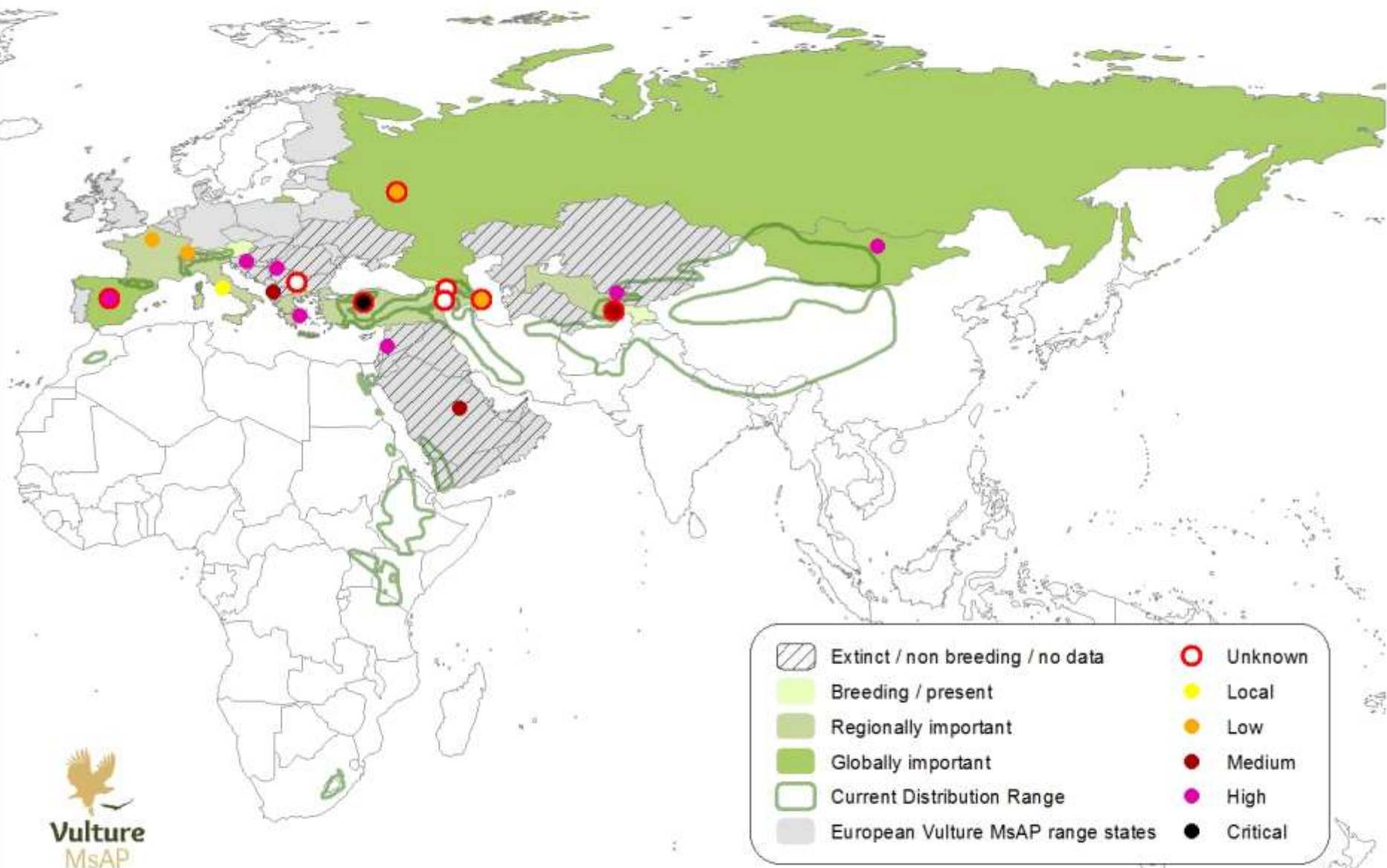
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Griffon Vulture (*Gyps fulvus*) - COLLISION & ELECTROCUTION



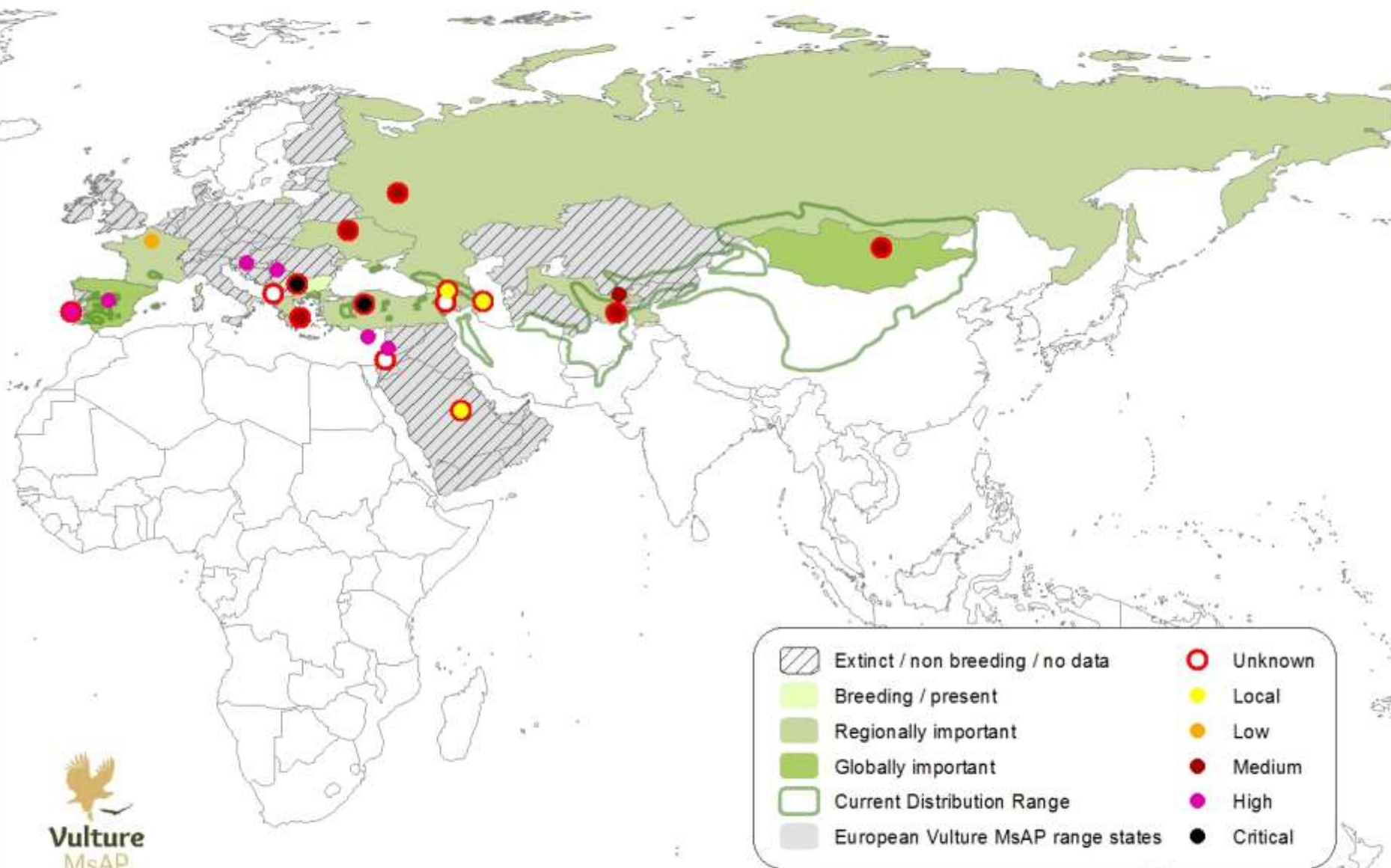
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Bearded Vulture (*Gypaetus barbatus*) - FOOD AVAILABILITY



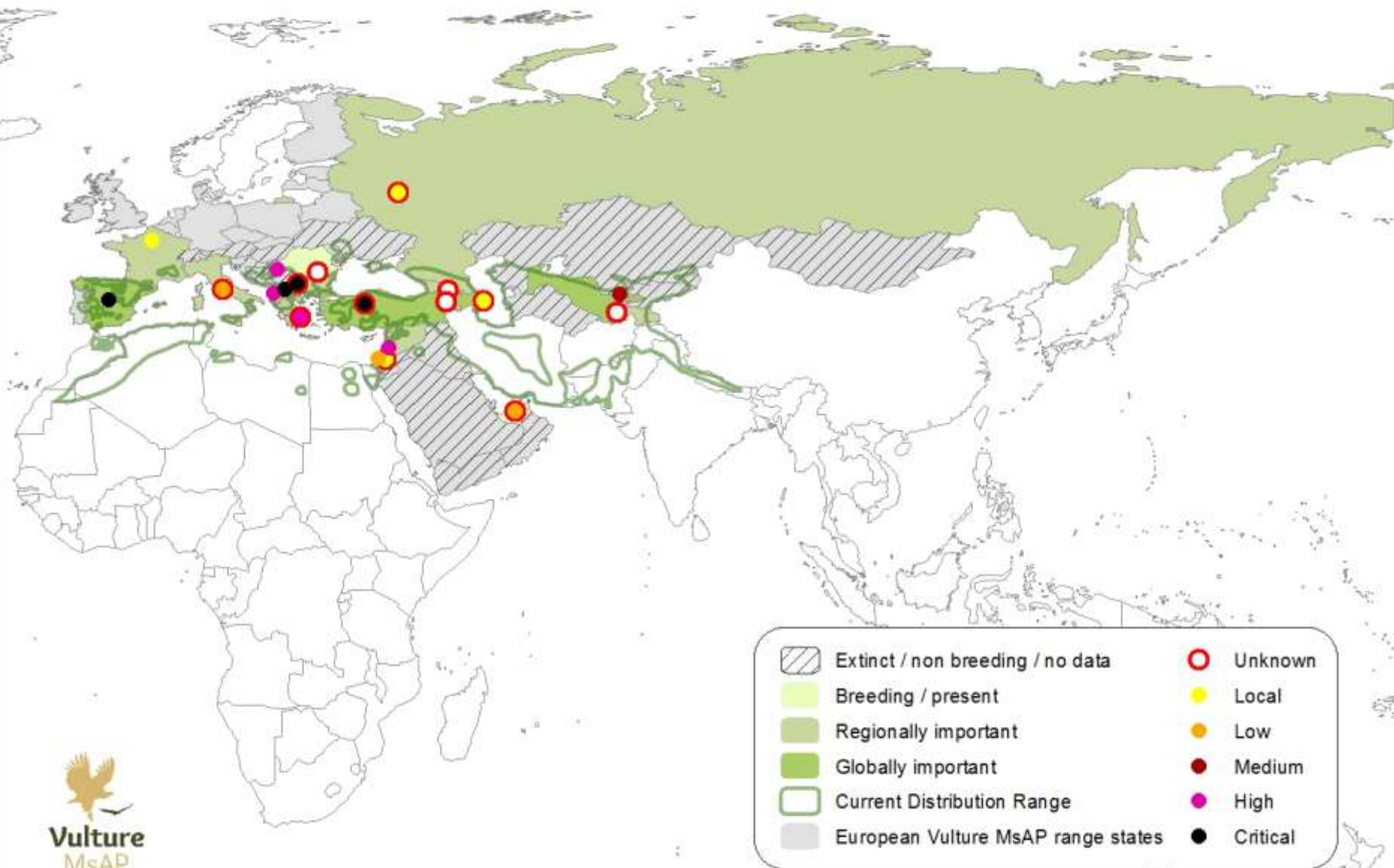
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Cinereous (Black) Vulture (*Aegypius monachus*) - FOOD AVAILABILITY



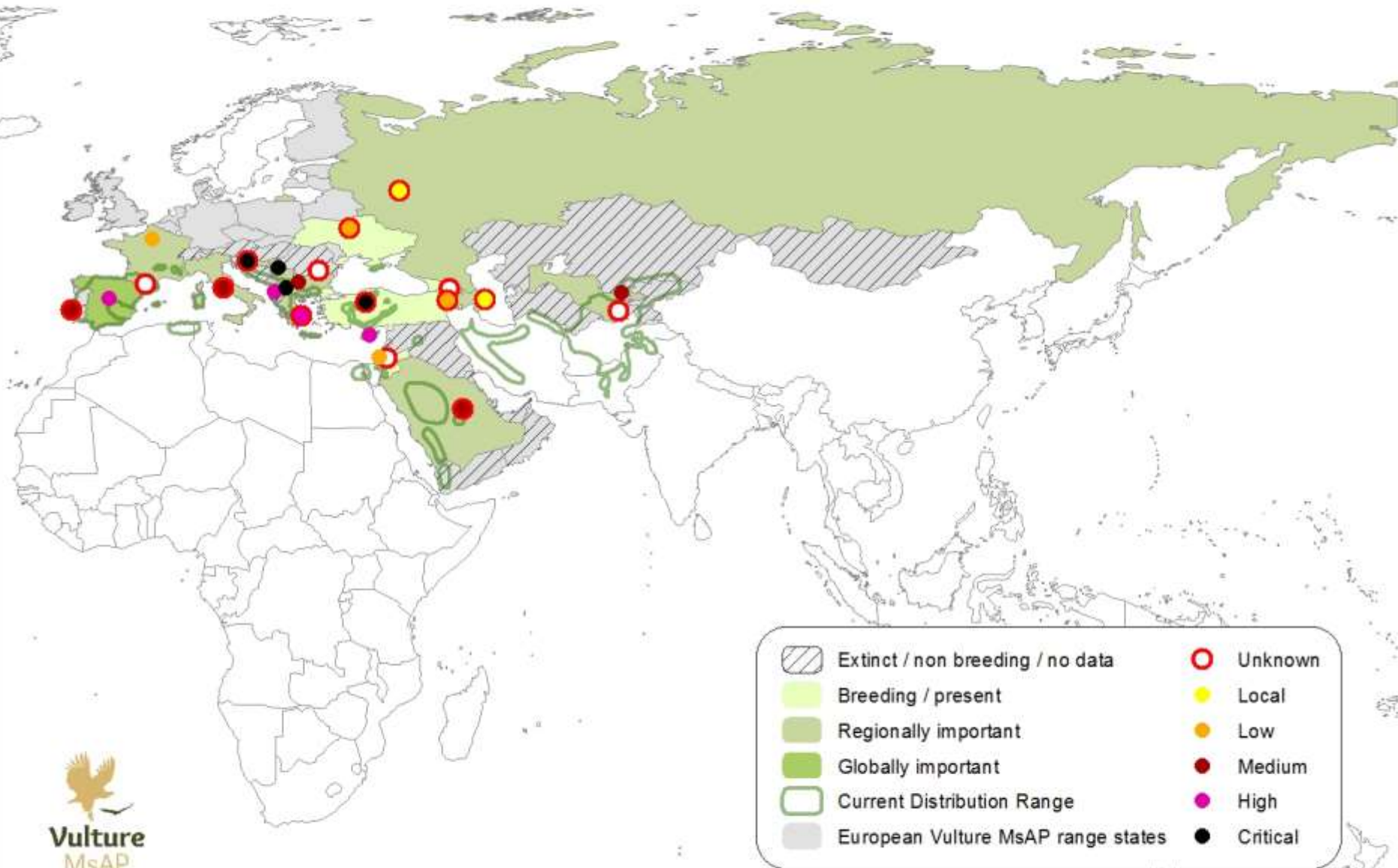
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Griffon Vulture (*Gyps fulvus*) - FOOD AVAILABILITY



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Threat Map – Poisoning



Threat Map – Collision



Threat Map – Electrocution



Threat Map - Lack of Food



Threat Map - Hunting / Poaching



Threat Map - Disturbance



Threat Map - Habitat loss / Degradation



APPROUCH AND METHODOLOGY



Vulture MsAP Workshops

- African Regional Workshop: *Ngor Diarama Hotel, Dakar, Senegal - 18-21 October 2016 (54 delegates)*
- European Regional Workshop: *Monfrague National Park, Extremadura, Spain 26-28 October 2016 (79 delegates)*
- Asian Regional Workshop: *Mumbai, India, 29-30 November 2016 (37 delegates)*
- Middle East Regional Workshop: *Sharjah, UAE, 6-9 February 2017 (42 delegates)*

NORTH AFRICA:
Unintentional poisoning; illegal killing,
taking and trade; reduced food

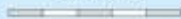
WEST AND CENTRAL AFRICA:
Targeted poisoning; unintentional
poisoning; illegal killing, taking and
trade; reduced food; habitat loss; policy

EAST AFRICA:
Unintentional poisoning;
electrocution; collisions;
habitat loss

SOUTHERN AFRICA:
Targeted poisoning;
unintentional poisoning;
electrocution;
collisions

**Main Threats
Affecting All Species
by Sub-region**

1000 km



600 mi



Prioritization of threats – European Workshop

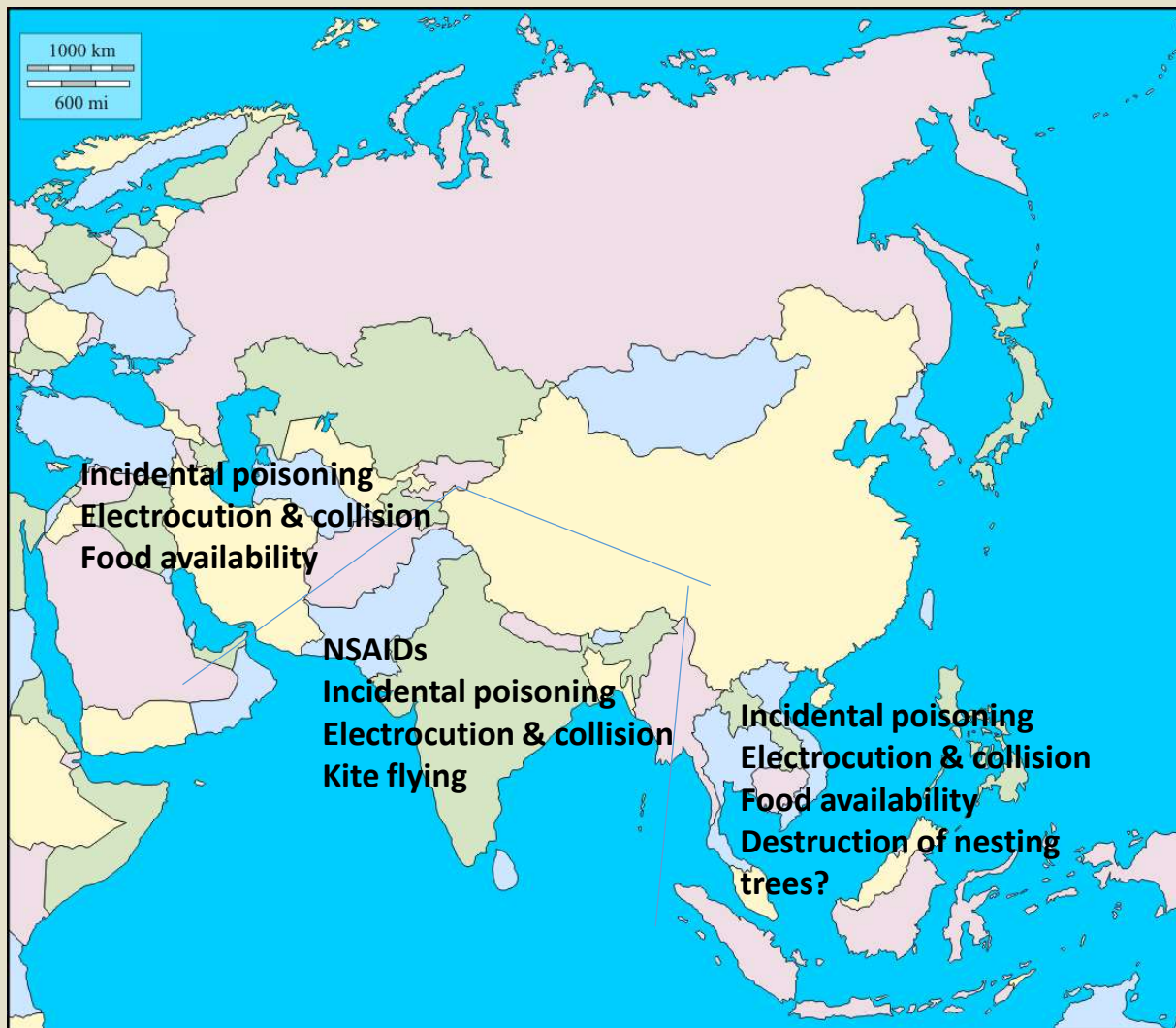


Definition	Scope	Severity	Time	Overall impact
Poisoning group				
Direct poisoning against wildlife/pets	3	3	3	Critical
Farming related indirect poisoning	2	1	3	High
Lead poisoning	2	2	3	High
Diclofenac	1	3	2	High
Poisoning by other vet drugs	2	1	3	High
Poisoning of pests on dumps	1	1	3	Medium
Collision and electrocution group				
Collision with moving vehicles	1	0	3	Low
Collision with any man made infrastructure excluding power lines or wind turbines	0	0	3	Low
Collision with any energy cables (transport and distribution)	3	2	3	Critical
Electrocution at power poles and pylons	3	2	3	Critical
Collision with wind turbines	2	2	3	High
Food availability group				
Shortage of freely available food	3	3	3	Critical
Inappropriate supplementary feeding	2	1	3	High
Unsafe water	1	1	3	Medium
Shortage of water	1	1	3	Medium
Other threats group				
Direct Persecution	2	1	3	High
Disturbance from HumanActivities (T)	2	1	3	High
Destruction of Habitat (P)	1	2	3	High
Genetic diversity loss	0	1	1	Low

Prioritization of threats - Asian Workshop



Threats	Scope	Severity	Timing	Overall impact
Poisoning by NSAIDS	3	3	3	Critical
Incidental poisoning	2	2	3	High
Electrocution	2	1	3	High
Collision with wires	2	1	3	High
Kite strings	1	2	3	High
Collision with vehicles (including aircraft)	1	1	3	Medium
Loss of nest sites	1	1	3	Medium
Collision with trains	1	1	3	Medium
Intentional poisoning	1	1	2	Medium
Collision with wind turbines	0	0	1	Low
Climate change	0	0	1	Low
Direct persecutiõn	0	1	3	Low
Food availability	0	3	3	Low
Disturbance	0	1	3	Low
Diffuse poisoning	3	0	1	Low
Poisoning by contaminated food	2	0	1	Low
Poisoning by other vet drugs	0	0	1	Low



Prioritization of threats - Middle East Workshop



Threats	Scope	Severity	Timing	Overall impact
Incidental poisoning (against wildlife-pets)	2	3	3	Critical
Electrocution	2	3	3	Critical
Collision with wires	2	2	3	High
Destruction of habitat	2	2	3	High
Shortage of freely available domestics carcasses	2	1	3	High
Disturbance from human activities	1	2	3	High
Decrease in food available in dumps	1	1	3	Medium
Poisoning by rodenticides at farms	1	1	3	Medium
Direct persecution	1	1	3	Medium
Climate change	3	1	1	Medium
Collision with wind turbines	1	1	2	Medium
Lead poisoning	0			Low
Poisoning of pests at dumps	0			Low
Collision with aircraft & vehicles	0			Low
Harvesting	0			Low
Loss of genetic diversity	0			Low
Poisoning by Diclofenac & other vet drugs	0			Low

THREAT PRIORITY





Vulture Multi-species Action Plan Overarching Workshop

