



Vulture Multi-species Action Plan Middle East regional Workshop

6-9th February – Middle East Regional Workshop, Sharjah, UAE

Recap day 1



- ✓ MsAP
- ✓ Oman and Saudi as a stronghold for vultures in the region
- ✓ Severe declines in Saudi
- ✓ Poisoning probably main threat
- ✓ Waste management an issue
- ✓ Trade may be a driving factor for declines

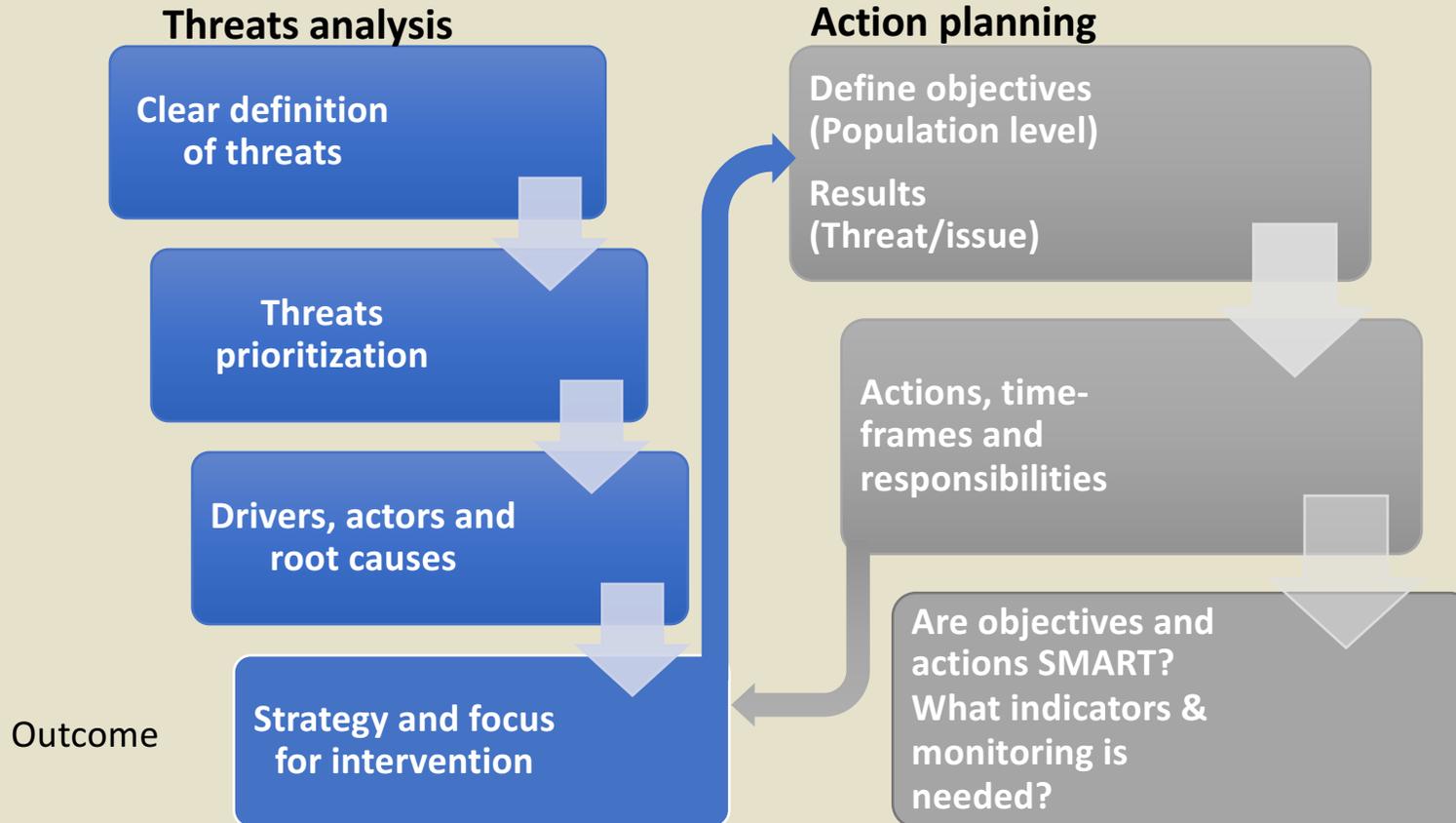
- ✓ Day 2 – threat analysis and prioritisation



Threats

How to analyse and rank them

Working process

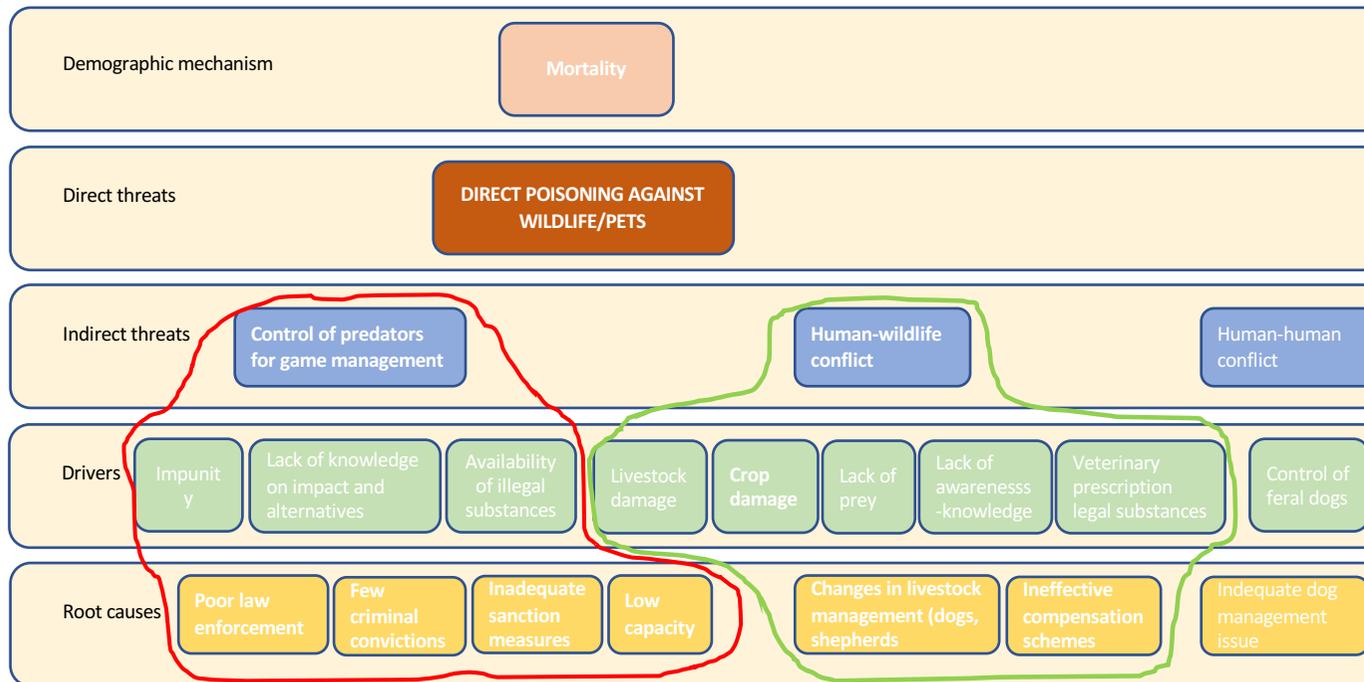


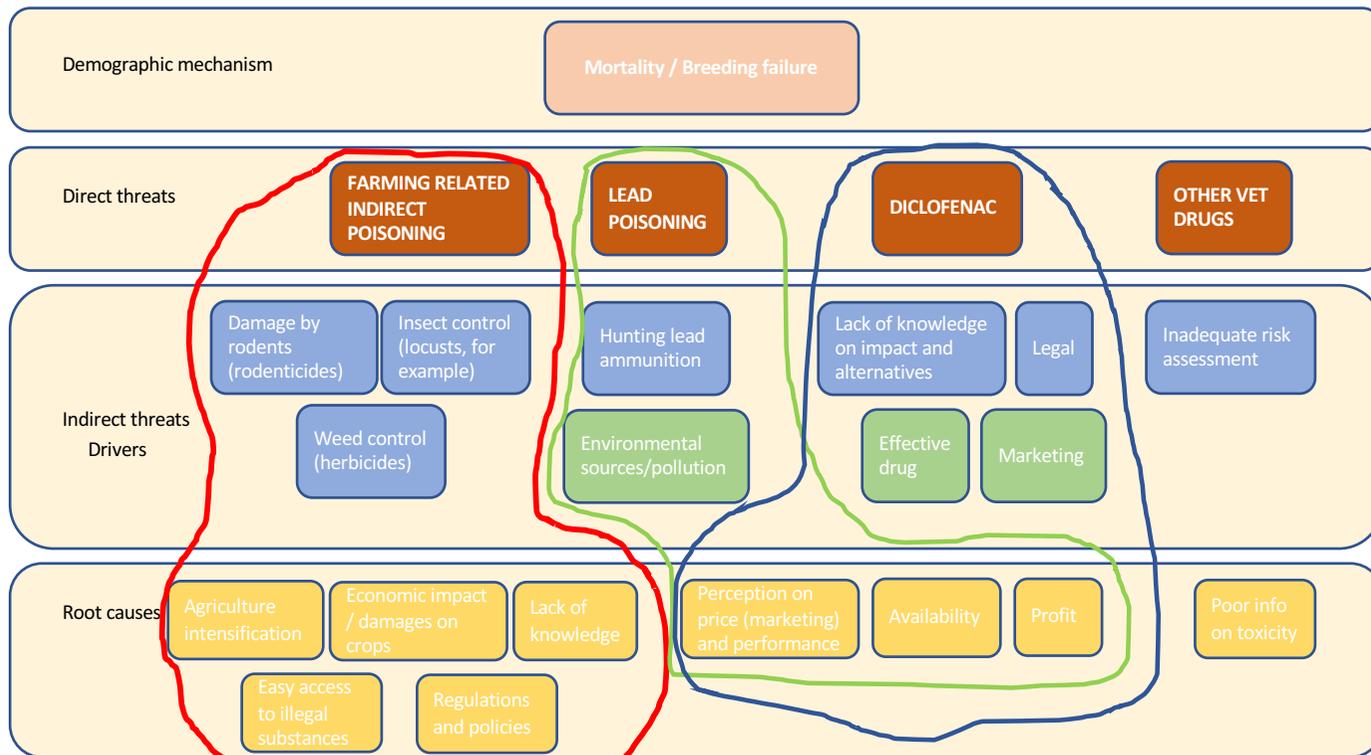
Threats categorization & analysis



- Link to clear drivers and root causes
- Actors and reasons for behavior specified

=> Decision on course of action based on the above





Demographic mechanism

Mortality / Breeding failure

Direct threats

FARMING RELATED
INDIRECT
POISONING

LEAD
POISONING

DICLOFENAC

OTHER VET
DRUGS

Indirect threats
Drivers

Damage by
rodents
(rodenticides)

Insect control
(locusts, for
example)

Weed control
(herbicides)

Hunting lead
ammunition

Environmental
sources/pollution

Lack of knowledge
on impact and
alternatives

Legal

Effective
drug

Marketing

Inadequate risk
assessment

Root causes

Agriculture
intensification

Economic impact
/ damages on
crops

Lack of
knowledge

Easy access
to illegal
substances

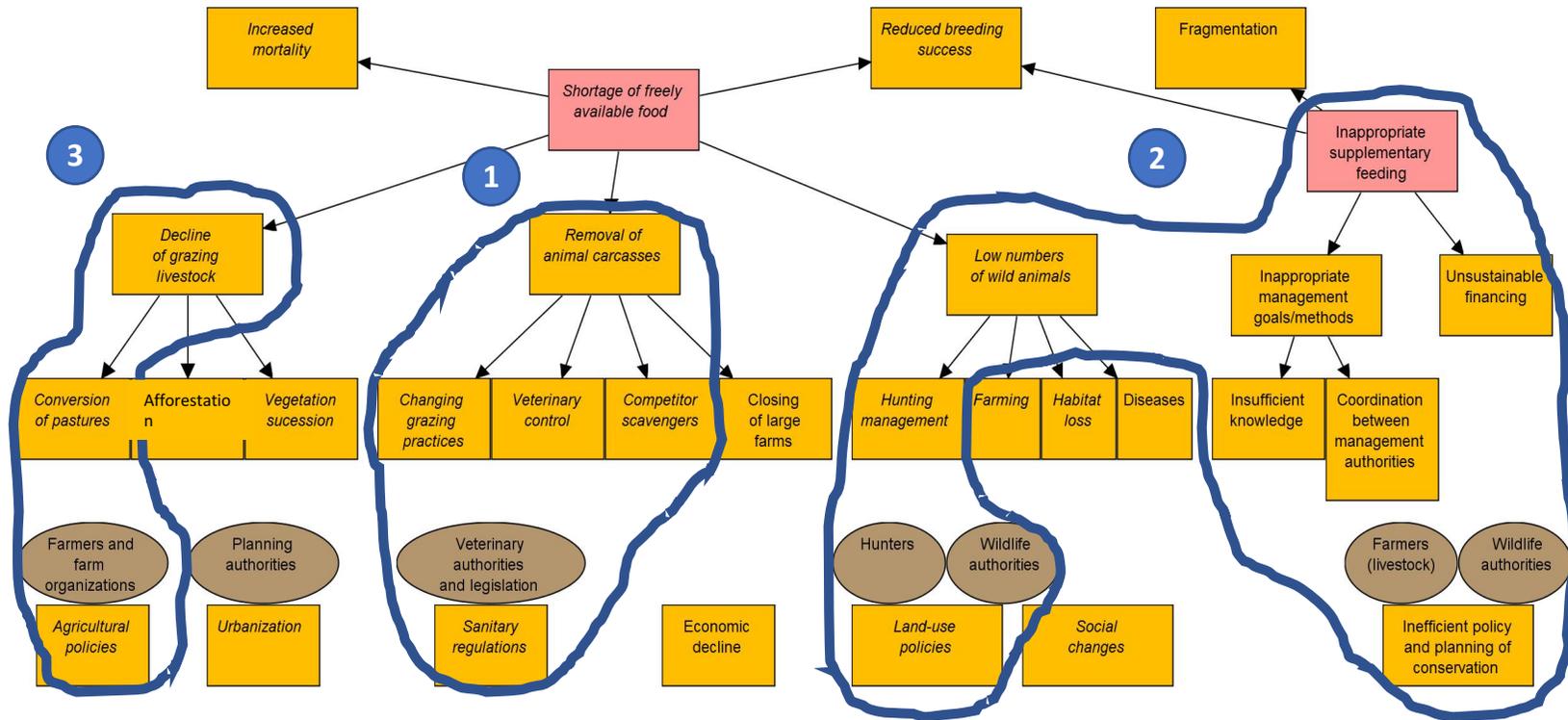
Regulations
and policies

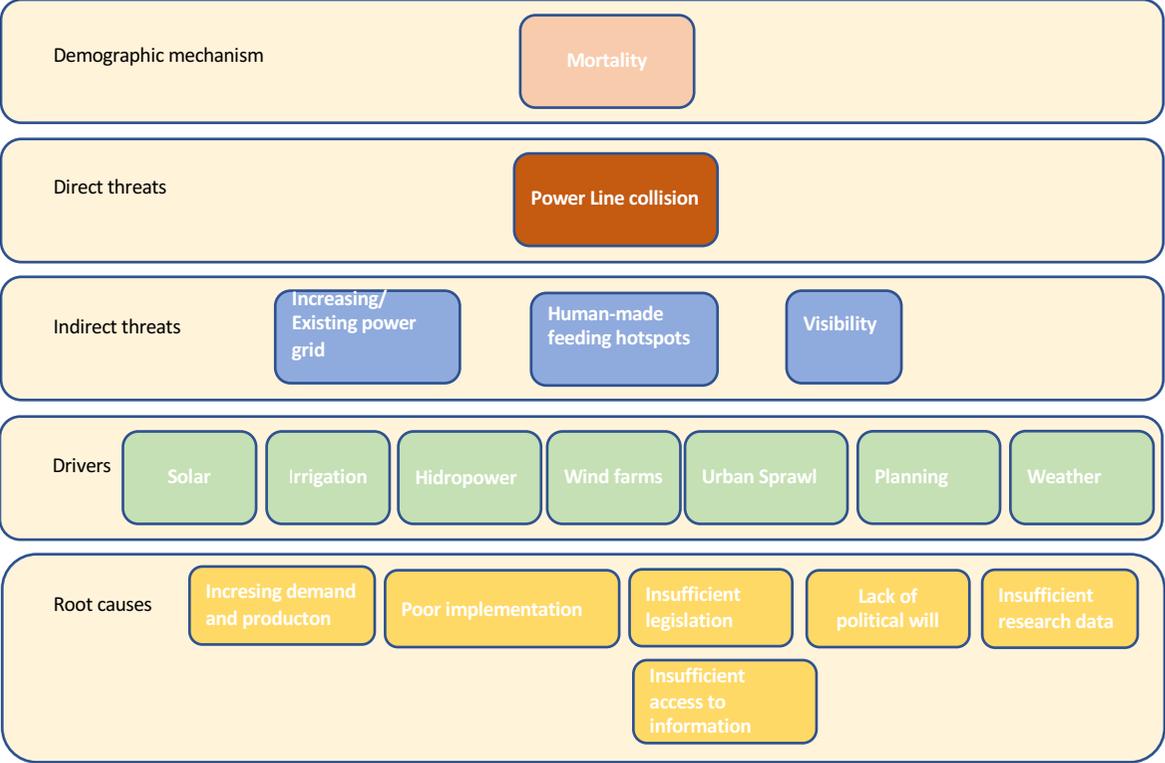
Perception on
price (marketing)
and performance

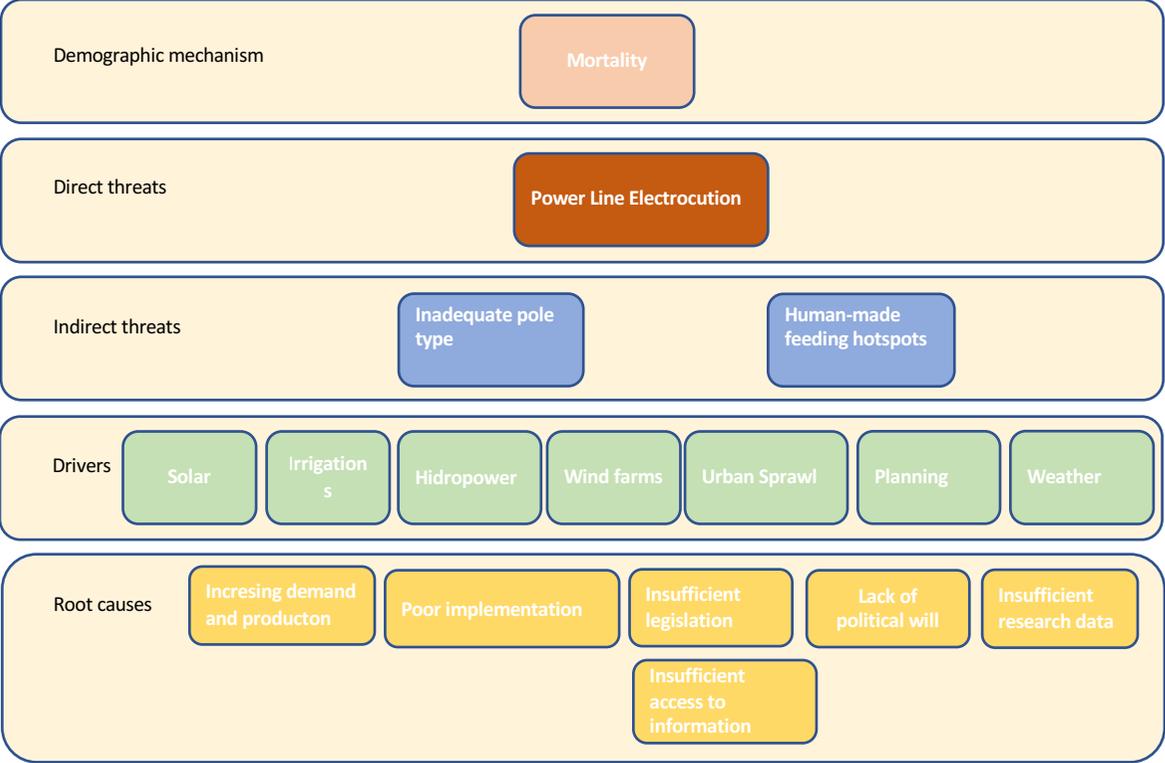
Availability

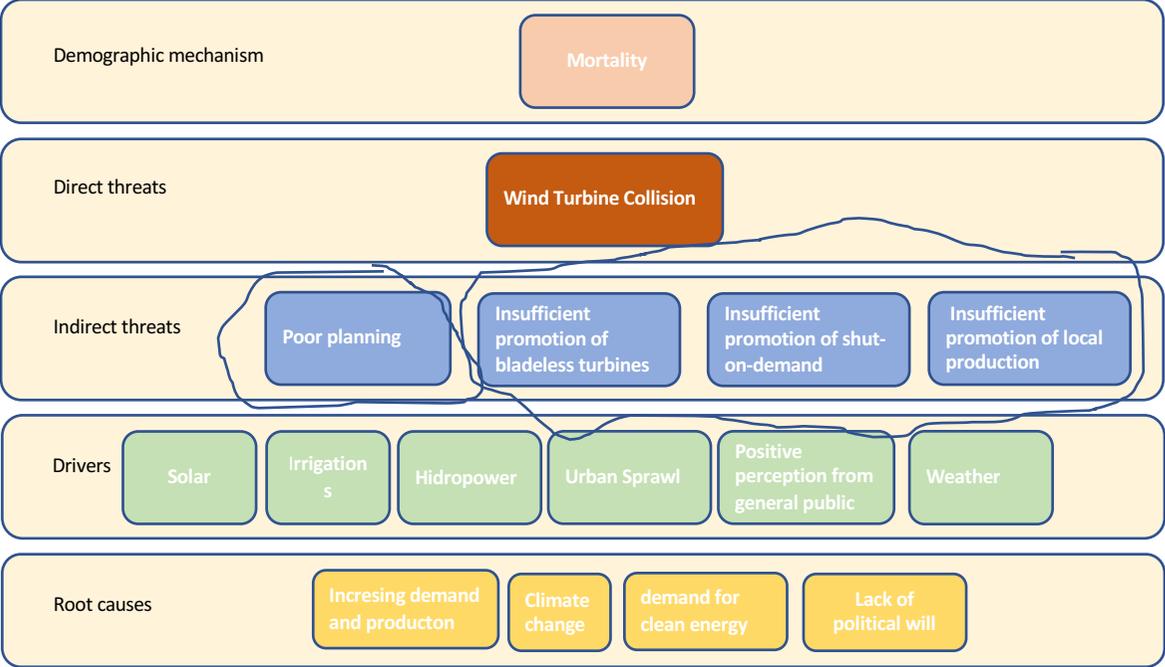
Profit

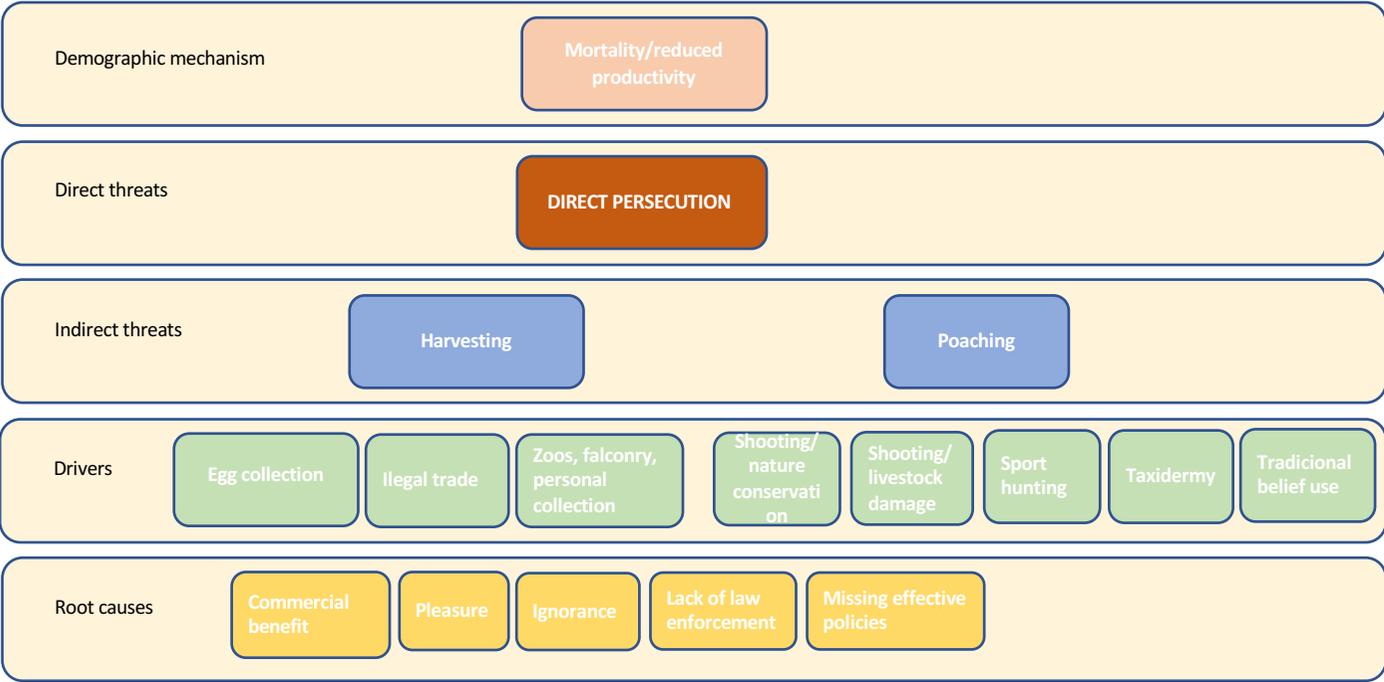
Poor info
on toxicity

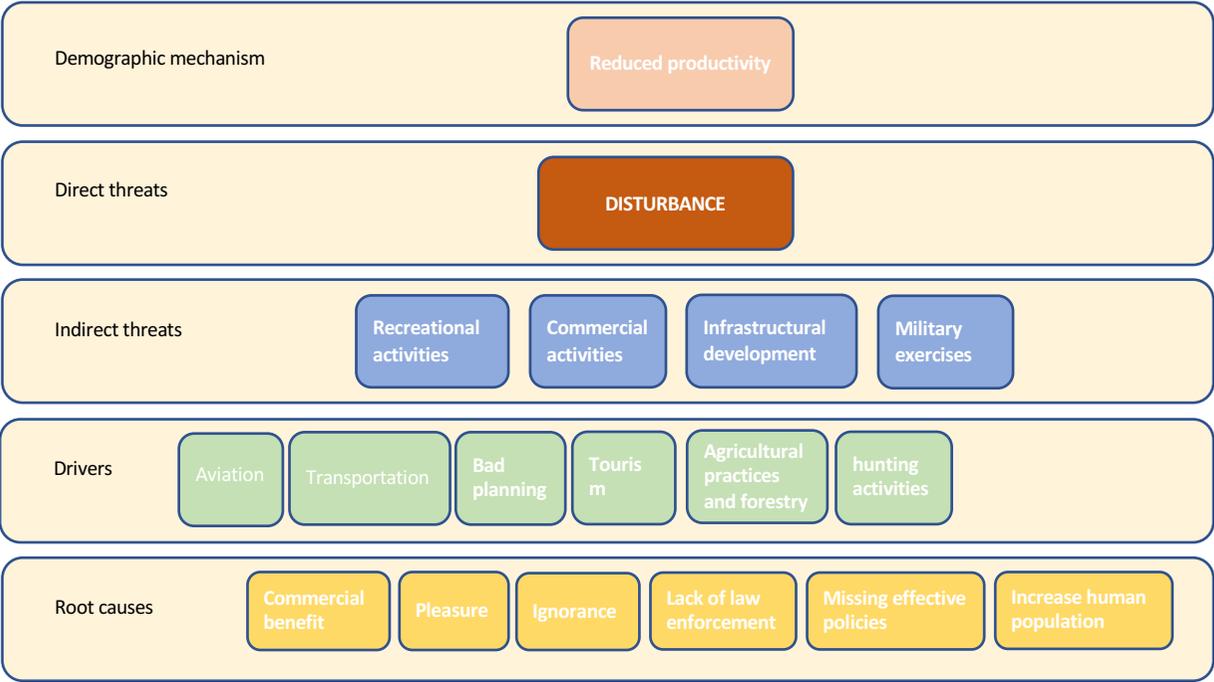












Scope of the threat



- % of the populations/ranges affected

- Entire (>90%) 3
- Most (50-90%) 2
- Some (10-50%) 1
 - Few/little (<10%) 0

Severity of threat



- What is the effect on the affected populations?

- | | |
|--------------------------|---|
| • Rapid deterioration | 3 |
| • Moderate deterioration | 2 |
| • Slow deterioration | 1 |
| • No deterioration | 0 |

Timing of threat



When is the threat likely to occur?

- Happening now 3
- Likely in short term (<4 years) 2
- Likely in long term (>4 years) 1
- Past and no longer applies 0

Impact of the threat

- Sum of scope + severity + timing
- But, if score = 0 for either scope, severity or timing, then impact = 0
- Precautionary approach: in case of insufficient information, assume the worst

Overall ranking of threats



If sum =

= 8-9 = top priority = Critical

= 6-7 = high priority = High

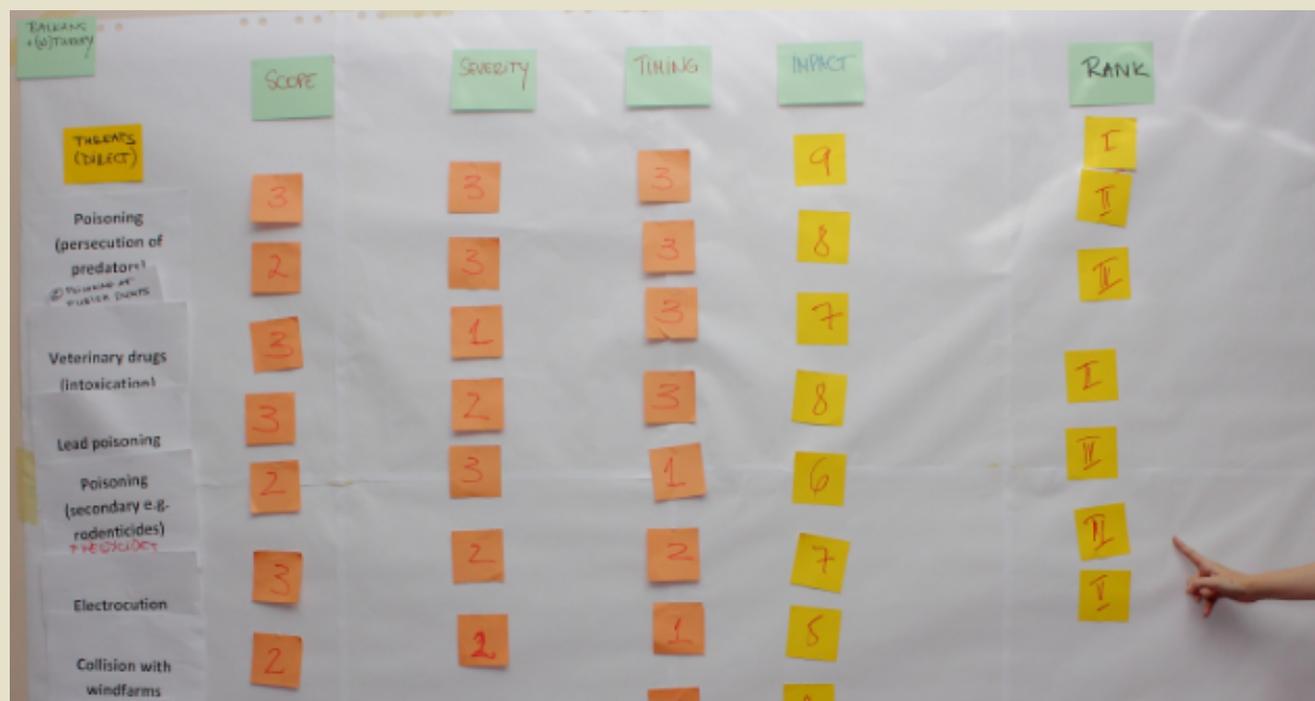
= 3-5 = medium priority = Medium

= 0-3 = low priority = Low

Vulture Multi-species Action Plan

Threats categorization & analysis

- Clear and specific definition of each direct threat
- Rank by order of impact (scope, timing, severity)



THREATS (LISTED)	SCORE	SEVERITY	TIMING	IMPACT	RANK
Poisoning (persecution of predators)	3	3	3	9	I
Veterinary drugs (intoxications)	2	3	3	8	II
Lead poisoning	3	1	3	7	III
Poisoning (secondary e.g. rodenticides)	3	2	3	8	I
Electrocution	2	3	1	6	II
Collision with windfarms	3	2	2	7	III
	2	2	1	5	I

Poisoning



Definition	Scope	Seve.	Time	Overall impact	Rank	Evidence
Direct poisoning against wildlife/pets	3	3	3	Critical	1	Good
Farming related indirect poisoning	2	1	3	High	3	Poor
Lead poisoning	2	2	3	High	2	Good on effects/poor on pop. dynamics population impacts
Diclofenac	1	3	2	High	3	Good
Poisoning by other vet drugs	2	1	3	High	3	Poor
Poisoning of pests on dumps	1	1	3	Medium	4	Poor

Food availability



Definition	Scope	Severity	Time	Overall impact	Rank	Evidence
Shortage of freely available food	3	3	3	Critical	1	Good
Inappropriate supplementary feeding	2	1	3	High	2	Good
Unsafe water	1	1	3	Medium	3	Poor
Shortage of water	1	1	3	Medium	3	Poor

Collision and electrocution



Definition	Scope	Severity	Time	Overall impact	Rank	Evidence
Collision with moving vehicles	1	0	3	Medium	3	Poor
Collision with any man made infrastructure excluding power lines or wind turbines	0	0	3	Low	4	Poor -ski resorts better)
Collision with any energy cables (transport and distribution)	3	2	3	Critical	1	Good
Electrocution at power poles and pylons	3	2	3	Critical	1	Good
Collision with wind turbines	2	2	3	High	2	Unknown

Collision and electrocution



Definition	Scope	Severity	Time	Overall impact	Evidence
Collision with moving vehicles & aircraft	0				
Collision with any man made infrastructure excluding power lines or wind turbines	0				
Collision with any energy cables (transmission and distribution)	2	2	3	High	Substantial lack of data – mortalities are not recorded in most range countries; need risk assessment and maps
Electrocution at power poles and pylons	2	3	3	Critical	Substantial lack of data – mortalities are not recorded in most range countries; need risk assessment and maps
Collision with wind turbines	1	1	2	Moderate	Egypt, Jordan, planned for Iran, Oman. Lack of

Vult

on Plan

Other threats



Definition	Scope	Severity	Time	Overall impact	Rank	Evidence
Direct Persecution	2	1	3	High	1	Good
Disturbance from Human Activities (T)	2	1	3	High	2	Poor
Destruction of Habitat (P)	1	2	3	High	3	Good
Genetic diversity loss	0	1	1	Low	4	Poor

Other threats



Definition	Scope	Severity	Time	Overall impact	Evidence
Direct Persecution	1	1	3	Moderate	Limited occurrence in some range countries only, lack of evidence
Disturbance from Human Activities (T)	1	2	3	High	More severe in KSA & Egypt
Destruction of Habitat (P)	2	2	3	High	Good from KSA, more research needed
Harvesting/Trade	0				Lack of evidence
Genetic diversity	0				

Consolidated draft threat prioritization (Europe, Middle East & Central Asia)

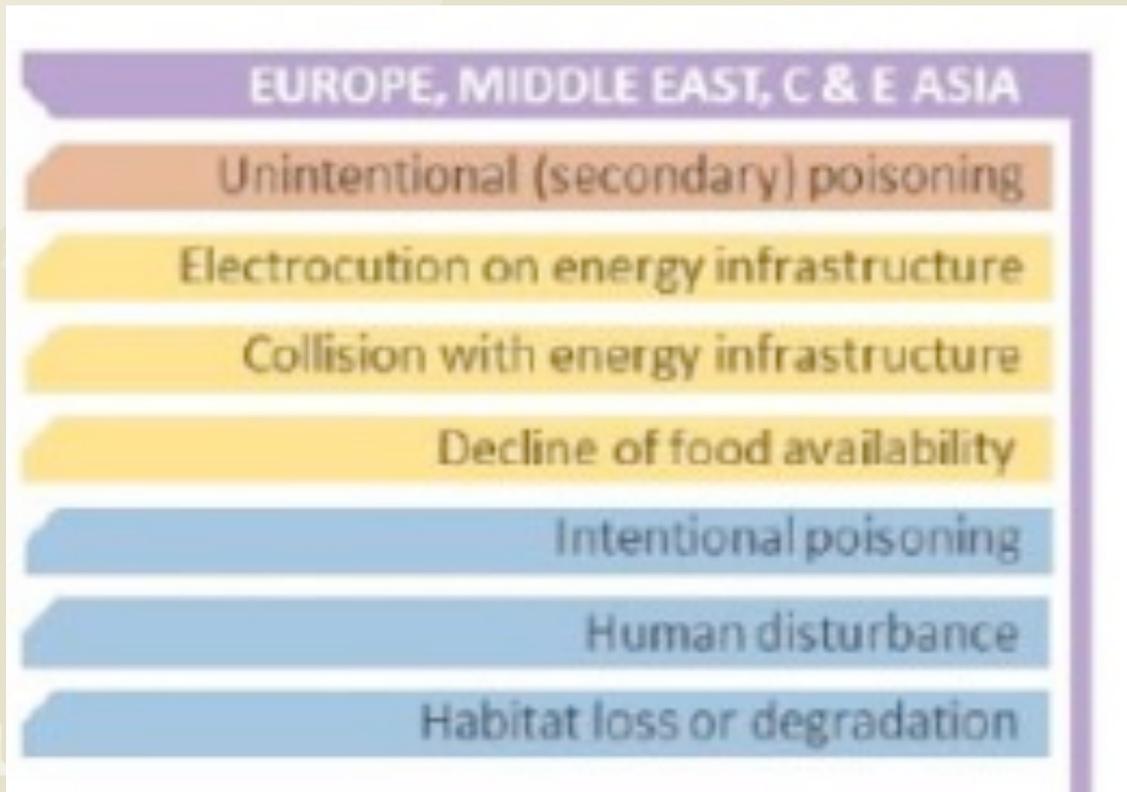


Table indicating priority threats for the Vulture in the Middle East from Prof. Shobrak



Threats	
Unintentional (secondary) poisoning	Critical
Insecticide (locust control + Garg dump control)	Critical
Human Disturbance	Critical
Habitat Lost or degradation (Nesting site & over Grazing + tree cutting)	High
Electrocution on energy infrastructure	Medium
Collision on energy infrastructure	Medium
Lost of mammalian Predators (carnivores)	Medium
Food Availability and suitability	Medium
Roads accidents & man made structure	Low
Trade	Low

PRIORITY THREATS according to the questionnaires received



- POISONING
- LACK OF FOOD
- DISTURBANCE
- HABITAT LOSS
- COLLISION
- POACHING
- ELECTROCUTION



Group work

2 groups – i) Poisoning & Declining food availability
ii) Electrocution & Collision, Other threats



- ✓ Qualify and validate threat prioritization from Monfrague/Prof. Shobrak/Questionnaires
- ✓ Check problem trees



- Brainstorm – all ideas count
- Debate – focus on priorities
- Keep moving – don't get stuck on details, review
- Record accurately and in full detail
- Report to plenary

Evaluate and qualify

EUROPE, MIDDLE EAST, C & E ASIA
Unintentional (secondary) poisoning
Electrocution on energy infrastructure
Collision with energy infrastructure
Decline of food availability
Intentional poisoning
Human disturbance
Habitat loss or degradation

Threats	Score	
Unintentional (secondary) poisoning	++++	Critical
Insecticide (locust control + Garg dump control)	++++	Critical
Human Disturbance	++++	Critical
Habitat Lost or degradation (Nesting site & over Grazing + tree cutting)	+++	High
Electrocution on energy infrastructure	++	Medium
Collision on energy infrastructure	++	Medium
Lost of mammalian Predators (carnivores)	++	Medium
Food Availability and suitability	++	Medium
Roads accidents & man made structure	+	Low
Trade	+	Low



- POISONING
- LACK OF FOOD
- DISTURBANCE
- HABITAT LOSS
- COLLISON
- POACHING
- ELECTROCUTION

Always present...

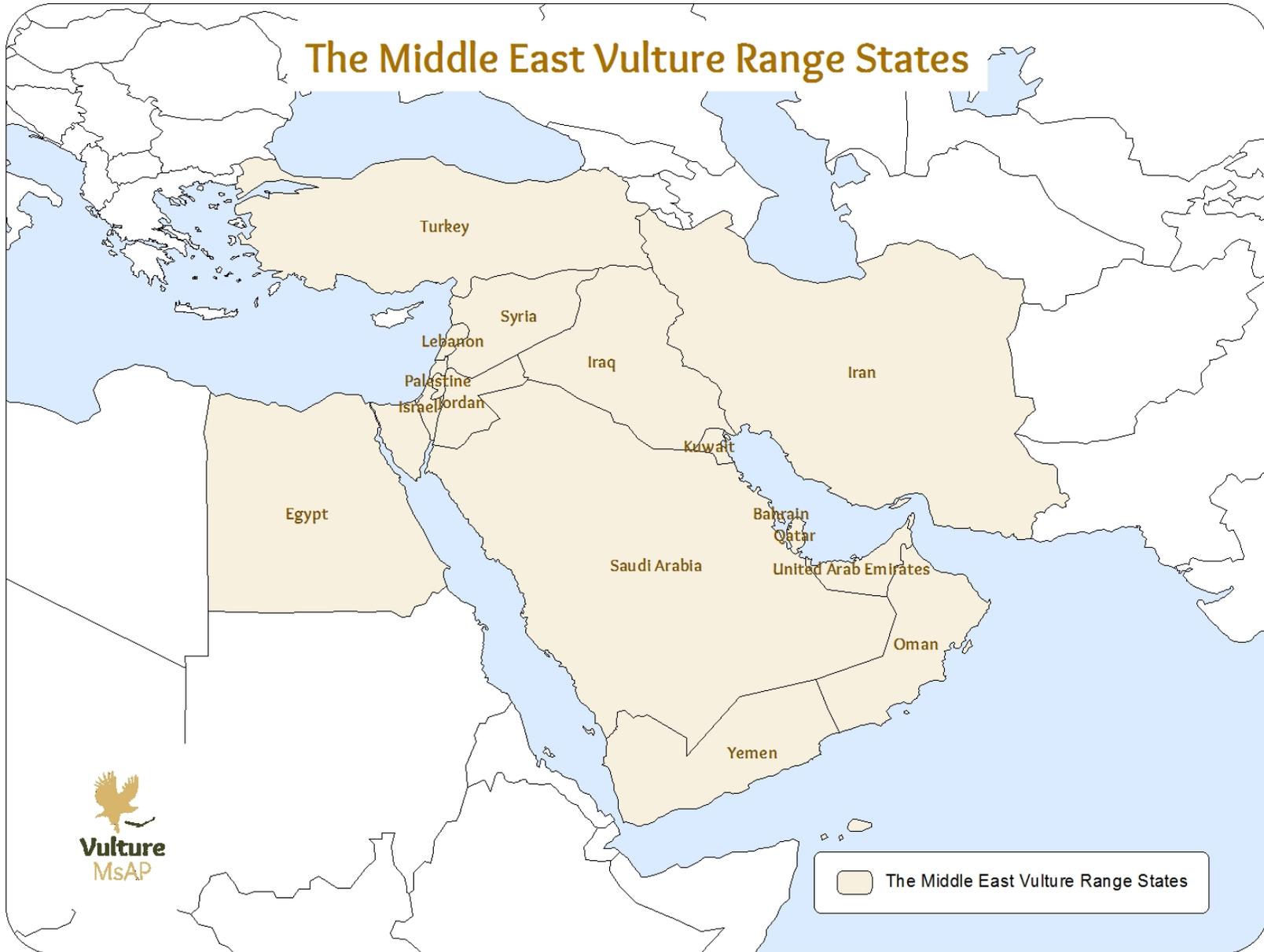


- Priorities
- Science-based – information, not supposition
- All 5 species taken together
- All ranges considered
- All populations pooled



Vulture Multi-species Action Plan

The Middle East Vulture Range States



 The Middle East Vulture Range States

Results from Group 2 Discussions

Collision and electrocution



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on Plan

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Destruction of Habitat (P)	2	2	3	High	Good from KSA, more research needed
Harvesting/Trade	0				Lack of evidence
Genetic diversity	0				
Climate change	3	1	1	Moderate	More research required in terms of