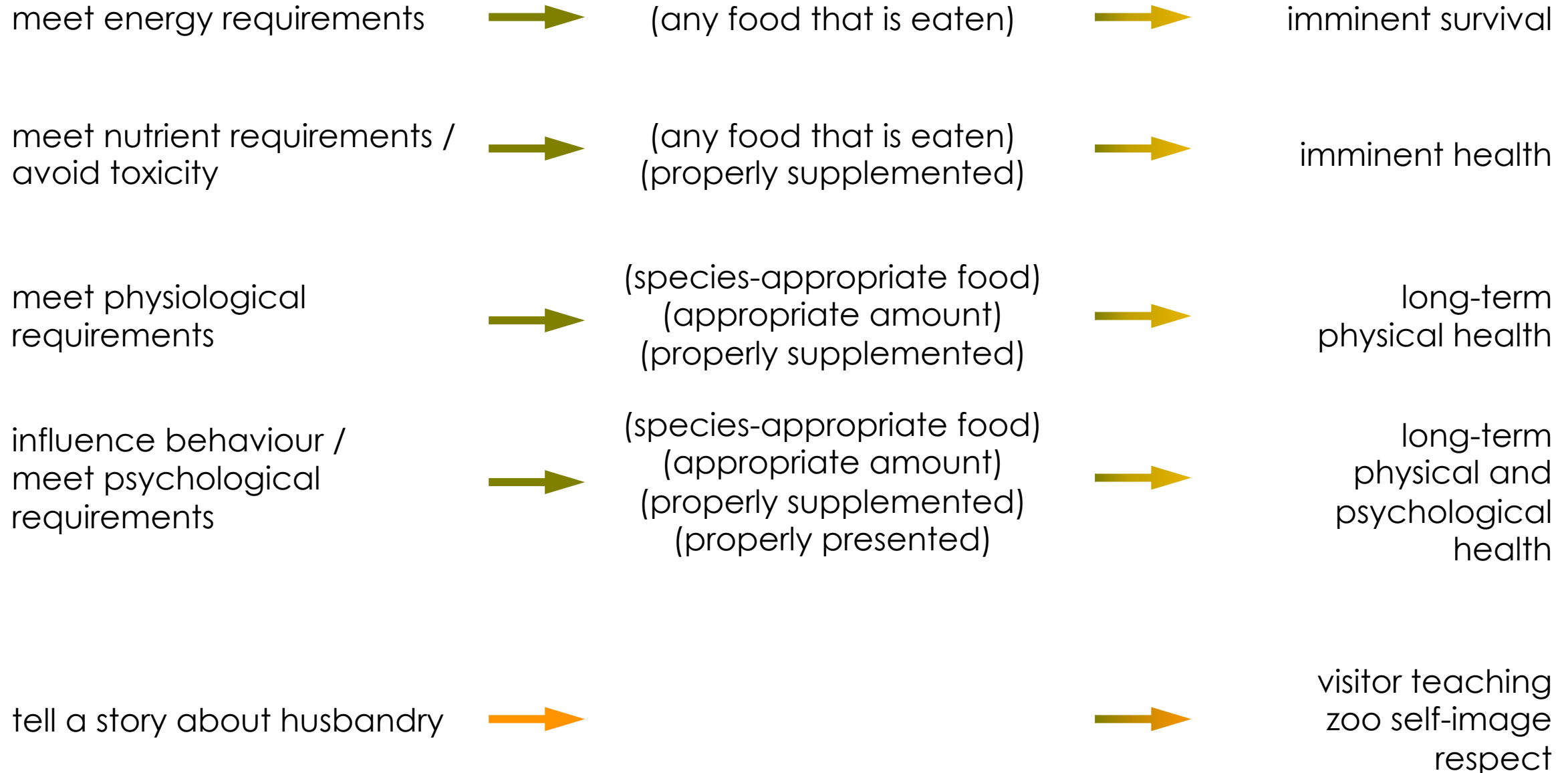




Zoo animal husbandry is public



We feed zoo animals and we ...





What is your story ?





What is your story ?

“We show you that you can maintain wild animals in human care with diets that do not resemble the ones they eat in the wild.”



What is your story ?





What is your story ?

“We are concerned with conservation and welfare but we think it has nothing to do with feeding natural diets.”



What is your story ?





What is your story ?

“Nature sucks.
Let us rather do
something unnatural
—
it is much more fun.”



What is your story ?





What is your story ?

“Hurray for Chiquita!”





What is your story ?





What is your story ?





What is your story ?



At our zoo, we show you
that it is ok to treat
animals like cartoon
characters.





What is your story ?



At our zoo, we show you that it is ok to treat animals like cartoon characters.



And by the way, we justify it by saying conservation is important.



Semantics

words matter



Euphemisms

'Shellshock'



'Global warming'



'Pornography'



'Prison'





Euphemisms

'Shellshock'



'Combat fatigue'

'Global warming'



'Climate change'

'Pornography'



'Adult content'

'Prison'



'Correctional facility'



Euphemisms

'Shellshock'



'Combat fatigue'

'Global warming'



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'Correctional facility'

'Standard decency'





Euphemisms

'Shellshock'



'Combat fatigue'

'Global warming'



'Climate change'

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'Adult content'

'Prison'



'Correctional facility'

'Standard decency'



'Enrichment'



Euphemisms

'Shellshock'	↔	'Combat fatigue'
'Global warming'	↔	'Climate change'
'Pornography'	↔	'Adult content'
'Prison'	↔	'Correctional facility'
'Standard decency'	↔	'Enrichment'

Frequent scatter feeding is not 'enrichment'.





Euphemisms

'Shellshock'	↔	'Combat fatigue'
'Global warming'	↔	'Climate change'
'Pornography'	↔	'Adult content'
'Prison'	↔	'Correctional facility'
'Standard decency'	↔	'Enrichment'

Frequent scatter feeding is not 'enrichment'.
Lump feeding in 1-2 meals is pauperization.





Contingency plan ?

If you feed your tiger like this ...





Contingency plan ?

If you feed your tiger like this ...



... you deprive it of 0.5-3 hours of hunt/ chase/ strain/ effort every day.



Contingency plan ?

If you feed your tiger like this ...



... you deprive it of 0.5-3 hours of hunt/ chase/ strain/ effort every day.

What is your plan to compensate for that ?



Contingency plan ?

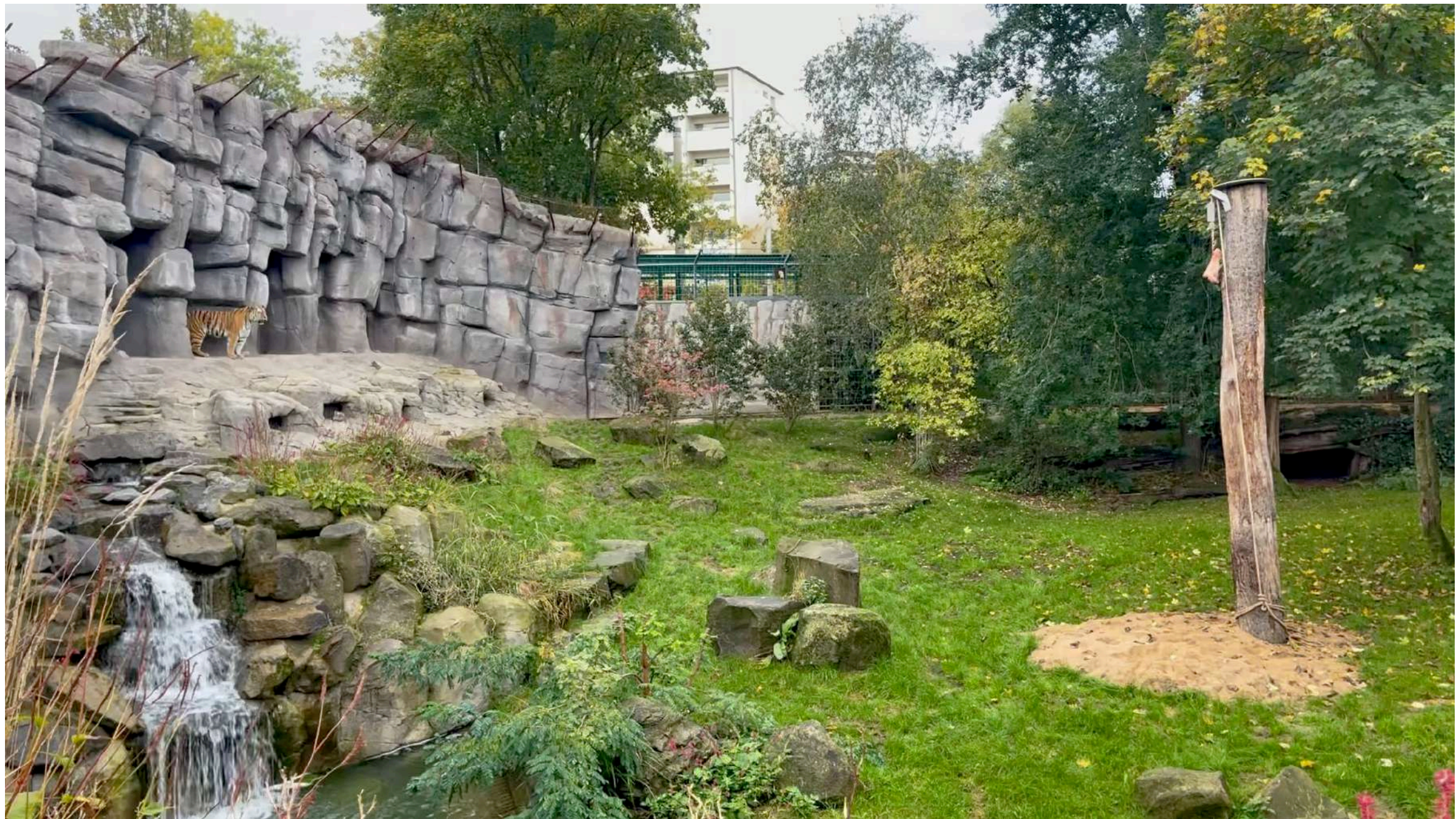
If you feed your tiger like this ...



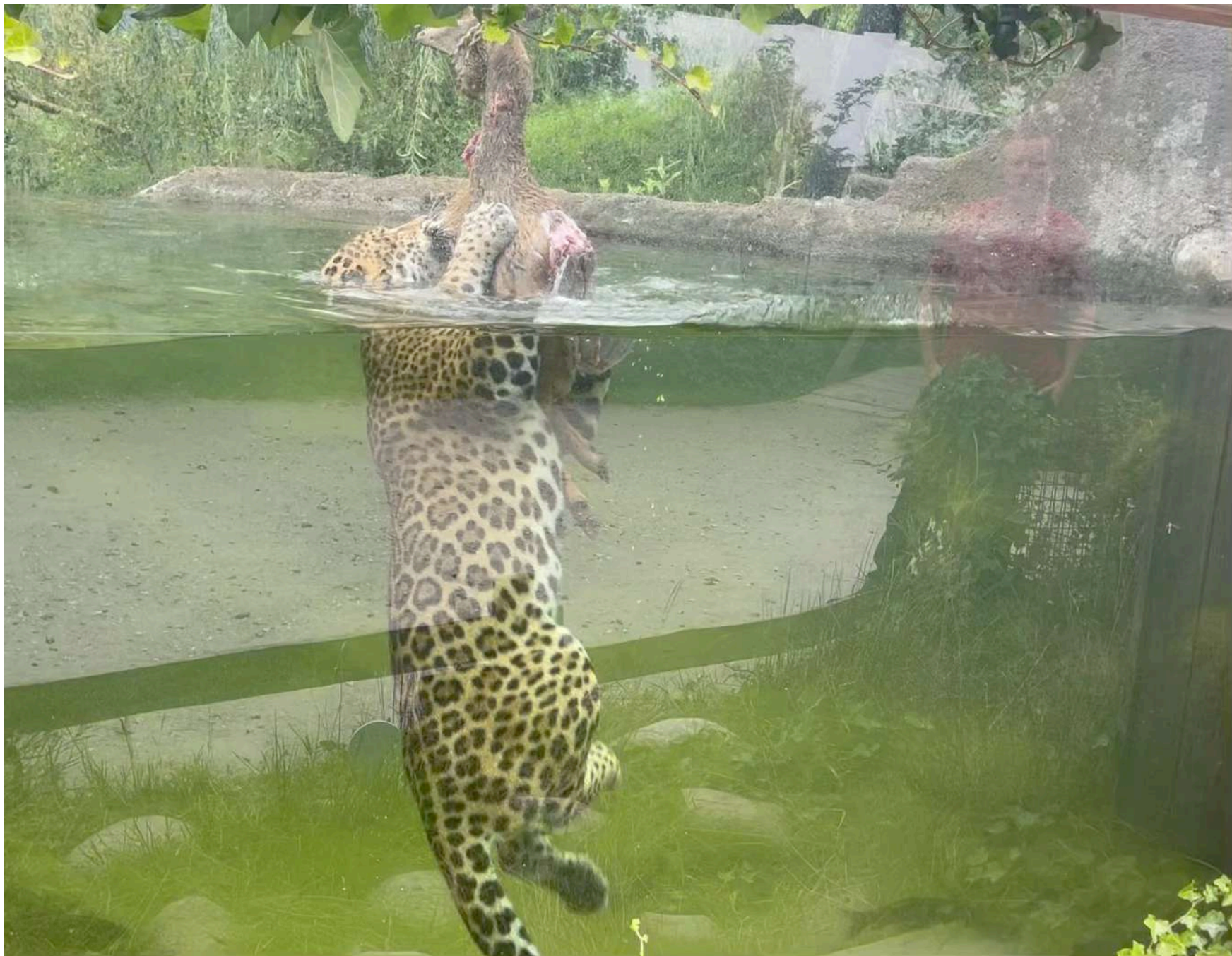
... you deprive it of 0.5-3 hours of hunt/ chase/ strain/ effort every day.

What is your plan to compensate for that ?

How will this affect other behaviours, especially resting?



Cellina Kleinlugtenbelt (2022)



Cellina Kleinlugtenbelt (2022)



Cellina Kleinlugtenbelt (2022)



Contingency plan ?

If you feed your meerkat like this ...



... you deprive it of 3-4 hours of searching effort every day.

What is your plan to compensate for that ?

How will this affect other behaviours, especially resting?



Automated scatter feeding





Contingency plan ?

If you feed your herbivore like this ...



... you deprive it of a lot of locomotion and searching effort every day.

What is your plan to compensate for that ?

How will this affect other behaviours, especially resting?



Difficult access for herbivores





Checklist

What is the natural food?





Checklist

What is the natural food?



What is the appropriate surrogate food?





Checklist

What is the natural food?
What are the (assumed) requirements?



Item	Quantity	Unit	Notes
Hay	10	kg	
Grain	5	kg	
Supplements	1	kg	
Water	10	litres	
Bedding	10	kg	
Stable equipment	1	set	
Transport	1	unit	
Veterinary services	1	unit	
Insurance	1	unit	
Feed storage	1	unit	
Stable management	1	unit	
Health monitoring	1	unit	
Record keeping	1	unit	
Emergency plan	1	unit	
Stable hygiene	1	unit	
Stable ventilation	1	unit	
Stable lighting	1	unit	
Stable heating	1	unit	
Stable cooling	1	unit	
Stable security	1	unit	
Stable insurance	1	unit	
Stable maintenance	1	unit	
Stable cleaning	1	unit	
Stable repair	1	unit	
Stable replacement	1	unit	
Stable disposal	1	unit	
Stable recycling	1	unit	
Stable energy	1	unit	
Stable water	1	unit	
Stable air	1	unit	
Stable ground	1	unit	
Stable sky	1	unit	
Stable sun	1	unit	
Stable moon	1	unit	
Stable stars	1	unit	
Stable planets	1	unit	
Stable galaxies	1	unit	
Stable universe	1	unit	

What is the appropriate surrogate food?





Checklist

What is the natural food?

What are the (assumed) requirements?



Item	Unit	Quantity	Unit Price	Total Price
Donkey feed	kg	100	1.50	150.00
Donkey feed	kg	100	1.50	150.00
Donkey feed	kg	100	1.50	150.00
Donkey feed	kg	100	1.50	150.00
Donkey feed	kg	100	1.50	150.00
Donkey feed	kg	100	1.50	150.00
Donkey feed	kg	100	1.50	150.00
Donkey feed	kg	100	1.50	150.00
Donkey feed	kg	100	1.50	150.00
Donkey feed	kg	100	1.50	150.00

What is the appropriate surrogate food?

What safety feeds do I need?





Checklist

What is the natural food?

What are the (assumed) requirements?

What is the natural foraging mode?

What is the natural feeding frequency?

What is the appropriate surrogate food?

What safety feeds do I need?

What feeding behaviour should be evoked?



Species	Sex	Age	Weight (kg)	Height (cm)	Feeding frequency (times/day)	Foraging mode	Surrogate food	Safety feed	Feeding behaviour
Horse	Male	Adult	500	160	10	Grazing	Hay	Grain	Grazing
Horse	Female	Adult	450	155	10	Grazing	Hay	Grain	Grazing
Horse	Male	Juvenile	200	100	10	Grazing	Hay	Grain	Grazing
Horse	Female	Juvenile	180	95	10	Grazing	Hay	Grain	Grazing
Horse	Male	Adult	550	165	10	Grazing	Hay	Grain	Grazing
Horse	Female	Adult	500	160	10	Grazing	Hay	Grain	Grazing
Horse	Male	Adult	520	162	10	Grazing	Hay	Grain	Grazing
Horse	Female	Adult	480	158	10	Grazing	Hay	Grain	Grazing
Horse	Male	Adult	510	161	10	Grazing	Hay	Grain	Grazing
Horse	Female	Adult	490	159	10	Grazing	Hay	Grain	Grazing





Checklist

What is the natural food?

What are the (assumed) requirements?

What is the natural foraging mode?

What is the natural feeding frequency?

What is the appropriate surrogate food?

What safety feeds do I need?

What feeding behaviour should be evoked?

How often should food be provided?



Item	Quantity	Unit	Frequency	Notes
Grass	10	kg	Daily	
Hay	5	kg	Daily	
Grain	2	kg	Daily	
Minerals	1	kg	Weekly	
Vitamins	1	kg	Weekly	
Water	10	liters	Daily	
Bedding	10	kg	Daily	
Exercise	1	hour	Daily	
Enrichment	1	hour	Daily	
Health	1	check	Weekly	
Veterinary	1	visit	Monthly	
Farrier	1	visit	Monthly	
Dentist	1	visit	Monthly	
Farmer	1	visit	Monthly	
Trainer	1	visit	Monthly	
Handler	1	visit	Daily	
Observer	1	visit	Daily	
Recorder	1	visit	Daily	
Analyst	1	visit	Daily	
Reporter	1	visit	Daily	
Reviewer	1	visit	Daily	
Approver	1	visit	Daily	
Sign-off	1	visit	Daily	





Thank you for your attention