



ANIMAL WELFARE AOTEAROA

# Some implications of sentience for understanding and assessing animal welfare (And how the Five Domains model can help)

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# Key points

1. Acknowledging sentience steers us towards the 'affective state' orientation to understanding and assessing AW
2. Importance of specific descriptions of negative experiences to accurately assess animal welfare
3. Absence of negative experiences  $\neq$  good welfare
4. Use of '5 Domains' model emphasizes affective state and encourages specificity and comprehensiveness

# 1. Sentience steers us to 'affective state' orientation to AW

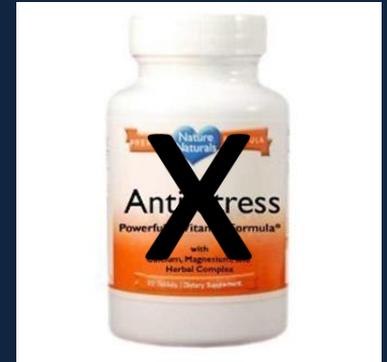
- Sentience = capacity to have -ve and +ve mental experiences
- Characterizations of AW should emphasize mental experiences as most relevant outcomes
- Affective state orientation: Welfare is state within animal arising from integration of mental experiences/affective states
- Versus
  - Biological Functioning: Healthy and productive
  - Natural living: Natural environment and expression of natural behaviour

## 2. Dissecting distress: Importance of specific terminology

- **AWS focus on “Pain & distress” or “Pain & suffering”**
- **Aim: Cover all negative bases**
- **Reality: Limit accuracy of welfare assessments**

# Problems with generic terms

1. Don't facilitate understanding of cause
2. Don't facilitate targeted solutions
3. Under-emphasize importance of other negative experiences *e.g. breathlessness*
4. Fail to look for/recognize evidence of other negatives  
*"Pain & distress" or "Pain & suffering" → "Pain et al."*



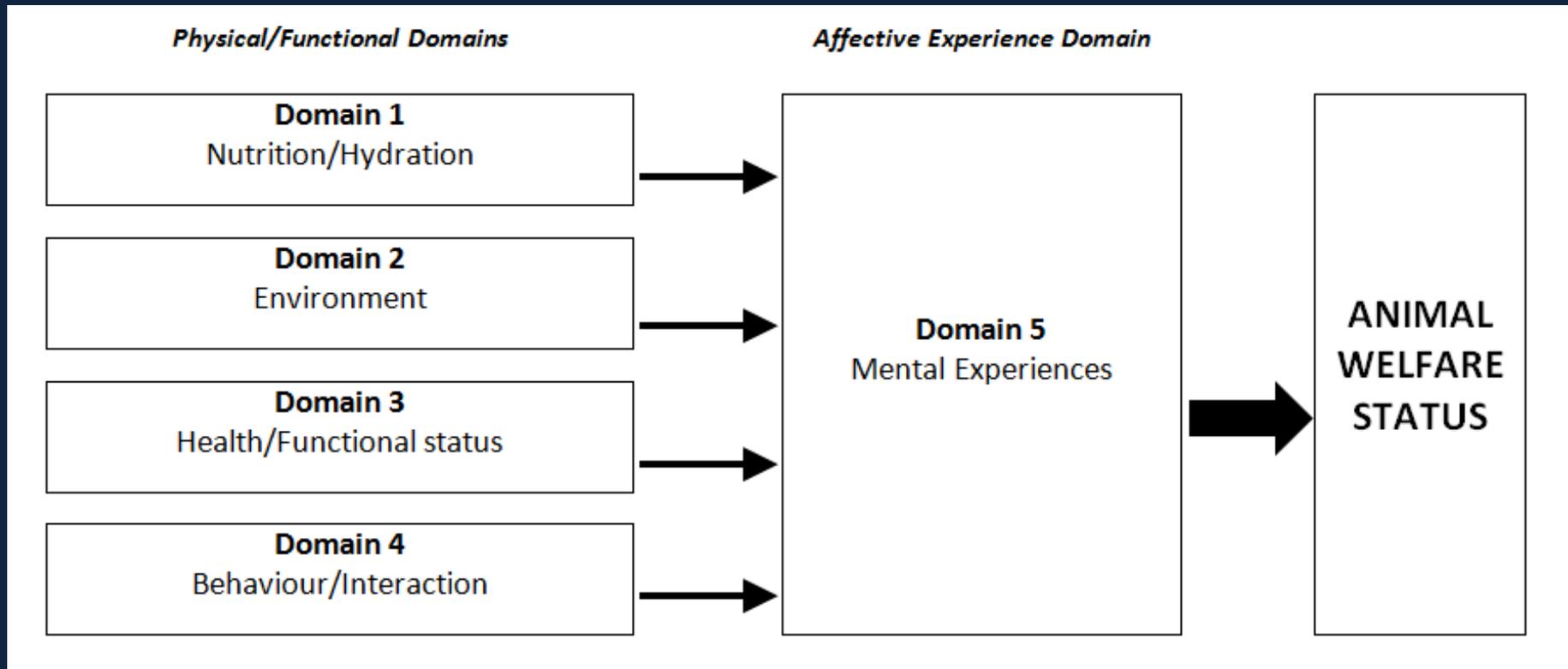
# 3. Absence of negatives not sufficient for good welfare

Challenges with changing paradigm include:

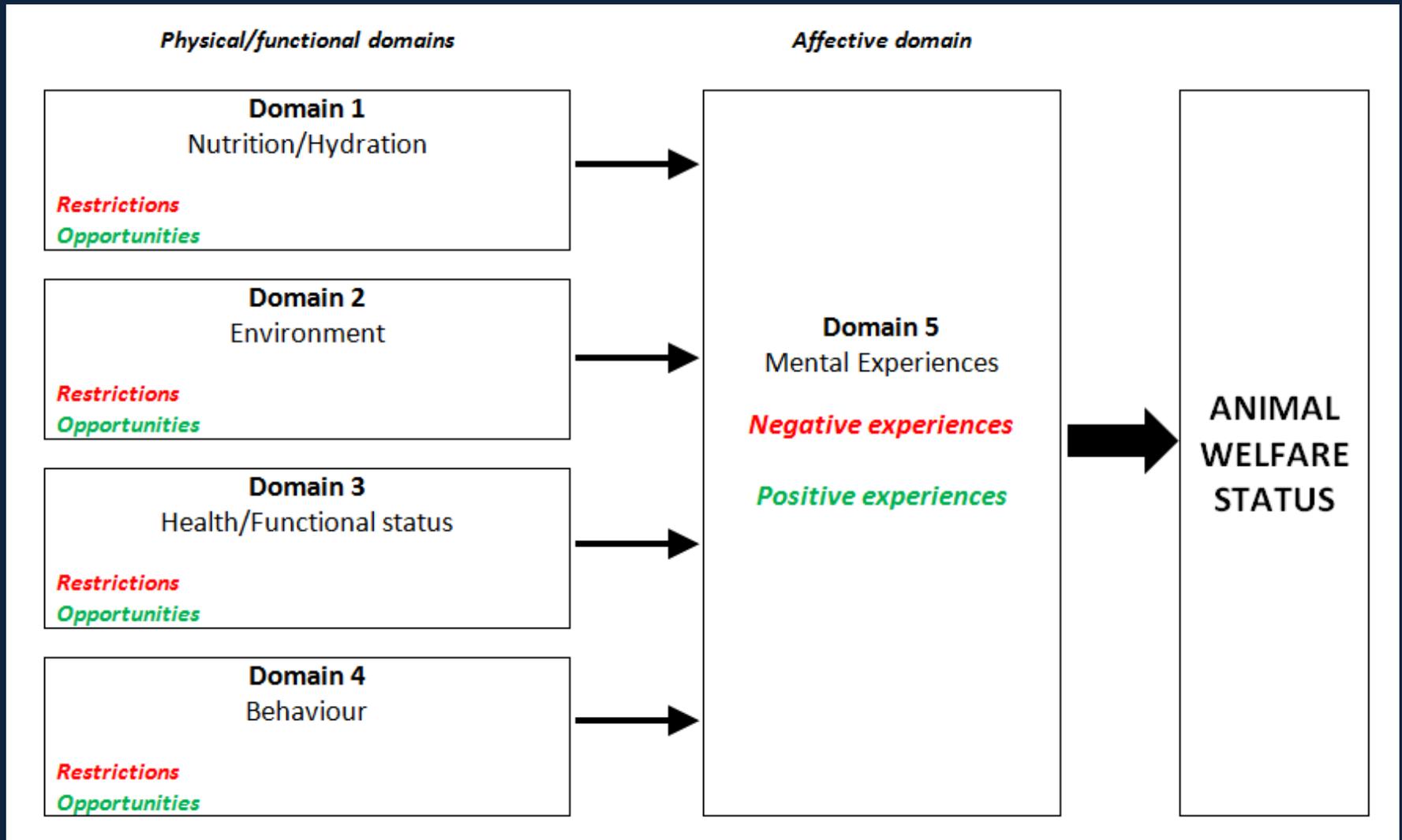
- Validated indicators of +ves?
- How much +ve is enough?
- Can some –ves be offset by +ves?



# Five Domains model



# Five Domains model

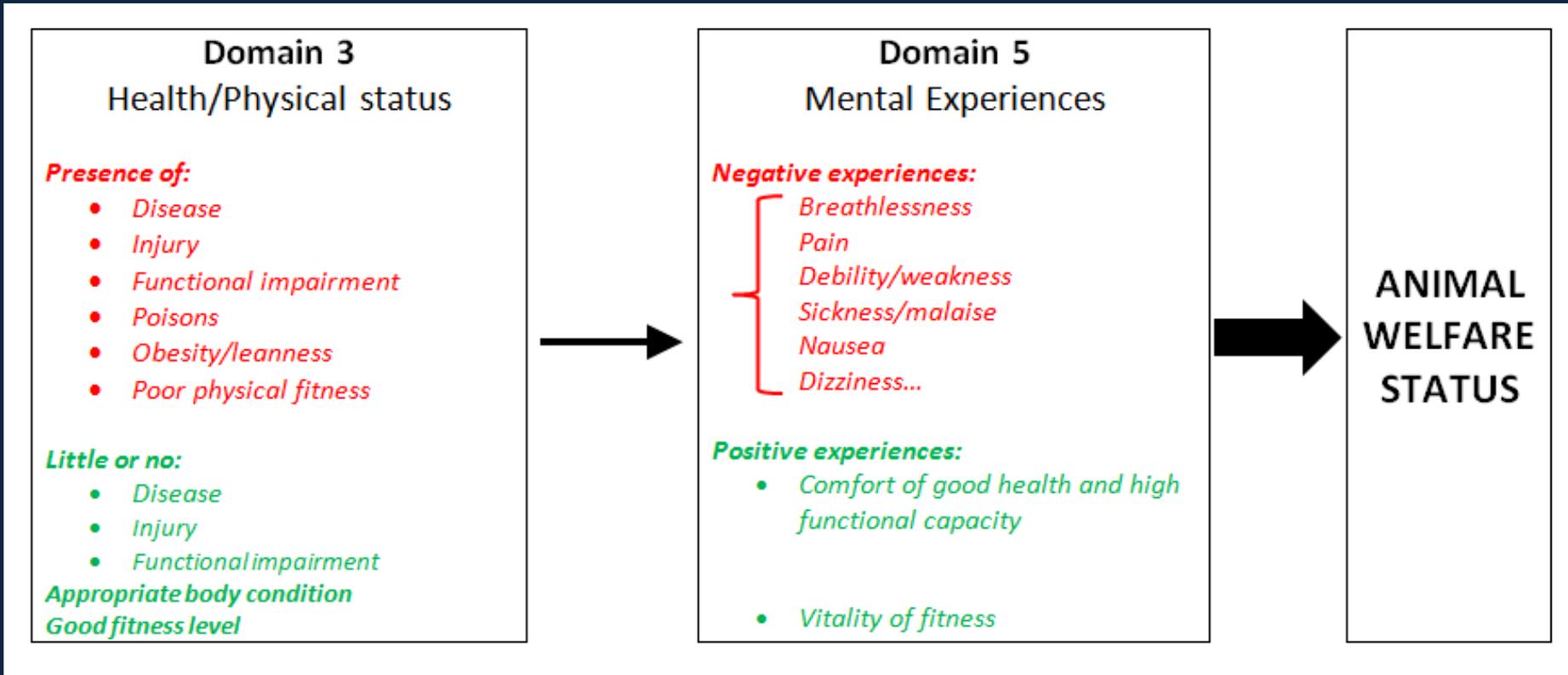


# 4. Five Domains model can help

Structure encourages user to:

1. Cautiously interpret observable indicators in terms of mental/affective experiences

# Example

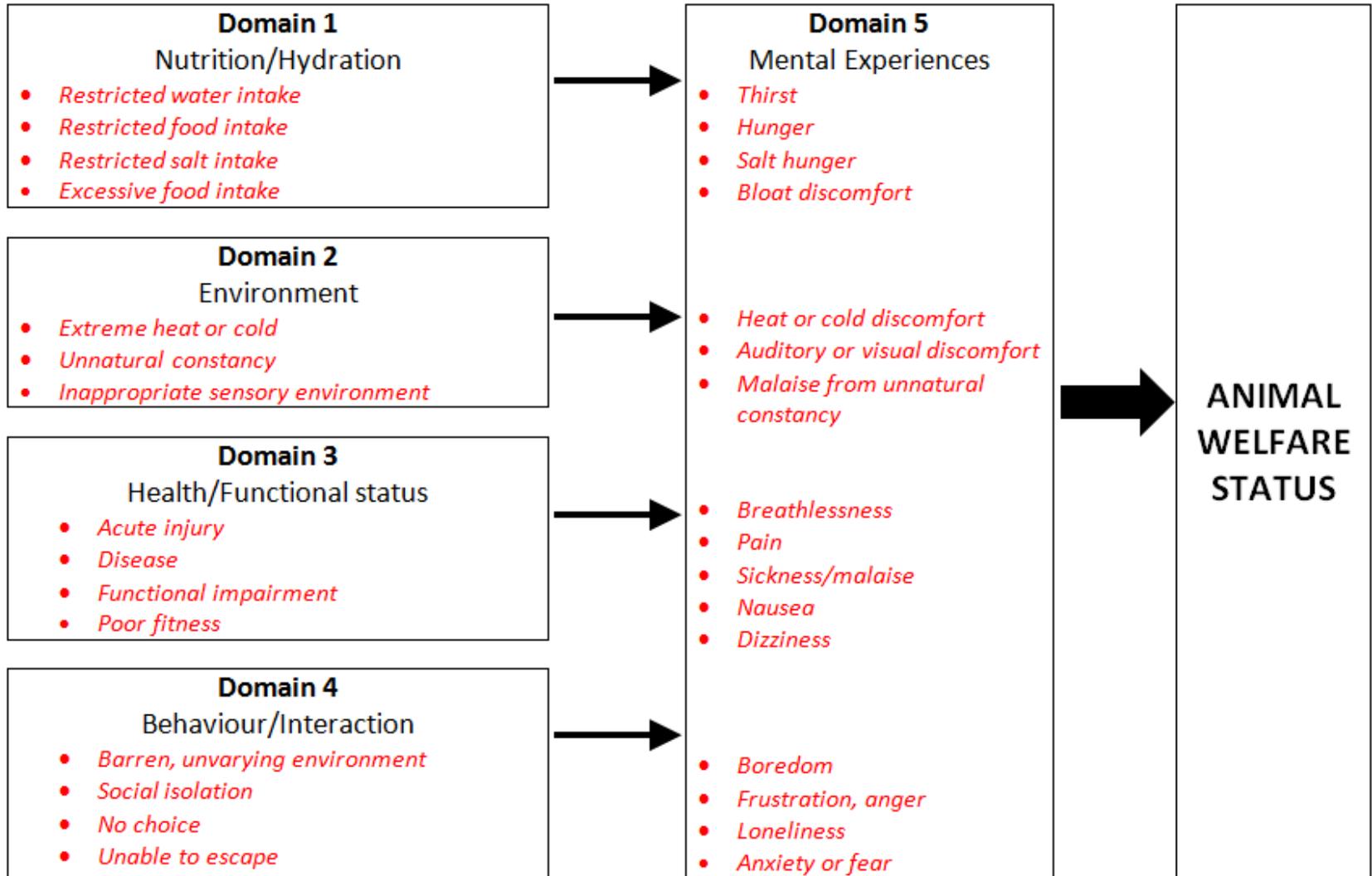


# 4. Five Domains model can help

Structure encourages user to:

1. Cautiously interpret observable indicators in terms of mental/affective experiences
2. Look for evidence of/absence of wide range of specific negative experiences

# Examples

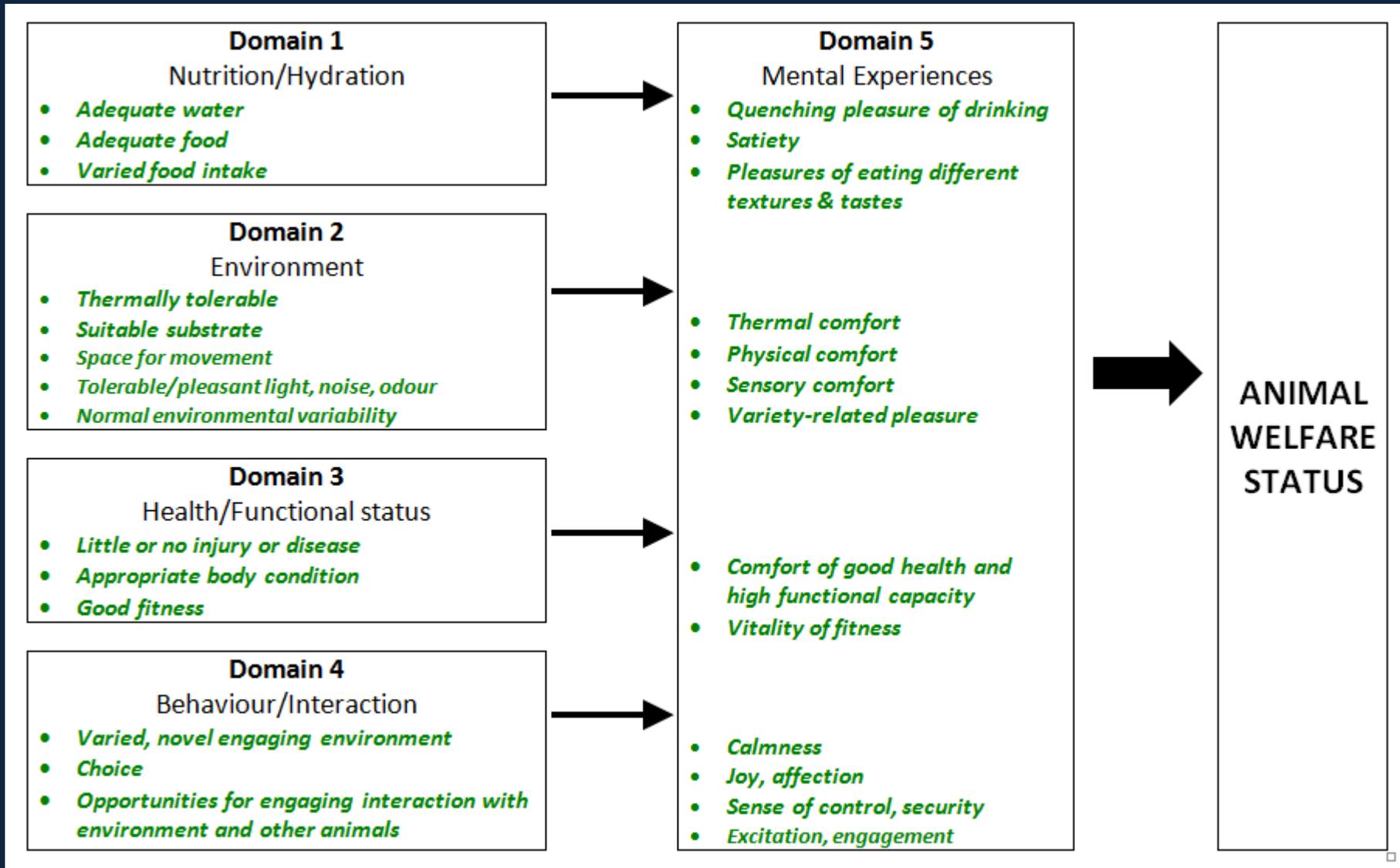


# 4. Five Domains model can help

Structure encourages user to:

1. Cautiously interpret observable indicators in terms of mental/affective experiences
2. Look for evidence of/absence of wide range of specific negative experiences
3. Look for evidence of wide range of specific positive experiences
4. Look for ways to provide opportunities for animals to have positive experiences

# Examples



# Conclusions

1. Affective state orientation to AW is consistent with emphasis on sentience (**mental experiences**)
2. AW assessments should:
  - Interpret observable indicators in terms of **specific affective states**
  - Look for evidence of **wide range of negative and positive experiences**
3. Use of '5 Domains' model supports affective state orientation and encourages specificity and comprehensiveness



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# Acknowledgements

David Mellor, Craig Johnson & Nikki Kells for discussion of ideas

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# Recent Publications

- Mellor, D.J. 2017. Operational details of the Five Domains model and its key applications to the assessment and management of animal welfare. *Animals* 7, 60; doi:10.3390/ani7080060
- Mellor, D.J. 2016. Updating animal welfare thinking: Moving beyond the “Five Freedoms” towards “A Life Worth Living”. *Animals* 6, 21; doi:10.3390/ani6030021
- Mellor, D.J., Beausoleil, N.J. 2015. Extending the Five Domains model for animal welfare assessment to promote positive welfare states. *Animal Welfare* 24: 241-253.
- Beausoleil, N.J. and Mellor, D.J. 2015. Advantages and limitations of the Five Domains model for assessing welfare impacts associated with vertebrate pest control. *New Zealand Veterinary Journal (Animal Welfare Special Issue)* 63(1): 37-43. DOI:10.1080/00480169.2014.956832.