

One Health

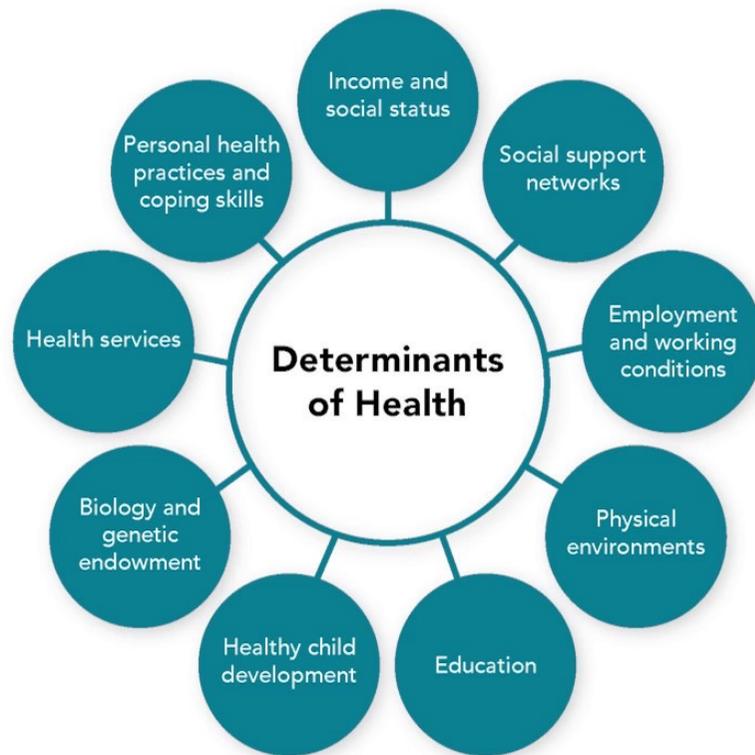
The Motivation for One Health Practical Implications

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Human Health



Human Health

Human Health was defined in 1948 by the World Health Organisation as "a state of complete **physical, mental and social well-being** and not merely the absence of disease or infirmity"

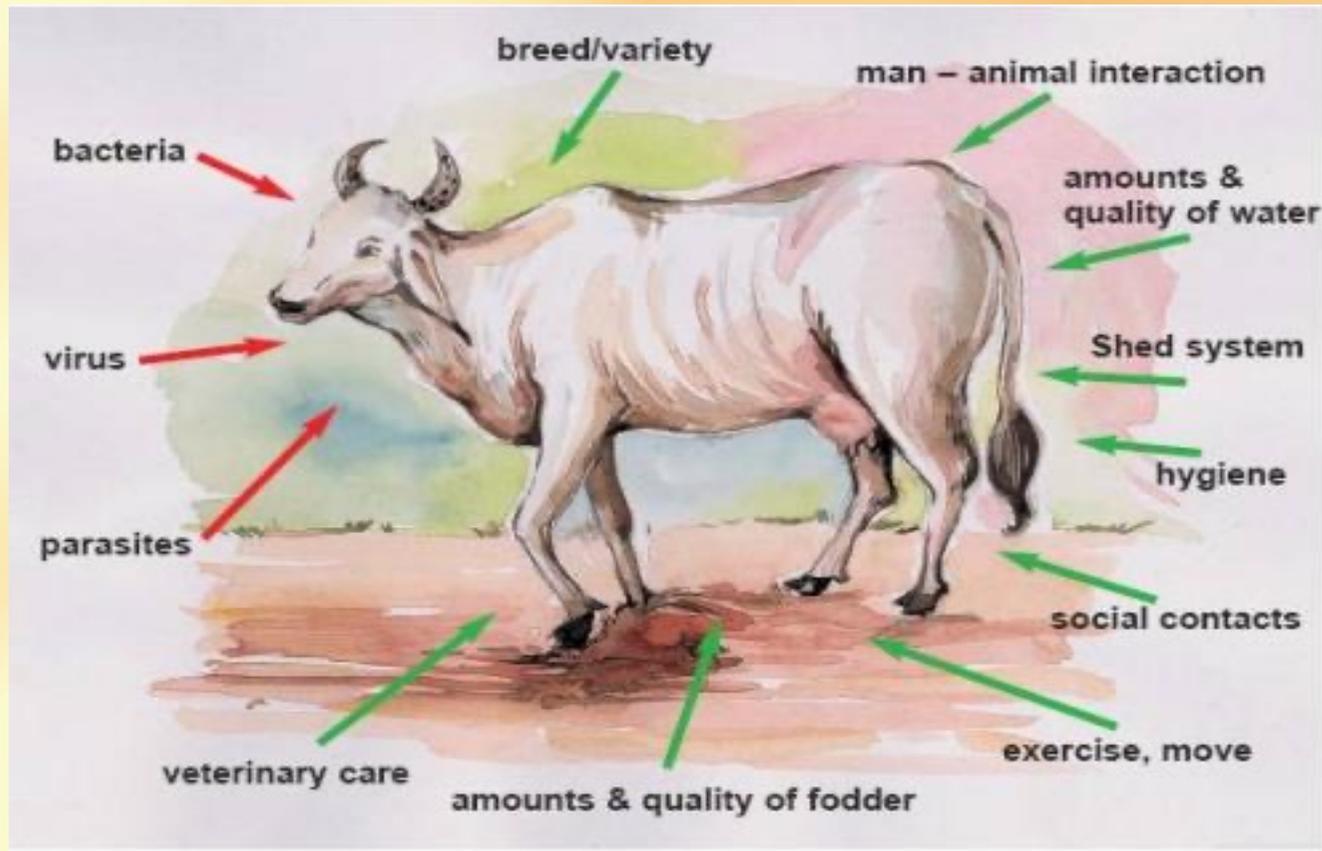


Human Health

This definition was amended in 1984 to "the extent to which an individual or group is able to **realize aspirations and satisfy needs** and to change or cope with the environment"



Animal Health



Animal Health

The absence of disease, or the normal functioning of an organism and normal behaviour based on the observation of a certain number of **individuals that determine the standard** and thus health



Animal Health

Human Health and Animal Health are thus so intricately linked that the following comment was passed in a Times magazine in 2006:

“Human medicine is a branch of animal health, not a wholly different discipline”



Environmental Health

Environmental Health is the science and practice of **preventing human injury and illness and promoting well-being** by:

- Identifying and evaluating environmental sources and hazardous agents; and
- limiting exposures to hazardous physical, chemical, and biological agents in air, water, soil, food, and other environmental media or settings that may adversely affect human health.



One Health Thread

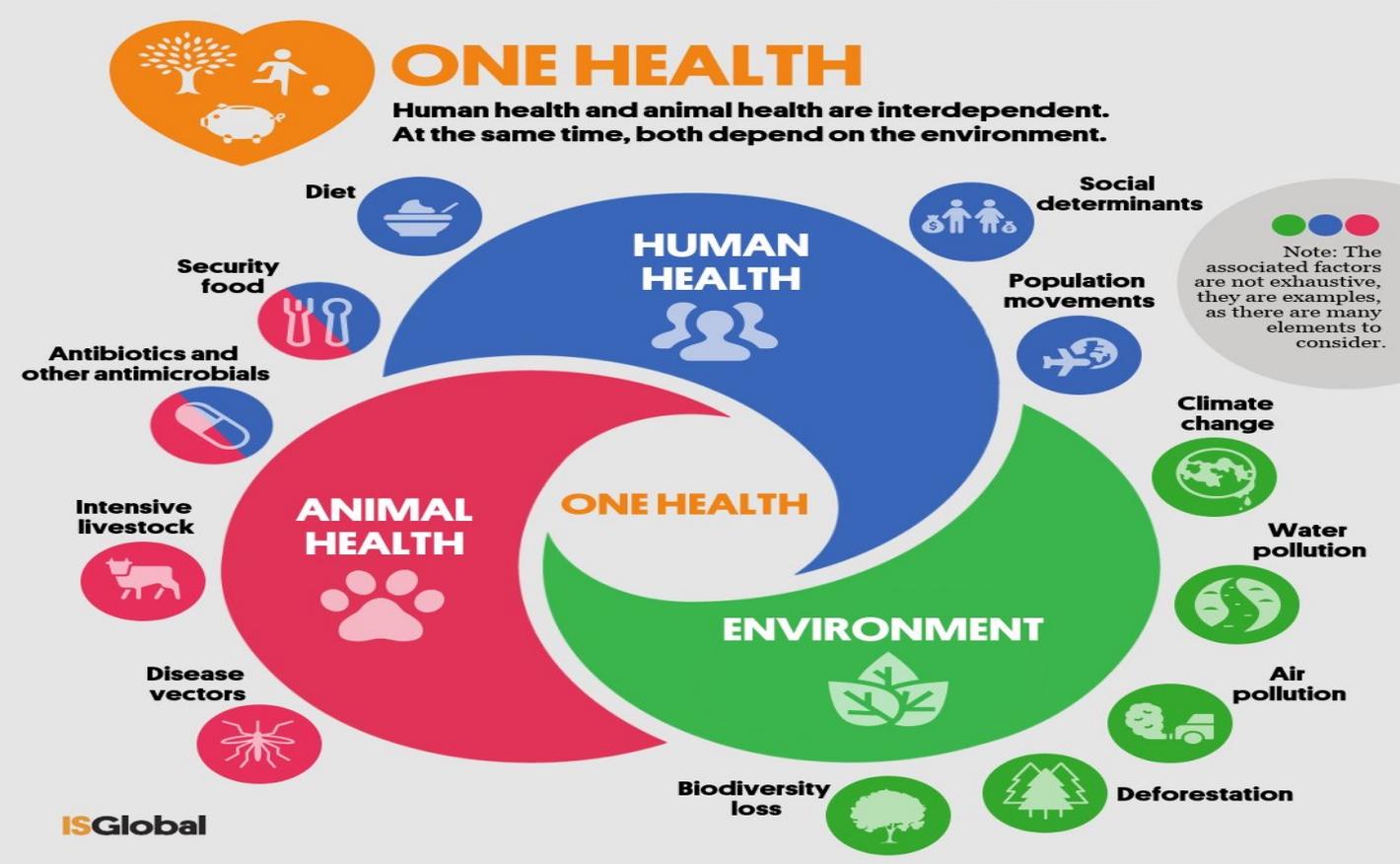
(Human Health) Realize **aspirations and satisfy needs** and to change or cope with the environment

(Animal Health) Individuals that **determine** the standard and thus health;

(Environmental Health) Preventing human injury and illness and promoting well-being; the human and its **aspirations and or needs**.



One Health



One Health

One Health is an integrated, unifying approach that aims to **sustainably balance and optimize the health of people, animals and ecosystems**. It recognizes the health of humans, domestic and wild animals, plants, and the wider environment (including ecosystems) are closely linked and interdependent.



One Health

The approach mobilizes multiple sectors, disciplines, and communities at varying levels of society to work together to foster well-being and tackle threats to health and ecosystems while addressing the **collective need** for clean water, energy and air, safe and nutritious food, taking action on climate change, and contributing to sustainable development.



Are people needy??

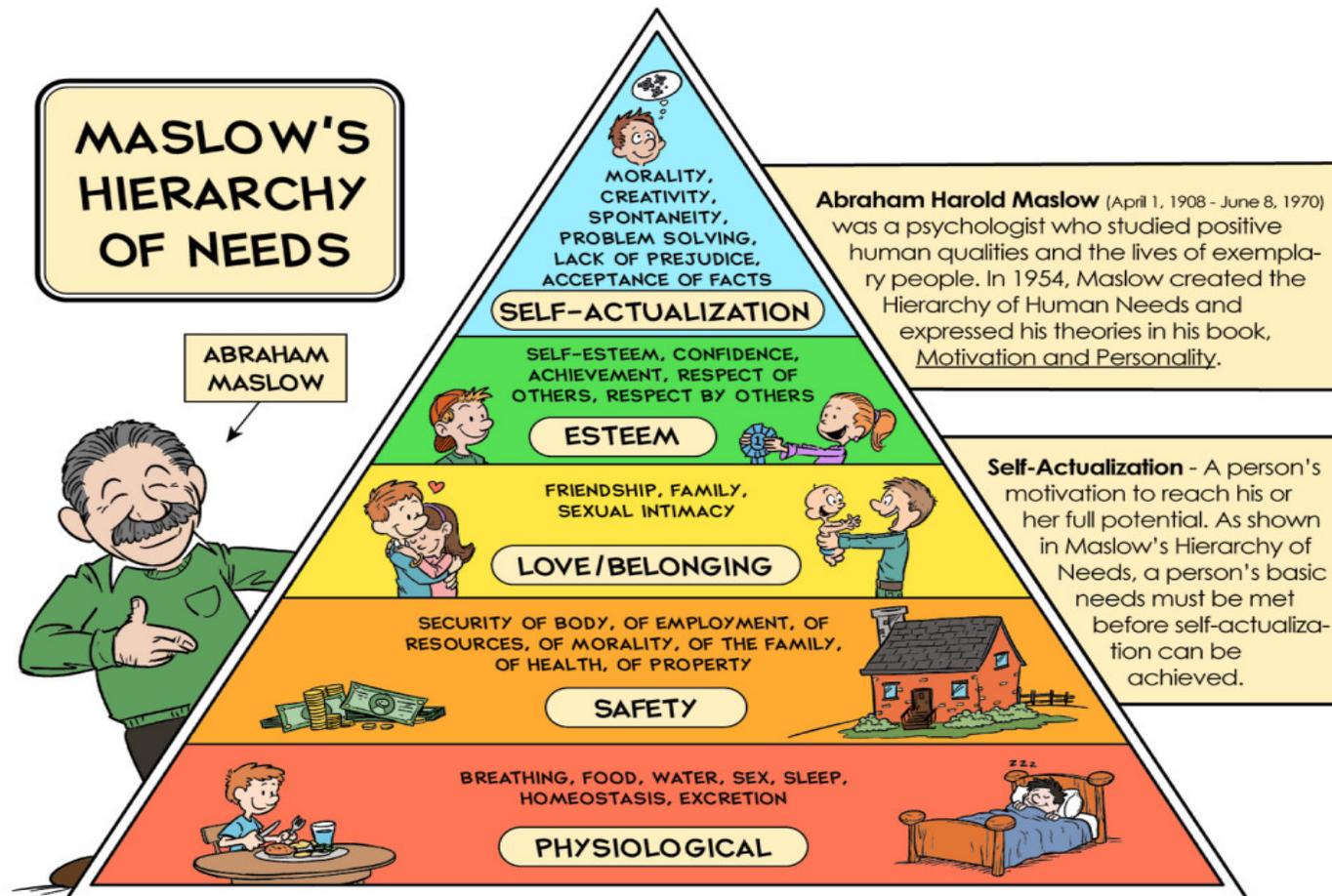


Are people needy??

As the needs of people, or needy people is a difficult psychological concept to fully comprehend, an American Psychologist, Abraham Maslow, proposed in his 1943 paper in the journal Psychological Review **"A Theory of Human Motivation" the idea of a hierarchy of needs.**



Hierarchy of Needs

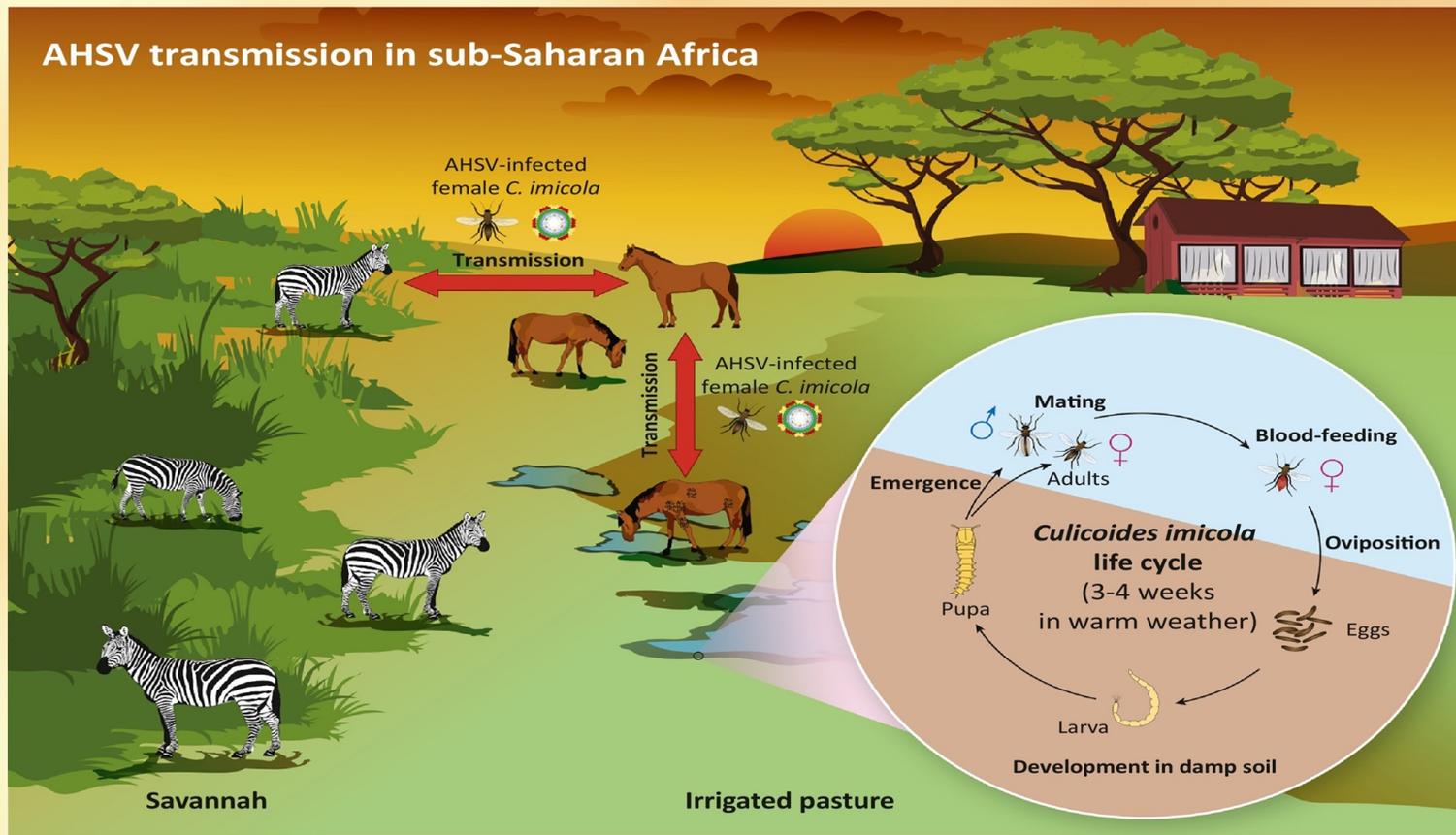


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African Horse Sickness

AHSV transmission in sub-Saharan Africa



African Horse Sickness

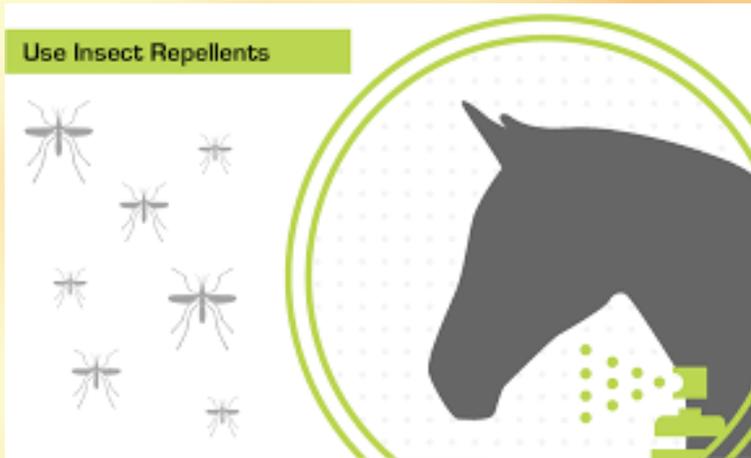


Control

- Movement restriction
- Vector control
- Test and slaughter
- Vaccination
 - MLV
 - Inactivated virus



African Horse Sickness – Vector Control



African Horse Sickness - Vaccination



African Horse Sickness – Movement Control



Veterinarians

- Veterinarians to provide leadership and guidance – One Health
- Appreciate the central pivotal role of the veterinarian
- Value chains and all impacts thereupon
- Identification of all role players
- Collaboration and Coordination with all role players
- Decision making - Matrix
- Benefit to owner AND humans in general
- Satisfy human needs and aspirations - Maslow



Final Thought

As the world population grows at an alarming rate, **resources need to be managed optimally** to ensure that the physiological and higher order needs of humans, animals and the environment are met.

This can only be achieved by following a **One Health** approach, taking in cognisance the impact on the other domains of each and every decision taken by us, the human, the decision maker.

