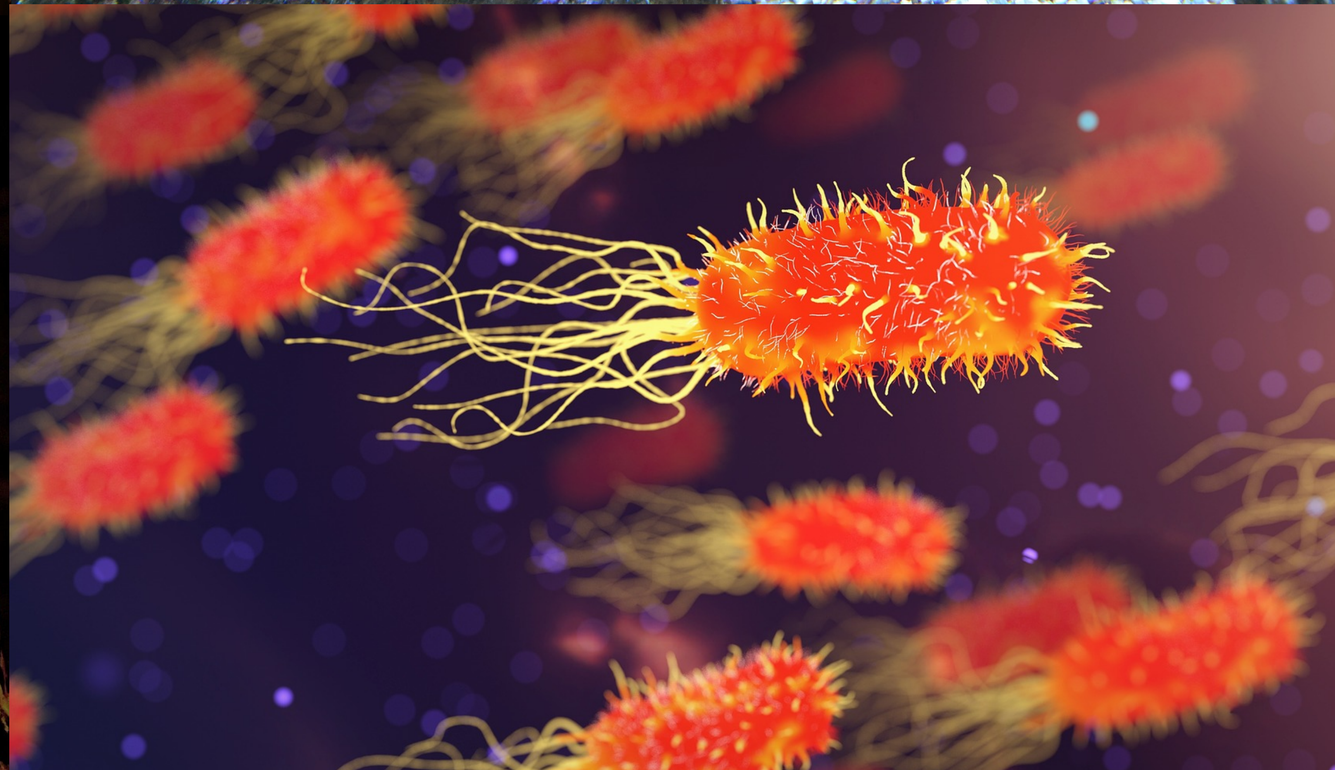

ARTIFICIAL
INTELLIGENCE


WHAT IS
INTELLIGENCE

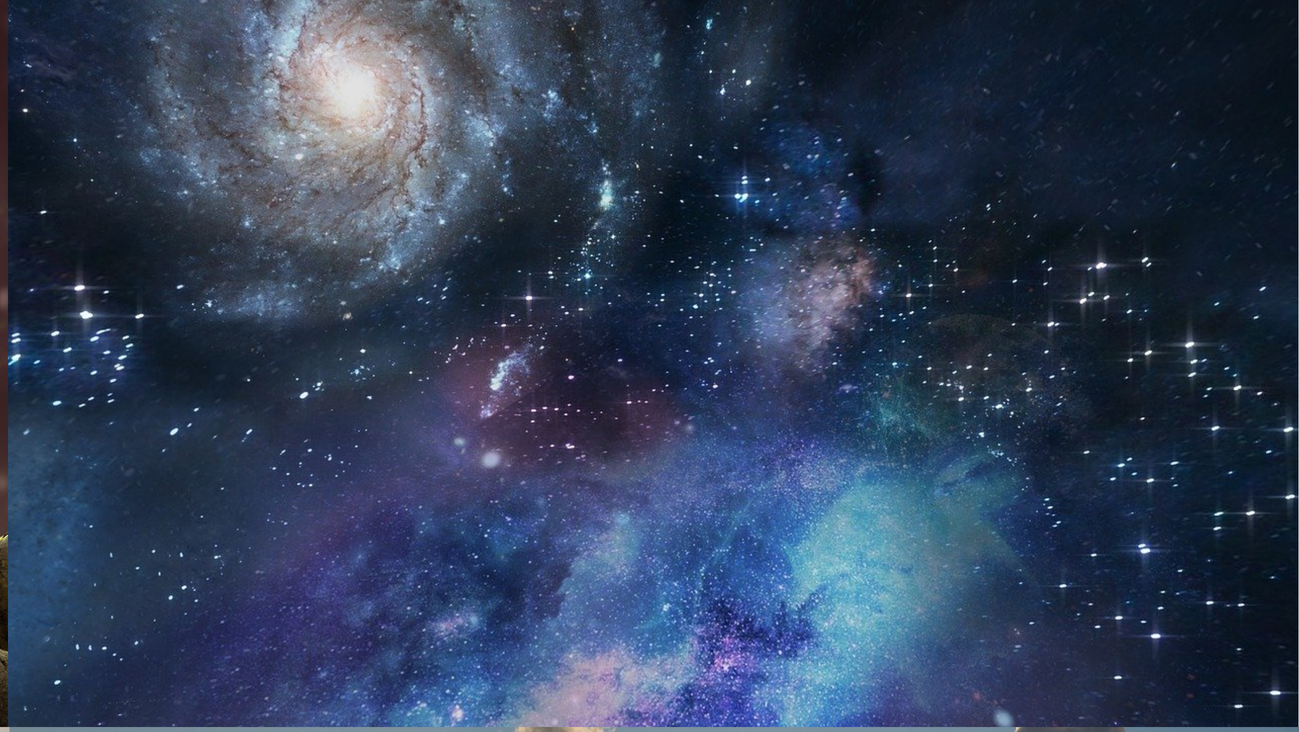








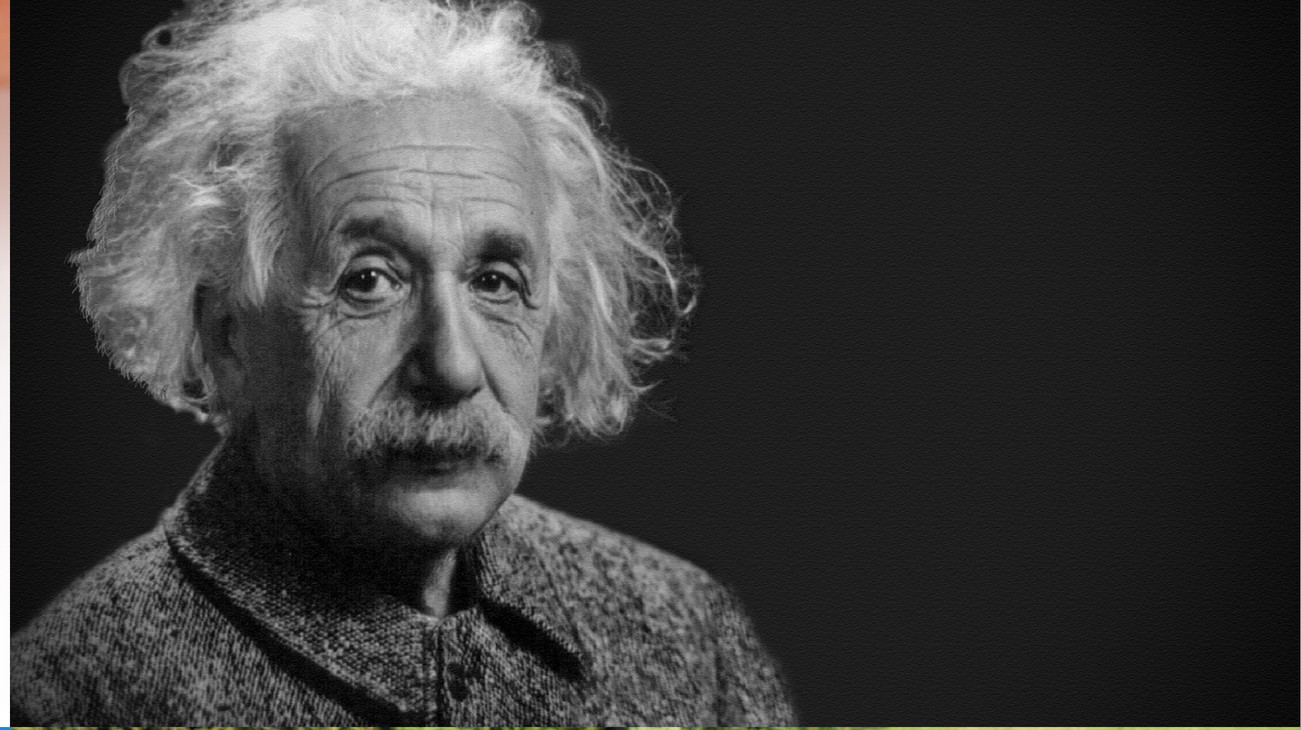





FRANCIS




9:67
Friday, 09 December
MTN-SA

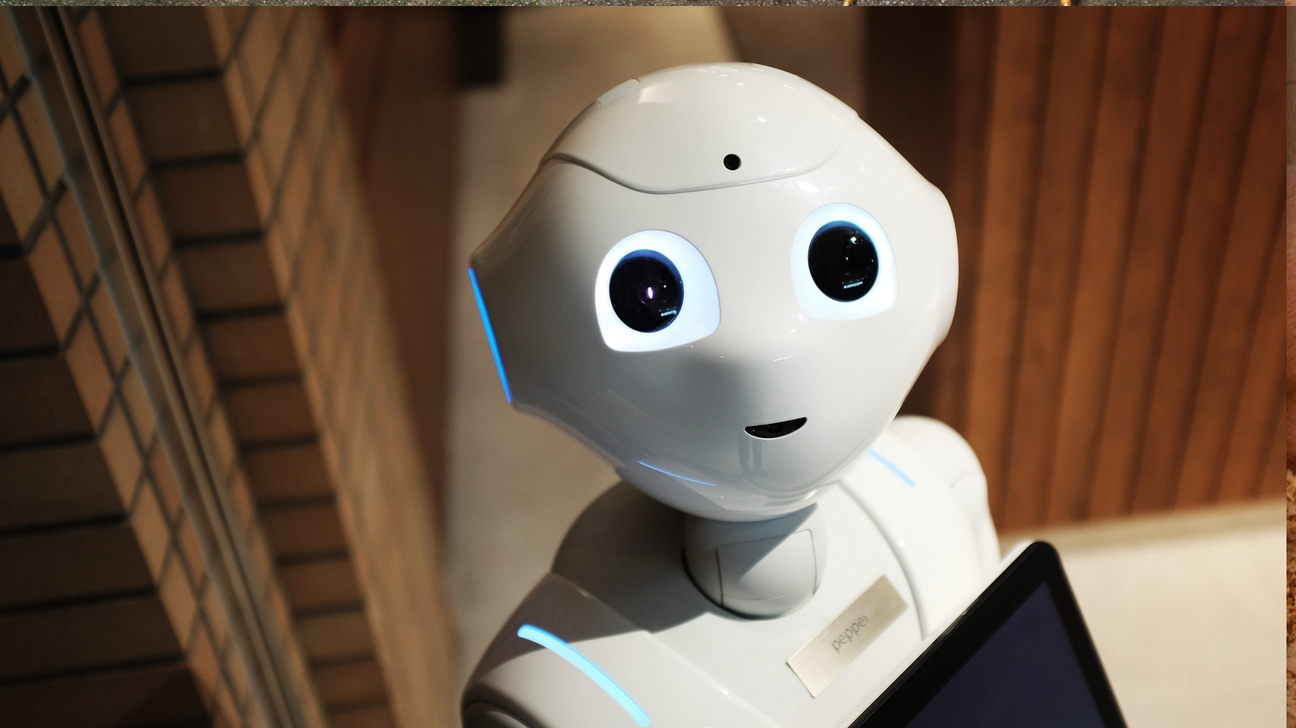





EN-063-CX
69






pepper








ALZHEIMER/DEMENTIA



there is **no clear definition** of *intelligence*

how can we
artificially **build** intelligence
if we don't know what it is?


Water, rocks... are not intelligent


With inanimate things we will not (quickly)
talk about intelligent 'behaviour'



If we want to give inanimate things a form of intelligent behavior, we speak of "artificial intelligence"



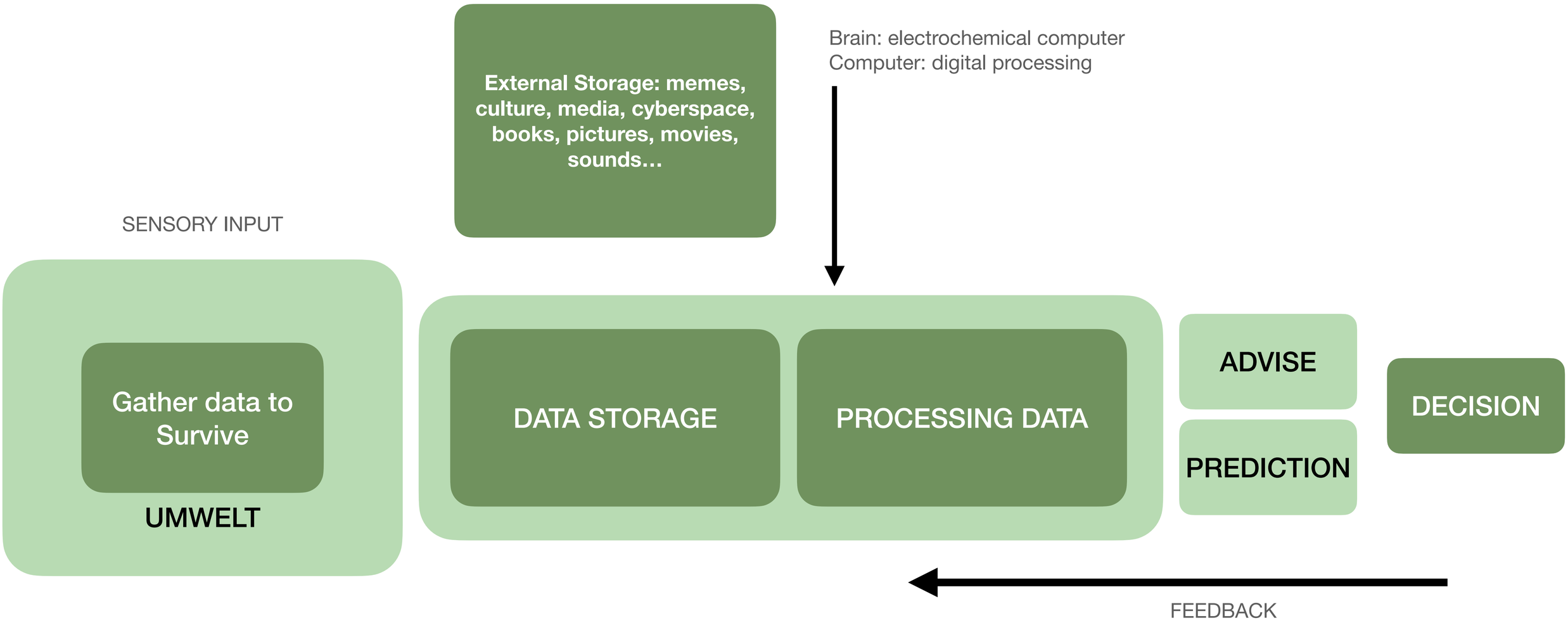
Intelligence has something to do with interaction with the environment


Because we walk around in our habitat, we can get into dangerous situations. We must be able to perceive them and respond appropriately.


We have to make decisions all the time
because we have to "think ahead". After all,
we are trying to "survive".

Data & AI

Data and intelligence?
What do we mean by that?


External Storage: memes, culture, media, cyberspace, books, pictures, movies, sounds…
Brain: electrochemical computer
Computer: digital processing
SENSORY INPUT
Gather data to Survive
UMWELT
DATA STORAGE
PROCESSING DATA
ADVISE
PREDICTION
DECISION
FEEDBACK

Sensory perception & data gathering

SENSORY INPUT

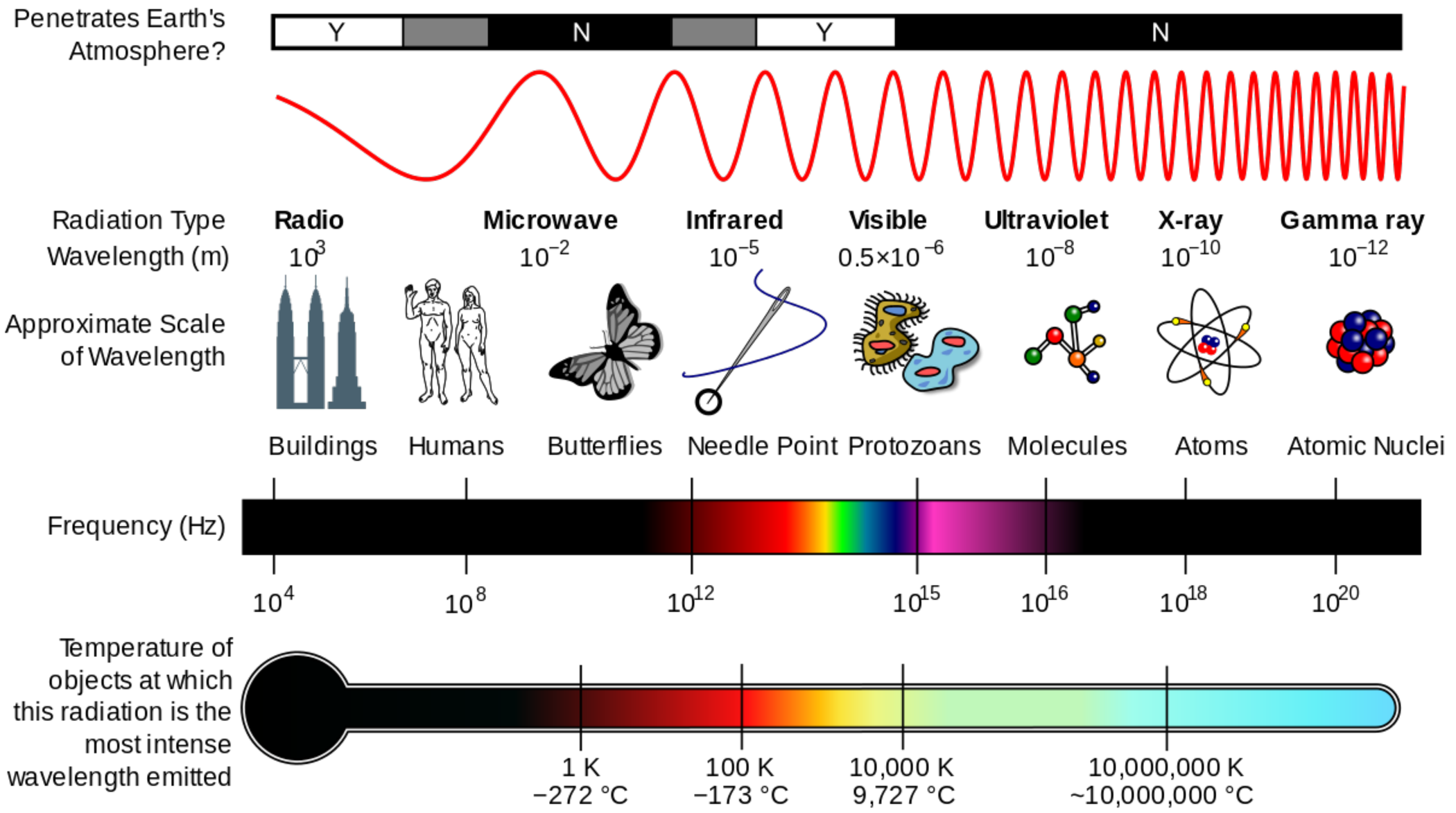


LIVING ORGANISMS

GOVERNMENTS

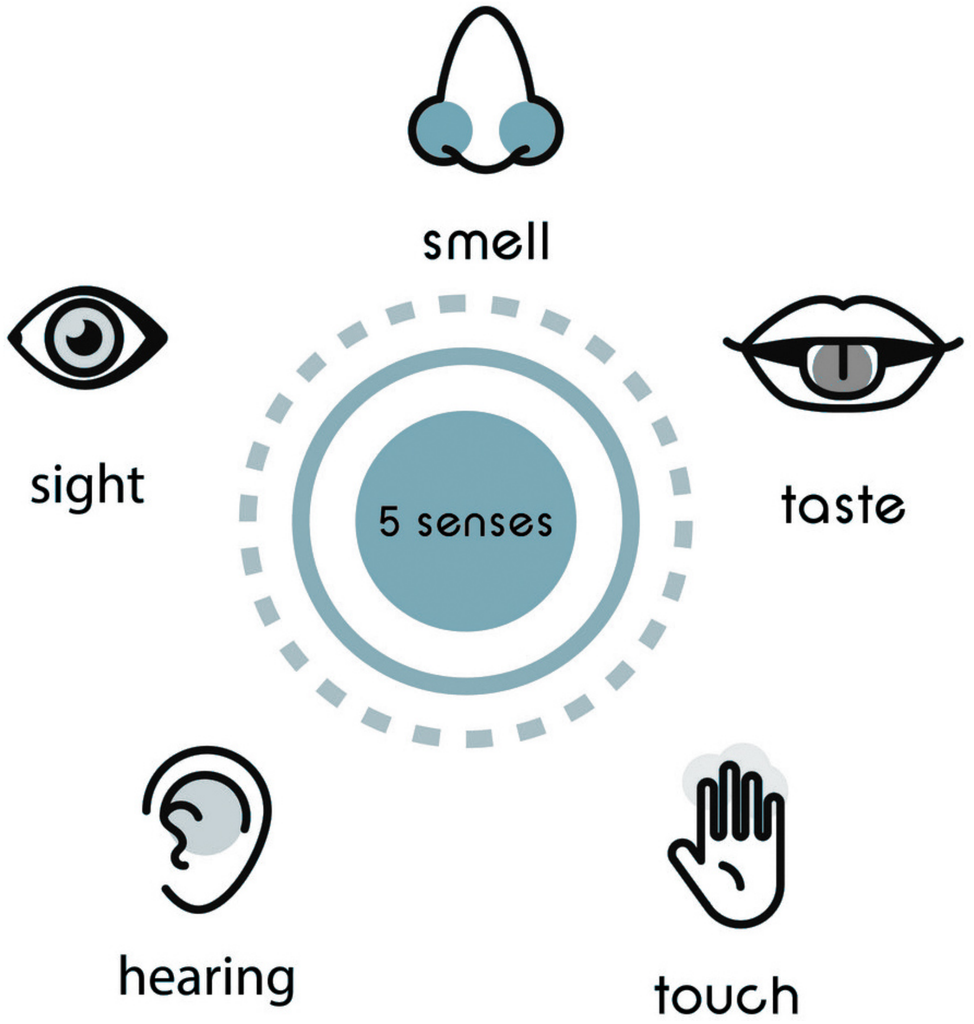
COMPANIES

Sensory perceptible reality (= not the complete reality)



sensory perception in humans

CLASSIC IMAGE



sensory perception in humans

NEW PERSPECTIVE

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Come to Your Senses

Humans have a lot more than five senses — here are 18

Go beyond touch, taste, smell, sound, and sight.

by Daven Hiskey • September 12, 2019 Share:



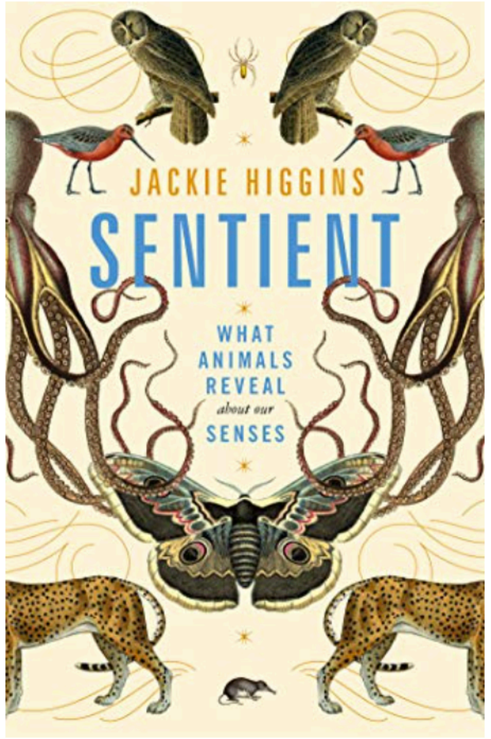
https://www.considerable.com/health/healthy-living/humans-five-senses/


People are AUGMENTING their possibilities for
perceiving data and data storage with the help of technology.



We transform ourselves into cyborgs

sensory perception in animals



Sentient: What Animals Reveal About Our Senses Kindle Edition

by Jackie Higgins (Author) | Format: Kindle Edition

★★★★★ 7 ratings

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'Jackie Higgins's lyrical, literate style will charm you while her book stuns your imagination with strange, other-worldly truths' Richard Dawkins

Sentient assembles a menagerie of zoological creatures – from land, air, sea and all four corners of the globe – to understand what it means to be human. Through their eyes, ears, skins, tongues and noses,

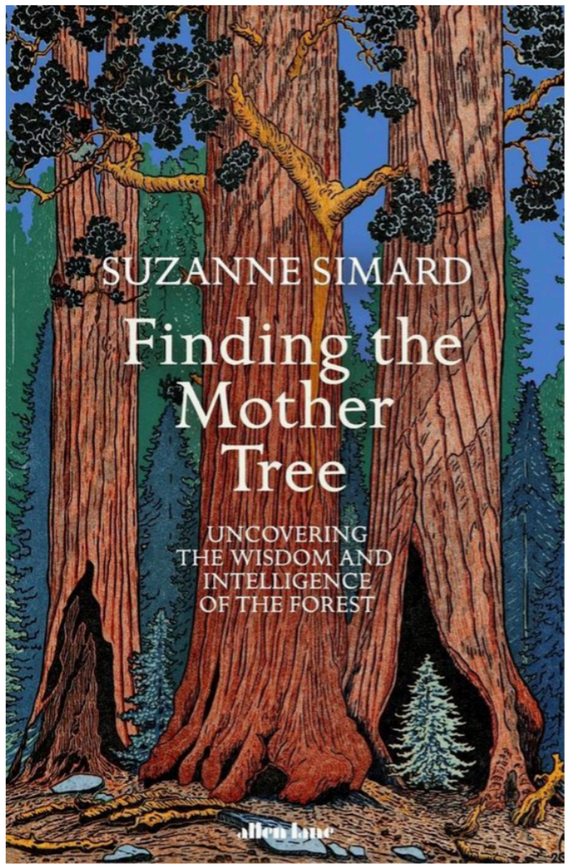
sensory perception & communication in trees

Studies have found that trees can send help to their neighbours **via the fungal network**. For example, when a tree is attacked, it will release certain chemicals that travel through the fungal network and warn other trees of the danger. By having an early warning, other trees are able to protect themselves better.

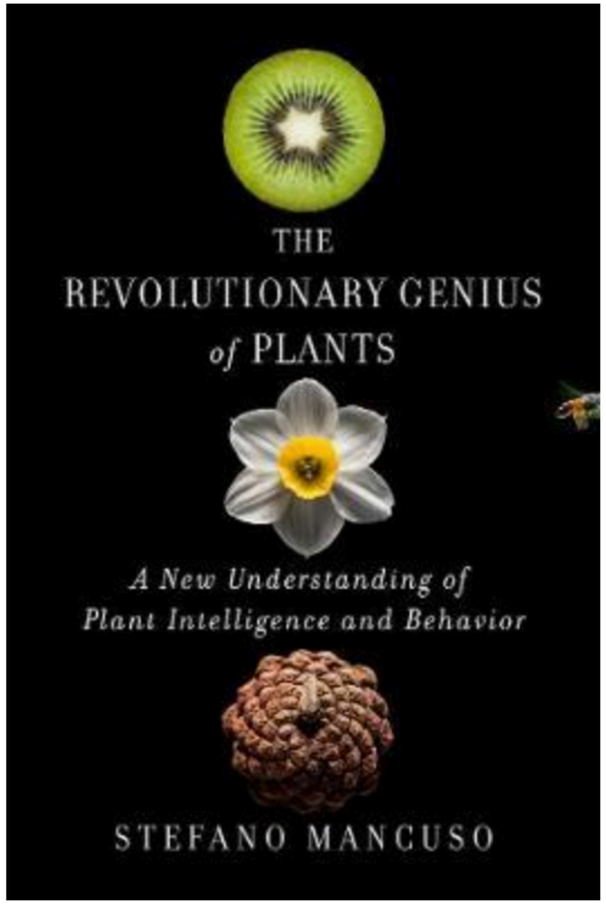
Finding the Mother Tree

Uncovering the Wisdom and Intelligence of the Forest

Auteur: Suzanne Simard | Taal: Engels | Schrijf een review | Delen



sensory perception & communication in plants



The Revolutionary Genius of Plants : A New Understanding of Plant Intelligence and Behavior

4.08 (1,311 ratings by Goodreads)
Hardback | English
By (author) Stefano Mancuso

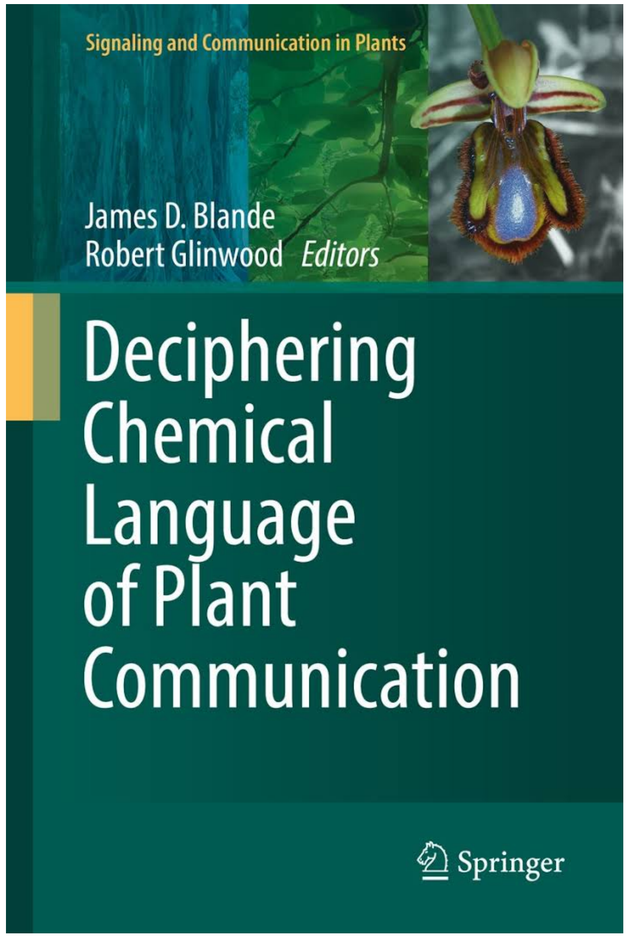
Share

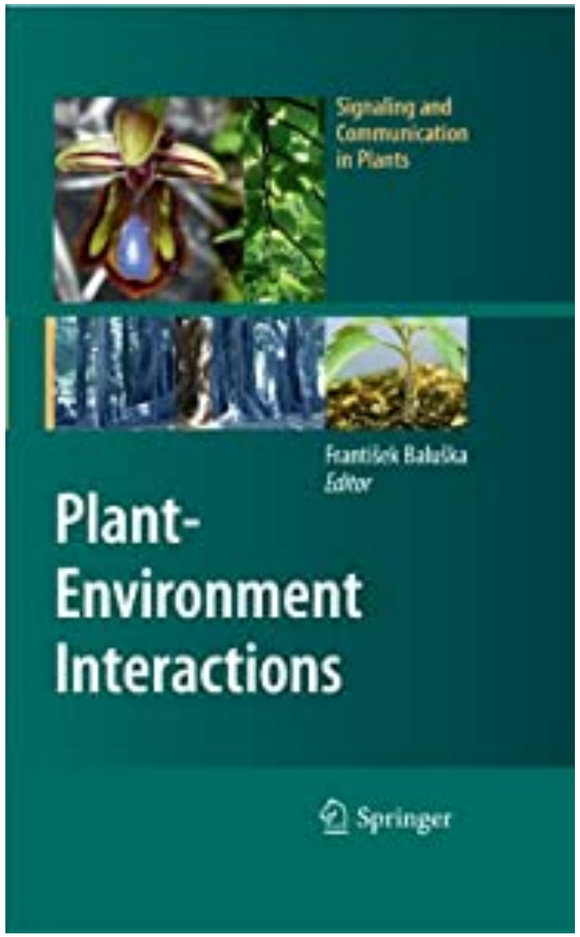
"In this thought-provoking, handsomely illustrated book, Italian neurobiologist Stefano Mancuso considers the fundamental differences between plants and animals and challenges our assumptions about which is the 'higher' form of life." -The Wall Street Journal

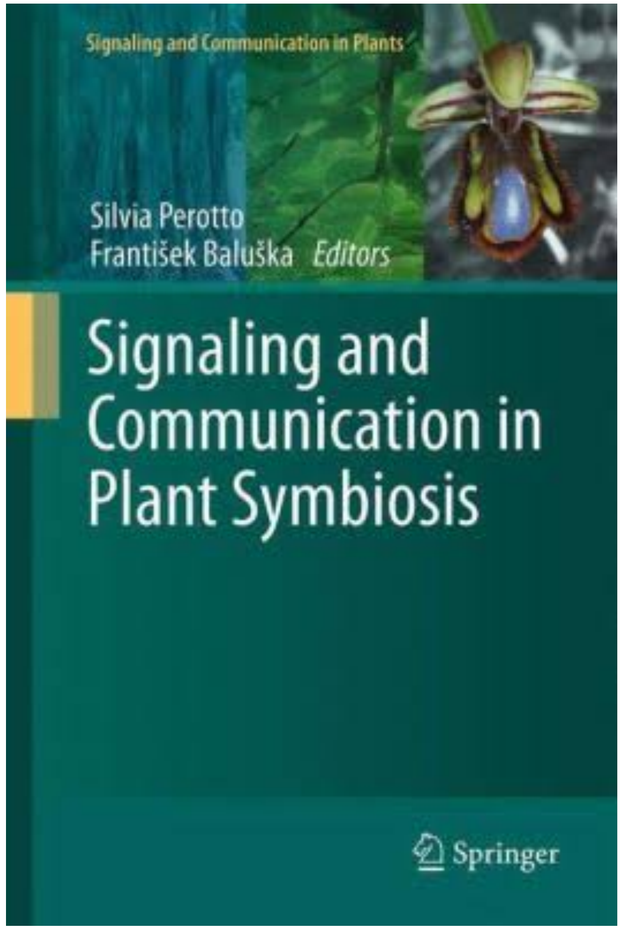
"Fascinating...full of optimism...this quick, accessible read will appeal to anyone with interest in how plants continue to surprise us." -Library Journal

Do plants have intelligence? Do they have memory? Are they better problem solvers than people? The Revolutionary Genius of Plants-a fascinating, paradigm-shifting work that upends everything you thought you knew about plants-makes a compelling scientific case that these and other astonishing ideas are all true.
show more

sensory perception & communication in plants







sensory perception & bacteria

SCIENCE

The Slow-Motion Bacteria Buried Deep in the Ocean's Floor

To survive in one of the planet's most energy-limited environments, a hardy group of microbes appears to live at a glacial pace.

By Veronique Greenwood

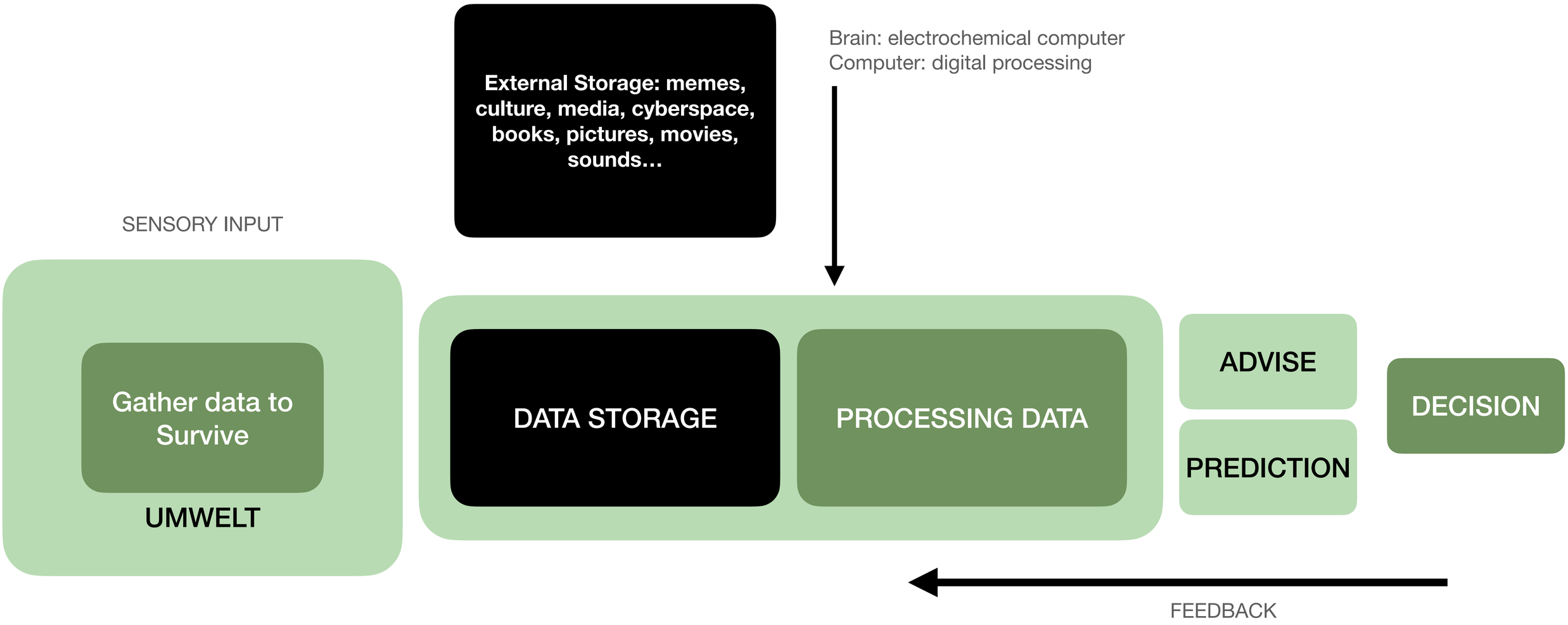


Perception of time

Seabed bacteria are thought to be a peculiar bunch, says Kasper Kjeldsen, a biochemist at Aarhus University in Denmark. You'd have to be, to live like them: "There's very little energy available when you have to continue eating from the same lunch box" for thousands of years, he says. "It is one of the most energy-limited environments on our planet."

Perception of time

Why are you studying?
You expand your chances of survival.


External Storage: memes, culture, media, cyberspace, books, pictures, movies, sounds…
Brain: electrochemical computer
Computer: digital processing
SENSORY INPUT
Gather data to Survive
UMWELT
DATA STORAGE
PROCESSING DATA
ADVISE
PREDICTION
DECISION
FEEDBACK

How does nature store data?

How does nature store data?

How have people changed the storage of data?