TU GRAZ **SCIENCE FOR FUTURE**

2023: NEW WORLDS IN PRODUCTION

THE ENIGMA WORLD OF MICROBES

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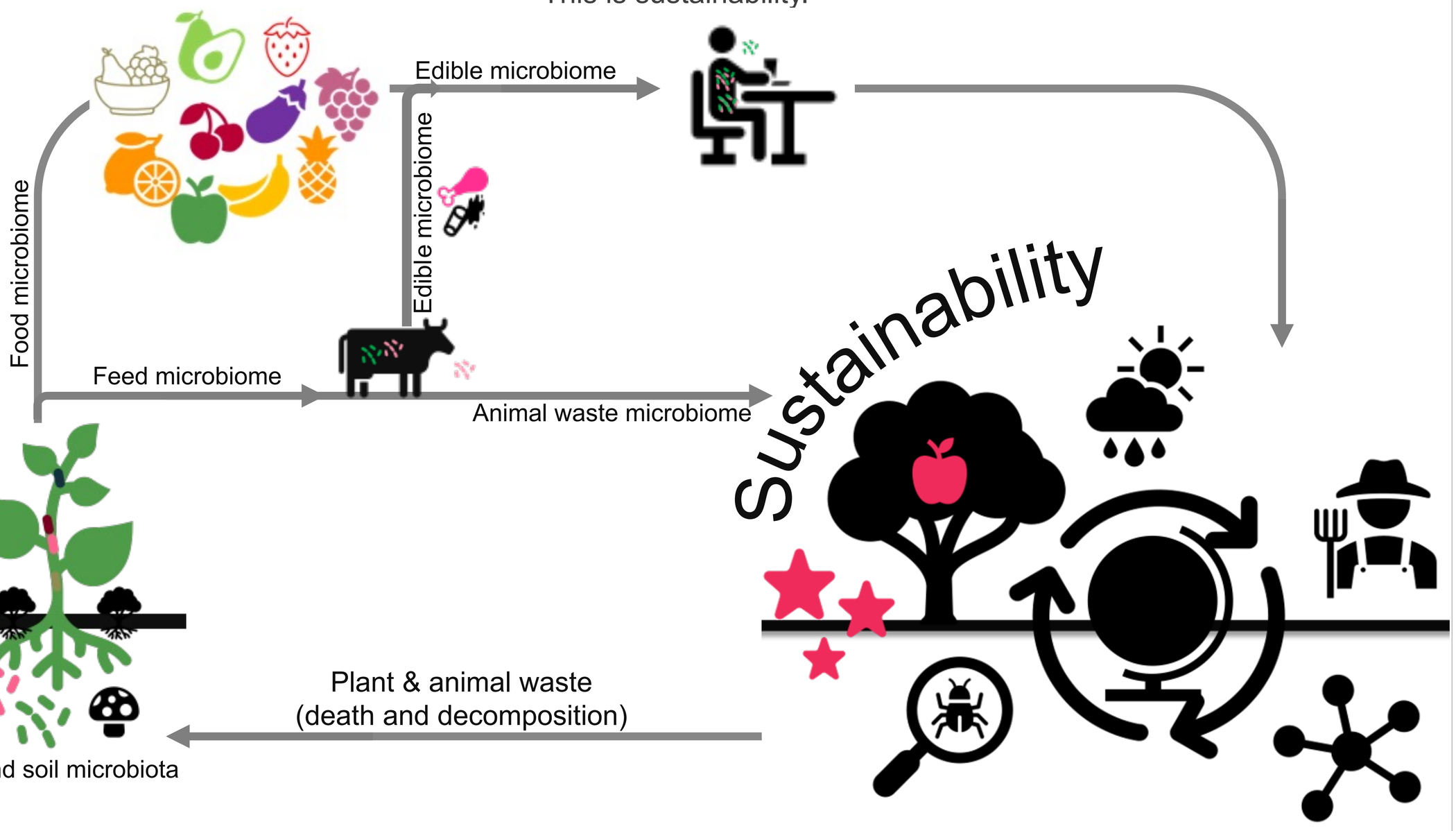
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This is spoken word, but I'll call it a rap.
Because in this rap, I wrap words of bacteria and allies.
Did I say allies? yeah, you've got me right.
You know, in the unseen world,
there lie life's enigma.

Scientifically, we call it "**THE MICROBIOTA**".
Diverse and alive, bustling domains
in mutual harmony, their kingdoms reign,
and set rules that govern **OUR LIVES**.
When not mutual, the bad bugs that cause disease can thrive,
we call these pathogenic microbes.

They say, the end justify the means.
So, we look what we eat.
And the food which nourishes us,
hosts a startling diversity of microbes,
and from soil, the plants mine valuable microbes.
Therefore, healthy soils breed healthy plants and food,
And yes, healthy beings.
This is "O**NE HEALTH**".

Because with "One health", we're all united by the **MICROBIOME**,
which we ought to preserve.
This is sustainability.



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The microbiome is intricately associated with the eukaryotic hosts and defines their health to the very end. Through ecosystem services like decomposition, the microbiome helps recycle nutrients for plant nourisment, also serving as a carbon sink. This is the very essense of sustainability.

EXCALIBUR

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microbiome support

Reference:
The Microbiome definition re-visited: old concepts and new challenges. Berg, et al.,2020.