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Sustainable Sourcing Andriani
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«La Magia dei Legumi»
2021/2022

LEGUMI

BIODIVERSITÀ

CAMBIAMENTI
CLIMATICI

SOSTENIBILITÀ



I VANTAGGI DELLE LEGUMINOSE

PER LE PERSONE



PER IL PIANETA

- **NUTRIENTI**;
- ACCESSIBILI, A LUNGA CONSERVAZIONE E **RESILIENTI**;
- MIGLIORANO LA NOSTRA **DIETA**;
- VALIDA **ALTERNATIVA** ALLE PROTEINE DI ORIGINE ANIMALE.
- RISPARMIO DI **ACQUA**, MENO EMISSIONI DI **CO2**;
- RIDUCONO **L'EROSIONE** DI SUOLO;
- FISSANO **L'AZOTO ATMOSFERICO** NEL TERRENO;
- IN ROTAZIONE, MIGLIORANO LE **RESE** DELLE ALTRE COLTURE;
- AIUTANO A DIMINUIRE L'UTILIZZO DI **FITOFARMACI** CONTROLLANDO INFESTAZIONI E MALATTIE.



I NOSTRI LEGUMI



LENTICCHIE...

nere



rosse



gialle



verdi





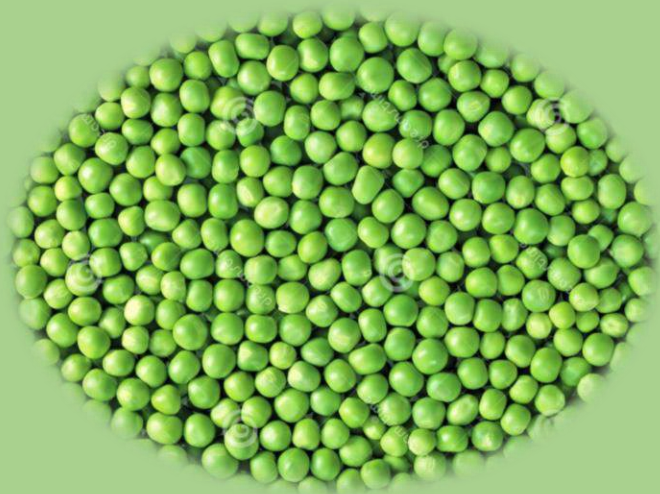
bianchi

CECI...



neri

...E ALTRI



Pisello verde proteico



Fagiolo Mung



Cicerchia



CAMMUFFAMENTI

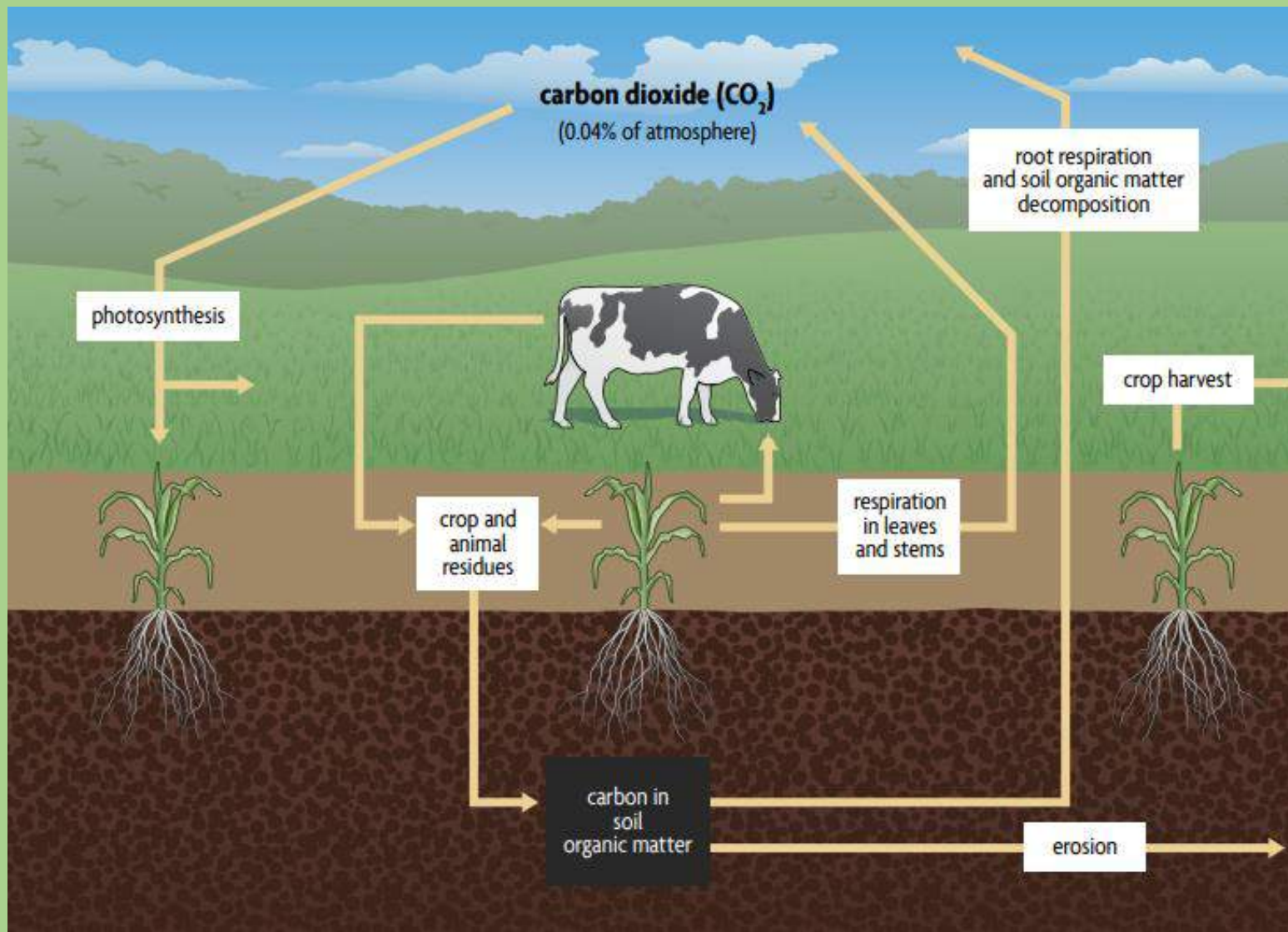


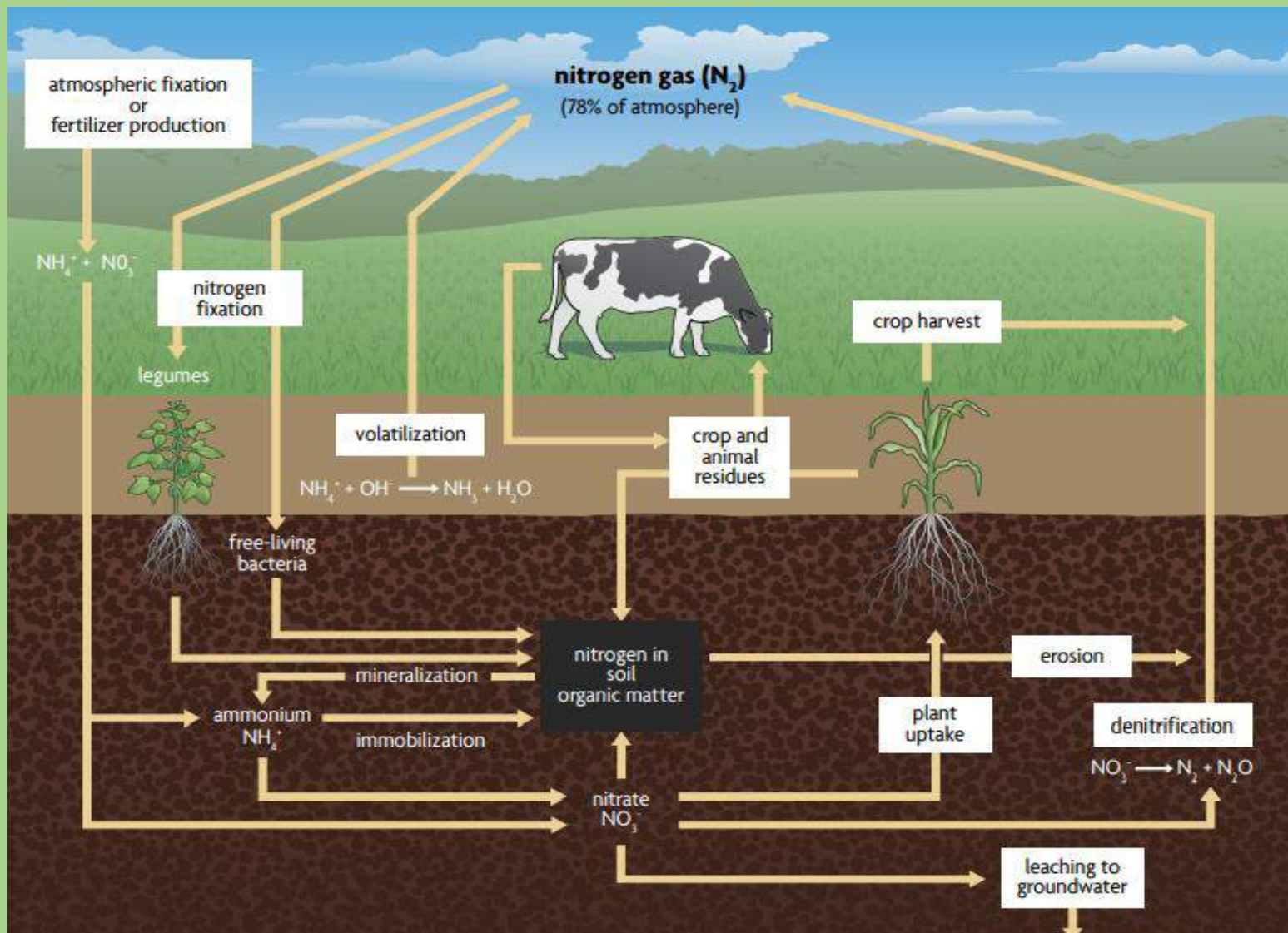


DISCORSI CICLICI



AGRICOLTURA: PROBLEMA O SOLUZIONE?





grow crops with plentiful residues, apply manure, compost, leaves, etc.



increased biological activity (& diversity)

reduced soil-borne diseases, parasitic nematodes

pore structure improved

aggregation increased

decomposition

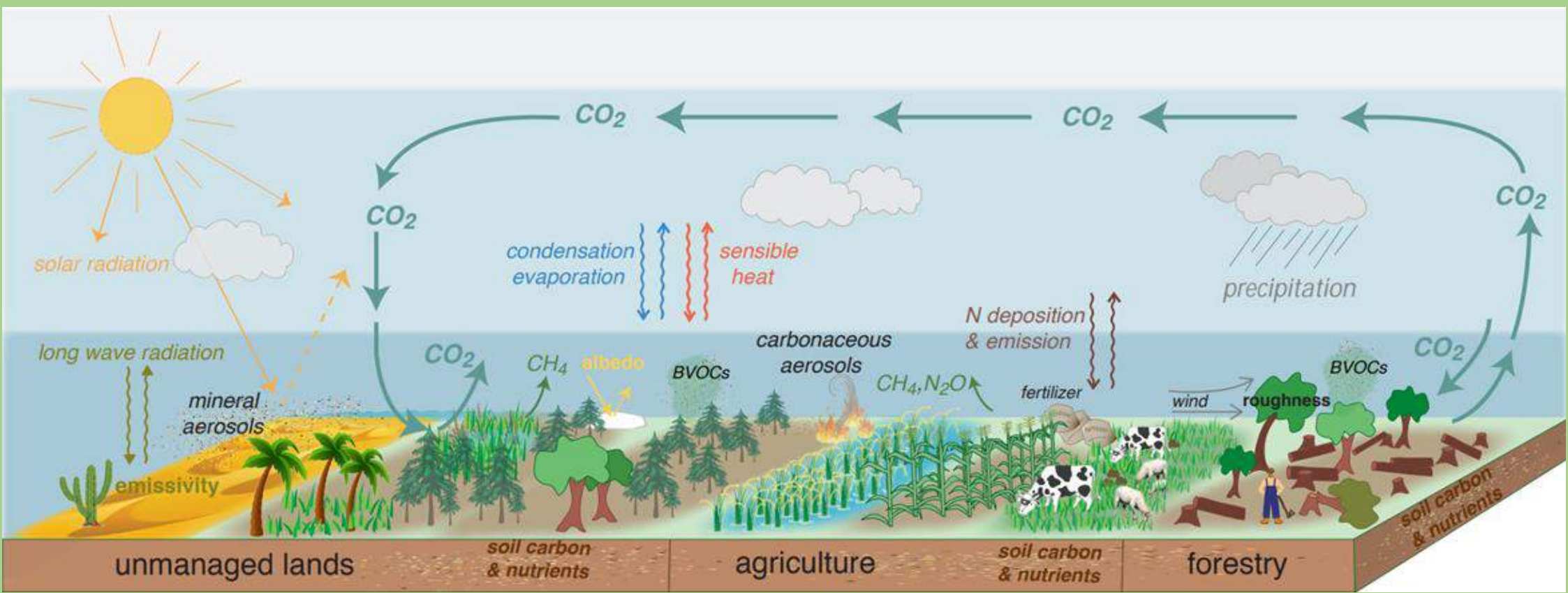
improved tilth and water storage

humus and other growth-promoting substances

nutrients released

harmful substances detoxified

HEALTHY PLANTS



***PRINCIPI STRATEGICI
NELLA
GESTIONE DEL SUOLO***

Principles of Regenerative Agriculture

In pursuit of **climate change solutions**, **enabling farm and community economic vitality**, and **healthy agro-ecosystems**, we support the following Regenerative Agriculture Principles to be adapted to local conditions:

Maintain Soil Cover



Maximize Biodiversity

Minimize Disturbance



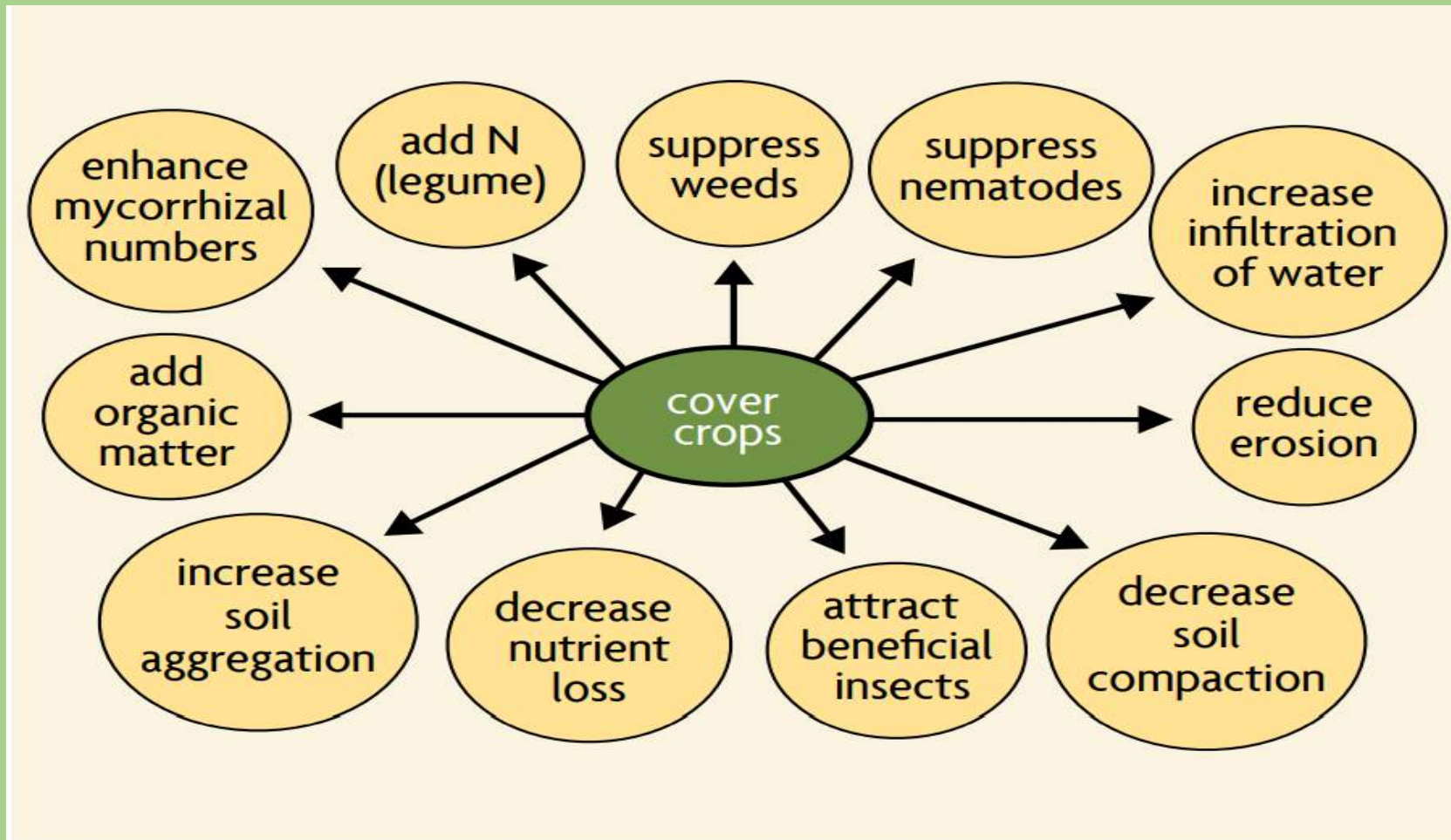
Integrate Animals & Organic Fertilizers



Enable Living Root Systems

1. **MANTENERE UNA COPERTURA COSTANTE (COVER CROPS)**
2. **MINIMIZZARE I FATTORI DI DISTURBO**
3. **MASSIMIZZARE LA BIODIVERSITÀ**
4. **INTEGRARE ANIMALI E FERTILIZZANTI ORGANICI**
5. **SALVAGUARDIA DEL MICROBIOTA**

1. TENERE IL SUOLO COPERTO A LUNGO PRESENTA NUMEROSI VANTAGGI

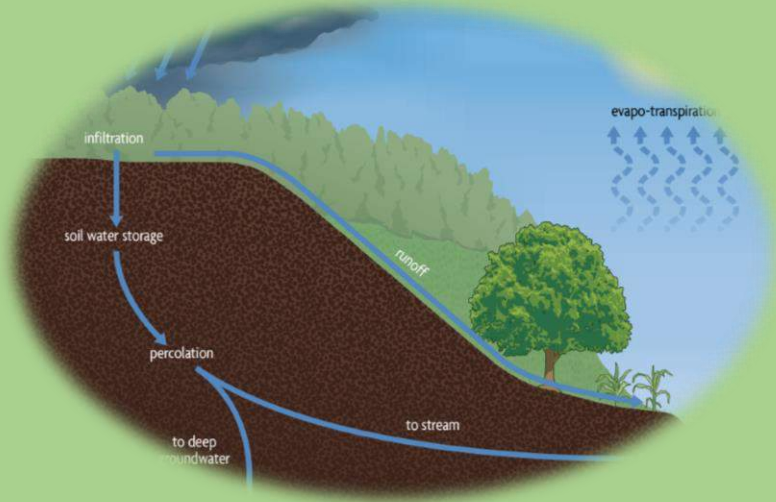




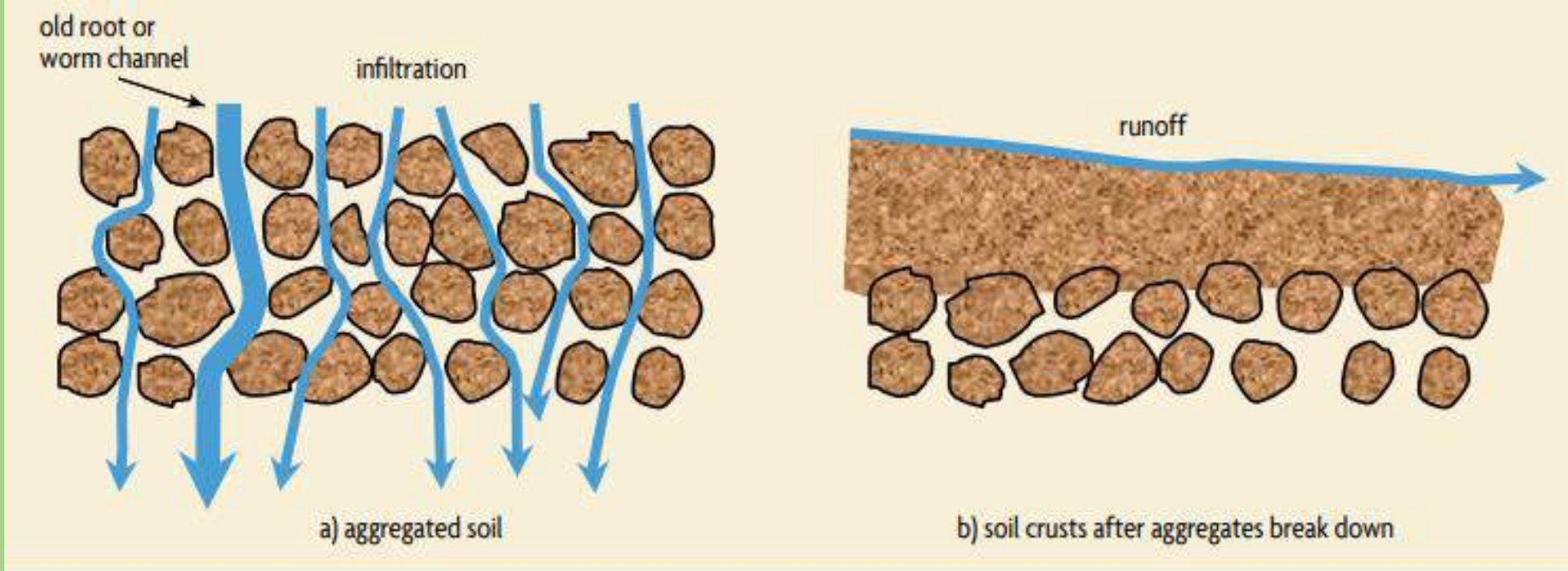
1. erba medica (perenne invernale), 2. trifoglio dolce a fiore giallo (biennale invernale), 3. veccia pelosa (annuale invernale), 4. canapa del Bengala e 5. fagiolo dall'occhio



**Esempi dal mondo: il fagiolo di velluto in America Centrale.
Prima coltivato (sinistra), poi impiegato come pacciamatura
nella coltivazione del mais (destra).**



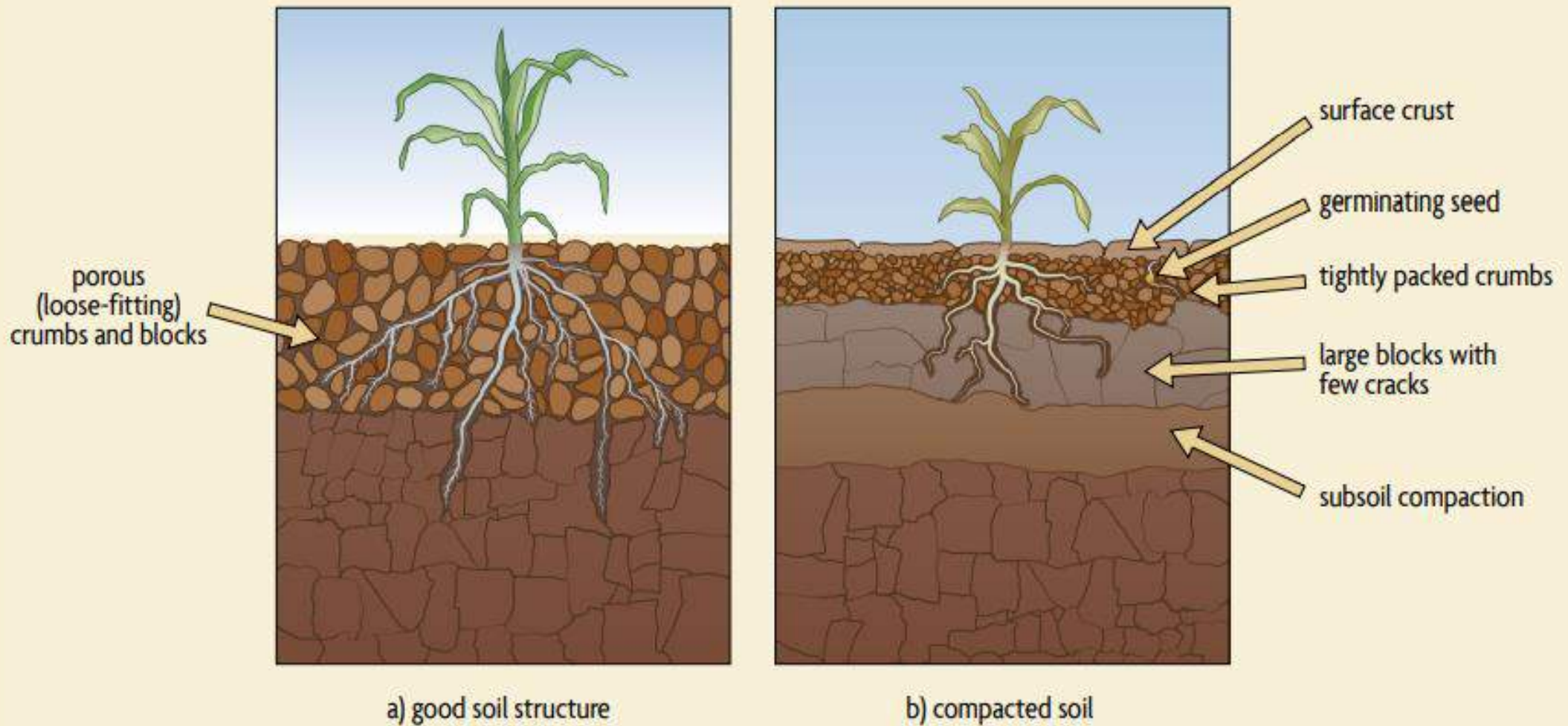
TRATTENERE L'ACQUA



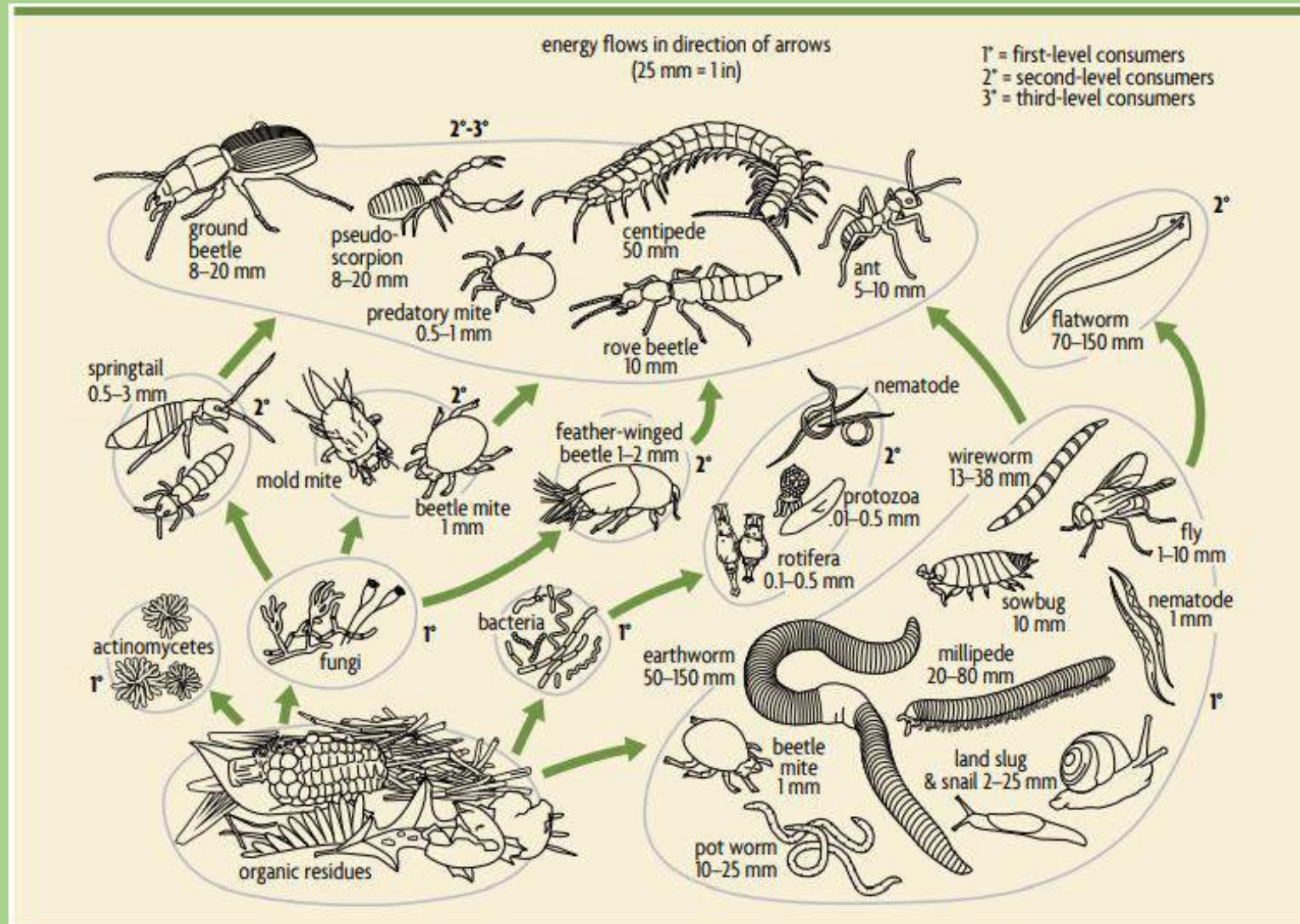


Ravanello come cover crop

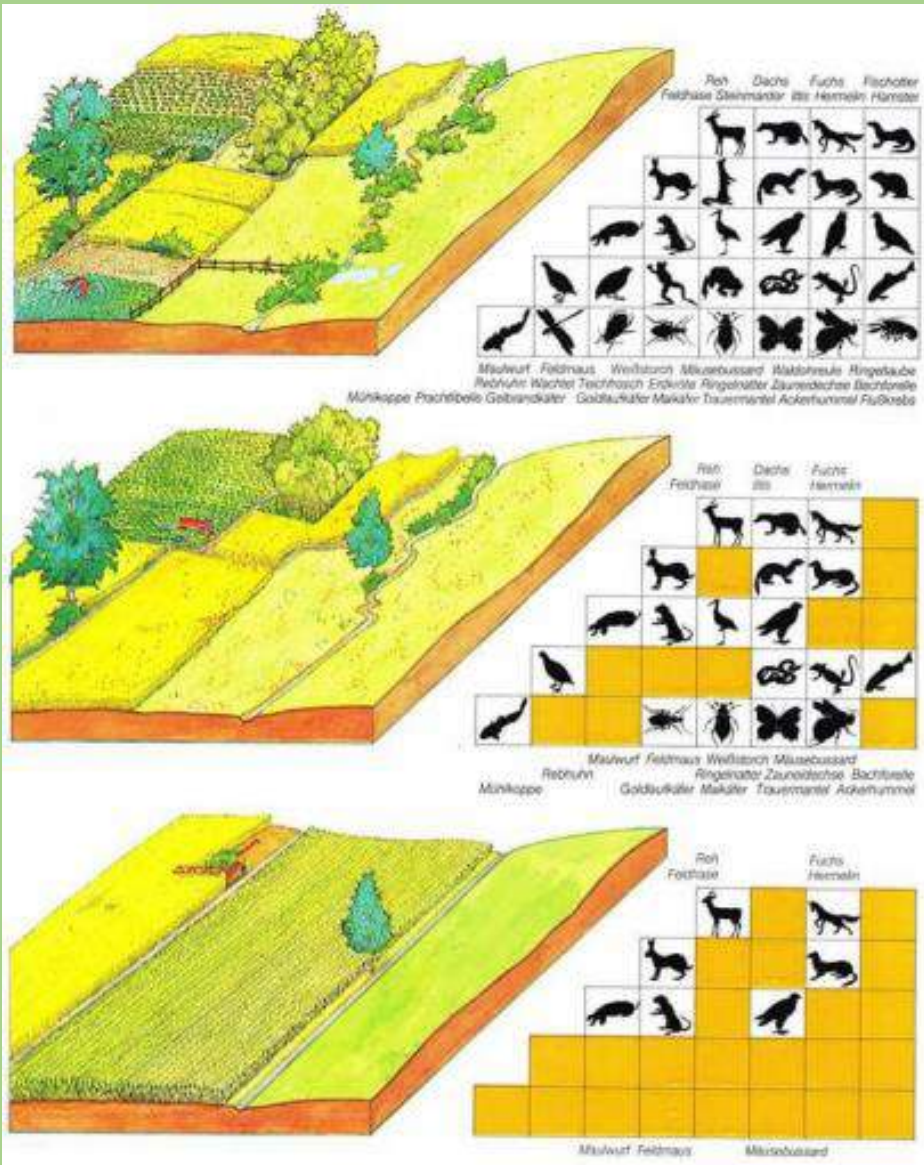
2. DALLA STRUTTURA...

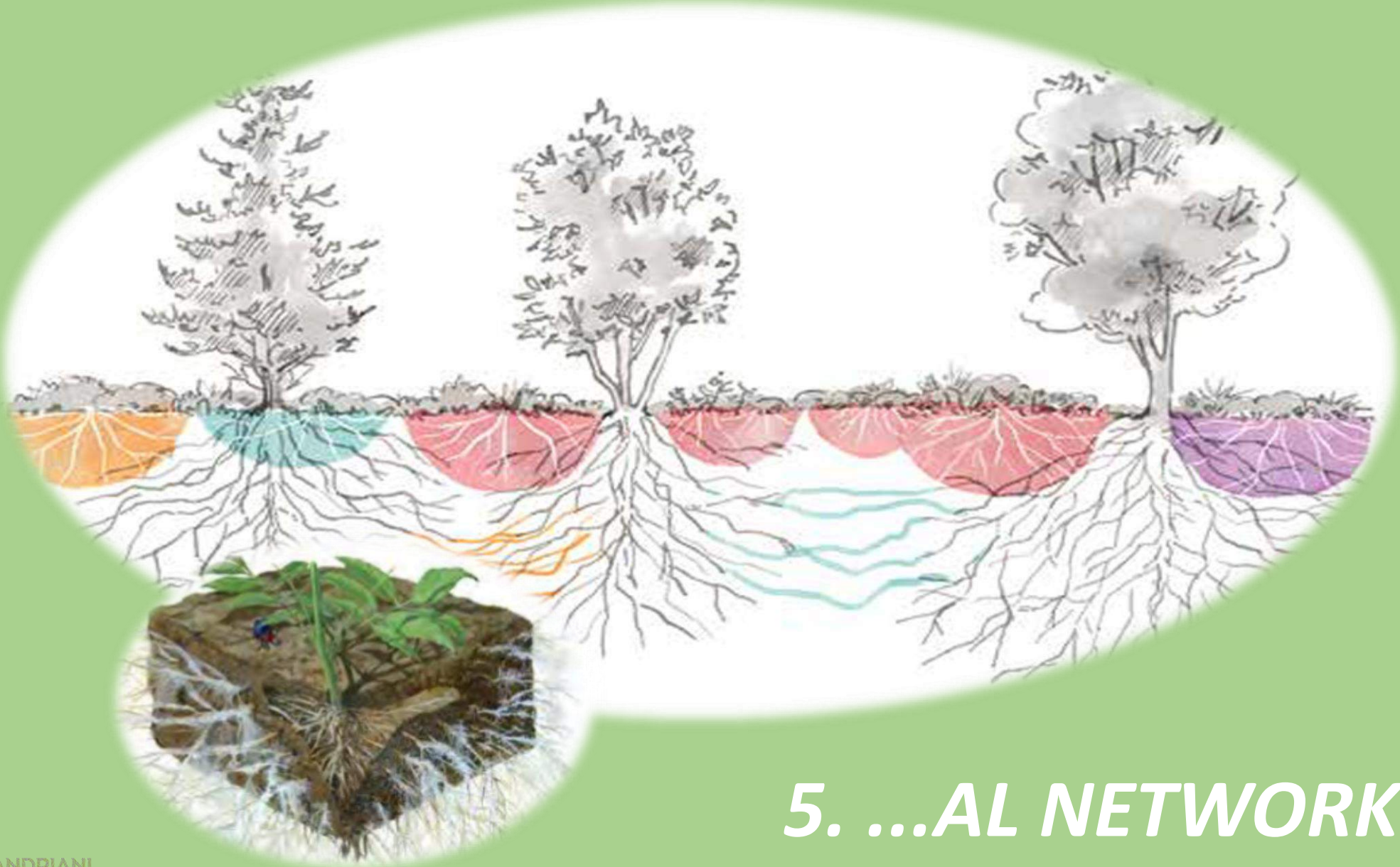


3. LA «WEB OF LIFE» DEL SUOLO



4. L'APPROCCIO DELL'AGRO-ECOLOGIA





5. ...AL NETWORK

LA BIODIVERSITÀ È MINACCIATA DA
DIVERSI FATTORI, TRA I QUALI IL
CAMBIAMENTO CLIMATICO,
LA PERDITA O
DEGRADAZIONE DEGLI HABITAT,
L'INQUINAMENTO,
LE SPECIE INVASIVE E
IL SOVRASFRUTTAMENTO DI RISORSE.

6

“BIGGEST THREATS TO BIODIVERSITY”



1. CLIMATE CHANGE

Increase in the temperature of the atmosphere has major effects on the environment such as the seasons, rising of the sea levels, and glacial retreats.



2. HABITAT LOSS & DEGRADATION

Habitat loss may either be caused by natural events like natural calamities and geological events or anthropogenic activities like deforestation and man-induced climate change.



3. POLLUTION

Be it water, air, or land pollution, all forms of pollution appear to be a threat to all life forms on Earth.



4. INVASIVE SPECIES

An exotic or unnatural species can be any kind of organism that has been introduced to a foreign habitat. This introduction can cause major threats to the native species.



5. OVEREXPLOITATION

Overexploitation refers to the act of over-harvesting species and natural resources at rates faster than they can actually sustain themselves in the wild.



6. OTHER POTENTIAL THREATS

Epidemics and infectious diseases of wildlife such as Ebola virus disease, infectious bursal disease, and flu affect wildlife and biodiversity.

ALTERNATIVE?

SCENARI A CONFRONTO

SCENARIO AGRO-INDUSTRIALE



SCENARIO AGRO-ECOLOGICO



LENTICCHIA ROSSA E ORZO NUDO



CONSOCIAZIONI *(intercropping)*

<https://www.tuttogreen.it/consociazioni-orto/>

GRANO TENERO E TRIFOGLIO VIOLETTO



LE **LEGUMINOSE** IN ORTO SI CONSOCIANO BENE A:

- **CUCURBITACEE** (ZUCCHE, ZUCCHINE);
- **APIACEE** O OMBRELLIFERE (CAROTA, SEDANO, FINOCCHIO, PREZZEMOLO);
- **BRASSICACEE** O CRUCIFERE (CAVOLI, CAVOLFIORI, CIME DI RAPA).

COSTRUIRE UNA COMPOSTIERA



<https://www.deabyday.tv/ecologia-e-ambiente/vivere-eco/video/675/Video-guida-al-compostaggio--costruisci-la-tua-compostiera.html>

Grazie per l'attenzione





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