Launch of the Alliance for regenerative agriculture

14TH JUNE 2023

Launch of the Alliance for regenerative agriculture

MARIE-LAURE EYCHENNE

BEL
Sustainablity Manager

COLINE BURLAND

OMIE & CO
Head of products & sales &
Cofounder

BASTIEN SACHET

EARTHWORM FOUNDATION
CEO

SEBASTIEN ROUMEGOUS

BIOSPHERES
Founder & CEO

NICOLAS LOZ DE COETGOURHANT

WWF FRANCE
Head of Sustainable Business Practice

Bel Group in a nutshell

150 YEARS FAMILY BUSINESS

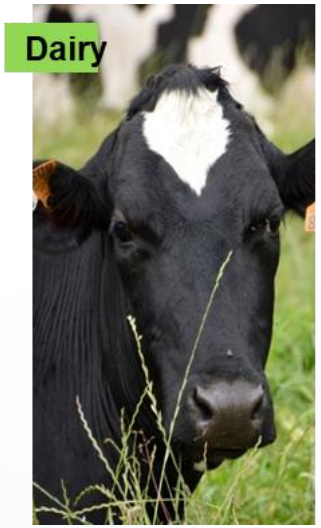
ICONIC BRANDS THAT PEOPLE LOVE

3 COMPLEMENTARY TERRITORIES

OUR MISSION OFFER HEALTHIER & MORE SUSTAINABLE FOOD FOR ALL

In motion towards regenerative agriculture

Our goal is to use in our products
100% of milk and apples from regenerative agriculture by 2030
extended by 2035 to all our key raw materials



Pasture grazing
Local sourcing
Agroforestry
Biodiversity monitoring
Farm' carbon audit
0 deforestation

[Tribune] « Pas d'alimentation sans terres vivantes, Agissons ensemble ! » par Cécile Béliot, Directrice générale du Groupe Bel

Bel's ambition:
Become a catalyst of the implementation of regenerative agriculture practices

Launch of the Alliance for regenerative agriculture

JOINING FORCES !

Bring the ecosystem together:

farmers, growers, suppliers, retailers, food players, technical experts, NGOs ..

- To **share best practices**
- To **tackle challenges together**
- To **co-create new solutions** and share them to inspire others

omie&cie

Omie & Co

COLINE BURLAND

HEAD OF PRODUCTS & SALES - COFOUNDER

Earthworm Foundation

BASTIEN SACHET
CEO EARTHWORM FOUNDATION

Earthworm Foundation Vision

Supply chains that regenerate the world

Work WITH COMPANIES

LEVERAGE the power of SUPPLY CHAINS

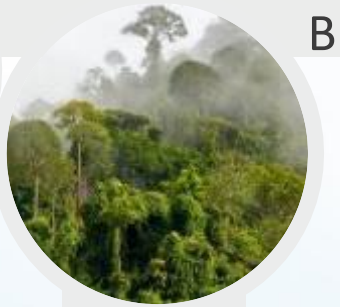
Work WITH and FOR

farmers

rural workers

communities

soils



forests

REGENERATE Climate, People, Biodiversity

280 staff members – 16 countries

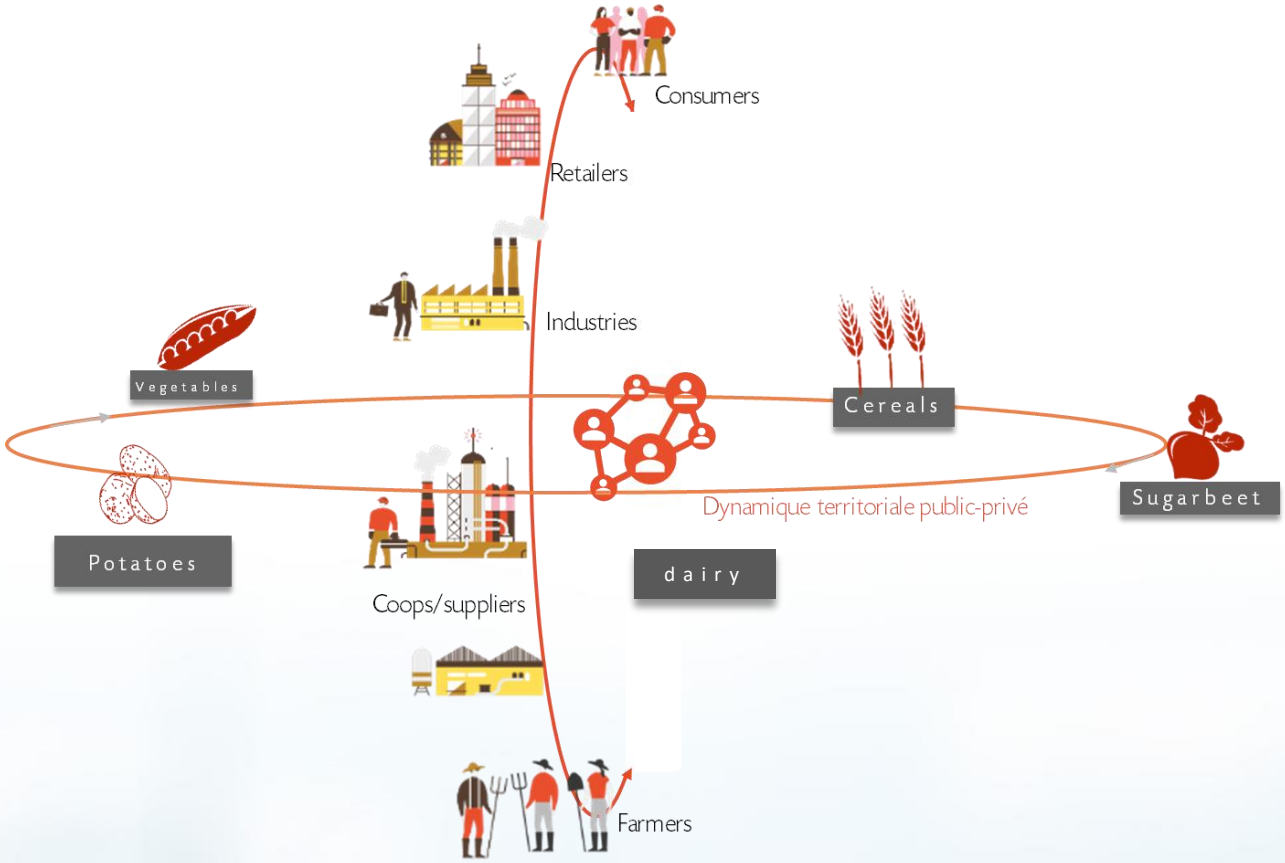
Why soil ?

CO_2

C
Humus

Living Soils Program

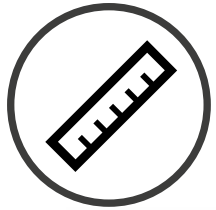
- Soil is a commons : preserving it requires a **collective** approach
- A both **practical and scientifically credible** approach
- A **result and impact-oriented** approach
- An **inclusive** approach: all farmers can join
- A **systemic** approach: across the crop rotation, along supply chain, with public & private stakeholders from the territory



Our approach

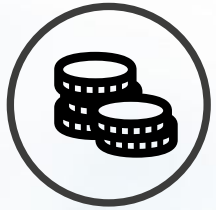
Technical support

- Train and support the farmers
- Train and support the technicians



Measurement

- One common set of indicators
- With tools to monitor impacts



Economic incentives

- De-risk the transition
- Incentivize the farmer
- Value the ecosystem services

A global agronomic framework to measure impacts

✓ A multi-issue approach : soil, climate, biodiversity, water

- **Soil preservation and regeneration**
- **Preservation of water resources**
- **The gain in autonomy of farms**
- **Adaptation and reduction of climate impact**
- **Improving the impact of practices on biodiversity**

✓ Indicators adapted to each level of the sector (farmers, cooperatives, industries)

✓ An approach allowing to:

- Make the link between measurement and technical support
- Build scales of remuneration to value the transition

Categorization of farmers in reg ag levels

Focus: Living Soils indicator

Long term and resilience

OM/clay ratio[1]

Medium / short term

pH

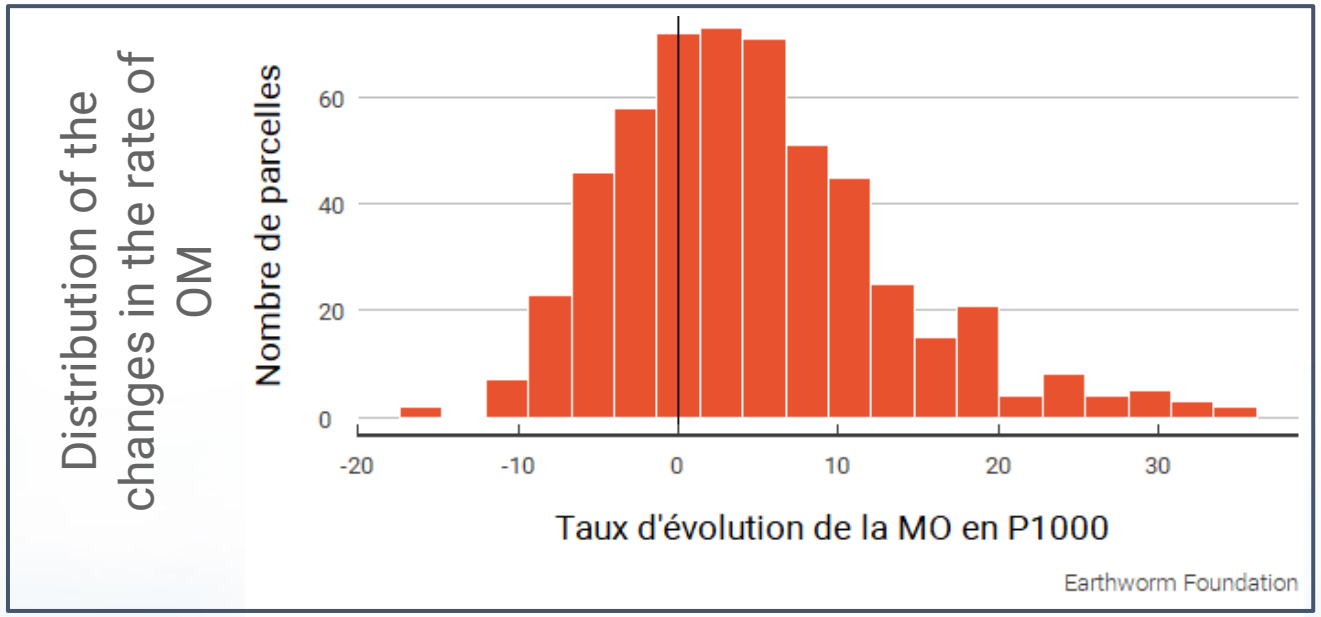
Structure

Bioturbation

A B C D E

1 : Johannes, A., Matter, A., Schulin, R., Weisskopf, P., Baveye, P.C., Boivin, P., 2017. Optimal organic carbon values for soil structure quality of arable soils. Does clay content matter? Geoderma 302, 14–21. https://doi.org/10.1016/j.geoderma.2017.04.021

The need to accelerate



2021-2022 results

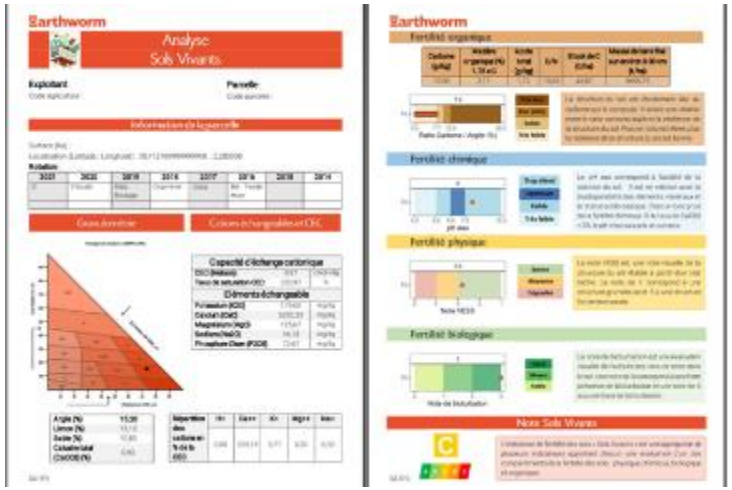
80 % of soils present a deficit in organic matter

➔ **Need to store Organic matter**

- Current rate 4.6 ‰
- 55 years to exit the area of vulnerability

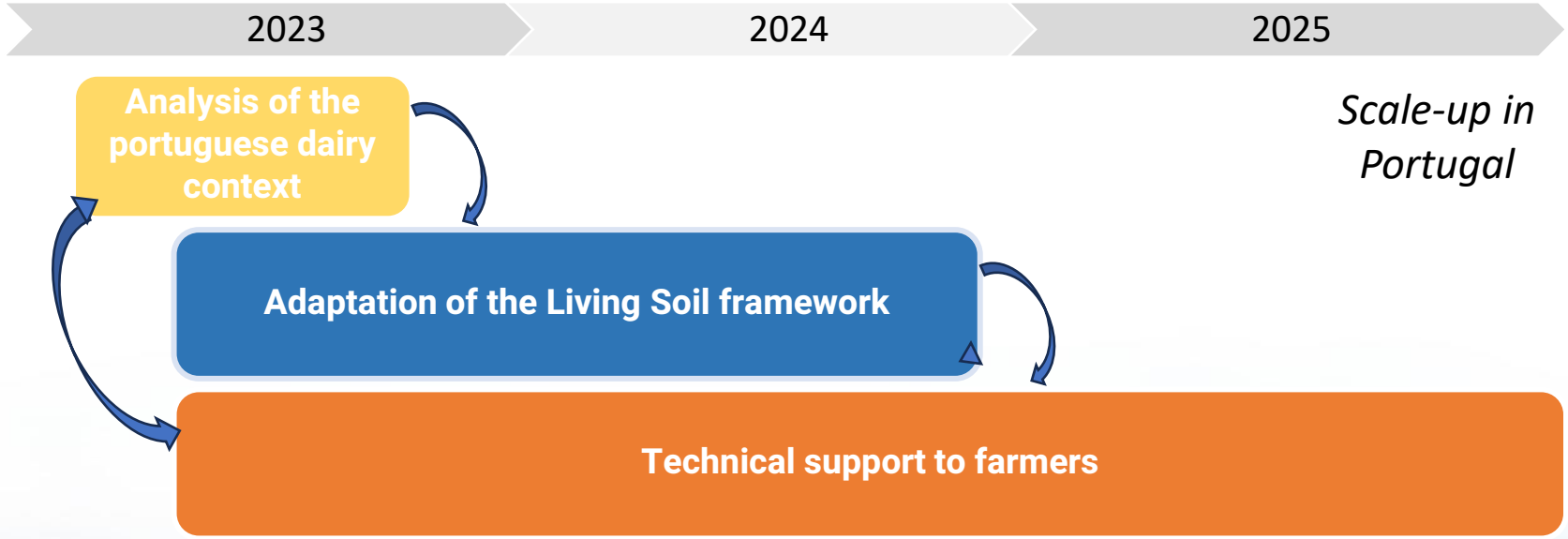
➔ **Need to accelerate**

In practice


Earthworm
Analyse
Sols Vivants
Earthworm
Fertilité organique
Fertilité chimique
Fertilité physique
Fertilité biologique
Note Sols Vivants

Starting implementation in Portugal (pilot)

Get dairy farms supplying Bel Group more resilient through the implementation of regenerative agriculture practices → produce sustainable animal feed on living soils.



BIOSPHERES
AGRICULTURE RÉGÉNÉRATRICE

Biosphères

SÉBASTIEN ROUMEGOUS
FOUNDER & CEO

alliance
AGRICULTURE RÉGÉNÉRATRICE

BIOSPHERES

AGRICULTURE RÉGÉNÉRATRICE

MAKE THE TRANSITION TOWARDS REGENERATIVE AGRICULTURE SAFE & SIMPLE

OUR ORGANIZATION MADE TO MAKE ANY SUPPLY CHAIN… REGENERATIVE

BIOSPHERES
AGRICULTURE RÉGÉNÉRATRICE

PARENT COMPANY & CONSULTING OFFICE

- *Since 2020*
- Senior advisors specialized
- 10 years of experience
- All productions systems
- Consultancy, expertise, Research & development

UniSpheres Scholae

TRAINING CENTER

i-Spheres
INDEX·IMPULSE·IMPACT

SOLUTION FOR TRACEABILITY & IMPACT INDEX

Microspheres Lab
AGRICULTURE | SOLS | PLANTES

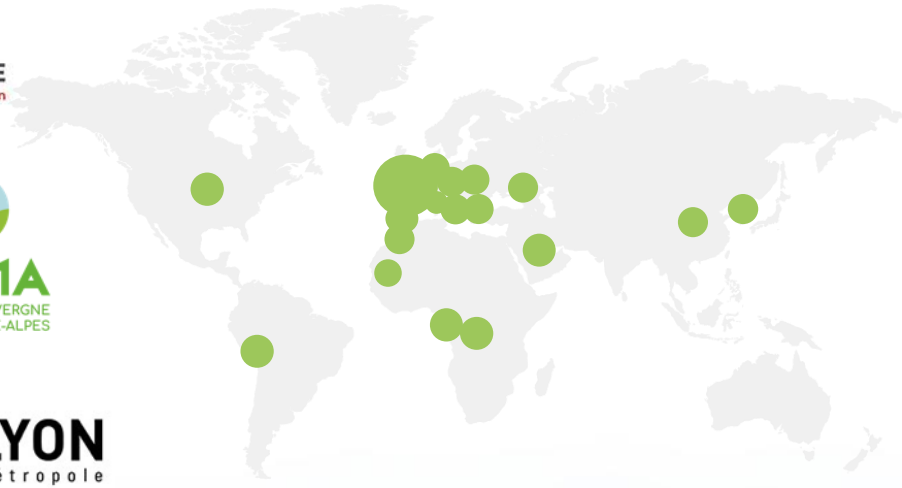
LIVING STUDYLABORATORY

NON-PROFIT ORGANIZATION

CDA
CENTRE DE DÉVELOPPEMENT DE L'AGROÉCOLOGIE

alliance
REGENERATIVE AGRICULTURE

They trust us



WHAT AMBITION : RESTORE EXOSYSTEMS

Produce food and act on the environment at the same time:
PRODUCTION + BIODIVERSITY + CARBON STORAGE + WATER QUALITY

”Conventional" agriculture

Low land cover
Systematic deep tillage
Low organic matter restitution
Low water infiltration
Erosion
Diffuse pollution
- 300 KG CO2 STORED/Ha/YEAR*

Agroecology / Regenerative agriculture

Land cover >90%
Systematic use of plant cover
High carbon restitution
Excellent water infiltration
Stopping erosion
Reduction of diffuse pollution
+ 600 KG CO2 STORED/Ha/YEAR

* Results of the AGREAU Program (South West France)

Example of transition in dry areas : orchards

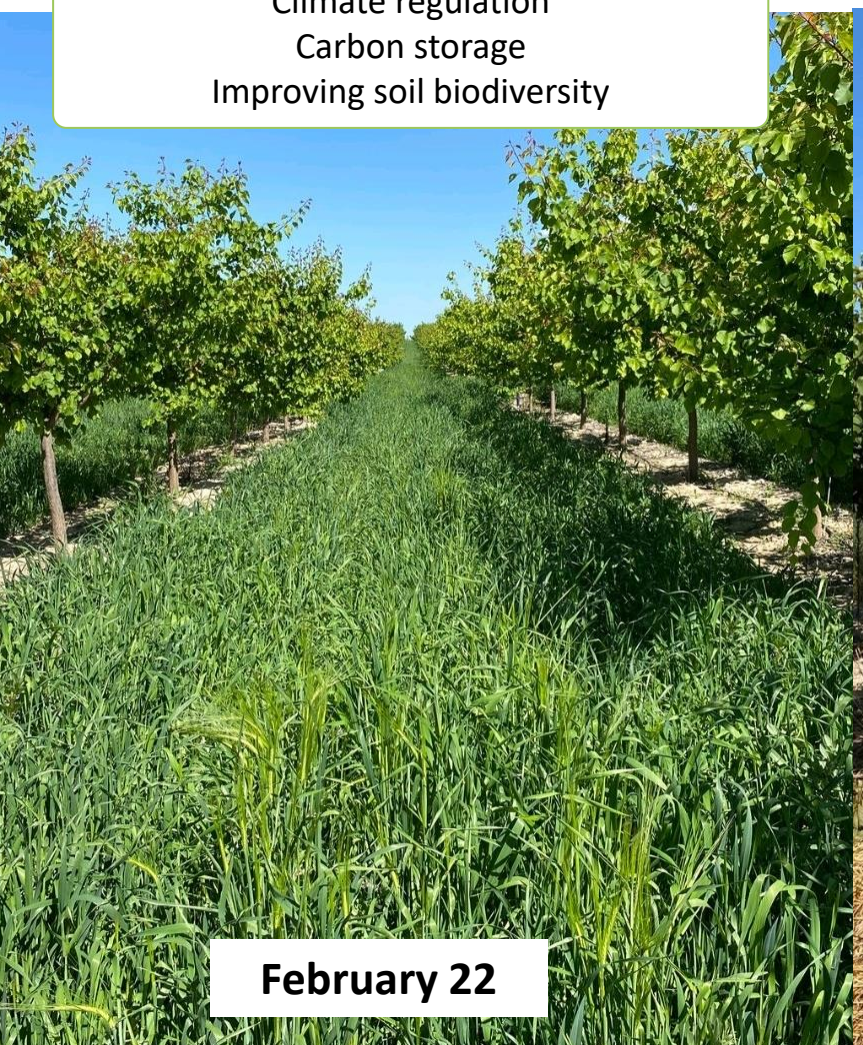
Regenerative agriculture
Growing plant cover
Climate regulation
Carbon storage
Improving soil biodiversity

Soil protection& fertility
Water infiltration/savings
Biodiversity preservation
Low herbicides use

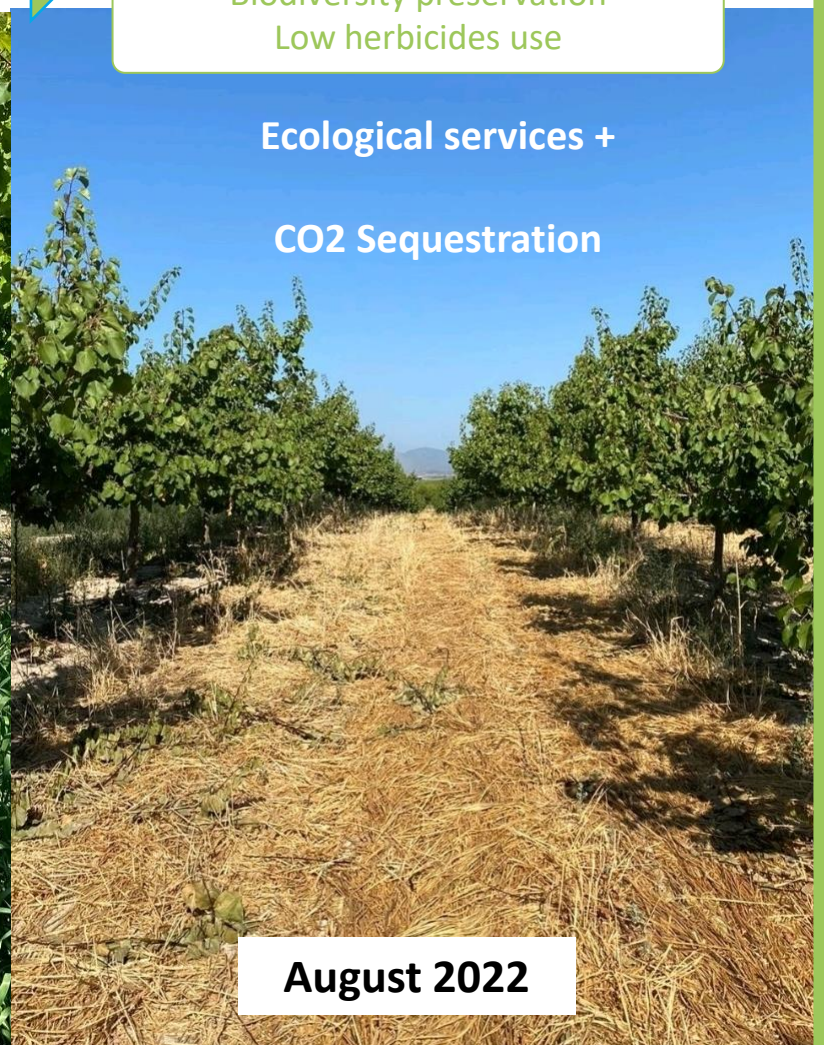
Ecological services +

CO2 Sequestration

Conventional agriculture
Low ecological niches
High weed level and herbicides use
Poor water infiltration
Soil erosion and low fertility



February 22



August 2022

August 2022

EXAMPLE IN VINEYARDS

CLASSIC SYSTEM → AGROECOLOGICAL niv. 1 → AGROECOLOGICAL niv. 2

Early and integral tillage

- No ecological services
- Carbon destocking
- Destruction of ecological niches

Cover nitrogen fixing 1 path out of 2

- Time saving
- Zero impact on practices
- Food resources x3 to 5
- Preserved habitats
- Natural input of 15kg of nitrogen/ha

Cover nitrogen fixing all rows

- Complexity of destruction
- Reorganization of work
- Ecological niches x10 and high level of biodiversity
- Natural input of 30Kg of nitrogen / ha

OUR MISSION: RESTORING ECOSYSTEMS FUNCTIONS

Facilitating and securing the transition to regenerative agriculture

- ✓ 0 erosion
- ✓ Reduced leaching
- ✓ Micro and macroporosity
- ✓ Increased organic matter and carbon storage
- ✓ Improved natural habitats

- ⇗ Biological activity
- ⇗ Soil health
- ⇗ Biodiversity
- ⇗ CO_2 storage
- ⇗ Water infiltration and purification
- ⇘ Input savings: fuel, fertilizers and pesticides

AGRICULTURE OF THE FUTURE

Cover + biomass = biodiversity, water quality, soil quality

Adapted to all crops and situations

THE ARBORICULTURE MODEL

- ✓ Stopping erosion
- ✓ Leaching reduction
- ✓ Micro and macroporosity
- ✓ Increased organic matter and carbon storage

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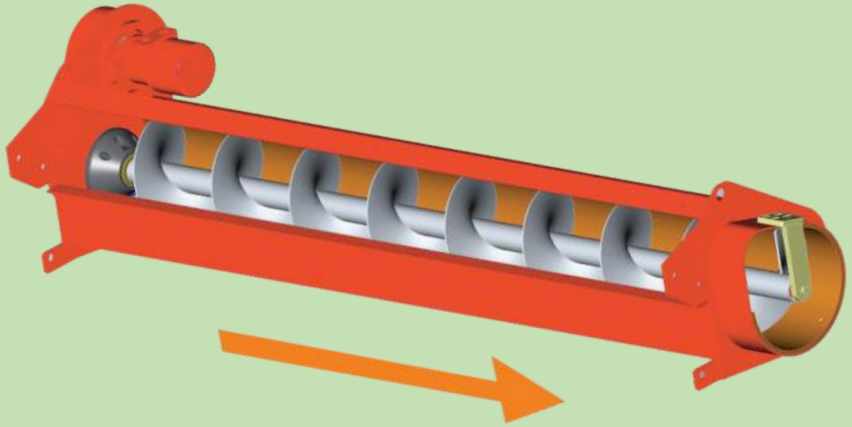


THE ARABLE FARMING MODEL

- ✓ Stopping erosion
- ✓ Leaching reduction
- ✓ Micro and macroporosity
- ✓ Increased organic matter and carbon storage

THE VINE MODEL

- ✓ Stopping erosion
- ✓ Leaching reduction
- ✓ Micro and macroporosity
- ✓ Increased organic matter and carbon storage

THE VINE MODEL

ACCELERATE CHANGE PATHWAYS

Know-how developed over 10 years of field experience

CLASSIC PROGRESSION

10-12 ans

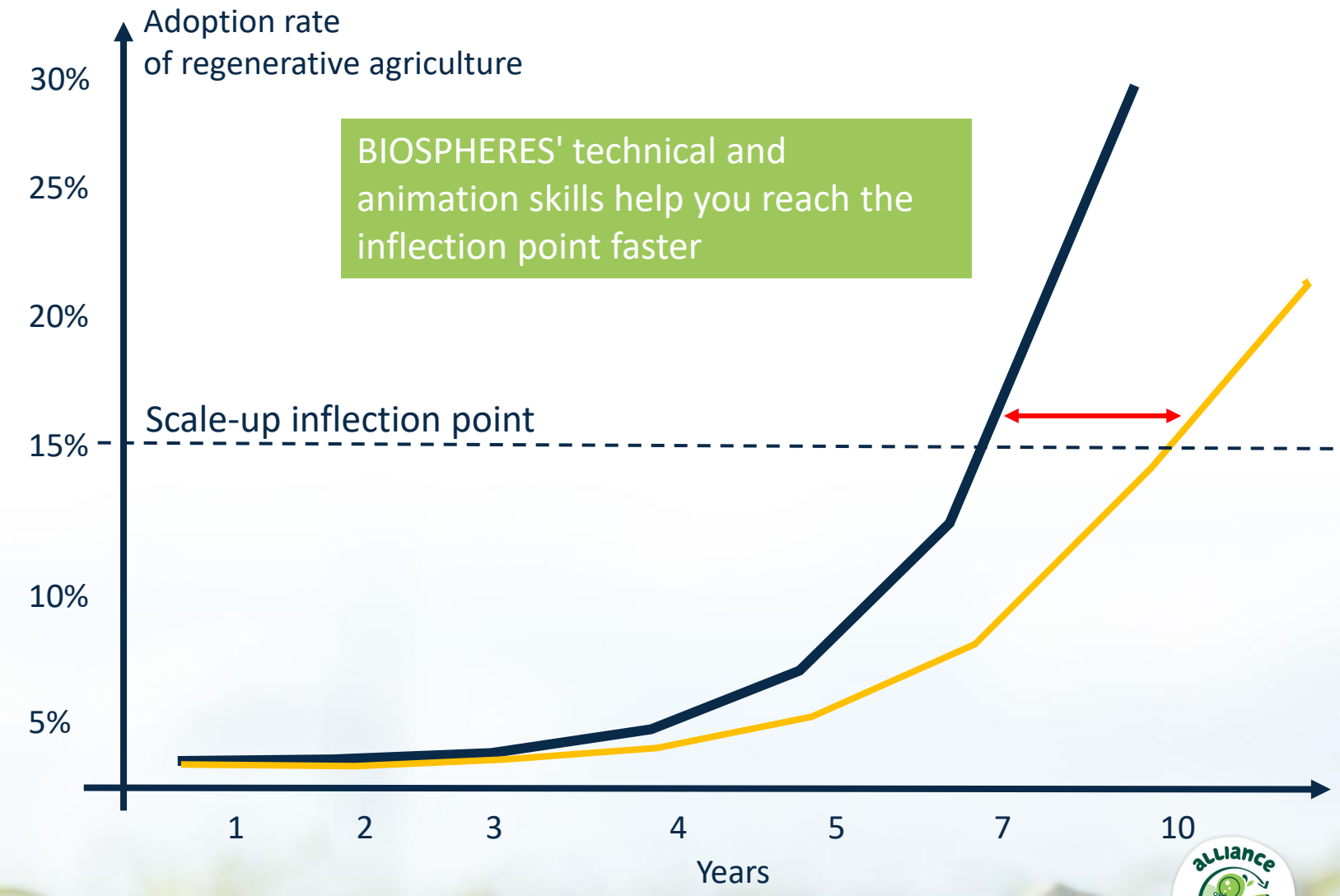
4 years

PROGRESSION with support

5-7 years

2 years

BIOSPHERES =
Safe transition 2 times faster



Regenerative viticulture: economic and environmental improvement

Système classique

Travail du sol précoce et intégral + déchaussage

Système Agroécologique Niv. 1

Couvert fixateur d'azote 1 chemin sur 2

Système Agroécologique Niv. 2

Couvert fixateur d'azote tous les rangs

Erosion

Hydrology
(Infiltration)

Carbon

Biodiversity

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- To **co-create new solutions** and share them to inspire others

NEXT WEBINAR IN OCTOBER 2023

Q&A

Listening to your questions

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THANK YOU