



Healthy People and Sustainable Food Systems are at the Heart of the European Green Deal: The Role of Sustainable Nutrition

Key note to the webinar “Whole Grains – A Game Changer for
Public and Planetary Health”

9 November 2021

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The European Green Deal

European Commission

What is the European Green Deal?

December 2019
#EUGreenDeal

The European Green Deal is about **improving the well-being of people**. Making Europe climate-neutral and protecting our natural habitat will be good for people, planet and economy. No one will be left behind.

The EU will:

-  Become climate-neutral by 2050
-  Protect human life, animals and plants, by cutting pollution
-  Help companies become world leaders in clean products and technologies
-  Help ensure a just and inclusive transition

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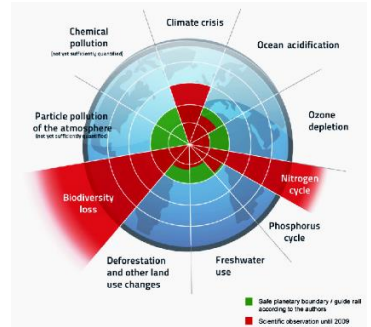
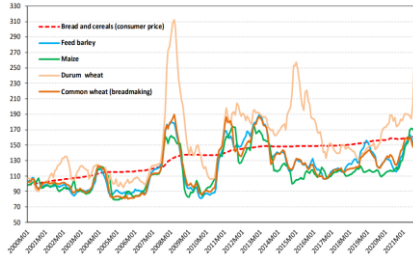
F2F Strategy: Food System Sustainability, Carbon Farming Initiative

FAIR

HEALTHY

GREEN

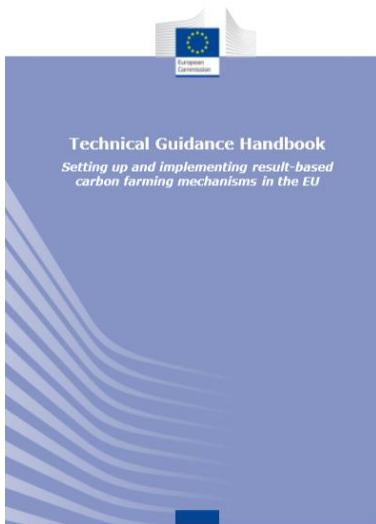
Chart 3. Cereals/bread and cereals based products: EU agricultural market and consumer price developments (January 2000 until September 2021, 2000=100)



Sources: DG AGRI – Commodity Price Dashboard, EAT-Lancet report, Stockholm Resilience Centre.

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EU Carbon Farming Study and Guidelines



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Analytical Support for the Operationalisation of an EU Carbon Farming Initiative

Project tasks and flow



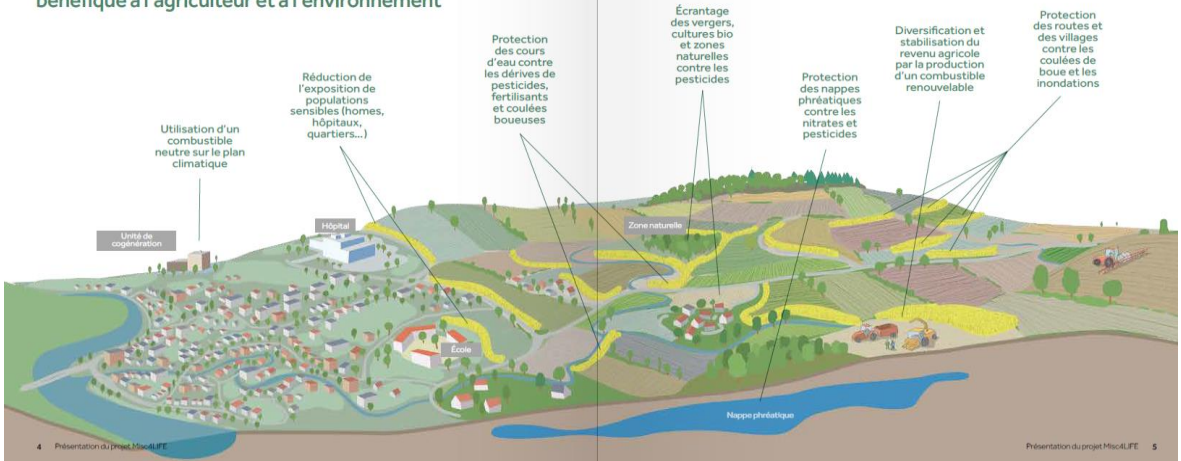
5 | 23 SEPTEMBER 2020
2ND ROUNDTABLE ON CARBON FARMING



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Enabling Carbon Farming – LIFE Prep Project

L'implantation d'un maillage de miscanthus à l'échelle d'un bassin versant
 Un modèle innovant de production de biomasse
 bénéfique à l'agriculteur et à l'environnement



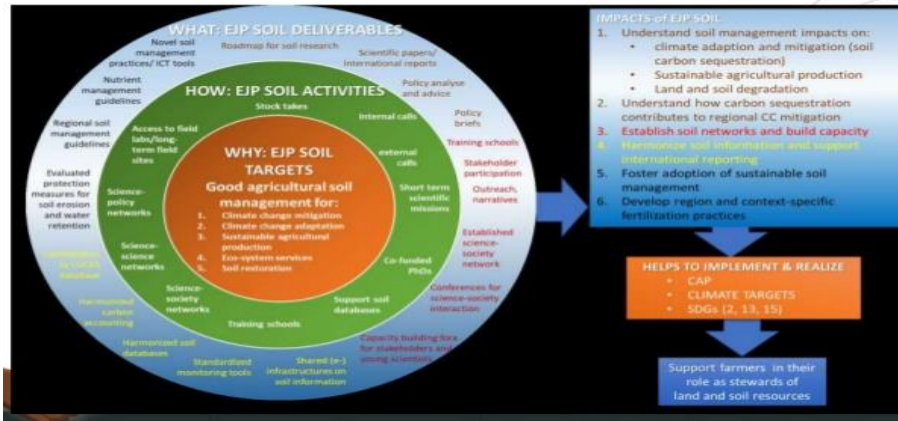
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Enabling Carbon Farming – Soil Carbon Mapping

EUROPEAN JOINT PROGRAMME (EJP) ON AGRICULTURAL SOIL MANAGEMENT



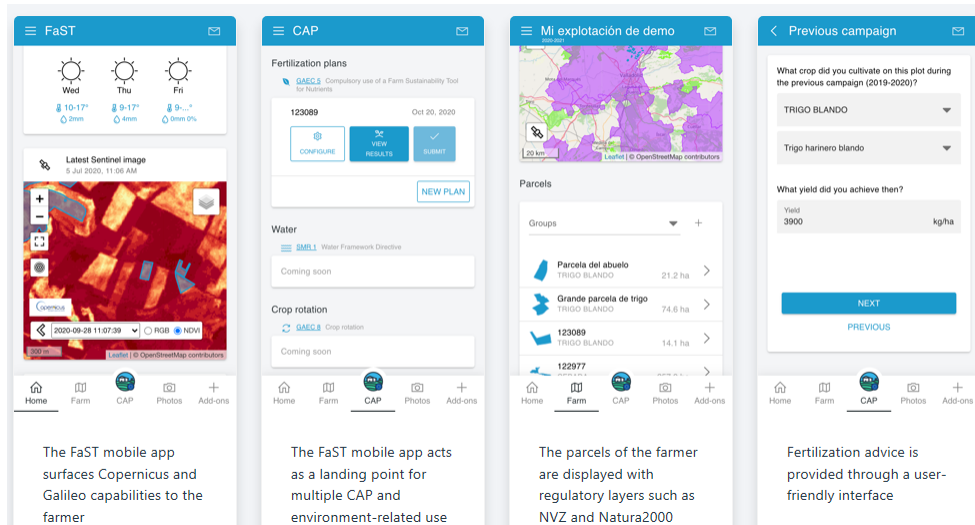
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Source: IPCC 2006 Guidance



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Carbon Farming – Lighthouse farms and piloting

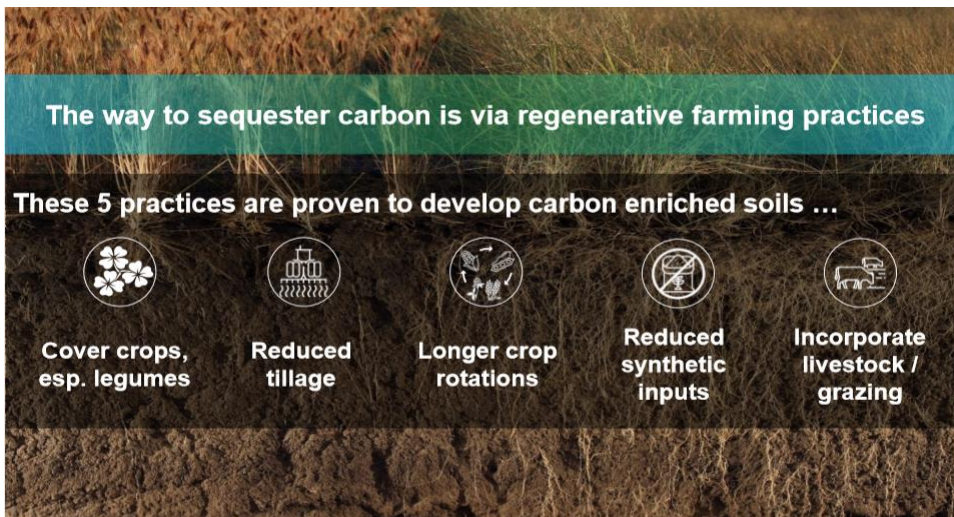


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Carbon Farming on mineral soils – key practices

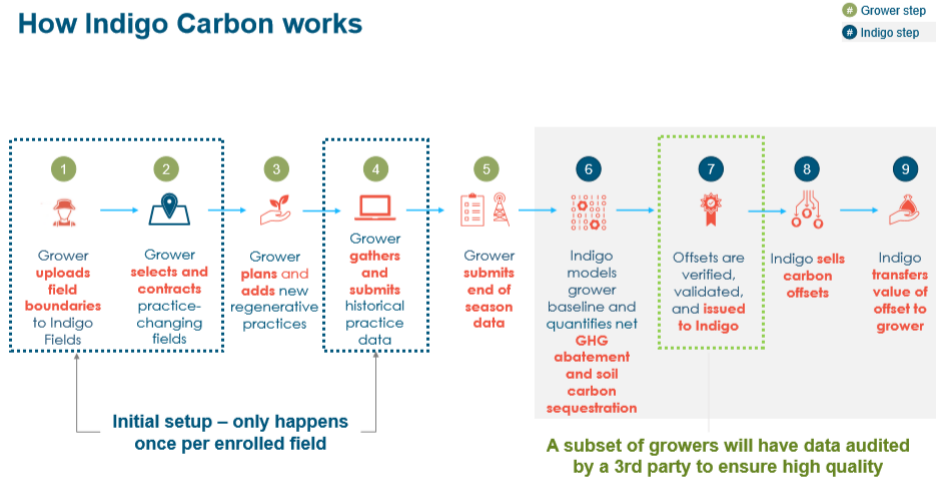


Source: Indigo Agriculture

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Carbon Farming on mineral soils – example set-up Indigo Carbon

How Indigo Carbon works



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Carbon Farming – proof of different concepts

The way to sequester carbon is via regenerative farming practices

These 5 practices are proven to develop carbon enriched soils ...

- Cover crops, esp. legumes
- Reduced tillage
- Longer crop rotations
- Reduced synthetic inputs
- Incorporate livestock / grazing

Paradigm shift for peatland use

- Alternative income options needed
- Paludiculture: wetland crops + value chains
- Rewarding of emission reduction (e.g. public payment or appropriate credit schemes)



Adjustments of CAP framework
-> many paludicultures currently not eligible for CAP payments



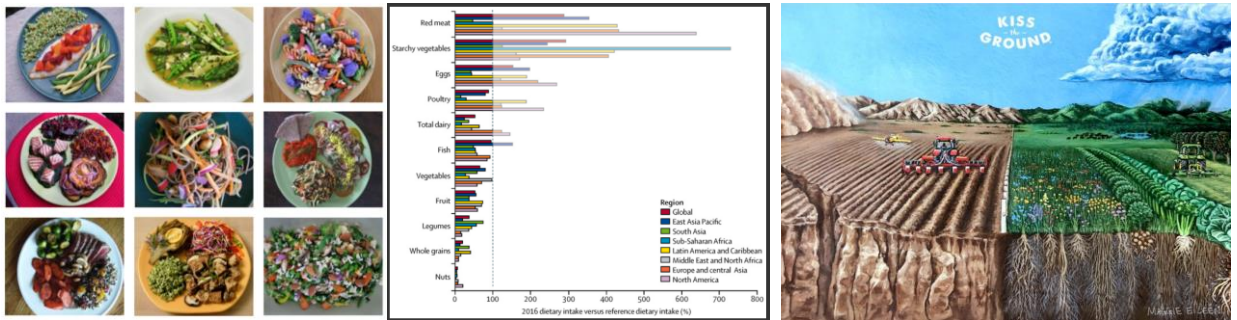
PROPOSED Fork to farm carbon credit system

Sources: Indigo, Jim McAdam, CUT, GMC



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Carbon Farming: Planning of new regenerative practices from « fork to farm »



Sources: EAT Lancet report on planetary diet, film material « Kiss the Ground »

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Carbon Farming: Potential association with EU Child Guarantee and EU School Scheme (healthy meals for healthy soils)

European Child Guarantee: how the EU protects children

The EU wants to break the cycles of poverty and disadvantage across generations, so that all children can thrive in life.

Protecting children in need

The European Child Guarantee provides guidance and tools for EU countries to ensure every child in Europe at risk of poverty has access to essential services.

To protect children EU countries should guarantee every child in need access to:

- free early education and care
- free education
- free healthcare
- at least 1 healthy meal each school day for free

Children should also have access to:

- healthy nutrition
- adequate housing

Investing in children's future

To ensure no child is left behind, EU countries should:

- allocate adequate resources from national and EU funds, in particular European Social Fund Plus and European Regional Development Fund
- make use of the REACT-EU, InvestEU and the Recovery and Resilience Facility where appropriate

For countries most affected: reserve at least **5% of European Social Fund Plus budgets** to fight child poverty and social exclusion

NB: The EU School Scheme (currently under review) reaches more than 20 million children each school year. However, not necessarily the 18 million children in need (under the EU Child Guarantee) are reached. The EU School Scheme allows for reduced-cost or free distribution of fruit and vegetables, milk to children – for the time being, for example, whole grain products are not covered by the scheme.

Source: Council recommendation establishing a European Child Guarantee, 14 June 2021

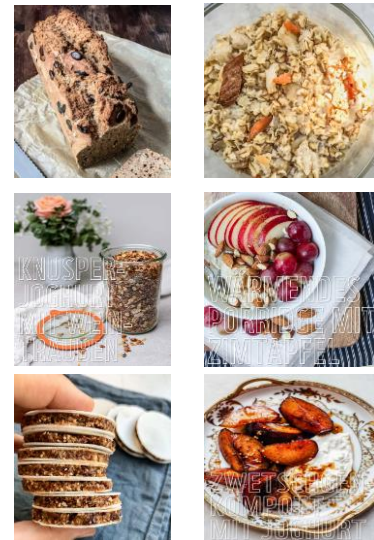
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Thought experiment: EAT Lancet-conforme morning snack provided to 18 million children in need under a revised EU School Scheme

Wochenplan Flexitarisch Planetarisch-Kulinarisch*

	Montag	Dienstag	Mittwoch	Donnerstag	Freitag	Samstag	Sonntag
Frühstück	Carrotcake-Oats	Früh gedünstete Heidelbeeren mit Walderemlich	Brotzeit-Frisierstück	Knusper-Joghurt mit Weintrauben	Carrotcake-Oats	Sprossen-Breie	Wärmendei Porridge mit Zimtarfel
Vormittags-snack	4 Frucht-schnitten**	Zwetschgen-kompott mit Joghurt	Honig-Minz-Quark mit Brombeeren und Knusperfloeken	Bananenbrot-Muffins	Dinkel-Kürbis-Kruste mit Antipasti-Brotaufstrich	3 Frucht-schnitten & 1 Apfel**	Hummus-Sprossen-Sandwich
Mittagessen	Bunter, lauwarmes Hirsesalat	Minziges Erbsen-Kräuter-Pesto mit Vollkorn-nudeln	Blumenkohl-Schmitz mit Walnuss-Par-mesan-Kruste und fruchtigem Feldsalat	Wildlachs mit Fenchel-gemüse und Alblass	Frische Kräuter-Spaghetti	Hähnchen-spieße mit knackigem Krautsalat	Rindfleisch-Suppe mit Buchweizen-Fläde und Wurzelgemüse
Nachmittags-snack	Bananenbrot-Muffins	Grünkohl-Chips	Hummus-Sprossen-Sandwich	Griebrei mit Zwetschgen-kompott	Grüner Minz-Smoothie	Geröstete Knusper-Kichererbsen	Bananenbrot-Muffins
Abendessen	Kartoffeln mit Linsen und Quark	Chili con Ruchertofu	Kartoffel-Zucchini-Bislini mit Chiroee-Feldsalat	Veggie-Lasagne ohne Pasta	Nudelsalat mit Hülsen-früchten und Radichio	Buchweizen-Gelätes mit Roter Bete und Ziegen-käse	Lauwarmer Kürbis-Spinat-Salat mit Hasel-nüssen
Nützlich-Leckeres	Dinkel-Kürbis-Kruste	8 Cremiges Hummus	70 Linsensprossen	72			

* Der Wochenplan Flexitarisch Planetarisch-Kulinarisch basiert auf den Empfehlungen der EAT-Lancet-Kommission mit Blick auf den maximal empfohlenen Verzehr von Fleisch und Wurstwaren, Anstelle von Molkeprodukten werden auch pflanzliche Alternativen bei den Rezepten vorgeschlagen. Der Ersatz entspricht in dem Fall nicht mehr den genauen Vorgaben der EAT-Lancet-Kommission für eine flexitarische Ernährungsgewisse. Es folgen noch: Wochenplan Vegetarisch Planetarisch-Kulinarisch, Wochenplan Vegan Planetarisch-Kulinarisch
**Pro Person



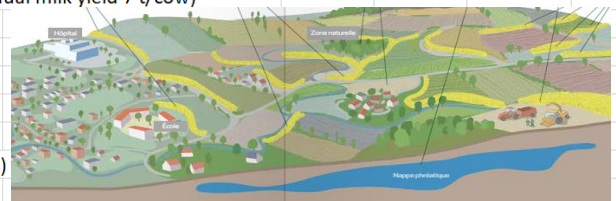
Source: WWF weekly planetary example menu (in line with EAT Lancet recommendations to meet nutritional needs)

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Thought experiment: EAT Lancet-conforme morning snack provided to 18 million children in need under a revised EU School Scheme

	Needed quantities	Needed area and animal number
Oat flakes	295.200 t	59.040 ha (5 t/ha)
Apples	73.800 t	
Drinking milk	214.020 t	30.574 cows (annual milk yield 7 t/cow)
Yoghurt	147.600 t	
Berries	73.800 t	
Grapes	46.125 t	
Carrots	29.520 t	
Pears	36.900 t	
Spelt whole grain flour	44.280 t	8.856 ha (5 t/ha)

Assumptions:
 18 million children served over 41 school weeks (200 school days), one (selected) healthy WWF morning snack per school day
 annual ingredient quantities calculated based on WWF weekly plan/selected snacks (x41) and their recipe indications
 Example potential for carbon farming practices, with reward for carbon sequestration benefits, in geo-spatial priority areas close to schools:
 agroforestry with hedges (for berries), fruit trees (nuts, apples, pears), livestock integration (local breeds dairy cows)
 extended crop rotation (spelt, oats)



Source: WWF weekly planetary example menu (in line with EAT Lancet recommendations to meet nutritional needs)

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Conclusions

- **Sustainable food** at the heart of the **EU Green Deal – healthy nutrition as key** towards the achievement of higher agriculture and land use climate ambition
- **Carbon Farming** to support delivery on higher agriculture and land use climate ambition
- **EU Carbon Farming Guidelines** to be put at work, refined via **piloting** under real farming conditions
- Improved **geo-spatial knowledge and communication systems** to enable cost-efficient, larger scale uptake of Carbon Farming (LIFE PP)
- **EU agricultural soil scientists** (EJP SOIL H2020, H2030), **Earth Observation** community (EEA+) in action to further facilitate Carbon Farming coverage, design and implementation
- Potential to **integrate Carbon Farming with other EU Green Deal policies « from fork to farm »**, with the EU Child Guarantee, EU School Scheme, the reformed CAP, etc - blending various funds and policy interventions for better well-being