



# LIFE IP

# All4Biodiversity



Working group II: Indicator selection and linking indicators to payments

Linking indicators to payments (NL)

**11 October 2024**

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Co-funded by  
the European Union



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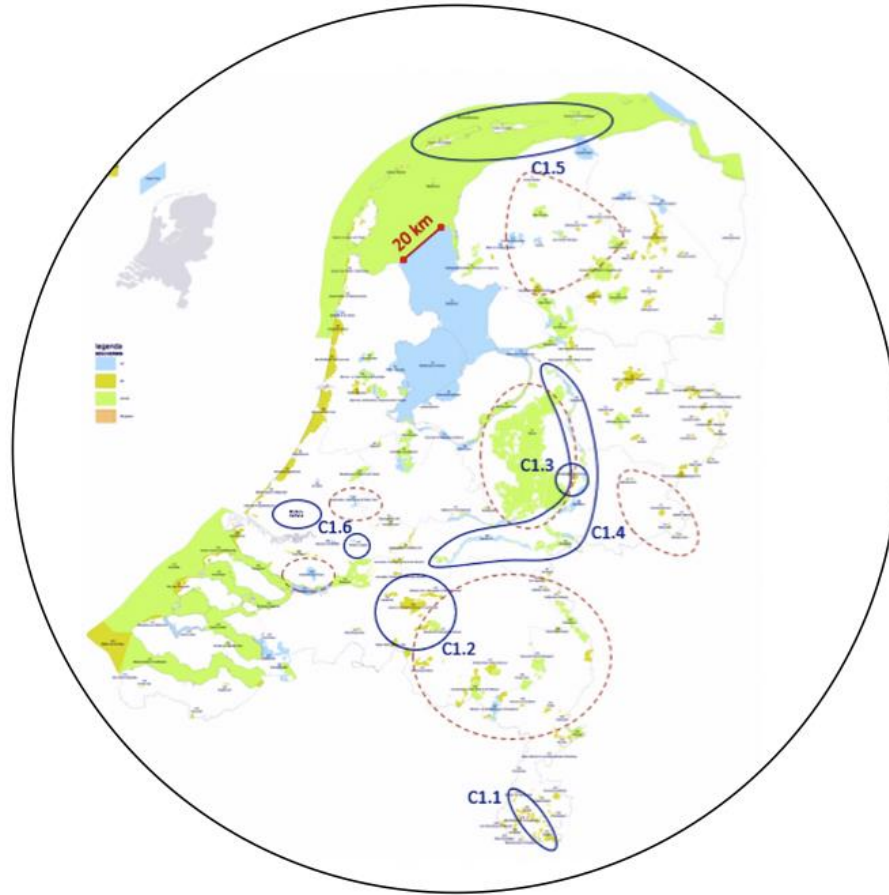


## GOAL

Achieve Natura 2000 targets and improve the quality of nature reserves by reducing stress factors through an area-oriented approach in collaboration with surrounding stakeholders in the transition zones.

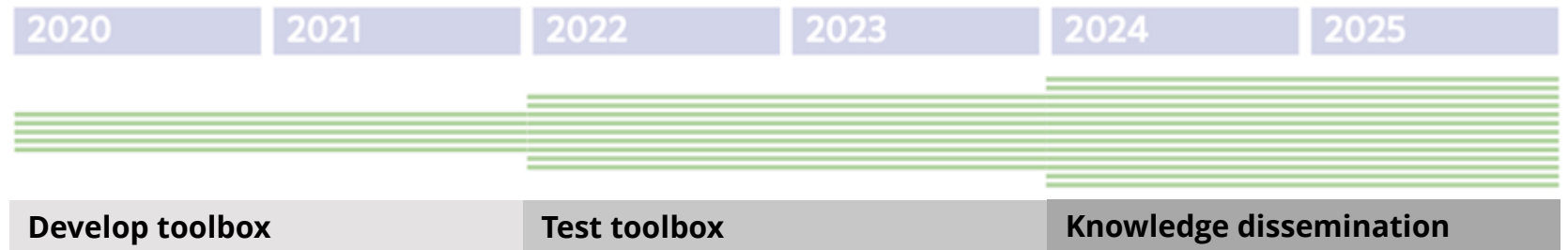
## PARTNERS

- 5 provinces
- 3 Nature and agricultural organisations
- 2 ministries
- 3 Knowledge institutes

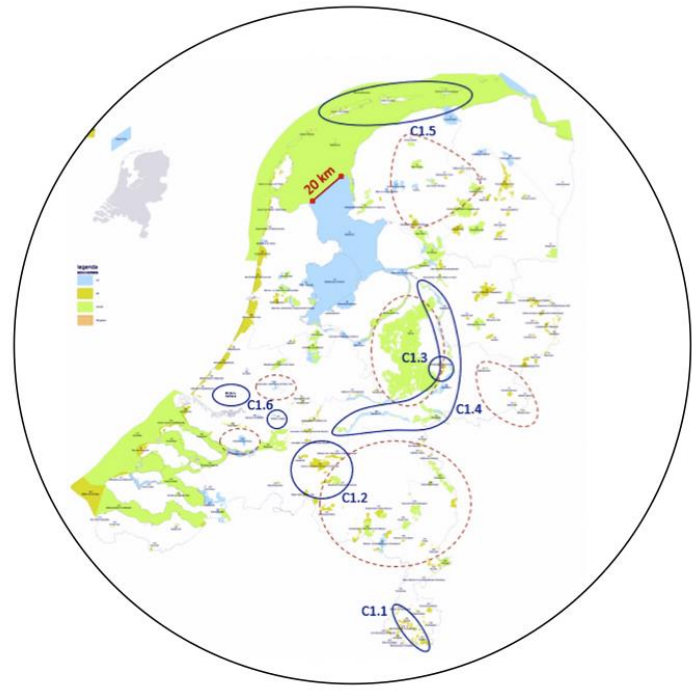
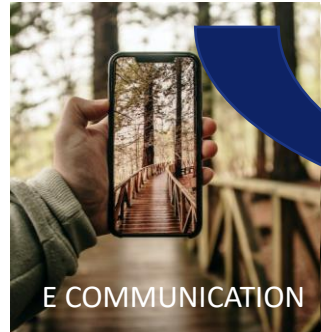
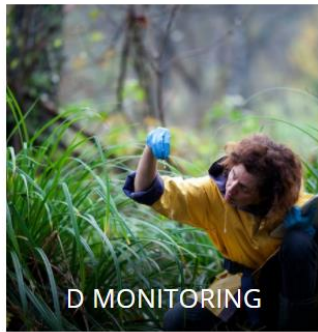
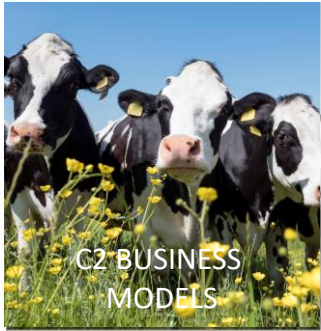
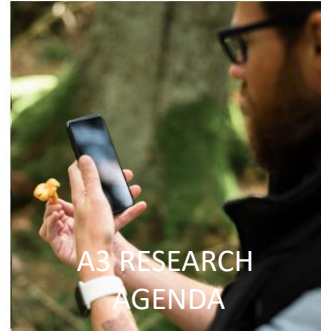
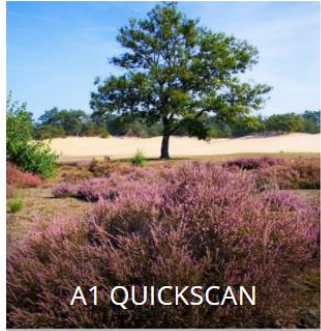


## Factors of success

- |   |  |
|---|--|
| <p>1</p> <p>Commitment and shared values</p>                                  | <p>2</p> <p>Optimise collaboration on regional level</p>   |
| <p>3</p> <p>Develop business models with biodiversity as source of income</p> | <p>4</p> <p>Relevant and consistent law and regulation</p> |
| <p>5</p> <p>Address knowledge gaps</p>  |  |



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Online

Groen Kennisnet 3.0





# LIFE IP All4Biodiversity

Products and instruments

[www.toolbox-all4biodiversity.nl](http://www.toolbox-all4biodiversity.nl)



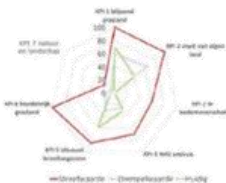
## About the toolbox

The toolbox provides an overview of knowledge and developments around biodiversity restoration. For business models, area-oriented cooperation and monitoring, tools and practical examples can be found. Furthermore, tools are included on how various companies and organisations can contribute to increasing biodiversity on their own terrain.



## BIODIVERSITEITSMONITOREN

Integrale benadering van positieve en negatieve effecten op biodiversiteit



Brabants dairy biodiversity monitor



# Brabant Biodiversity Monitor Dairy farming (BBM)

LIFE Platform Meeting Leuven  
11th October 2024  
Marjon Krol, ZLTO

**GROENER BOEREN  
VERDIENT BETER.**



# BRABANTS BODEM

PROJECT IN  
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GOGH  
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## Supported by



Ministerie van Landbouw, Visserij,  
Voedselzekerheid en Natuur

Current: Ministry of Agriculture, Fisheries, Food Security and Nature

Ministerie van Landbouw,  
Natuur en Voedselkwaliteit

Previous: Ministry of Agriculture, Nature and Food Quality





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## What is BBM?

- BBM is an integrated set of Key Performance Indicators (KPI's) developed by a consortium of stakeholders in the Province of North Brabant with the aim to reward dairy farmers for strengthening biodiversity on their farms
- Involved stakeholders: the consortium partners of Brabants Bodem: Province of North Brabant, Water Boards, ZLTO (farmers organisation), Brabant Landscape, Brabant Environment Federation.



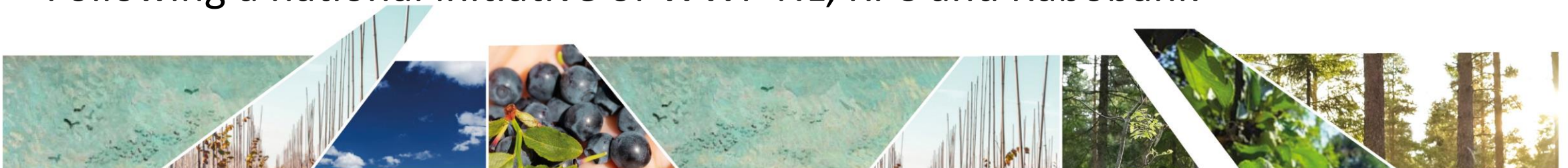


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## Why BBM?

- Dairy farming under pressure in the central part of the Province with many N2000 areas.
- Important to maintain dairy farming in the region and to improve its biodiversity performance because nature inclusive dairy farming helps conservation of nature and landscape
- => help dairy farming to improve biodiversity performance and increase competitiveness
- Develop a result-based reward system instead of activity-based
- Following a national initiative of WWF-NL, RFC and Rabobank





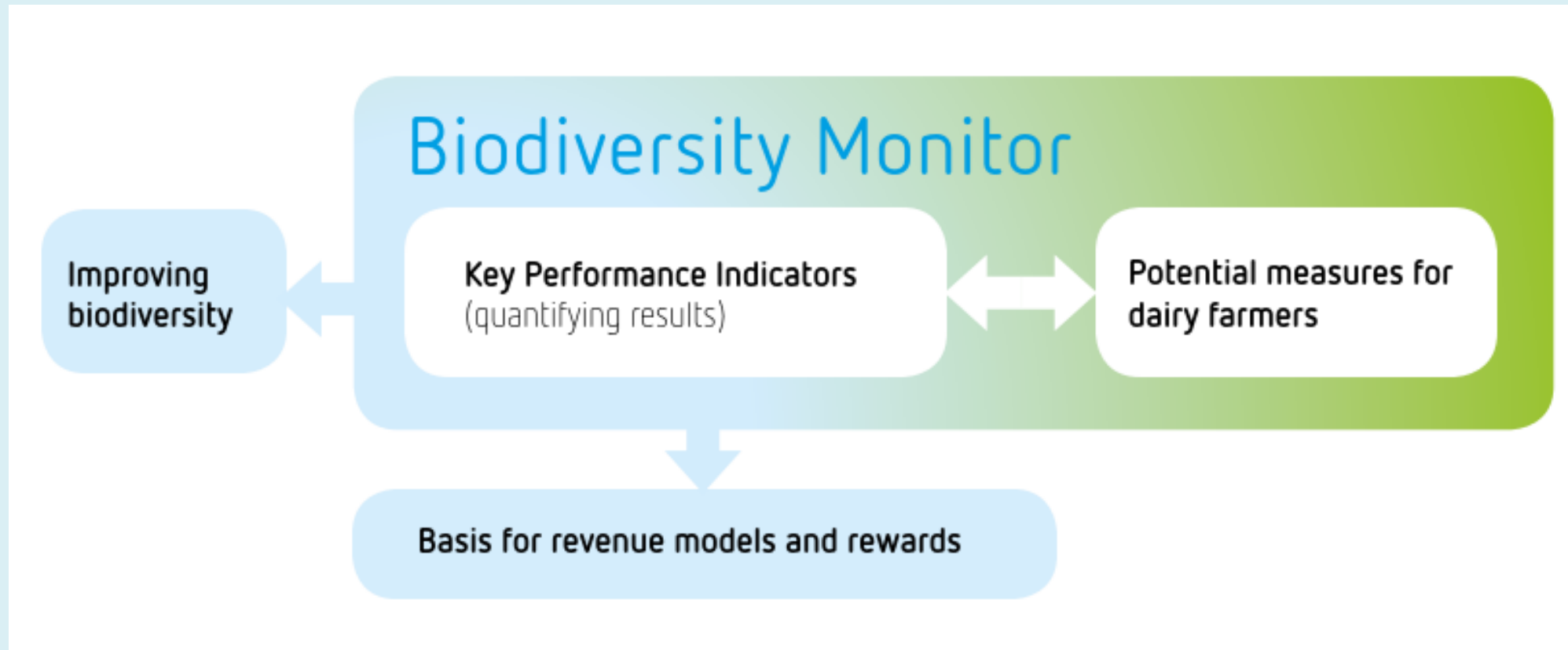
# National Biodiversity Monitor



- Developed by WWF-NL, RFC and Rabobank
- To incentivise farmers to improve biodiversity
- 7 KPI's: integrated approach to improve conditions in which biodiversity can flourish
- Rewards by RFC using Foqus Planet system and Rabobank by providing discount on new loans
- Aim to attract different (private) investors by offering a common language of KPI's



# The Biodiversity Monitor



# 7 national KPI's

1. Percentage of permanent grassland
2. Percentage of protein produced on own farm
3. Nitrogen soil surplus in kg of nitrogen per hectare
4. Climate/GHG; CO<sub>2</sub>eq/kg milk and per hectare
5. Ammonia emissions in kg/ha
6. Percentage of agricultural nature management
7. Percentage of herb-rich grassland





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- → 1. Permanent grassland
- → 2. Protein produced on own farm %
- → 3. Nitrogen soil surplus
- → 4. Climate/GHG (CO<sub>2</sub>eq/kg milk)
- → 5. Ammonia emissions in kg/ha
- → 6. Agricultural nature management %
- → 7. Herb-rich grassland %
- → 8. Green – blue veining %
- → 9. Crop protection products/pesticides
- → 10. N from chemical fertilizer
- → 11. P-soil surplus
- → 12. Grazing hours
- → 13. Crude Protein in ration

## Policy objectives:

- Water
- Nitrogen
- Landscape





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## How and why did we select these 13 KPI's?

- Easy availability of data -> scale up
- Relevance to improve conditions in which biodiversity can flourish
- Relevance for investors: that's why we have extra KPI's...
- Within scope of direct influence of the farmers and with different impact:
  - Indicators connected to green infrastructure
  - Indicators connected to management
  - Indicators connected to results





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Data national  
Cycle Guide  
for Dairy (9  
KPI's)

Data Boeren-  
natuur  
(agricultural  
collectives)  
4 KPI's

1. Permanent grassland (%)
2. Home grown protein (%)
3. Nitrogen soil surplus (kg N/ha)
4. Climate/GHG (CO<sub>2</sub>eq/kg milk)
5. Ammonia emission (kg NH<sub>3</sub>/ha)
6. Agricultural nature management (%)
7. Herb-rich grassland (%)
8. Green – blue veining (%)
9. Crop protection products/pesticides
10. N from chemical fertilizer (kg N/ha)
11. P-soil surplus (kg P<sub>2</sub>O<sub>5</sub>/ha)
12. Grazing (hours)
13. Crude Protein in ration (g RE/kg ds)

## Data management



- Checks on data quality
- Score for each KPI
- Farmers BBM Passport
- Benchmark



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Dit is uw score over 2020

**1200**

op een totaal van 2500

# BBM Passport

- Yearly individual passport with scores
- Also providing benchmark

### Algemene bedrijfsinformatie

Indicatoren	Resultaat	Punten
Melkproductie per bedrijf (kg)	0 kg	NVT
Totale bedrijfsoppervlakte (ha)	0 ha	NVT

### Hoe is de score opgebouwd

#### Kringloopwijzer Indicatoren

#	Indicatoren	Resultaat	Punten
1	Percentage blijvend grasland (%)	0 %	0
2	Percentage eiwit van eigen land (%)	0 %	0
3	N-bodemoverschot (kg N/ha)	0 kg N/ha	200
4	Broeikasgasemissie (kg CO2-eq/kg FPCM)	0 g Co2eq/kgFPCM	200
5	Ammoniakuitstoot (kg NH3/ha)	0 kg NH3/ha	200
6	Gebruik stikstofkunstmest (kg N/ha)	0 kg N/ha	200
7	P-bodemoverschot (kg P205/ha)	0 kg P205/ha	50
8	Weidegang (uur/jaar)	0 uur/jaar	0
9	Eiwit in het melkvee rantsoen (g RE/kg ds)	0 g RE/kg ds	150

#### Groene Indicatoren

#	Indicatoren	Resultaat	Punten
10	Percentage (agrarisch) natuurbeheerland van totale bedrijfsoppervlakte (%)	8 %	100
11	Percentage kruidenrijk grasland (%)	10 %	50
12	Percentage groen-blauwe dooradering van totale bedrijfsoppervlakte (%)	4 %	50
13	Gebruik gewasbeschermingsmiddelen (punten)	0	0

Totaal aantal punten 1200





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# Linking indicators to payments by the programme

Biodiversiteitsmonitor VGNP		
Indicatoren	Doelen	Punten
% Blijvend grasland	$\geq 80\%$	200
	$\geq 70\%$	150
	$\geq 60\%$	100
	$\geq 50\%$	50

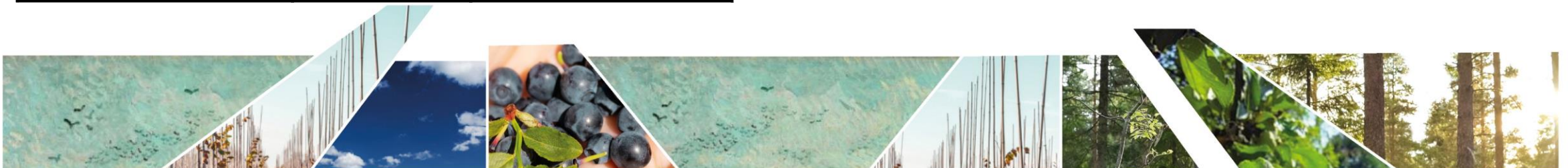
€ 1 per point, max 2.500 points

## Bonus

>1500 points € 2.000

>2000 points € 2.500

Max annual reward: € 5.000







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Progress	Activity	# participating dairyfarmers
2020	Pilot group	55
2021	Development reward scheme to enable payments	190
	Set up implementing organization and digital backbone	
2022	Start monitoring	340
	Exempt for ammonia emission from stables	
2023	Duration reward 3 > 5 years	445
2024	Extra reward for young farmers & farmers in vulnerable areas: depending on growth in BBM score	515





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## Evaluation (2023)

	2020	2021	2022
Average score (BBM)	1142	1311	Not yet available
Average reward (per participant)	1504 euro	1942 euro	Not yet available

- Enthusiasm: farmers appreciate result-based reward system: giving them more flexibility to choose how they want to achieve these results
- Farmers start rethinking and improving their practises
- However: for the moment farmers are reluctant to make big changes because of unclarity in national policy





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# Stacking of rewards 1

RFC (dairy industry):

- Combination with Foqus Planet system:
  - Animal health and welfare: +0,20 euro per 100 kg milk
  - Climate (reduction GHG-emissions): maximum +1,50 euro per 100 kg milk
  - Biodiversity: maximum +0,50 euro per 100 kg milk
  - Grazing: maximum +1,30 euro per 100 kg milk for fulltime grazing
- Planet Proof milk: + 5,00 euro per 100 kg milk





## Stacking of rewards 2

- Rabobank, discount on loans: maximum 2%
- ABN-Amro bank: also discount on loans possible
- CAP: favourable combinations with ecoschemes and agricultural nature conservation
- ASR insurance company and landowner: maximum 10 % discount for land lease from ASR
- Nature organisations developing systems to give preference in access to land to dairy farms with high scores
- Province of North Brabant:
  - As landowner: giving preference in access to land to dairy farms with high scores
  - As policy maker: exception for dairy farms as for policy on low-emission (ammonia) housing with high scores





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## Learnings

1. Consortium partners/investors come with specific wishes:
  - Water Boards added indicators related to water quality (EU Water Framework Directive)
  - Nature organisations added indicators related to green infrastructure
2. It is not easy to involve new investors; it should match their businesscase
3. Investors want tangible results (green infrastructure, specific flora and fauna; match CSRD)
4. Investors pick KPI's that best match their interests (CSRD) with risk that integrality is lost; e.g. higher reward for KPI GHG-emissions by dairy industry
5. 13 KPI's is a lot; farmers cannot address all indicators.
6. Most data come from the Cycle Guide, but most farmers do not understand underlying calculations so difficult to understand how to improve scores; 'learning community' to help farmers to improve scores
7. Policy has a great influence on willingness and opportunities for change by farmers.

