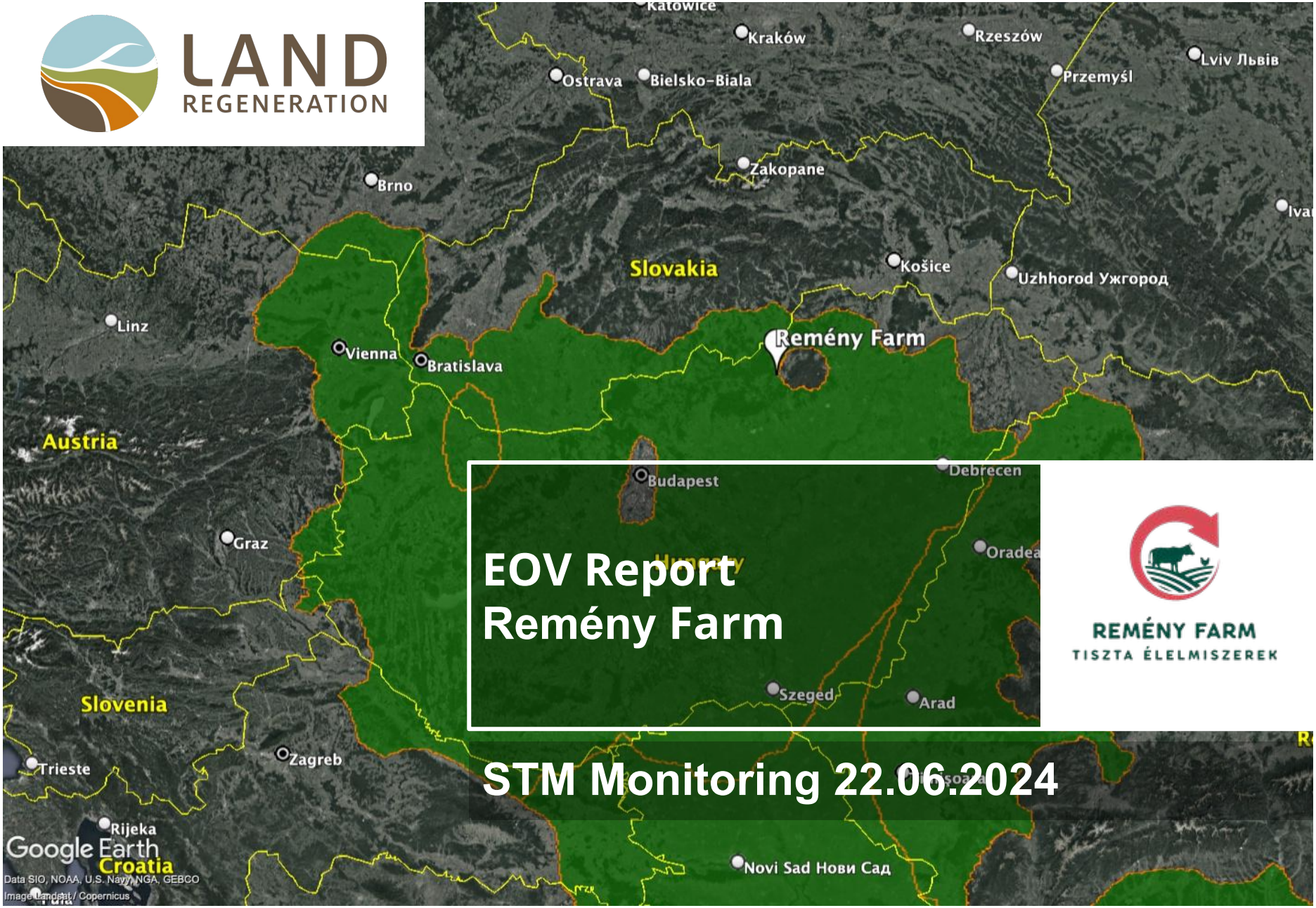
LAND REGENERATION



EOV Report
Remény Farm

REMÉNY FARM
TISZTA ÉLELMISZEREK

STM Monitoring 22.06.2024

Hub für Holistic Management

Mail: info@landregeneration.de
Web: http://landregeneration.de/

savory network

Remény Farm |22.06.2024

Summary

Insights:

- Slight increase in overall EHI, mostly through Energy Flow
- Overall more legumes, especially variety of clovers, present.
- Reduced amount of litter present (mineral cycle)
- Some capping healed, some got worse

Next steps for management:

- How can we feed the soil better? Can we increase litter?
- On the fields with the biggest positive changes, how different was the management? What factors influenced the change, e.g. to less capping?
- On the fields with the biggest negative changes, why did the capping and bare ground increase?
- ...

What will you change, apply, or continue in the next year to move further towards your holistic context?

LAND REGENERATION

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EOV Monitoring – Overview (1/2)

Year	Landbase EHI (-140 to 120)
2023	18.0
2024	21.5
2025	

Degenerates -140 bis -70 ← 1-30 → Regenerates 60-120

Year	Water cycle	Mineral cycle	Energy flow	Community dynamics
2023	79 %	71 %	52 %	50 %
2024	**76%**	**66 %**	**63 %**	**52 %**
2025				

0% - 20% ← → 80% - 100%

Ecological Health Index (EHI)

The Evaluation Matrix is a contextually relevant set of leading ecological indicators. Landbases are monitored using the Evaluation Matrix and receive an Ecological Health Index (EHI) score that is calibrated to their Ecoregion.

The EHI Score serves as an aggregated measure of ecosystem health and is based upon ecological indicators associated with the four ecosystem processes - Water Cycle. Mineral Cycle, Energy Flow, and Community Dynamics.

The EHI Score is the weighted average EHI score for an entire landbase.

EHI scores above 30 points indicate adequate ecosystem function. Values above 65 points indicate a low deviation from the ecoregion's potential.

Scores between 0 and 30 indicate moderate deviation from potential, while negative scores indicate ineffective ecosystem processes and current degradation processes.

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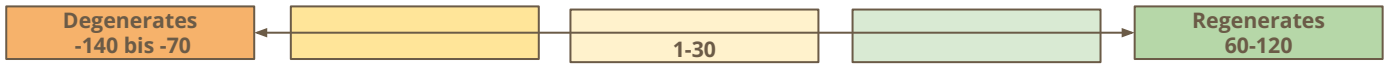
EOV Monitoring – Overview (2/2)

Monitoring site		Landbase EHI (-140 to 120)		
		2023	**2024**	**2025**
P9	1	-5	**-5**	
P8	2	5	**45**	
P12	3	15	**25**	
P12	4	30	**35**	
P14	5	5	**40**	
P6	6	-5	**-25**	
P3	7	60	**15**	
P1	8	55	**60**	
P2	9	-15	**-10**	
P0	10	35	**35**	



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Scores between 0 and 30 indicate moderate deviation from potential, while negative scores indicate ineffective ecosystem processes and current degradation processes.

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EOV Monitoring STM – 2024

Total EHI
21.5

EHI Scores between 0 and 30 indicate moderate deviation from potential.

Water cycle Index	76 %	Mineral cycle Index	66 %	Energy flow Index	63 %	Community dynamics Index	52 %

Paddock name	STM Site	State	Live canopy abundance	Living organisms	FG 1: Warm season grasses	FG 2: Cool season grasses	FG 3: Forbs & Legumes	FG 4: Trees & Shrubs	Context. desired rare species	Context. undesired species	Litter abundance	Litter decomp.	Dung decomp.	Bare ground	Capping	Wind erosion	Water erosion	Total Score
P9	1	*IIIa) Grassland*	-5	5	-10	0	10	-5	0	0	0	0	10	0	-10	0	0	-5
P8	2	*IIIa) Grassland*	5	5	-10	10	0	0	0	0	0	5	10	20	0	0	0	45
P12	3	*IIIa) Grassland*	-5	5	-10	10	10	0	0	0	0	5	10	0	0	0	0	25
P12	4	*IIIa) Grassland*	0	10	-10	0	10	5	0	0	0	5	10	10	-5	0	0	35
P14	5	*IIIa) Grassland*	0	5	-10	5	10	-5	5	-5	0	5	10	20	0	0	0	40
P6	6	*IIIa) Grassland*	-10	0	-10	-5	0	-5	0	0	0	5	10	0	-10	0	0	-25
P3	7	*IIIb) Grassland*	-10	5	-10	0	10	-5	0	0	0	5	10	10	0	0	0	15
P1	8	*IIIa) Grassland*	0	10	-10	5	10	5	5	-5	0	10	10	20	0	0	0	60
P2	9	*I -> II Forest*	5	5	-10	-5	-5	0	0	-10	0	10	10	0	0	0	-10	-10
P0	10	*IIIa) Grassland*	5	10	-10	10	5	-10	0	0	0	5	10	10	0	0	0	35

Degenerates ← → Regenerates

Remény Farm |22.06.2024

EOV Monitoring STM – Baseline year

Total EHI
18

EHI Scores between 0 and 30 indicate moderate deviation from potential.

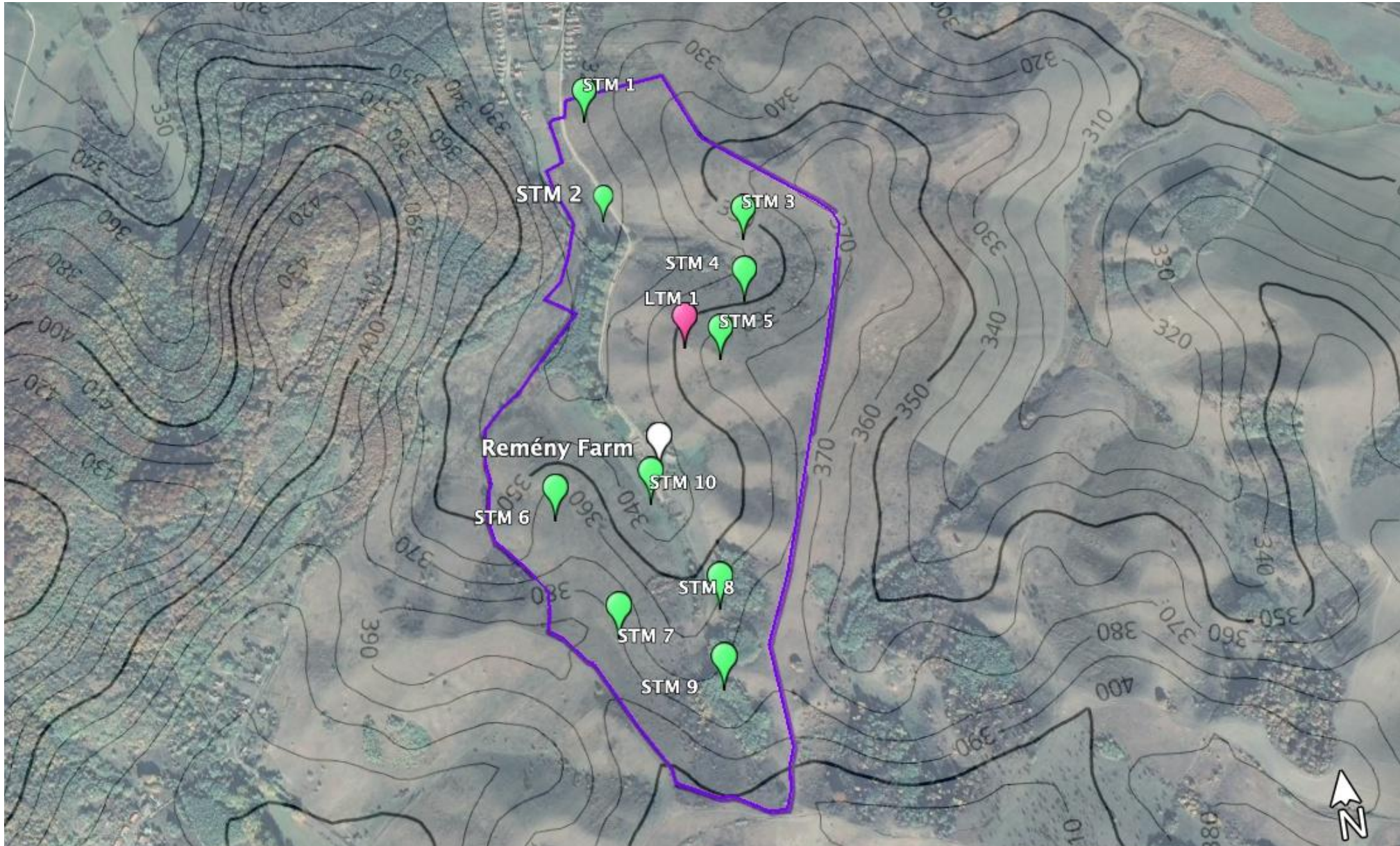
Water cycle Index	79 %	Mineral cycle Index	71 %	Energy flow Index	52 %	Community dynamics Index	51 %

Paddock name	STM Site	State	Live canopy abundance	Living organisms	FG 1: Warm season grasses	FG 2: Cool season grasses	FG 3: Forbs & Legumes	FG 4: Trees & Shrubs	Context. desired rare species	Context. undesired species	Litter abundance	Litter decomp.	Dung decomp.	Bare ground	Capping	Wind erosion	Water erosion	Total Score
P9	1	*IIIa) Grassland*	-10	0	-10	0	5	-5	10	0	5	5	10	0	-5	0	-10	-5
P8	2	*IIIa) Grassland*	-10	5	-10	10	-5	-5	0	-5	5	5	10	10	-5	0	0	5
P12	3	*IIIa) Grassland*	-10	10	-10	0	5	5	0	0	5	5	5	0	0	0	0	15
P12	4	*IIIa) Grassland*	-5	10	-10	0	5	5	0	0	5	5	10	10	-5	0	0	30
P14	5	*IIIa) Grassland*	-10	10	-10	0	5	0	0	0	0	5	5	0	0	0	0	5
P6	6	*IIIa) Grassland*	-10	5	-10	-5	0	-5	5	0	0	5	5	10	-5	0	0	-5
P3	7	*IIIb) Grassland*	-5	10	-10	10	10	5	0	-5	5	10	10	20	0	0	0	60
P1	8	*IIIa) Grassland*	-5	10	-10	5	10	5	0	0	10	10	10	10	0	0	0	55
P2	9	*I -> II Forest*	0	0	-10	-5	-10	0	0	-10	5	5	10	0	0	0	0	-15
P0	10	*IIIa) Grassland*	5	10	-10	10	0	-10	0	-5	10	5	10	10	0	0	0	35

Degenerates ← → Regenerates

Remény Farm |22.06.2024

Overview monitoring sites



Remény Farm |22.06.2024

Overview monitoring sites

∅ Rainfall: 600 mm

2022: 407 mm

2023 (Jan-July): 376 mm

Brittleness
5-6

Comments: In the middle of the brittleness scale, tools need to be monitored closely on their effect.

Paddock name	STM Site	State		Coordinates	
P9	1	IIIa)	Grassland	*48.074631*	*20.274618*
P8	2	IIIa)	Grassland	*48.07442*	*20.275103*
P12	3	IIIa)	Grassland	*48.071779*	*20.278642*
P12	4	IIIa)	Grassland	*48.070558*	*20.278356*
P14	5	IIIa)	Grassland	*48.069488*	*20.277393*
P6	6	IIIa)	Grassland	*48.066909*	*20.272077*
P3	7	IIIb)	Grassland	*48.064576*	*20.27333*
P1	8	IIIa)	Grassland	*48.064837*	*20.276209*
P2	9	I -> II	Forest	*48.063379*	*20.275955*
P0	10	IIIa)	Grassland	*48.071205*	*20.278368*
P14	LTM 1-1	IIIa)	Grassland	*48.069814°*	*20.276441°*
	LTM 1-3			*48.069738°*	*20.276471°*
	LTM 1-6			*48.069622°*	*20.276519°*

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EOV STM – #1

Paddock name	STM Site	State		Coordinates		Comment
P9	1	*IIIa)*	*Grassland*	*48.074631*	*20.274618*	*Moss, variety of legumes*

Date	Live canopy abundance	Living organisms	FG 1: Warm season grasses	FG 2: Cool season grasses	FG 3: Forbs & Legumes	FG 4: Trees & Shrubs	Context. desired rare species	Context. undesired species	Litter abundance	Litter decomp.	Dung decomp.	Bare ground	Capping	Wind erosion	Water erosion	Total Score
04.07.2023	-10	0	-10	0	5	-5	10	0	5	5	10	0	-5	0	-10	-5
2024	-5	5	-10	0	10	-5	0	0	0	0	10	0	-10	0	0	-5
2025																

Degenerates ← → Regenerates

Date	ADH	Forage Quality	Use pattern	Use intensity
2023	50	3	PG	n
2024				
2025				

Water cycle	60%
Mineral cycle	50%
Energy flow	42%
Community Dynamics	46%

0% - 20% ← → 80% - 100%

Forage Quality
5 100% green leaves, with legumes
4 100% green material, mainly leafs and new stems-No legumes
3 Green material with high proportion of stems and a proportion up to 40% of dead material
2 Stems and dead leafs predominant. Some green mixed in.
1 Stems and dead leaves predominant. Old material. Very little or no green at all.

Photos

Baseline	2024

Remény Farm |22.06.2024

EOV STM – #2

Paddock name	STM Site	State		Coordinates		Comment
P8	2	*IIIa)*	*Grassland*	*48.07442*	*20.275103*	*Legumes only some vetch. Newly planted fruit trees, old trees on southern side*

Date	Live canopy abundance	Living organisms	FG 1: Warm season grasses	FG 2: Cool season grasses	FG 3: Forbs & Legumes	FG 4: Trees & Shrubs	Context. desired rare species	Context. undesired species	Litter abundance	Litter decomp.	Dung decomp.	Bare ground	Capping	Wind erosion	Water erosion	Total Score
04.07.2023	-10	5	-10	10	-5	-5	0	-5	5	5	10	10	-5	0	0	5
2024	5	5	-10	10	0	0	0	0	0	5	10	20	0	0	0	45
2025																

Degenerates ← → Regenerates

Date	ADH	Forage Quality	Use pattern	Use intensity
2023	25	3	PG	i
2024				
2025				

Water cycle	90%
Mineral cycle	78%
Energy flow	92%
Community Dynamics	64%

0% - 20% ← → 80% - 100%

Forage Quality
5 100% green leaves, with legumes
4 100% green material, mainly leafs and new stems-No legumes
3 Green material with high proportion of stems and a proportion up to 40% of dead material
2 Stems and dead leafs predominant. Some green mixed in.
1 Stems and dead leaves predominant. Old material. Very little or no green at all.

Photos

Baseline	2024

Remény Farm |22.06.2024

EOV STM – #3

Paddock name	STM Site	State		Coordinates		Comment
P12	3	*IIIa)*	*Grassland*	*48.071779*	*20.278642*	*Herbaceous grassland with strong legumes*

Date	Live canopy abundance	Living organisms	FG 1: Warm season grasses	FG 2: Cool season grasses	FG 3: Forbs & Legumes	FG 4: Trees & Shrubs	Context. desired rare species	Context. undesired species	Litter abundance	Litter decomp.	Dung decomp.	Bare ground	Capping	Wind erosion	Water erosion	Total Score
04.07.2023	-10	10	-10	0	5	5	0	0	5	5	5	0	0	0	0	15
2024	-5	5	-10	10	10	0	0	0	0	5	10	0	0	0	0	25
2025																

Degenerates ← → Regenerates

Date	ADH	Forage Quality	Use pattern	Use intensity
2023	44	3	PG	s
2024				
2025				

Water cycle	70%
Mineral cycle	39%
Energy flow	42%
Community Dynamics	43%

0% - 20% ← → 80% - 100%

Forage Quality
5 100% green leaves, with legumes
4 100% green material, mainly leafs and new stems-No legumes
3 Green material with high proportion of stems and a proportion up to 40% of dead material
2 Stems and dead leafs predominant. Some green mixed in.
1 Stems and dead leaves predominant. Old material. Very little or no green at all.

Photos

Baseline	2024

Remény Farm |22.06.2024

EOV STM – #4

Paddock name	STM Site	State		Coordinates		Comment
P12	4	*IIIa)*	*Grassland*	*48.070558*	*20.278356*	*Much variety in clover (Hungarian clover), grasses less variety but very healthy*

Date	Live canopy abundance	Living organisms	FG 1: Warm season grasses	FG 2: Cool season grasses	FG 3: Forbs & Legumes	FG 4: Trees & Shrubs	Context. desired rare species	Context. undesired species	Litter abundance	Litter decomp.	Dung decomp.	Bare ground	Capping	Wind erosion	Water erosion	Total Score
04.07.2023	-5	10	-10	0	5	5	0	0	5	5	10	10	-5	0	0	30
2024	0	10	-10	0	10	5	0	0	0	5	10	10	-5	0	0	35
2025																

Degenerates ← → Regenerates

Date	ADH	Forage Quality	Use pattern	Use intensity
2023				
2024				
2025				

Water cycle	75%
Mineral cycle	72%
Energy flow	67%
Community Dynamics	61%

0% - 20% ← → 80% - 100%

Forage Quality
5 100% green leaves, with legumes
4 100% green material, mainly leafs and new stems-No legumes
3 Green material with high proportion of stems and a proportion up to 40% of dead material
2 Stems and dead leafs predominant. Some green mixed in.
1 Stems and dead leaves predominant. Old material. Very little or no green at all.

Photos

Baseline	2024

Remény Farm |22.06.2024

EOV STM – #5

Paddock name	STM Site	State		Coordinates		Comment
P14	5	*IIIa)*	*Grassland*	*48.069488*	*20.277393*	*Rare species present, also thorny shrubs*

Date	Live canopy abundance	Living organisms	FG 1: Warm season grasses	FG 2: Cool season grasses	FG 3: Forbs & Legumes	FG 4: Trees & Shrubs	Context. desired rare species	Context. undesired species	Litter abundance	Litter decomp.	Dung decomp.	Bare ground	Capping	Wind erosion	Water erosion	Total Score
04.07.2023	-10	10	-10	0	5	0	0	0	0	5	5	0	0	0	0	5
2024	0	5	-10	5	10	-5	5	-5	0	5	10	20	0	0	0	40
2025																

Degenerates ← → Regenerates

Date	ADH	Forage Quality	Use pattern	Use intensity
2023				
2024				
2025				

Water cycle	90%
Mineral cycle	78%
Energy flow	83%
Community Dynamics	64%

0% - 20% ← → 80% - 100%

Forage Quality
5 100% green leaves, with legumes
4 100% green material, mainly leafs and new stems-No legumes
3 Green material with high proportion of stems and a proportion up to 40% of dead material
2 Stems and dead leafs predominant. Some green mixed in.
1 Stems and dead leaves predominant. Old material. Very little or no green at all.

Photos

Baseline	2024

Remény Farm |22.06.2024

EOV STM – #6

Paddock name	STM Site	State		Coordinates		Comment
P6	6	*IIIa)*	*Grassland*	*48.066909*	*20.272077*	*Intensely grazed? Grasses very short, legumes there but not as vigorous, some shrubs*

Date	Live canopy abundance	Living organisms	FG 1: Warm season grasses	FG 2: Cool season grasses	FG 3: Forbs & Legumes	FG 4: Trees & Shrubs	Context. desired rare species	Context. undesired species	Litter abundance	Litter decomp.	Dung decomp.	Bare ground	Capping	Wind erosion	Water erosion	Total Score
04.07.2023	-10	5	-10	-5	0	-5	5	0	0	5	5	10	-5	0	0	-5
2024	-10	0	-10	-5	0	-5	0	0	0	5	10	0	-10	0	0	-25
2025																

Degenerates ← → Regenerates

Date	ADH	Forage Quality	Use pattern	Use intensity
2023				
2024				
2025				

Water cycle	60%
Mineral cycle	50%
Energy flow	33%
Community Dynamics	36%

0% - 20% ← → 80% - 100%

Forage Quality
5 100% green leaves, with legumes
4 100% green material, mainly leafs and new stems-No legumes
3 Green material with high proportion of stems and a proportion up to 40% of dead material
2 Stems and dead leafs predominant. Some green mixed in.
1 Stems and dead leaves predominant. Old material. Very little or no green at all.

Photos

Baseline	2024

Remény Farm |22.06.2024

EOV STM – #7

Paddock name	STM Site	State		Coordinates		Comment
P3	7	*IIIb)*	*Grassland*	*48.064576*	*20.27333*	Just grazed intensely. Grasses no key species expressed, legumes in variety present

Date	Live canopy abundance	Living organisms	FG 1: Warm season grasses	FG 2: Cool season grasses	FG 3: Forbs & Legumes	FG 4: Trees & Shrubs	Context. desired rare species	Context. undesired species	Litter abundance	Litter decomp.	Dung decomp.	Bare ground	Capping	Wind erosion	Water erosion	Total Score
04.07.2023	-5	10	-10	10	10	5	0	-5	5	10	10	20	0	0	0	60
2024	-10	5	-10	0	10	-5	0	0	0	5	10	10	0	0	0	15
2025																

Degenerates ← → Regenerates

Date	ADH	Forage Quality	Use pattern	Use intensity
2023	25	4	PG	n
2024				
2025				

Water cycle	80%
Mineral cycle	67%
Energy flow	50%
Community Dynamics	54%

0% - 20% ← → 80% - 100%

Forage Quality
5 100% green leaves, with legumes
4 100% green material, mainly leafs and new stems-No legumes
3 Green material with high proportion of stems and a proportion up to 40% of dead material
2 Stems and dead leafs predominant. Some green mixed in.
1 Stems and dead leaves predominant. Old material. Very little or no green at all.

Photos

Baseline	2024

Remény Farm |22.06.2024

EOV STM – #8

Paddock name	STM Site	State		Coordinates		Comment
P1	8	*IIIa)*	*Grassland*	*48.064837*	*20.276209*	*Trees + shrubs present, rare species, grasses: some key species, undesired: thorny shrubs*

Date	Live canopy abundance	Living organisms	FG 1: Warm season grasses	FG 2: Cool season grasses	FG 3: Forbs & Legumes	FG 4: Trees & Shrubs	Context. desired rare species	Context. undesired species	Litter abundance	Litter decomp.	Dung decomp.	Bare ground	Capping	Wind erosion	Water erosion	Total Score
04.07.2023	-5	10	-10	5	10	5	0	0	10	10	10	10	0	0	0	55
2024	0	10	-10	5	10	5	5	-5	0	10	10	20	0	0	0	60
2025																

Degenerates ← → Regenerates

Date	ADH	Forage Quality	Use pattern	Use intensity
2023	25	3	pg	s
2024				
2025				

Water cycle	90%
Mineral cycle	89%
Energy flow	83%
Community Dynamics	71%

0% - 20% ← → 80% - 100%

Forage Quality
5 100% green leaves, with legumes
4 100% green material, mainly leafs and new stems-No legumes
3 Green material with high proportion of stems and a proportion up to 40% of dead material
2 Stems and dead leafs predominant. Some green mixed in.
1 Stems and dead leaves predominant. Old material. Very little or no green at all.

Photos

Baseline	2024

Remény Farm |22.06.2024

EOV STM – #9

Paddock name	STM Site	State		Coordinates		Comment
P2	9	*I -> II*	*Forest*	*48.063379*	*20.275955*	*Closed forest to become open woodland. Fewer nettles*

Date	Live canopy abundance	Living organisms	FG 1: Warm season grasses	FG 2: Cool season grasses	FG 3: Forbs & Legumes	FG 4: Trees & Shrubs	Context. desired rare species	Context. undesired species	Litter abundance	Litter decomp.	Dung decomp.	Bare ground	Capping	Wind erosion	Water erosion	Total Score
04.07.2023	0	0	-10	-5	-10	0	0	-10	5	5	10	0	0	0	0	-15
2024	5	5	-10	-5	-5	0	0	-10	0	10	10	0	0	0	-10	-10
2025																

Degenerates ← → Regenerates

Date	ADH	Forage Quality	Use pattern	Use intensity
2023	33	4	pg	i
2024				
2025				

Water cycle	60%
Mineral cycle	61%
Energy flow	58%
Community Dynamics	29%

0% - 20% ← → 80% - 100%

Forage Quality
5 100% green leaves, with legumes
4 100% green material, mainly leafs and new stems-No legumes
3 Green material with high proportion of stems and a proportion up to 40% of dead material
2 Stems and dead leafs predominant. Some green mixed in.
1 Stems and dead leaves predominant. Old material. Very little or no green at all.

Photos

Baseline	2024

Remény Farm |22.06.2024

EOV STM – #10

Paddock name	STM Site	State		Coordinates		Comment
P0	10	*IIIa)*	*Grassland*	*48.071205*	*20.278368*	*Lots of key species in grasses and legumes. Maybe relocated because of new hoop houses.*

Date	Live canopy abundance	Living organisms	FG 1: Warm season grasses	FG 2: Cool season grasses	FG 3: Forbs & Legumes	FG 4: Trees & Shrubs	Context. desired rare species	Context. undesired species	Litter abundance	Litter decomp.	Dung decomp.	Bare ground	Capping	Wind erosion	Water erosion	Total Score
04.07.2023	5	10	-10	10	0	-10	0	-5	10	5	10	10	0	0	0	35
2024	5	10	-10	10	5	-10	0	0	0	5	10	10	0	0	0	35
2025																

Degenerates ← → Regenerates

Date	ADH	Forage Quality	Use pattern	Use intensity
2023		3		pg
2024				
2025				

Water cycle	80%
Mineral cycle	72%
Energy flow	75%
Community Dynamics	54%

0% - 20% ← → 80% - 100%

Forage Quality
5 100% green leaves, with legumes
4 100% green material, mainly leafs and new stems-No legumes
3 Green material with high proportion of stems and a proportion up to 40% of dead material
2 Stems and dead leafs predominant. Some green mixed in.
1 Stems and dead leaves predominant. Old material. Very little or no green at all.

Photos

Baseline	2024

THANK YOU!

IF YOU HAVE FURTHER QUESTIONS, WE LOOK FORWARD HEARING FROM YOU.

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web: http://landregeneration.de/

LAND REGENERATION