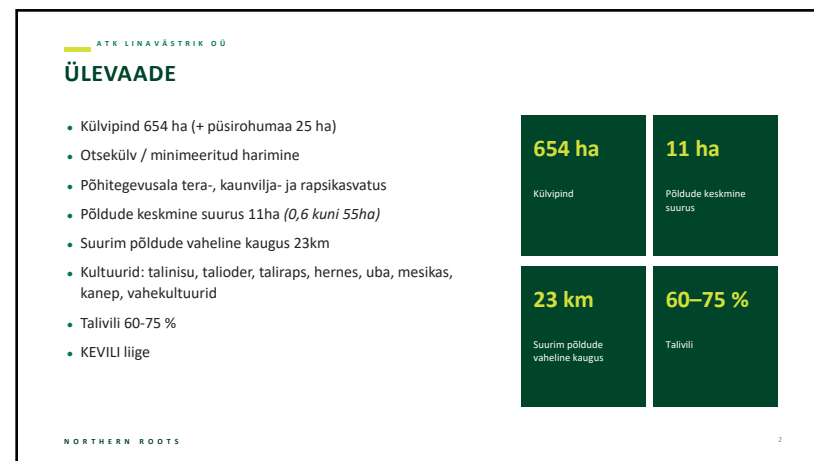




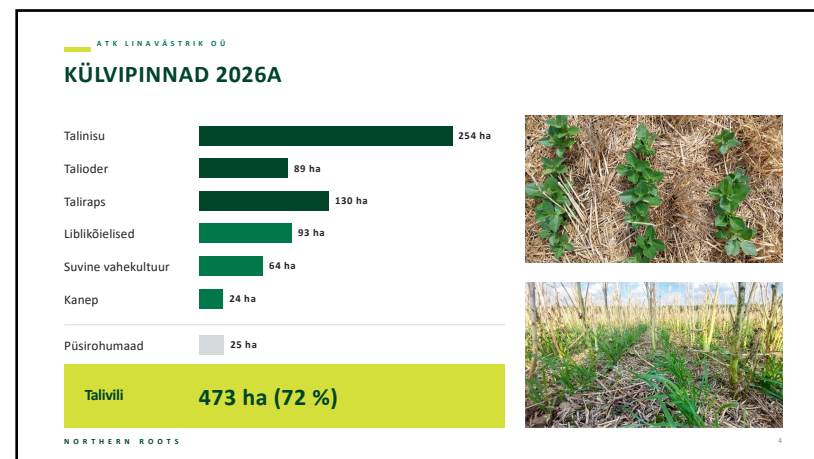
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ATK LINAVÄSTRIK OÜ

MIDA TEEME

Otsekülv Alates 2018 a Horsch Avatar 12 m	Vahekuu Kesaredis, keerispea, ristik, vikis, ...	 
Sortide segud (talnisu) Skagen, Informer, Dubaj	Suvised haljasväetised Suvine vahekuu sega Valge mesikas	

NORTHERN ROOTS

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ATK LINAVÄSTRIK OÜ

MIKS REGEN AGRI

- 1 Väetiste kasutamise efektiivsus
- 2 Saagikuse säilitamine
- 3 Mulla viljakuse parandamine
- 4 Hea võimalus oma põllul ära katsetada
- 5 Silmaringi laiendamine




NORTHERN ROOTS

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ATK LINAVÄSTRIK OÜ






NORTHERN ROOTS

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ATK LINAVÄSTRIK OÜ





NORTHERN ROOTS

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NR NORTHERN ROOTS
GROUNDED IN REGENERATION, ROOTED IN PROGRESS

Interreg Co-funded by the European Union
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ReGen AGRI

KÜTI FIELD TRIAL

KÜTI WINTER WHEAT TRIAL 2026/27: THE PLAN

Olivier de Schaetzen

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KÜTI TRIAL 2026/27

WHAT THE TRIAL ASKS

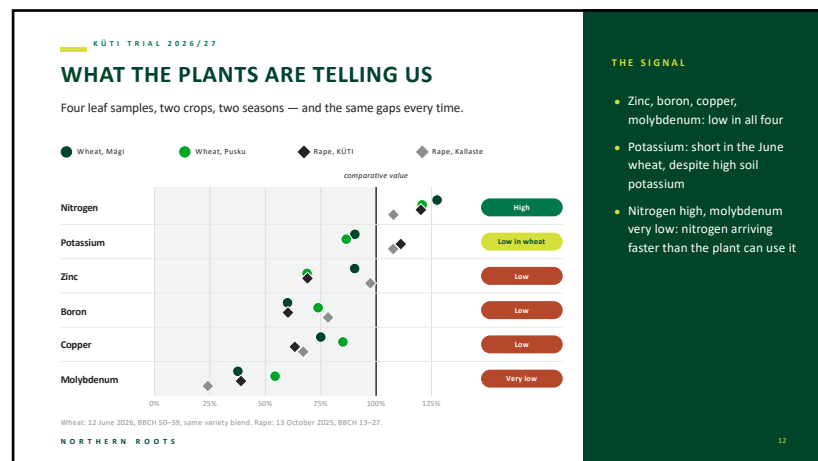
Four questions, straight from the farm's own goals.

- 1**
Can we hold yield on less fertiliser?
18–24% less nitrogen and 15–26% less phosphate in total, made to work harder.
- 2**
Does less fertiliser leak less?
Nitrogen, phosphorus and potassium measured below the root zone, all winter and season.
- 3**
Can we fix nutrient gaps in time?
Sap tests ahead of the key stages decide what goes in each foliar pass.
- 4**
Does the soil get more alive?
Biology, structure and carbon tracked at the same marked points.

● KÜTI, 51 ha: first wheat after oilseed rape ● Light soil: loamy sand and sandy loam ● Same blocks and points for three years

NORTHERN ROOTS

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KÜTI TRIAL 2026/27

WHAT THE NEW SOIL TEST CHANGES

The cations are balanced. The bottlenecks are uptake on a light soil, and a few trace elements.

Autumn 2026, 0–20 cm	Trial	Control	Reading
pH (KCl)	6.3	6.4	Good, well matched
Base saturation Ca / Mg / K, %	71 / 14 / 5.2	74 / 12 / 4.3	Balanced
Potassium (M3, mg/kg)	230	237	High
Phosphorus (M3, mg/kg)	77	87	Medium
Sulphur (M3, mg/kg)	24	23	Moderate
Zinc (M3, mg/kg)	13	9.3	High in soil, low in plant
Copper (M3, mg/kg)	1.9	2.1	Marginal
Molybdenum (available, mg/kg)	0.11	0.14	Low

The trial block starts weaker. 23% less carbon (1.7 vs 2.2%), 20% less CEC (11.3 vs 14.0) and 23% less calcium than the Control. Named now, so it isn't blamed on the programme at harvest.

NORTHERN ROOTS

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KÜTI TRIAL 2026/27

ONE FIELD, TWO BLOCKS

5 ha Programme next to 5 ha Control. The Control carries on as the farm does now.

When	Action	Control	Programme
Drilling	Seed	Standard dressing	Nutrient coating: P, Ca, Mg, Fe, Mn, Zn, B, Cu, Mo, Co, Ni
Drilling	Phosphate (MAP)	Farm rate	37.5% less
After drilling	Soil primer	—	Biological drench on stubble
Autumn	Nitrogen	Farm practice	None after the rape
4-leaf stage	Foliar feed	Farm standard	N, P, K, Mg, S + Mn, Zn, Cu, B, Mo
Late winter	Clover	—	Frost-sown under the wheat
Green-up	Granular / Foliar feed	N, Magnesium sulphate	N, P, K, Mg, S + Mn, Zn, Cu, B, Mo
Vegetative growth	Nitrogen (split)	Full rate	30% less, carbon-coated
Tillering, boot	Foliar feeds	Farm standard	Set by sap tests
Season total	N / P ₂ O ₅ , kg/ha	166 / 42	126–136 / 31–35

NORTHERN ROOTS

DESIGN

- Blocks side by side, matched on soil and pH
- If sap shows a need, magnesium or potassium sulphate goes on with the spring nitrogen
- The yield map does the statistics

Totals exclude any sap triggered top up; the Control's foliar programme is still to be added.

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KÜTI TRIAL 2026/27

HOW WE'LL KNOW

Measured at the same points, the same way, for three years.

- 1 Leaching** Resin bags below the root zone catch nitrogen, phosphorus and potassium on the move: autumn, winter and snowmelt, spring nitrogen, summer.
- 2 Sap tests** Taken 5–10 days before the tillering and boot sprays, so the result is back while the crop can still use it.
- 3 Optional add-on - Nitrogen-rate strips** 0 to 120% of each block's own nitrogen. Shows each system's response — and how much the soil supplies on its own.
- 4 Yield and quality** Yield map, hand-cut samples at the points, protein and grain nutrient content.
- 5 Soil life** CO₂ burst, aggregate stability, infiltration, worms; carbon again in year 3.

NORTHERN ROOTS

GROUND RULES

- One marked sampling point per block
- Control sampled the same day, same way
- Three years at the same points is the replication

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NR NORTHERN ROOTS
REGENERATIVE AGRICULTURE FORUM

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TÄNAN KUULAMAST!

Thank you

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