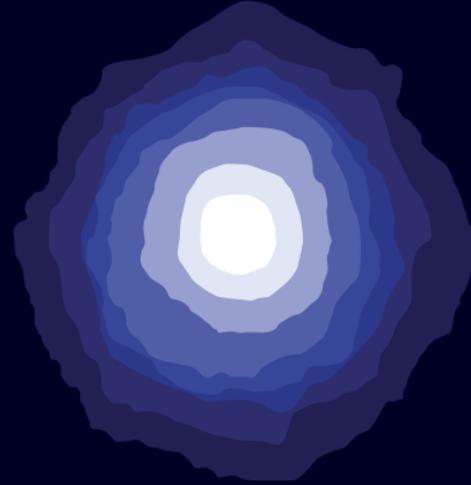


SIRIUS

MINERALS PLC



*THE FUTURE OF
FERTILIZER*

Tanzania Agronomy Update
December 2016

Important notices



BASIS CPD Points – see full slide decks for reference number

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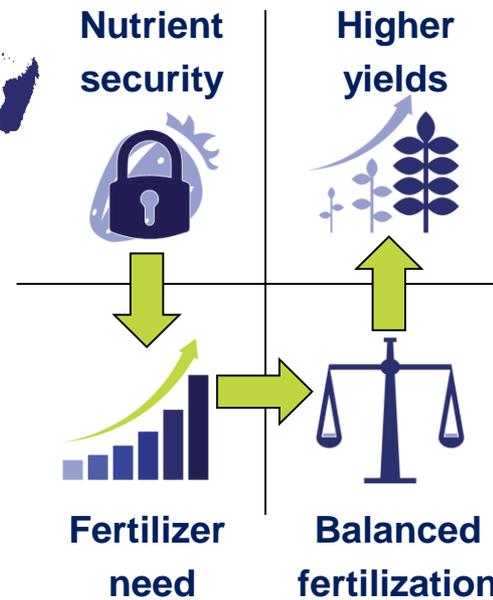
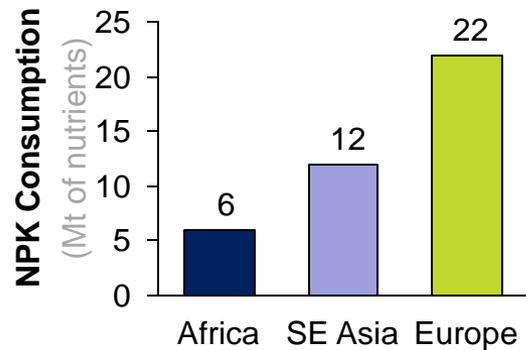
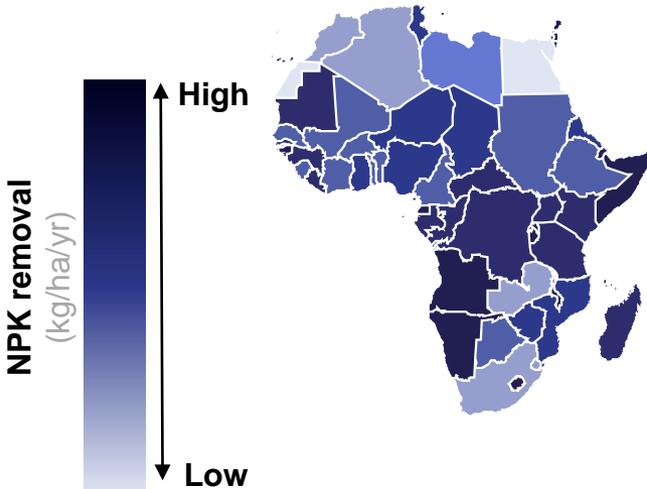
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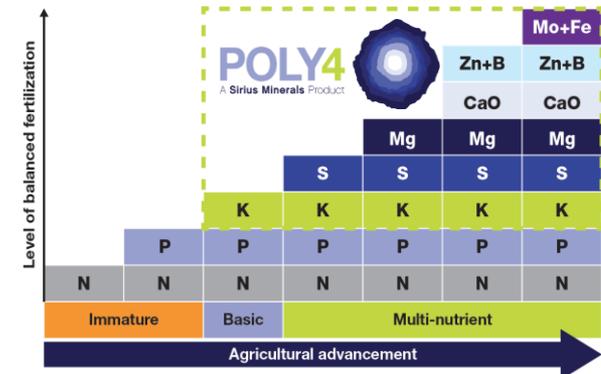
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African food security

Fertilizer consumption must increase to support Africa's food security



■ Farm yield (t/ha) ○ Yield Gap %
■ Additional potential yield

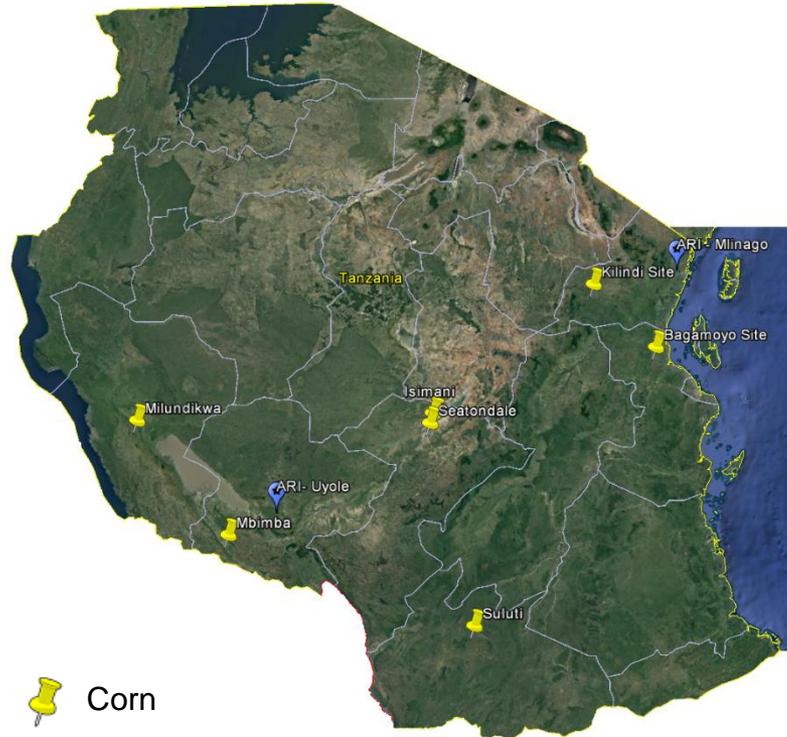


Soils must be replenished to maximise and maintain yield

Tanzania trial programme

Nationwide trial programme to assess POLY4 as an efficient fertilizer

Tanzania trial locations



 Corn

 Headquarters/Corn

Key comments

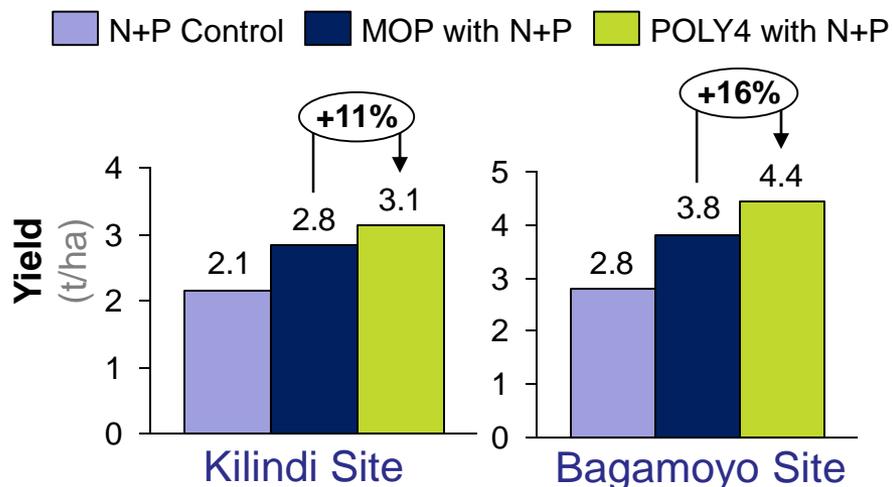
- Trial designed to comply with product registration protocols
- Tanzanian government requires trials across two different agro-ecological zones for two seasons in support of product registration
- Six corn trials were established within the Southern Highlands region with the Agriculture Research Institute - Uyoie
- Two corn trials were conducted with Mlingano Agriculture Research Institute

Sirius Minerals' extensive crop trial programme showcases POLY4 potential

Summary of north eastern corn trials

Preliminary data shows POLY4 improves corn yield and plant growth

POLY4 NPK performance and added value¹⁻³



Value beyond yield

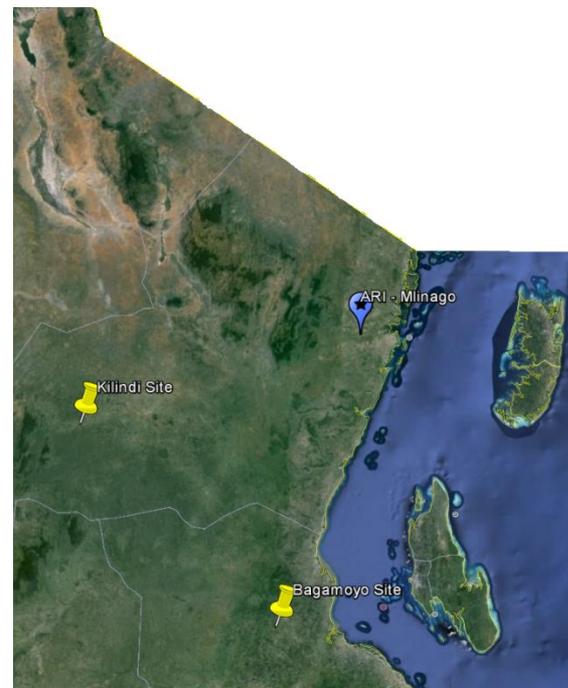


Average 16% improvement in plant height



Average 51% improved plant biomass

Trial locations



-  Trial Site
-  ARI trial site at headquarters

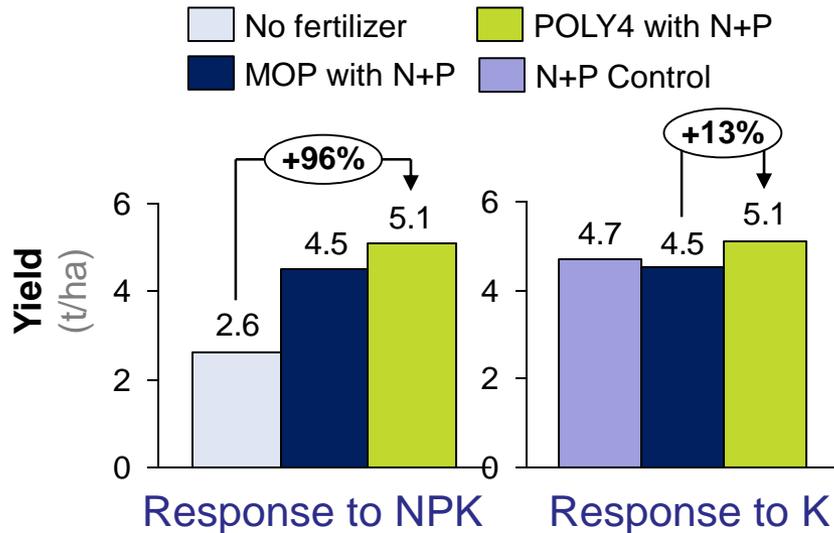
Notes: 1) GENSTAT means; 2) All plots at Kilindi were supplied with the recommended rate of 60 kg N/ha and 17 kg P₂O₅/ha from urea and DAP with 20 kg K₂O/ha supplied from MOP or POLY4; 3) All plots at Bagamoyo were supplied with the recommended rate of 45 kg N/ha and 10 kg P₂O₅/ha from urea and DAP with 23 kg K₂O/ha supplied from MOP or POLY4. Kilindi initial soil analysis pH 5.9, organic matter 0.94%, N 0.12%, P 1.78, K₂O 226 mg/kg, Mg 340 mg/kg, Ca 1422 mg/kg, EC 0.11 mS/cm. Bagamoyo initial soil analysis pH 6.0, organic matter 1.37%, N 0.13%, P 1.97 mg/kg, K₂O 62 mg/kg, Mg 138 mg/kg, Ca 304 mg/kg, EC 0.12 mS/cm. Sources: ARI-Mlingano (2015)

Summary of the Southern Highlands corn trials



Six sites show POLY4 improves corn yield and plant growth

POLY4 NPK performance and added value¹⁻³



Value beyond yield

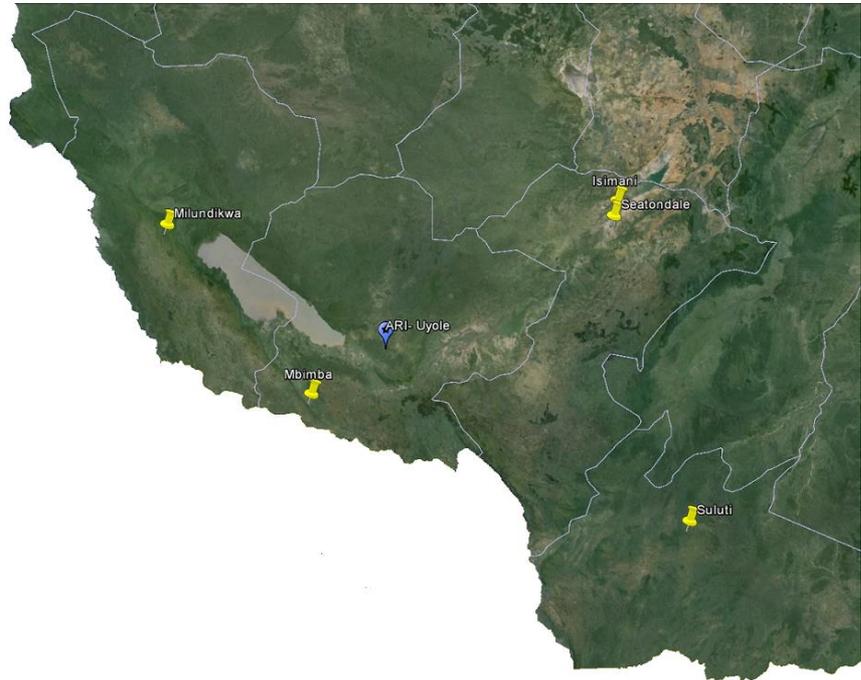


POLY4 improved corn stover by up to 10%



POLY4 improved crop vigour by up to 35%

Trial locations



Trial Site



ARI trial site at headquarters

Notes: 1) GENSTAT means; 2) The recommended rate of 120 kg N/ha and 30 kg P₂O₅/ha from urea and DAP with 20 kg K₂O/ha supplied from MOP or POLY4 were supplied to all plots except "No Fertilizer" plots; 3) ARI Uyole site excluded due to initial high soil K. Initial soil data for each site is in the full presentation

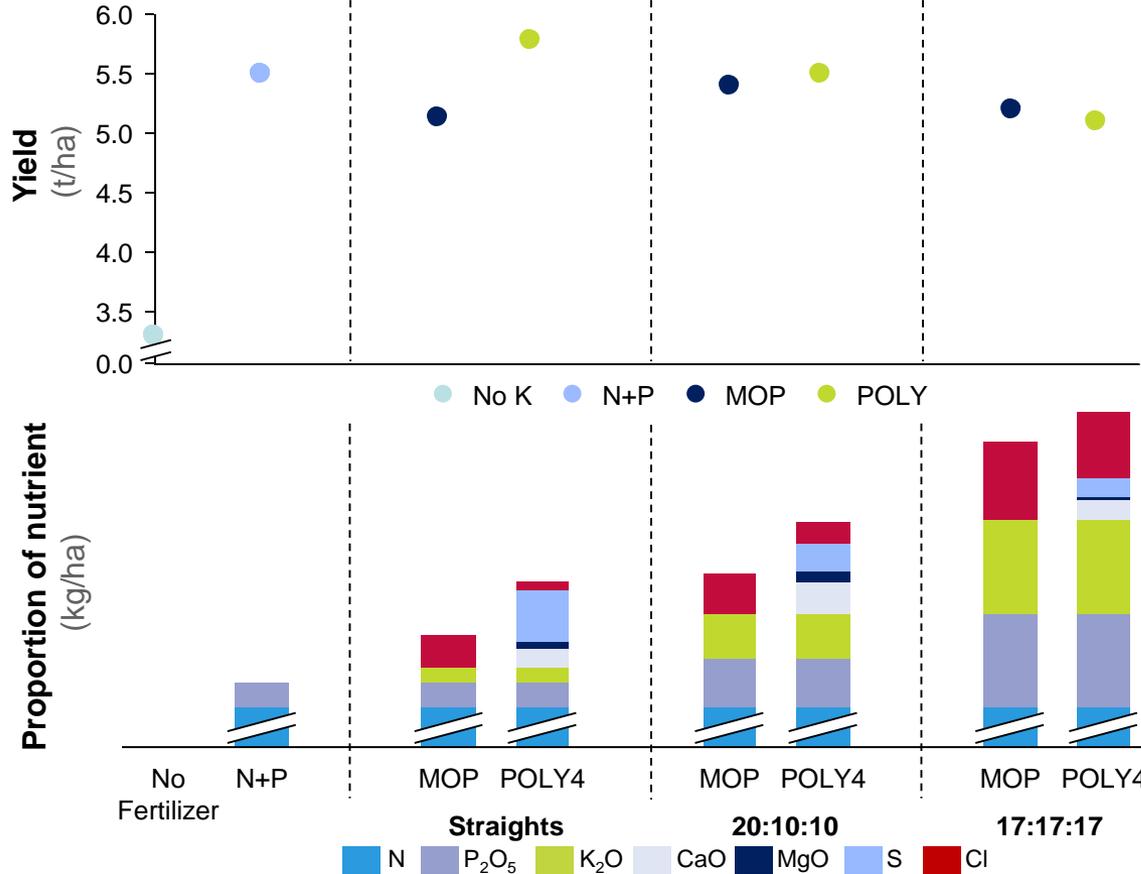
Source: Agricultural Research Institute – Uyole (2015)

Corn fertilizer application

POLY4 delivers improved yield at low application rates



Yield response to nutrients applied^{1,2}

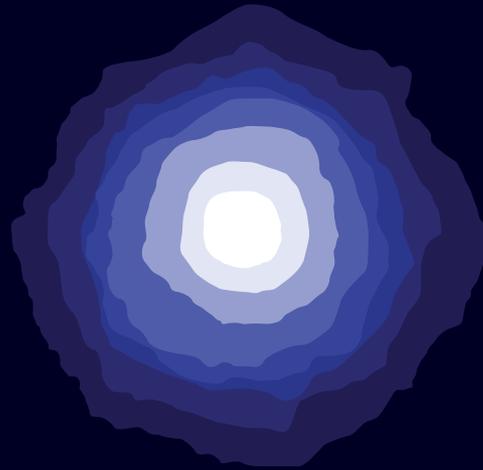


Summary comments

- Potassium is not currently recommended in the Southern Highland region of Tanzania for corn
- Soil nutrient mining is not sustainable
- Without fertilizer, nutrient depletion threatens food security and widens the yield gap
- 20:10:10 and 17:17:17 blends prove unsuitable in these regions due to increasing chloride content that hinders crop performance
- POLY4 offers a route to replace potassium and elevate yield through straight application

POLY4 improves yields above current recommendations of N and P

Notes: 1) Extrapolation from all trial straight and blend results present; 2) P₂O₅ application increased with K₂O application; 3) Standard practice is defined as fertilizer plan that contains potassium from MOP; 4) POLY4 practice is defined as a fertilizer plan that contains potassium from POLY4. Sources: Agricultural Research Institute – Uyole (2015), Sirius Minerals



Thank you