

TAAT e-catalog for private sector

Golden maize varieties (High provitamin A)

Nutrition-boosting, income-enhancing maize.

These maize varieties have distinctive orange kernels, a result of high betacarotene content. They are developed through advanced breeding techniques, combining naturally provitamin A enriched lines from Central and South America with elite land races and hybrid lines with improved agronomic traits.





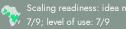
African Agricultural **Technologies Foundation** (AATF)

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This technology is **TAAT1** validated.

7.7



Technology from

ProPAS



0.8—1.2 usp

10-20 %

Revenue increased

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Open source / open access

Commodities

Maize

Sustainable Development Goals





Problem

- · Significant population, including children and adults, faces preventable blindness and weakened immune systems due to insufficient vitamin A
- Increased susceptibility to diseases such as measles, diarrhea, and respiratory infections.
- · Common maize varieties lack vital vitamins and minerals, contributing to widespread malnutrition.
- 50% of children aged 0.5 to 5 years are at risk of vitamin A deficiency, leading to severe health complications and diminished quality of life

Solution

- Provitamin A enriched maize varieties provide a stable source of essential nutrients, combating deficiencies.
- · Preservation of beta-carotene ensures a consistent supply of vitamin A.
- Genomic modification maintains nutrient content without compromising yield.
- · Cost-effective approach for regions heavily reliant
- Tailored to meet nutritional needs, providing a significant portion of daily vitamin A requirement.
- · Accessible and adaptable for diverse farming systems.

Categories

Production, Improved varieties Yield improvement, Quality improvement

Best used with

- Drought Tolerant Maize Varieties and Water Efficient Maize Varieties >
- Pre-plant blended fertilizers and nitrogen topdressing for maize >
- · Maize-legume rotation and intercropping >

Key points to design your business plan

This technology is beneficial for three main groups: manufacturers, resellers, and end users (farmers).

Golden Maize technology provides a cost-effective solution, addressing vitamin A deficiency and empowering diverse farming communities globally. Selling the product enhances user engagement, contributing to overall health and wellbeing. Utilizing Provitamin A enriched maize ensures a sustainable solution, combating vitamin A deficiency and empowering farming communities for enhanced health and wellbeing.

■ Tested & adopted Adopted Tested

Where it can be used

Tested/adopted in

This technology can be used in the colored agro-ecological zones.



Gender assessment



Climate impact



