Technology from

ProPAS

# HIB varieties: Biofortified Beans for Improved Nutrition

Fueling Health with Iron-Rich Beans

"Biofortified Beans for Improved Nutrition" technology develops high-iron bean varieties via biofortification to combat deficiencies in Sub-Saharan Africa. With 31 released varieties, it enhances regional food security and nutrition.

This technology is TAAT1 validated.

## **IIP** Open source / open access

Problem

- · Iron and zinc deficiencies leading to: Anemia, Impaired motor and cognitive development, Increased risk of maternal death and premature births, Low birth weight
- · Weakened immune systems
- · Increased susceptibility to infections
- Stunted growth

## Solution

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- Development of high-iron bean varieties through biofortification.
- Crossbreeding local elite lines with American bean varieties naturally rich in iron.

Scaling readiness: idea maturity: 8/9; level of use: 7/9

- Resulting in High-Iron Beans (HIB) with traits including: High productivity, Drought and disease tolerance, Preferred culinary characteristics, Quick cooking.
- Release of 31 HIB varieties in key production areas across Sub-Saharan Africa.
- · Enhanced food security and nutrition in the region.

# Key points to design your business plan

For Manufacturer:

- · Stock up on Foundation or Registered Seed, no license needed.
- Target customers include wholesale distributors, government agencies, NGOs.
- · Strong partnerships with distributors are vital.

### For Users:

- · Available in various countries, consider import duties.
- Partner with HIB sellers, estimate cost structure and potential profits.

Gender assessment 84 Climate impact 87



#### **HIB** varieties

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