



TARGET COUNTRIES

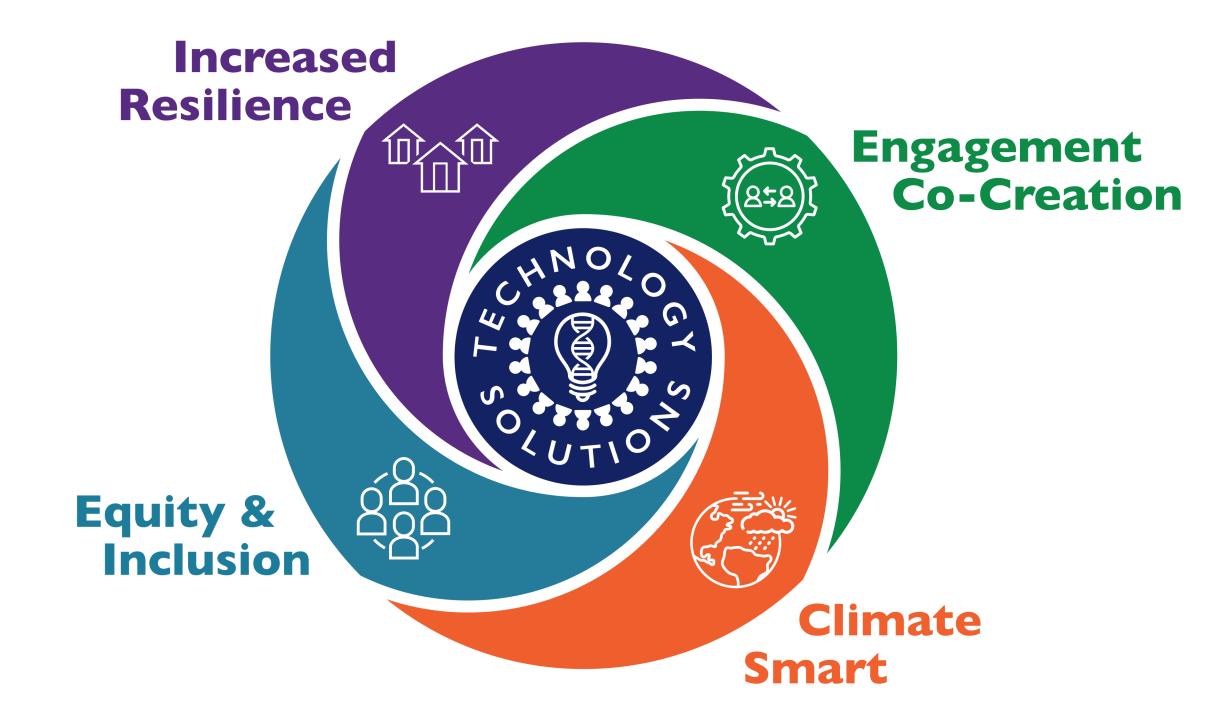
SMIL Annual Review Meeting

March 21 - 25, 2022



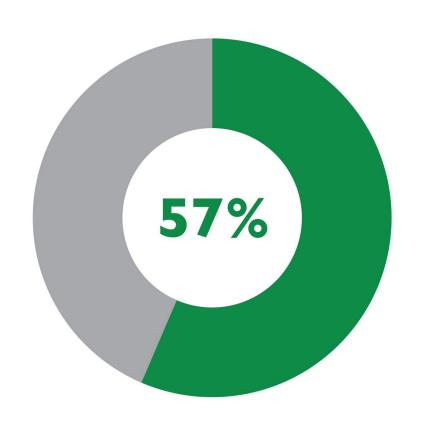


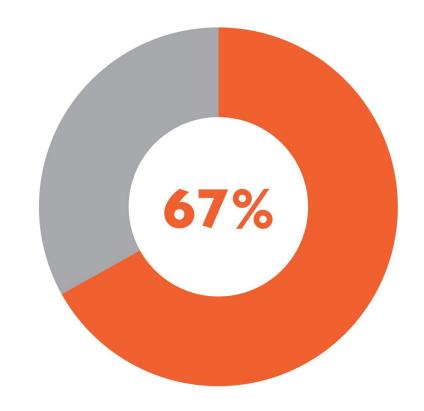






FUNDING



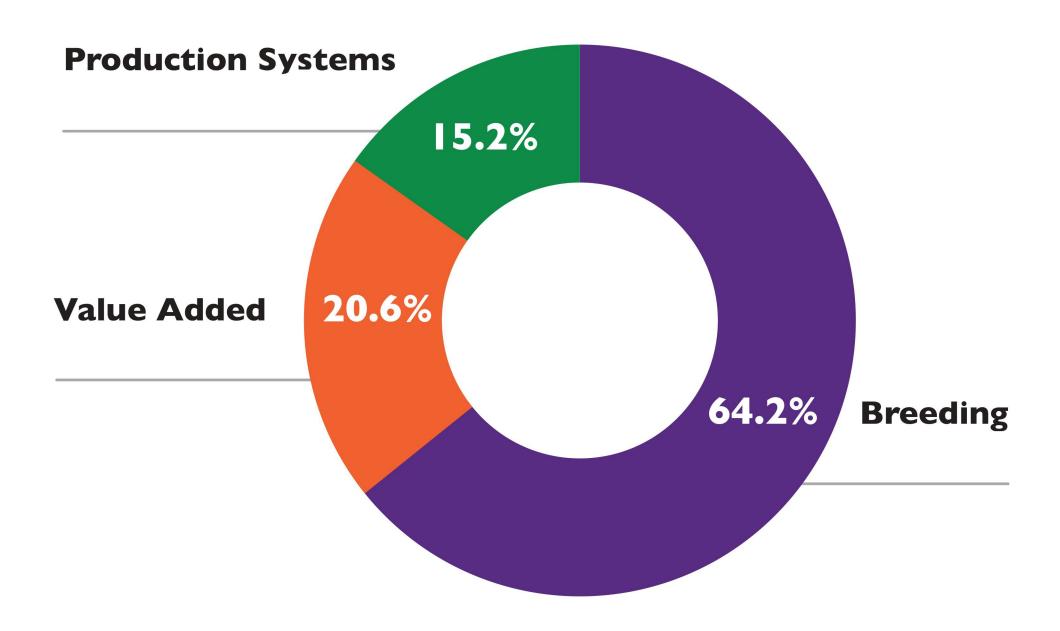


57% of research funds were 67% of the SMIL total funds directly transferred to our in-country national partners

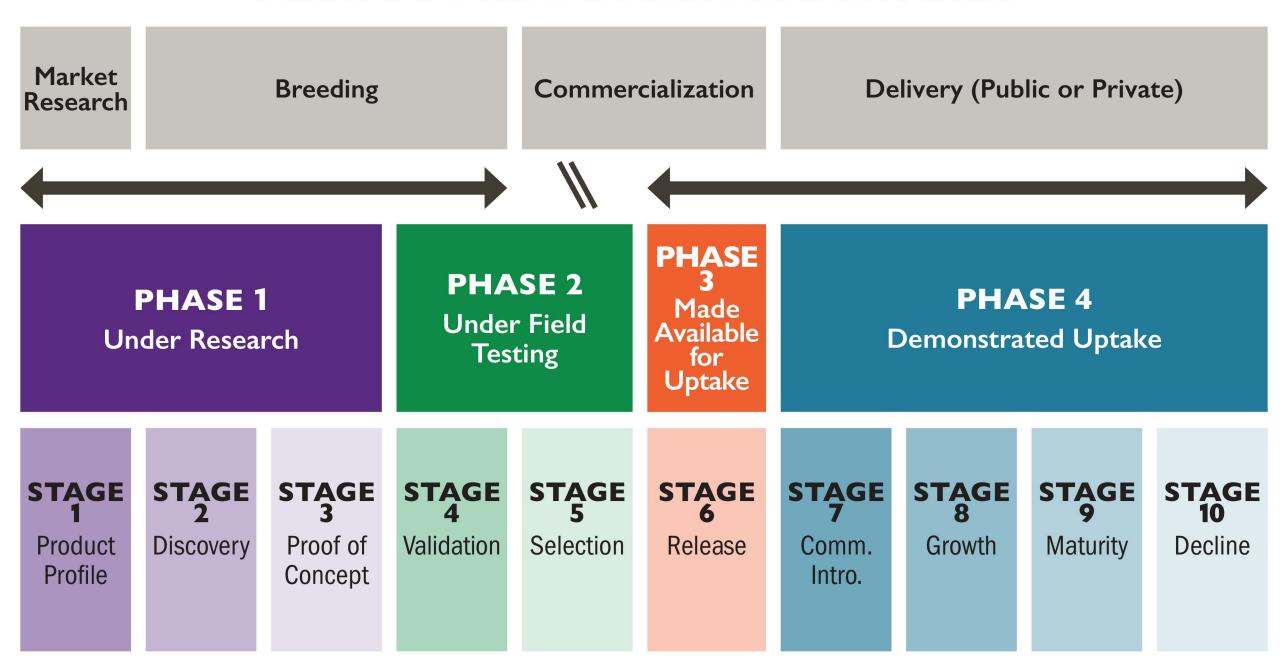
are allocated to Research



RESEARCH BUDGET - AREA OF INQUIRY



PRODUCT LIFE CYCLE FRAMEWORK





SEED PRODUCT PIPELINE

PHASE I Under Research

PHASE 2 Under Field Testing

PHASE 3 Made Available for PHASE 4
Demonstrated Uptake

END-USER CONTINUOUS FEEDBACK

- **GA Breeding Platforms**
- · Systems / Processes
- Product Profiles 5 10 Yr
- Gene Discovery & Marker Technology
- · Heat & Drought Tolerance
- · Stay Green
- Anthracnose Resistance
- · Striga Resistance
- SCA Resistance
- Midge Resistance
- Protein Digestibility
- **6** Forage Quality
- · Dedicated & M.Purpose
- Food Product
- Designer Starches & Protein Dig
- Milling & Processing

- **ligh Yield / Grain Mold Resistance**
- · ISRA-S-692-400,300-1, 300-2
- ISRA-S-692-269, 270-2, 26, 319
- **High Protein Digestibility**
- · ISRA-S-745-1, 2, 8, 38, 40, 48
- ISRA-S-745-49, 99, 113, 138
- H. Yield Multip. SCA Resistant Haiti
- Striga / Drought Resistance
- Mota Maradi x SRN39
- · MDK x (SRN39), (L153-5)
- Forage Quality
- bmr6 x (Macia x MR732)
- · bmr6 x (Macia x Sepon82), (Macia x Macia)
- bmr6 x (CE-151-262-A1 x CE-151-262-A1)
- bmr6 x (CSM x Wassa)
- El mota x Tx630 bmr12 x El mota
- · Sepon82 x Redlan bmr6 x Sepon82
- Sepon82 x Wheatland bmr12 x Sepon82
- **K-6090, 7148, 7150, 7410, 7411, 9187, 19007, 19026, 19020, 19021 (hybrids)**
- **?** Tiouma X Souna3
- SOSAT-C88 x ICRITABI
- · SOSAT-C88 x EX Borno
- · SOSAT-C88 x Tiouma

- **(b)** ESH 4 & 5 (hybrid)
- Guta
- Salam (OPV-LM)
- **TAAW** (hybrid)

- SCA Resistant
 Germplasm
 RTx3410/3428
- Merera
- Payenne
- Golobé
- Faourou
- Darou
- Nganda
- Mguinthe
- SL-28, 169, 423, Thialack 2
- Chackti, GB 8735, Gawane









TRANSFER & COMMERCIALIZATION

PHASE 1

Under Research

PHASE 2

Under Field Testing

PHASE 3

Made Available for Uptake

PHASE 4

Demonstrated Uptake

END-USER CONTINUOUS FEEDBACK

Private Seed System

Private Seed Companies
Engagement PPB
"First Mile & Last Mile"
Field Plot & Farmer Showcasing
Technical Backstopping

Public Seed System

National Seed Enterprise Regional Seed Enterprise

Community-Based Seed System

Farmer Association Networks
Engagement PPB
"First Mile & Last Mile"
Skills Transfer Seed
Multiplication and Maintenance



PRODUCTION SYSTEMS

PHASE

Under

Research

Under Field Testing

PHASE

PHASE 3

Made Available for Uptake

PHASE 4

Demonstrated Uptake

END-USER CONTINUOUS FEEDBACK



Planting Technology

- Seed Ball Local Production
- Dry Seeding / Planting Technology



Delivery Science

- · Women's Empowerment
- Large Farmer to Farmer (1,000's) Technology Transfer
- Sociological Factors
- Transfer Methodology & Principles
- Training & No. Repeat Visits
- Other NGO / Program Based Replication Potentials



Dedicated Forage

- Melkam Variety x High+ Planting Density
- Manual and Mechanical Chopping



Planting Technology

- Seed Ball Local Household Level Production
- · "Dry Seeding" / Planting Technology



Crop Protection - Millet Head Miner

- · Integrated Pest Management Approach
- Household Rearing and Strategic Release (Naturally Occurring Predatory Wasps)







FOOD PRODUCTS / TECHNOLOGIES PIPELINE

PHASE 1 **Under Research**

PHASE 2 **Under Field Testing**

PHASE 3

Made Available for Uptake

PHASE 4 **Demonstrated Uptake**

END-USER CONTINUOUS FEEDBACK

- **10** Nutrition Density
- **1** Protein and **Starch Availability**
- **Digestibility**
- **1** Taste / Texture / Color
- **1** Local Natural **Fortificants**
- **Milling Properties**
- **Storage**

- Farine / Katanaal
- **Unique Sorghum HD Traits / Market JABOOT**
- Milling Technologies x Sorghum
- **(1)** Instant Millet Dégué
- **Millet Ice Cream**

- Doo JABOOT
- **Farilac Farine Infantile**
- **SO'FUNNY céréales instantanées**
- **Instant Millet (Fura, Couscous, Tuwo)**
- **Co-Extruded Millet-Peanut (Lackiri)**
- **Co-Extruded Sorghum-Fortified Flour**
- **Roasted Sorghum-Fortified Flour**
- **Teff** HPD Sorghum / Teff Economic Injera
- Food Product Evaluation & Sensory Laboratory

- Jaboot Yogurt (Thiakri)
- Jaboot Cereal (Thiere, Arraw, Thiakry)
- @ Hub/Spoke: Processing, Marketing, Business Plan, Accounting, Technical Backstopping, Social Innovation



COUNTRY PRESENTATIONS

Ethiopia

Niger

Senegal

USAID Reactions & Recommendations

Q&A Session