



# MARKET LED BEAN BREEDING STRATEGY

**ECABREN**

**Breeders Group Meeting,**

**Malawi 16 – 21 October, 2011**

**By Musoni**



# Major focus

- Major market classes and countries where important identified
- Special market niches bean types (climbing, snaps and runner beans) listed
- Lead countries selected
- Major production biotic and abiotic constraints for each market class listed
- Cross cutting production constraints such as drought and low soil fertility identified
- Regional nurseries to be constituted and their sources were agreed

# Market class/constraint/country

Red-mottled	ALS, Anth/RR, low P, BSM, whiteflies, WB,	KE, UG, DRC, Tz, Su, MDG, BU, ET, RW
Large Red Kidneys	ALS, Anth, low P, BSM, RR, CBB, HB, HEAT, DRO, Rust,	KE, RW Tzi, MD, ET, CAM, BU, UG, DRC,
Small reds	ALS, Anth, /CBB, low P, BSM,RR, Rust, drought, BCMV/BCMNV, whiteflies	KE ET, TZ, RW, DR
Yellows	ALS, Anth/CBB, RR ,low P, drought, LSF	BU, DRC, RW, KE, MD, Su, UG
Brown	ALS, Anth/CBB, RR ,low P, drought, LSF and rust	DRC, BU, KE, UG
Tans/Khaki	ALS, Anth/CBB, RR ,low P, drought, LSF and rust	TZ, UG, RW,
Pintos	ALS,CBB/rust, low P, Anth, Foliage beetles, RR,	KE, MD, UG

# Market class/constraint/country

Sugars	ALS,CBB/rust, low P, Anth, Foliage beetles, RR,	<b>UG</b> , <b>ET</b> , DRC, KE, RW, BU
Purples / Mwezimoja	??	<b>TZ</b> , <b>KE</b> , MD
Cariocas	ALS,CBB/rust, low P, Anth, Foliage beetles, RR,	<b>KE</b> , <b>TZ</b> , DRC, MD
Small white (Navy)	Rust, ALS, CBB,BSM, bruchids,	<b>ET</b> , <b>KE</b> , DRC, RW,, MD
Large white	ALS, Anth, low P ,	<b>MD</b> , <b>ET</b> , DRC, RW, CAM
Black	??	<b>DRC</b> , <b>UG</b> , KE, TZ, SU, MD

# SPECIAL MARKET NICHEs

<b>Climbing beans</b>	<b>BCMV, Anth, ALS, RR,HB, ASCO</b>	<b>RW, BU, UG, DRC, ET, KE, TZ</b>
<b>Snap beans (bush)</b>	<b>Rust, RR, Anth, ALS, insects (Thrips)</b>	<b>KE, RW, ET, DRC, UG, MD, BU, TZ</b>
<b>Snap bean (climbers)</b>	<b>Rust, RR, ALS, Anth, insect (Thrios)</b>	<b>RW, KE, DRC, UG, TZ, BU</b>
<b>Runner beans</b>	<b>??</b>	<b>KE, MD, TZ, DRC, ET</b>

# CROSS CUTTING CONSTRAINTS AND TRAITS

<b>Constraint / trait</b>	<b>Country</b>	<b>Lead and sites</b>
Drought	All	KE, TZ, ET, UG
Insect pests	All	UG, KE, BU
ISFM	All	DRC, RW, ET- Haramaya
Nutrition	All	RW, DRC, KE

# Germplasm nurseries

# Approach

- Project approach where leaders develop project:
  - ✓ improves budget allocations
  - ✓ Ensures accountability
  - ✓ Good reporting
- Regional nurseries (
  - Take stock of elite materials to constitute a nursery (breeders and NCs)
  
  - Distribute to CIAT Kampala: (CM, MA) in Nov – Feb (MSTAs) for increase and distribution to NARS



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