Working with the Private Sector

Reaching Unreached Farmers Through Collaboration with Small and Medium Sized Seed Companies:

What Are We Doing?

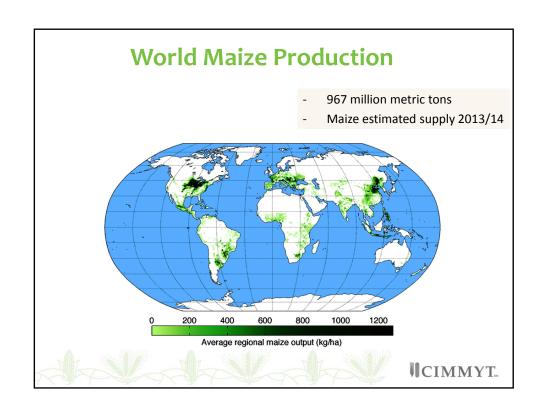
Arturo Silva H.
IMIC Lead LatAm

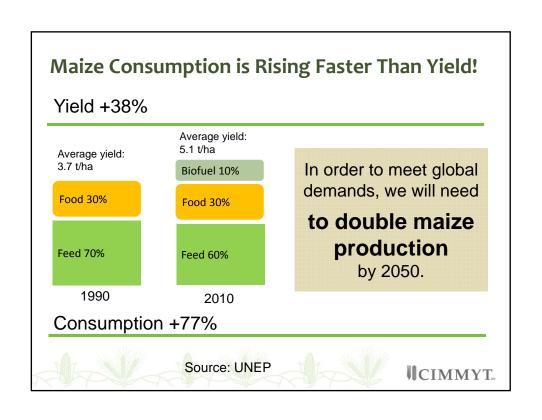
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Video: Maria Esther Rivas from Bidasem Seed Company

http://www.youtube.com/watch?v=TZhlhY3SzXE









Maize in the Developing World (1/2)

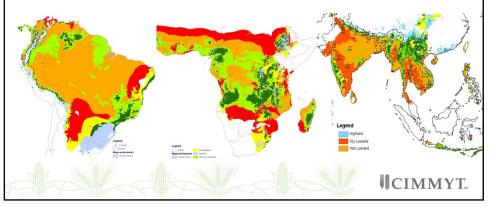


- **170** countries globally growing maize; **50%** of the area is in the developing world
- Preferred staple food for 900 million poor people (< 2 USD per day)
- Provides 15-56% of total calorie intake in Sub-Saharan Africa, Latin America and Asia



Maize in the Developing World (2/2)

- Different types of maize: tropical maize ≠ temperate maize
- Multinationals focus on high potential (dark green) or irrigated markets, PROVIDED they are commercially connected (eg not Angola)
- Tropical areas receive **less than 5-7%** of the private R&D investment in the developed/temperate world.



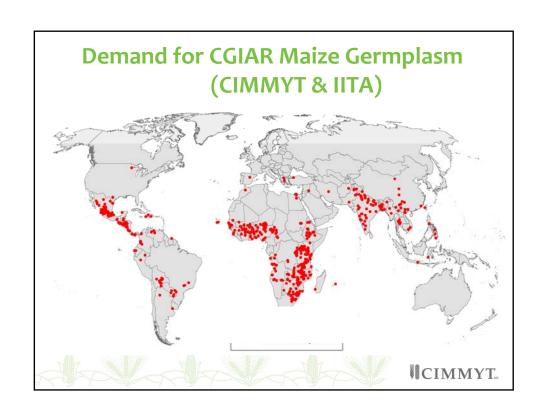


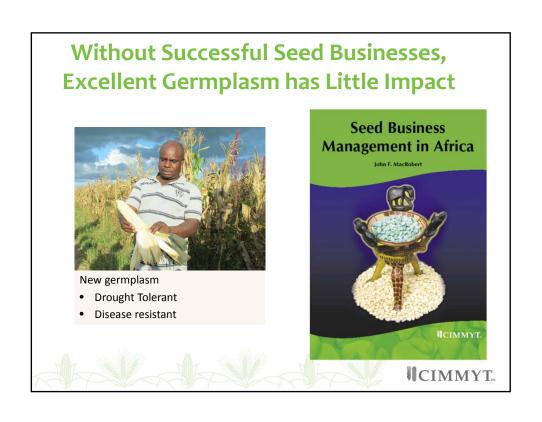


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- + Ecologies are diverse
- + Diverse germplasm needs
- + Smaller markets
- + Difficult traits (drought, heat, waterlogging, certain diseases)
- Comparative advantage of smaller seed companies with diverse products







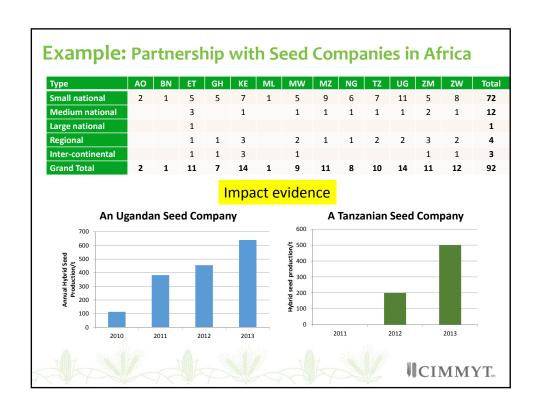
Time to the Market / Time to Impact

- More rapid variety registration
- More rapid seed scale-up
- Wider scope = more farmers



The sooner the farmers have access to improved varieties, the greater their opportunity to increase productivity.







Improved Maize Seed to the Market Our Model for Partnership with Seed Companies

Support Services	NARS	Multinati onal	Regional	Large Nationals	Medium Nationals	Small Nationals
Breeding populations	Yes	Yes	Yes	Yes	Yes	Yes
Varieties for testing	Yes	Yes	Yes	Yes	Yes	Yes
Variety Registration	Yes	No	No	Yes	Yes	Yes
Breeders' Seed	Yes	Yes	Yes	Yes	Yes	Yes
Pre-basic Seed	Yes	No	No	No	Yes	Yes
Basic Seed	No	No	No	No	No	Yes
Certified Seed	No	No	No	No	No	No
Demonstrations	Yes	No	No	No	Yes	Yes
Field Days	Yes	No	No	No	Yes	Yes
Capacity Building	Yes	Yes	Yes	Yes	Yes	Yes

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Partnerships with Seed Companies in Asia

- 35 seed companies as partners
- Client-oriented product development
- Collaborative testing
- Capacity building
- CGIAR/NARS alliance = research department for SMEs that reach many diverse markets not targeted by multilaterals

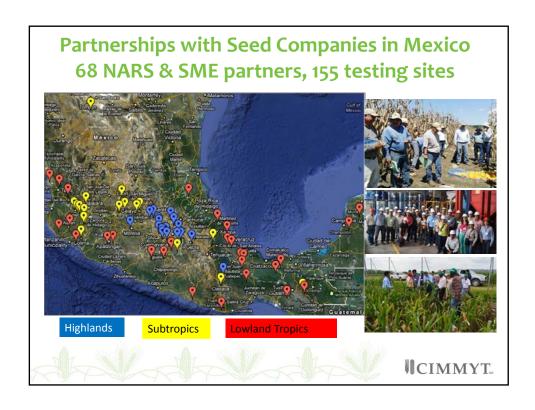


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Community Based Seed Production in Micro-Environments... Nepal



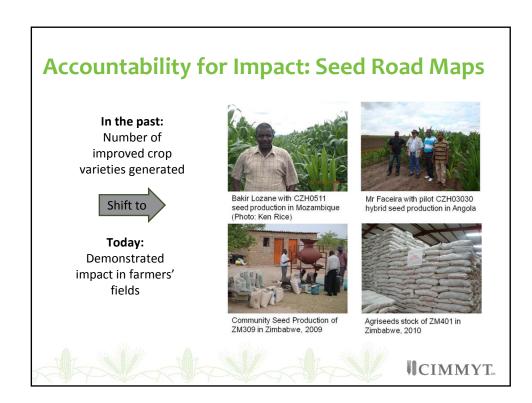
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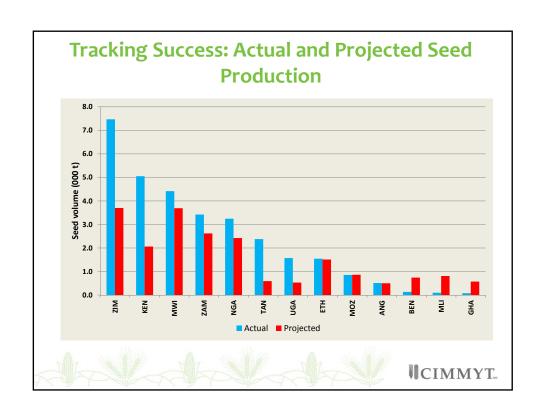
Why Work with so Many Seed Companies?

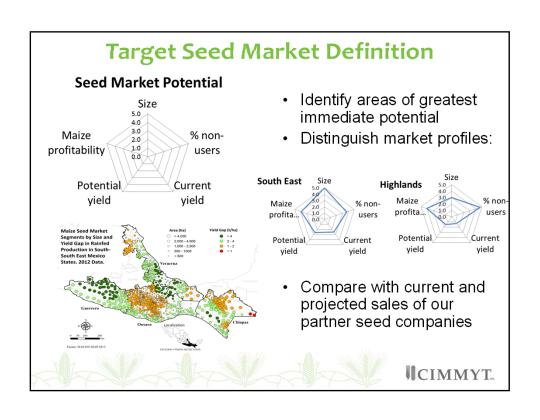
- Competition spurs faster delivery
- Diverse products for diverse markets
- Some seed companies will not be able to successfully grow; others will
 - -50 tons ... 30 tons ... 40 tons
 - 50 ton ... 100 tons ... 200 tons ... 500 tons

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Company > Cour	Zimbabwe				
Indicators	National baseline and projections				
Seed market growth rate without DTMA	1.20%				
Current commercial seed sales	26				
Total seed planted	40.9				
Seed Volumes	2012	2013	2014	2015	2016
Seed market w/o DTMA	26.3	26.6	26.9	27.3	27.6
Replacement w/ new DT	14%	20%	25%	30%	40%
DT replacing existing var.	3.6	5.3	6.7	8.2	11
Purchase rate of new DT	1.00%	1.50%	2.00%	2.50%	3.00%
Additional new sales of new DT	0.15	0.21	0.28	0.34	0.4
Total DT Variety seed market	3.7	5.54	7.02	8.52	11.44
Total seed quantity	26.46	26.84	27.23	27.61	28
Commercial seed sales (BAU)	64%	65%	66%	67%	67%
Commercial seed sales (additional DT market)	65%	66%	67%	68%	68%
Projected share new additional DT in total DT seed volume	4%	4%	4%	4%	3%
Projected market share DT in overall seed market	14%	21%	26%	31%	41%

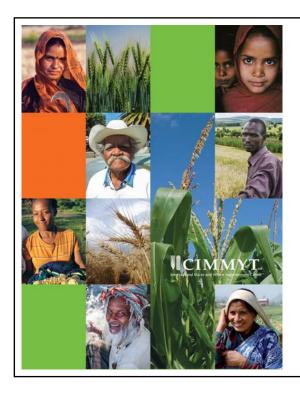




Take Home Messages

- Tropical maize environments are diverse; many farmers have no access to improved seed
- Alliance of NARS/CGIAR/SME has become successful in not only producing excellent varieties but also ensuring that they get to farmers.





Thank you for your interest!