

THANK YOU

Dr. Jeffery Wolt

Ms. Adelaida Harries

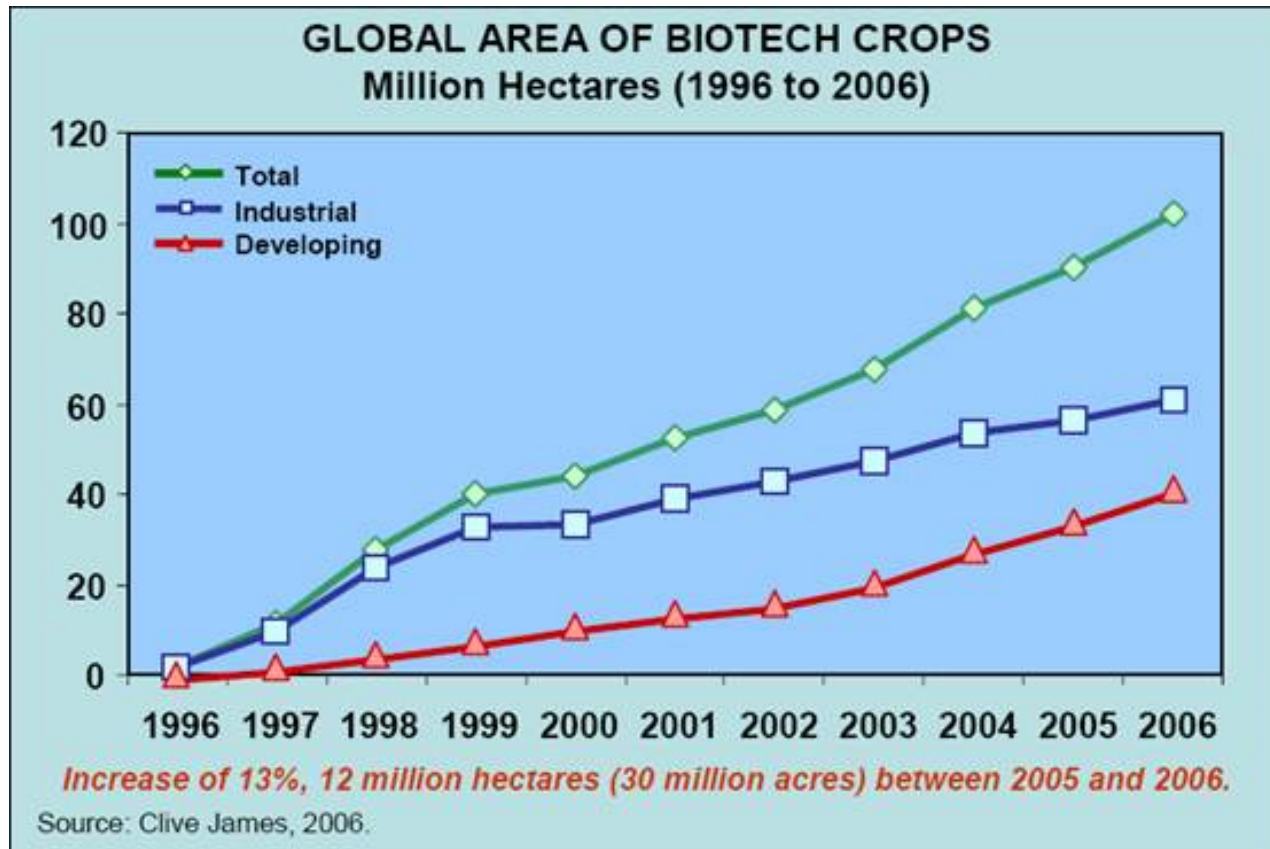
Ms. Trisha Ritland

Iowa State University-BIGMAP

**April 2007,
Ames, Iowa**

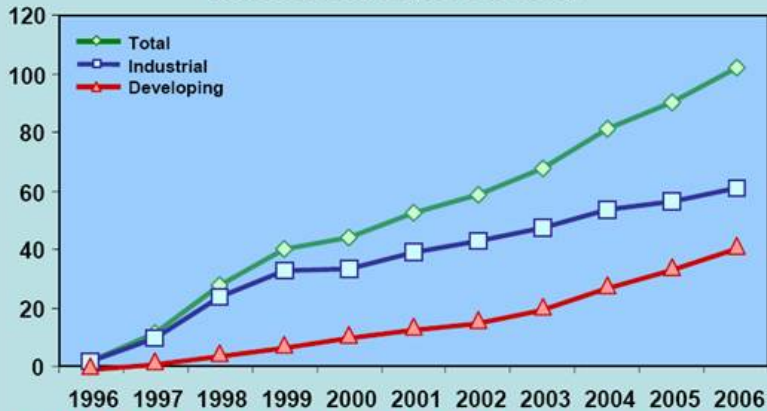


A Familiar Site



The Familiar Ones

GLOBAL AREA OF BIOTECH CROPS
Million Hectares (1996 to 2006)



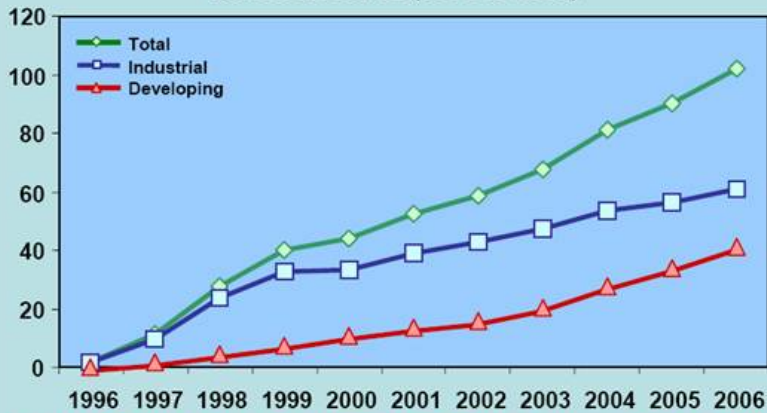
Increase of 13%, 12 million hectares (30 million acres) between 2005 and 2006.

Source: Clive James, 2006.

USA	55 (million hectares;
Argentina	18
Brazil	12
Canada	6
India	4
Paraguay	2
South Africa	1

The Familiar Ones

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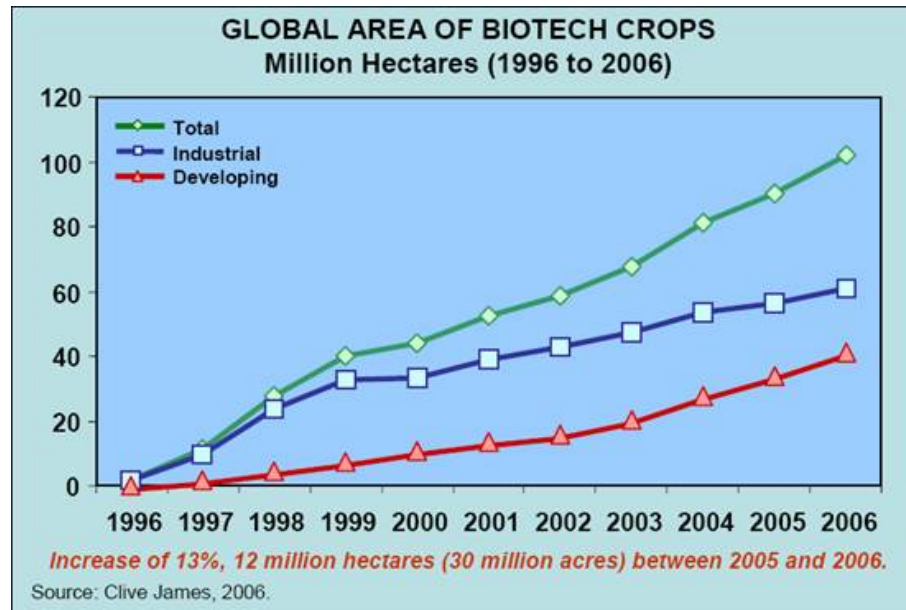
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A Familiar Site: An Impressive Record in Spite of a Few Fumbles



Yet the Impressive Record Can
Continue!

Yet the Impressive Record Can Continue!

Will Require:

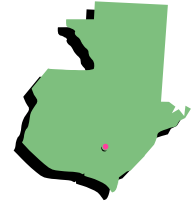
Other Crops (the technology is not a determinant)

Regulatory YIMBYs (political will is a determinant)

Mutual Recognition of Food Safety Assessment Criteria



Case: Guatemala

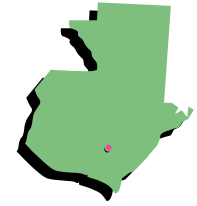


Popular Fresh Fruit



Endemic Viruses
No resistant varieties

Case: Guatemala

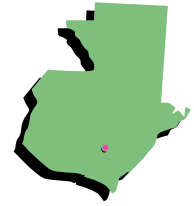


2007: Only in
Greenhouse



200?: Field Trials

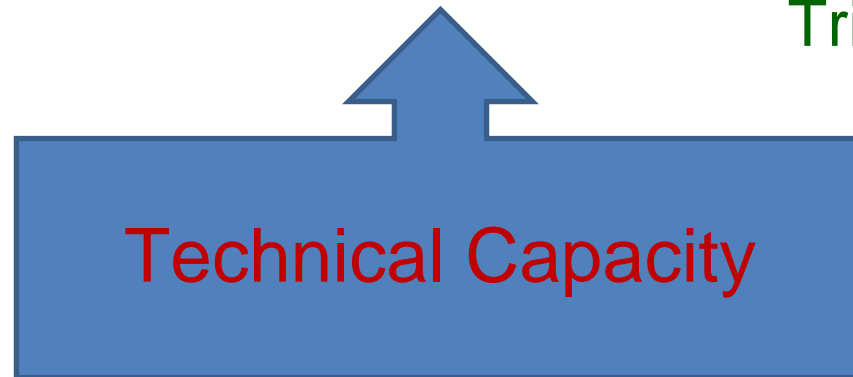
Case: Guatemala



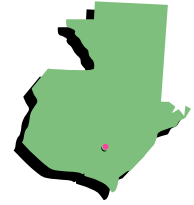
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200?: Field Trials



Case: Guatemala



What?	Sciences of Risk Assessment
When?	As Needed
Where?	In Country
Who?	Agencies and Academia
Why?	Promotion of Science



Technical Capacity

What?

Sciences of Risk Assessment

Botany, Genetics, Plant Breeding

Entomology

Phytopathology

Seed Sciences, Agronomy

Food & Health Safety

Who?

Agencies and Academia

Argentina

Canada

Chile

Colombia

Mexico

USA

Land Grant Universities: Iowa State University

Technical Capacity

Who [Best]?

Agencies and Academia

Land Grant Universities: Iowa State University



Credence Campus:

Academic (absence of special interest group)

Biotechnology Developers yet impartial (organic, conventional, biotechnology)

Science-based (avoid emotional, trade, economic, social interests)

Demonstrated ability to meet utilitarian needs

Know how to teach

Greater Global Acceptance of Ag-Biotechnology Will Likely Take Place When New GM Crops Are Approved, Grown, and Consumed By the Not Usuals

Think Local -- Act Local -- Go Regional

Think Local: Biotechnology Used to Solve Local Problems

Act Local: Use National Systems to Evaluate Biotechnology

Go Regional: Negotiate Food and Health Safety

Think Local -- Act Local -- Go Regional

- Think Local: Biotechnology Used to Solve Local Problems
- Act Local: Use National Systems to Evaluate Products of Biotechnology
- Go Regional: Negotiate Food and Health Safety

Going Regional: Will likely be complex. Perhaps the toughest phase
May be simplified by going bilateral and may suffice
Will likely involve international health agencies (WHO, Codex)
Will require scientists that can negotiate

Yes,
Iowa State University's expertise in
biotechnology can be applied to
*(name your favorite tropical fruit
here)*



Thank You

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