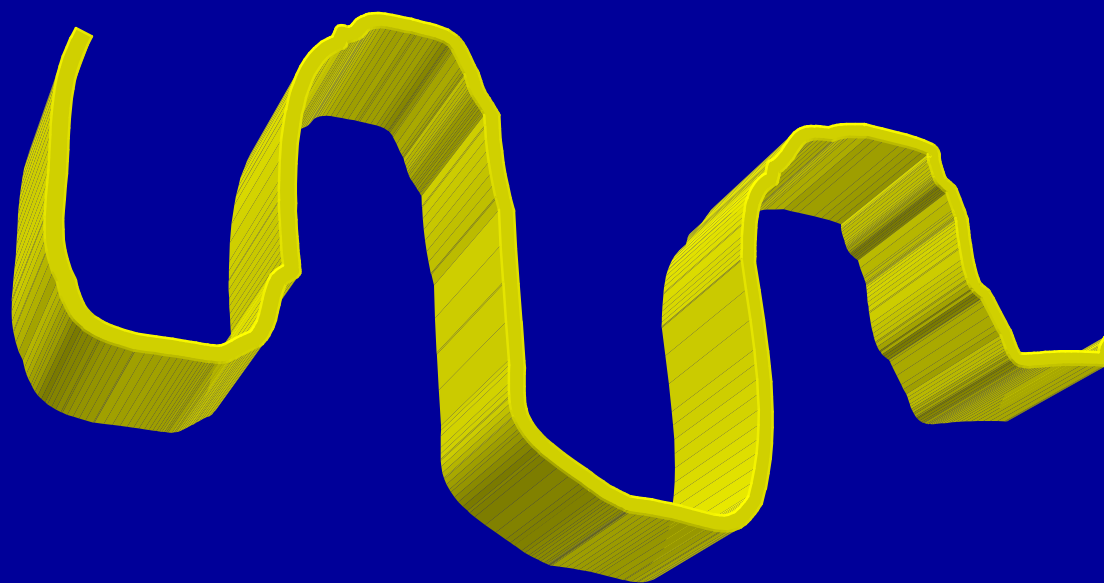


Lab



Land

Regulatory System...

- **Un-bias**
- **Transparent**
- **Time efficient**
- **Precise yet Practical**

Timeline Summary for Regulatory Process of Bt Cotton in India

Year	Particulars	oversight committees
1995-96	Application and permit for importation of Bt cotton seed containing the <i>CryIAc</i> gene	DBT
1996-2000	Greenhouse breeding for integration of the <i>CryIAc</i> gene into Indian germplasm	DBT
1996-2000	Limited field studies for potential of pollen escape	RCGM (DBT)
1998-2001	Biochemical and toxicology studies	RCGM (DBT), GEAC
1998-2001	Multi location field trials	RCGM (DBT), MEC
2000-01	Soil rhizosphere evaluations and protein expression analyses from multilocation field trials	RCGM (DBT), GEAC
2001	Advanced stage multilocation field performance trials of first-generation Bt cotton hybrids, conducted by ICAR	GEAC, ICAR, DBT, MEC
2002	Commercial release of first generation Bt cotton hybrid	GEAC

Cost of compliance for regulatory approval for single event, Some examples- 2002

country	crop	trait	Cost (US \$)
Brazil	Papaya	Virus resistance	700,000
	soybean	Herbicide res.	4 million
Kenya	maize	Insect res.	160,000
Costa Rica	rice	Virus resistance	2.25 million

Source- Nature Biotech. January. 2005- Vol-23

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Implications...

- **Limited Gain From Investments in Research**
- **'Illegal' release of products**
- **Discourage entrepreneurs ?**
- **Disadvantage to farmers**

South Asia
Biosafety Program

