

### **Bioplastics**

**Sustaining a Marine Environment** 

#### Suresh D. Pillai

### **Plastics Have Changed Our Lives!**







## The Reality Today.....







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## **THIS IS UNSUSTAINABLE**





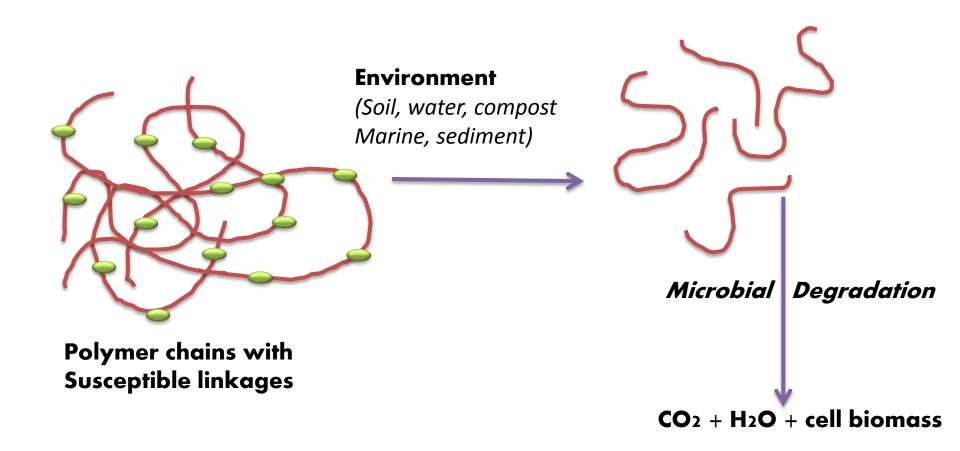
# **Everything is Interconnected!!**







# **Bioplastics – the Need is Urgent!**







# **The Need is Urgent**

- High Performance and multi-functional plastics
- Plastics that can degrade in land and water



Plastics made from agricultural wastes







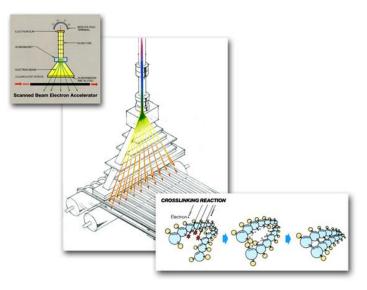
# **Change is Already Taking Place !**







#### Technology Driving Bioplastics Electron Beam Technology



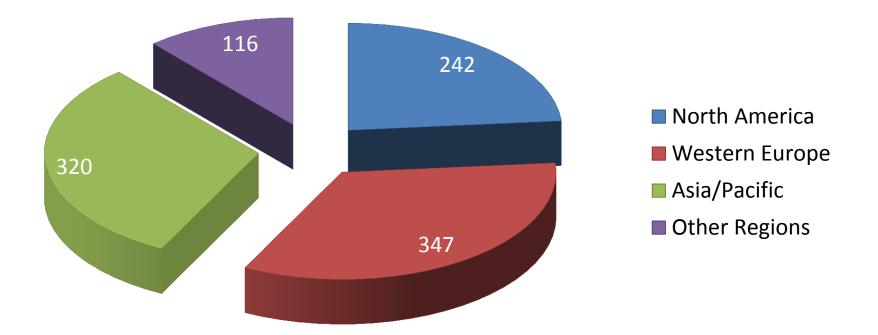






# Bioplastic Industry ~ \$3 billion

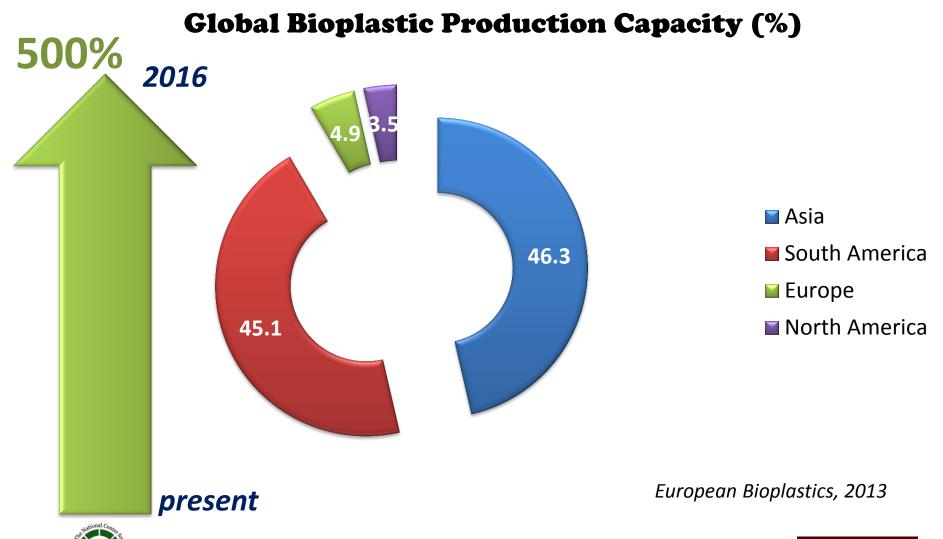
#### **Bioplastics Demand (thousand metric tons)**







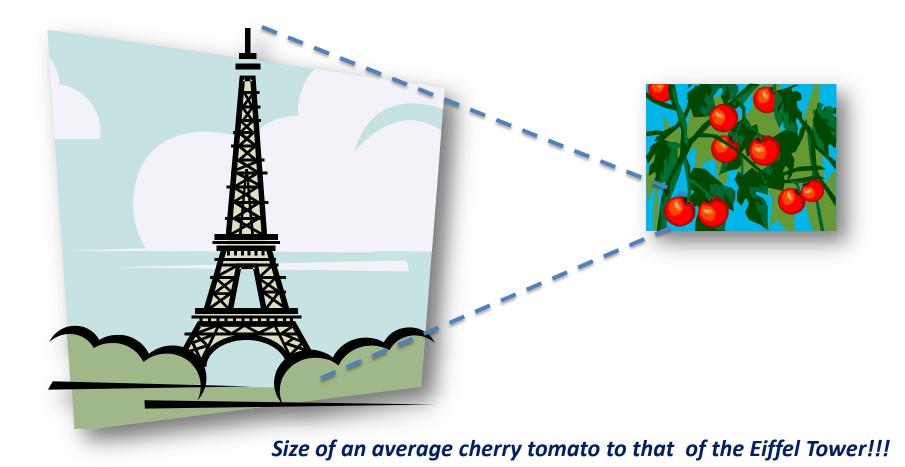
## **Bioplastic Industry Growth Areas**







## **Bioplastics will use only 0.006% of** global agricultural area



+ House Beam Reserved



### **Technology Transfer and Training are Key!**







