

Science For A Better Life



Emerging Technologies and Careers in Agricultural Research Laura McConnell, Bayer, Crop Science Division

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GLOBAL TRENDS IN AGRICULTURE Agriculture is at the center of many of the global challenges facing humanity



Over the last approximately 70 years, crop yield and farm productivity increases have been significant.





Agricultural Productivity Growth in the U.S. U.S. Department of Agriculture, Economic Research Service, http://www.ers.usda.gov/data-products/agricultural-productivity-in-the-us.aspx.

Sustainable Agriculture will be required to overcome the global challenges in agriculture





Agricultural Research is an exciting and challenging arena to be a scientist.





and the same



Urban farming



New product concepts



BAYER

Improvements in agricultural production and sustainability requires innovation in many scientific fields





Crop Cultivation Innovations have to be integrated for maximum efficiency



Precision agriculture and robotics are emerging as advances in sustainability







Innovation is also needed in fighting hunger by enabling smallholders to increase food production where it is needed most



Leveraging partnerships to bring smallholders access to:

- Agro know-how & training
- Price information & markets
- Credit & technologies



Pilot in India Green Chili



Pilot in Kenya Potatoes



"Bridging the Seed Gap" Project in Ethiopia Vegetables



Farm to Market Alliance

Agricultural Research is One of the Most Exciting and Important Areas of Science Today



