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# Providing Educators Authentic Scientific Research Opportunities through Integration of Research Content and Technology with GLOBE Teacher Workshops Using an Integrated Model of Professional Development

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*Providing educators authentic scientific research opportunities through integration of research content and technology with GLOBE teacher workshops using an integrated model of professional development.*

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# Authentic Professional Developments

- Integration of Established Programs
  - GLOBE
- Incorporation of Multifaceted Technologies
  - iPads (Data collection, Training modules, field visualizations)
- Connection to current and relevant research in the field
  - LIDAR, USGS Waterway Mapping, Soils, GIS

# Established Programs

## GLOBE:

- Pre-made Curriculum
- Support Mechanism
- Recruitment Factor (Wide Audience)



# Multifaceted Technologies

- Modules
  - Self-paced
- Real-time data collection
  - In the Field (Portable)
  - Universal tools in one Device
  - Visualizations in the Field (DEM)



# Connections to Research

- Authentic Connections to Current Research
  - Platform for Broader Dissemination
  - Increases Teacher Content

