

National Institute for Occupational Safety and Health (NIOSH)

Federal Panel Session Presentation

Sensor Fabrication, Integration, and Commercialization Workshop

September 11-12, 2014

Arlington, VA

D. Gayle DeBord, PhD

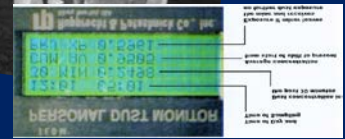
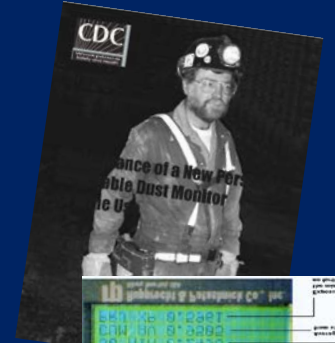
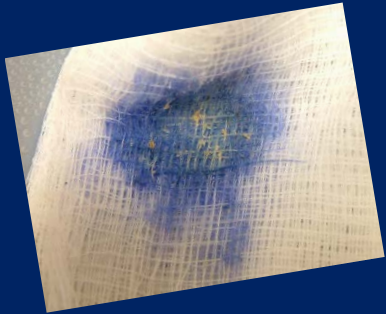
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Center for Direct Reading and Sensor Technologies
National Institute for Occupational Safety and Health

National Institute for Occupational Safety and Health (NIOSH)

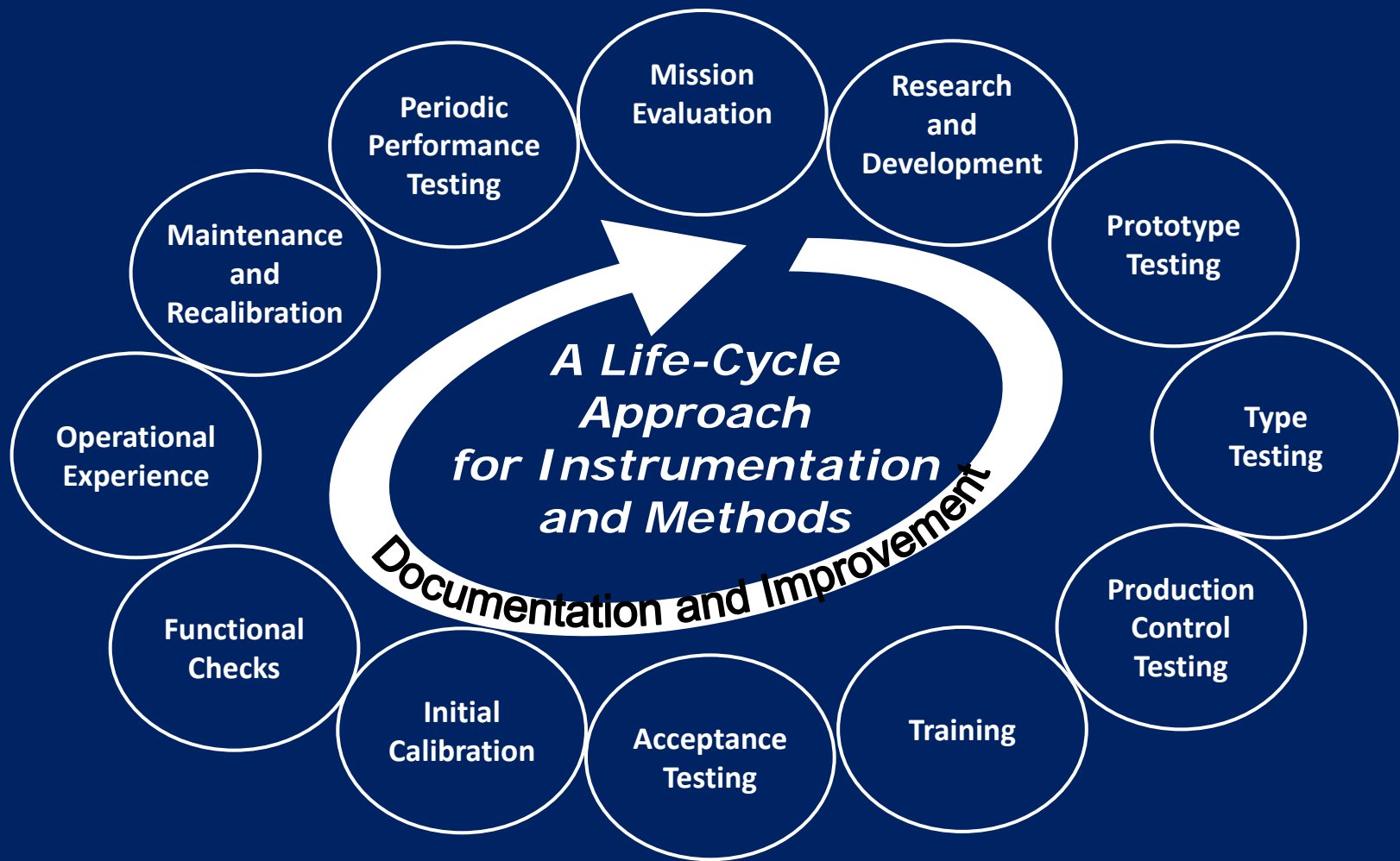
- Created in 1970 by the Occupational Safety and Health Act (OSH Act)
- Part of the Centers for Disease Control and Prevention (CDC)
- ***Mission is to conduct occupational safety and health research to prevent worker injury and illness***
- NIOSH is not a regulatory agency

NIOSH Center for Direct Reading and Sensor Technologies



Enabling safety, health, well-being, and productivity

Characterization Methods Lifecycle



Successful approaches address all issues

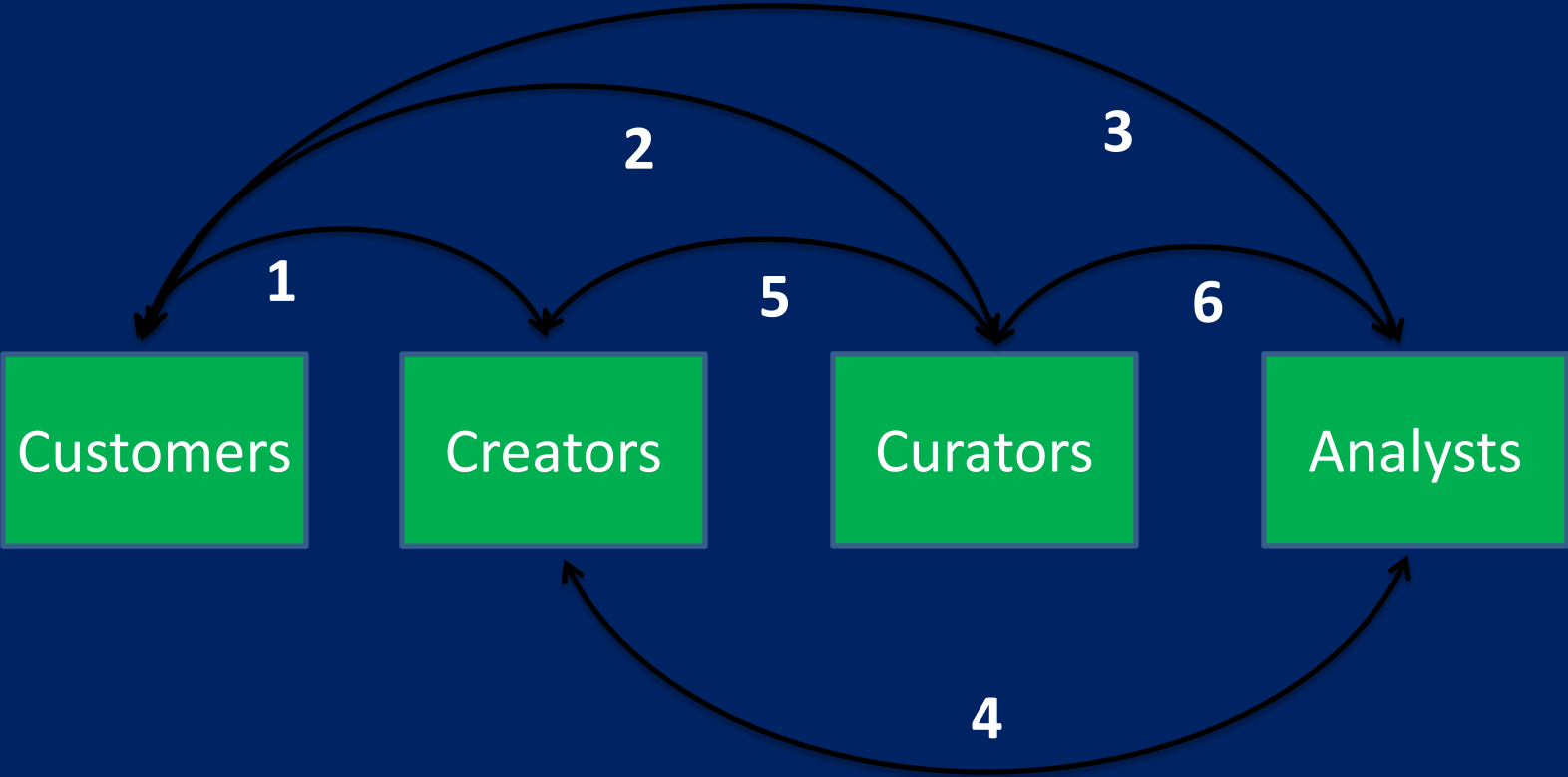
Nanoinformatics

(a working definition)

- The *science and practice* of determining *which information is relevant* to meeting *objectives* of the nanoscale science and engineering community,
- and then *developing and implementing effective mechanisms*
- to *collect, validate, store, share, analyze, model, and apply the information, and then to confirm achievement of the intended outcome* from use of that information.

<http://www.internano.org/nanoinformatics/>

Critical communication links for effective informatics



Draft for discussion

Roles and Responsibilities for Sensor Informatics

	Set Mission Objectives	Determine Relevance	Collect	Validate	Store	Share	Analyze and Model	Apply	Confirm Effectiveness
Customers	X	X						X	X
Creators		X	X	X					X
Curators		X		X	X	X			X
Analysts		X		X			X		X

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**Information about NIOSH Training
and Grants can be found at:**

<http://www.cdc.gov/niosh/oep/default.html>

www.cdc.gov/niosh/topics/drst/