November 21, 2014

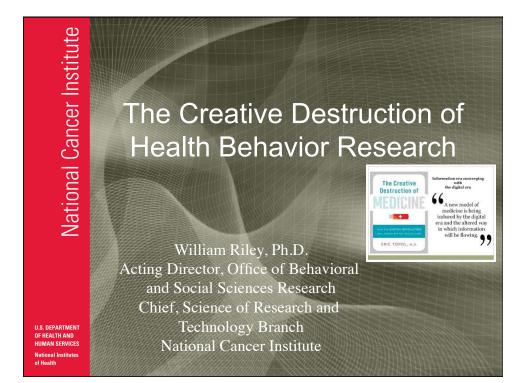
JMBC

UMBC Research Forum

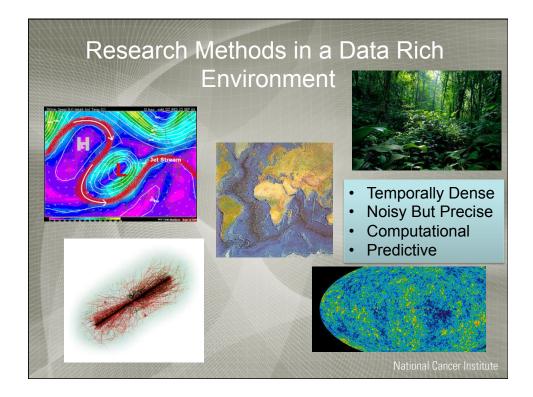


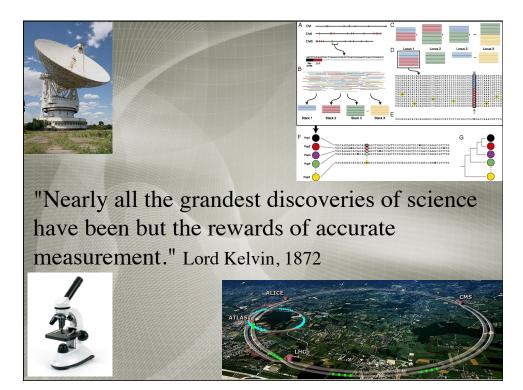
The Nexus of Social Sciences & Human Health

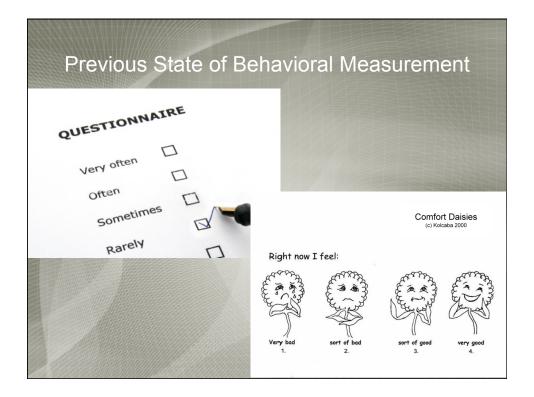


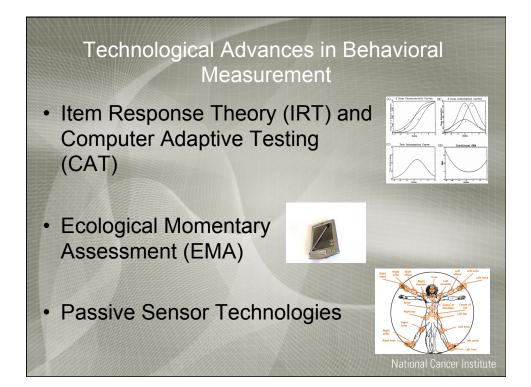




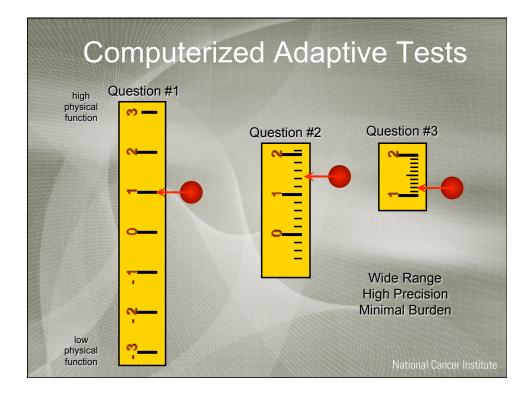


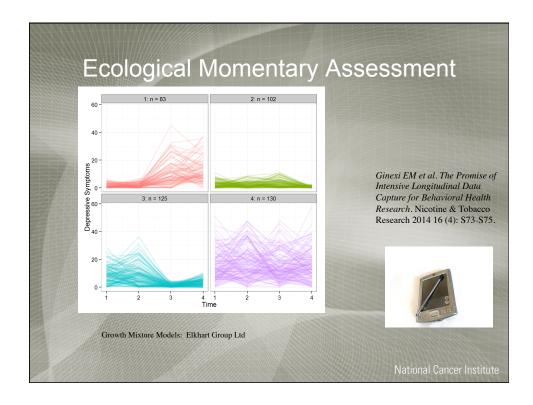


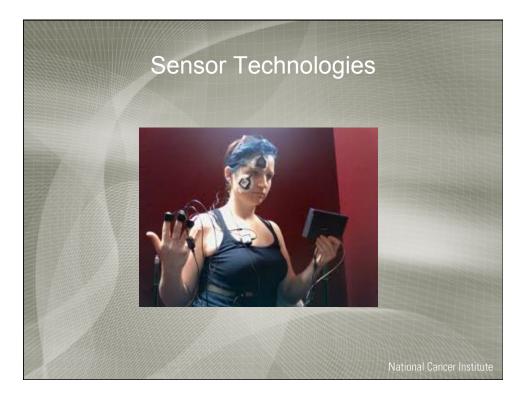


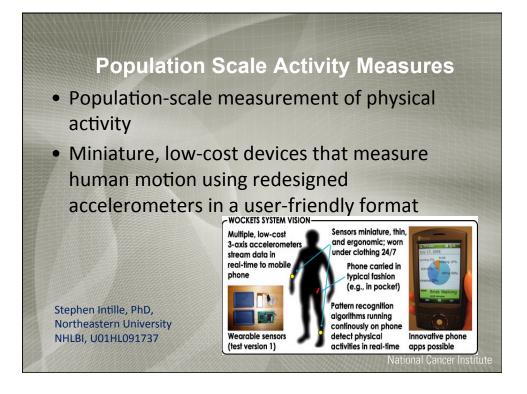


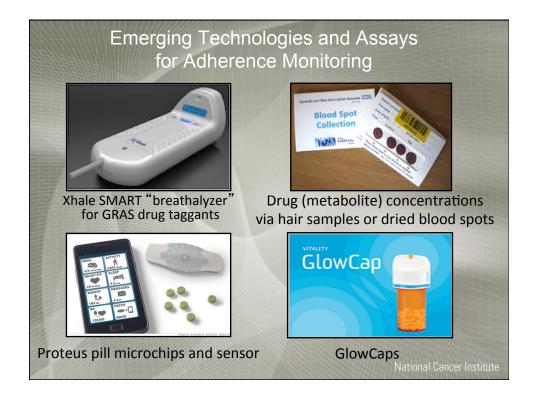


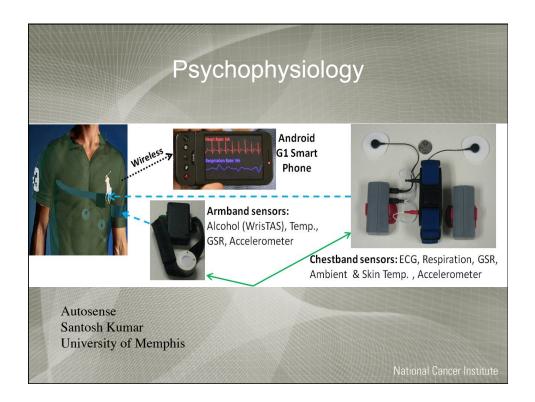














Implantable Biosensors

- Measurement of analytes (glucose, lactate O2 and CO2) that indicate metabolic abnormalities
- Miniaturized wireless implantable biosensor that continuously monitors metabolism
 - Inserted by needle subcutaneously
 - Operated remotely using a PDA
 - Multi-analyte sensor
 - One month continuous monitoring

Diane J. Burgess, University of Connecticut NHLBI, R21HL090458



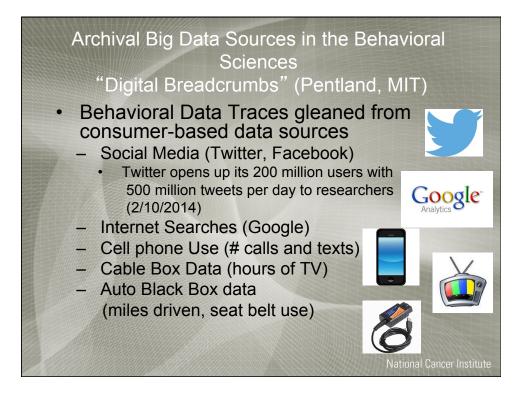
New Modalities for Prospective Data Collection

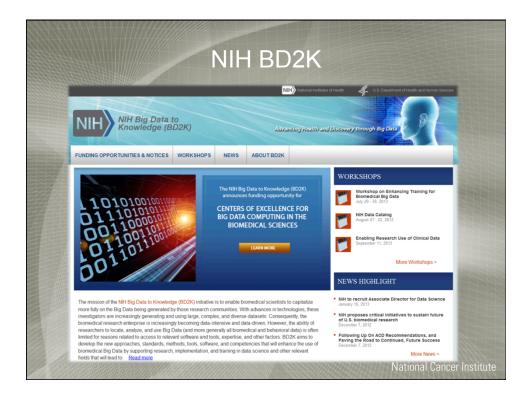
- Citizen Science and Crowdsourcing
 Efforts
 - Mechanical Turk for:
 - Volunteer Data Collection and Sharing (Quantified Self)
 - Cognitive Testing of Survey Items
 - Environmental Field Assessments

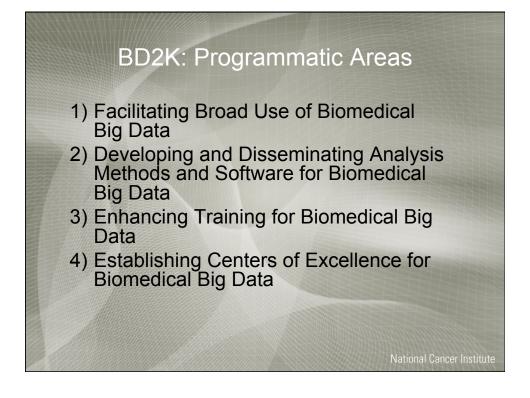
Opt-In Internet Panels

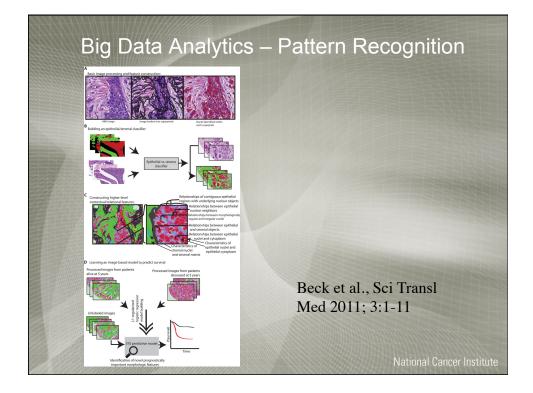
- See Summary Report of the AAPOR Task Force on Nonprobability Sampling
- See Roshwalb et al. (2012)Towards the use of Bayesian credibility intervals in online survey results. NY: Ipsos Public Affairs

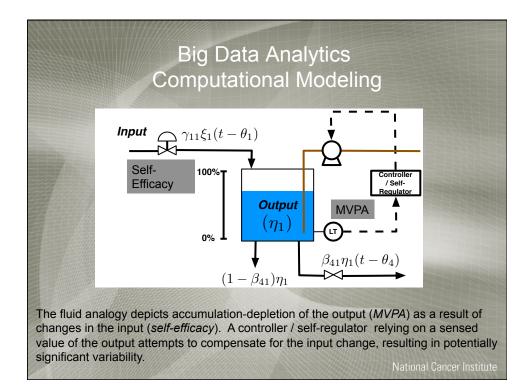


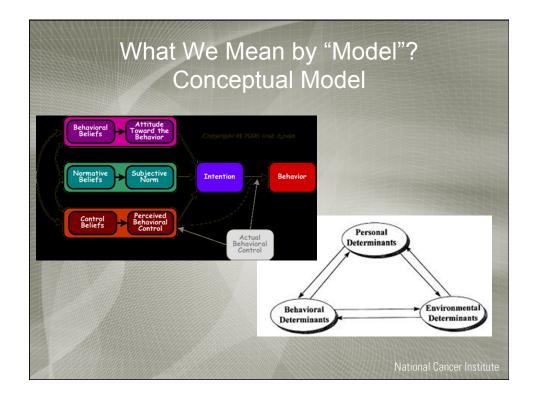


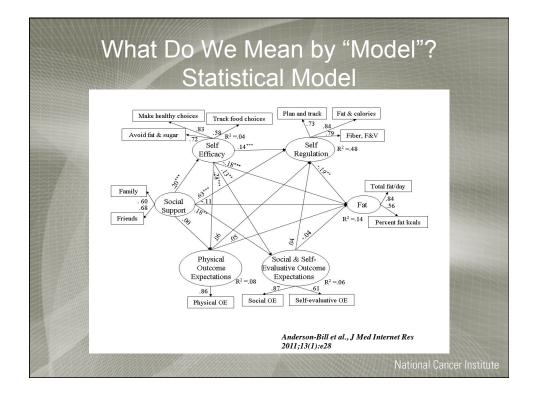












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