



QUANTIFYING EXPOSURE TO
ENGINEERED NANOMATERIALS FROM
MANUFACTURED PRODUCTS

QEEN II

SESSION 1

OCTOBER 9, 2018

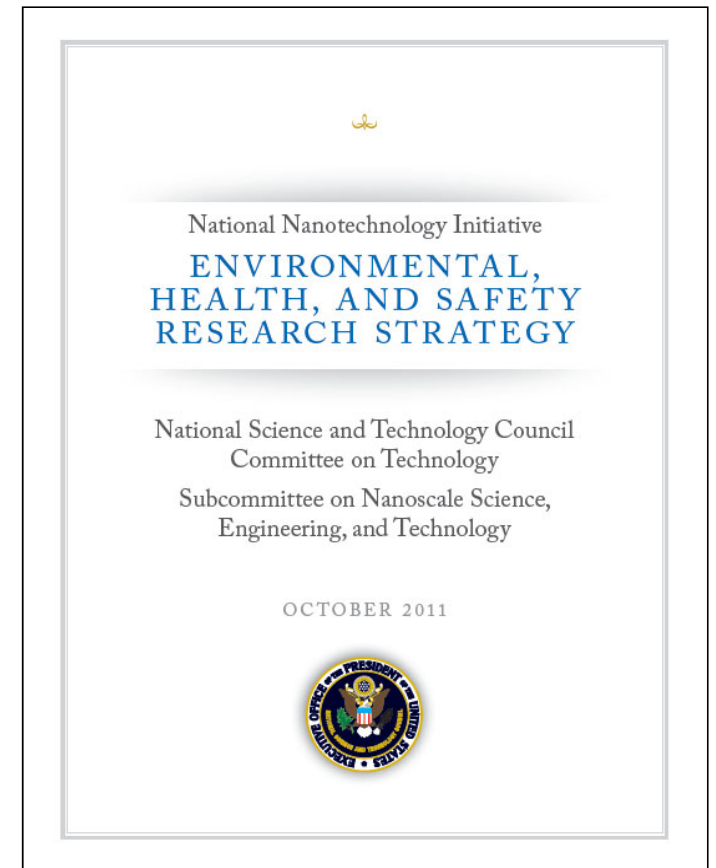
The 2011 NNI Environmental, Health, and Safety Research Strategy

- Serves as a comprehensive and more detailed follow-up to a prior initial strategy (2008) and identification of research needs (2006)
- Provides guidance to Federal agencies on research activities, priorities, and program planning

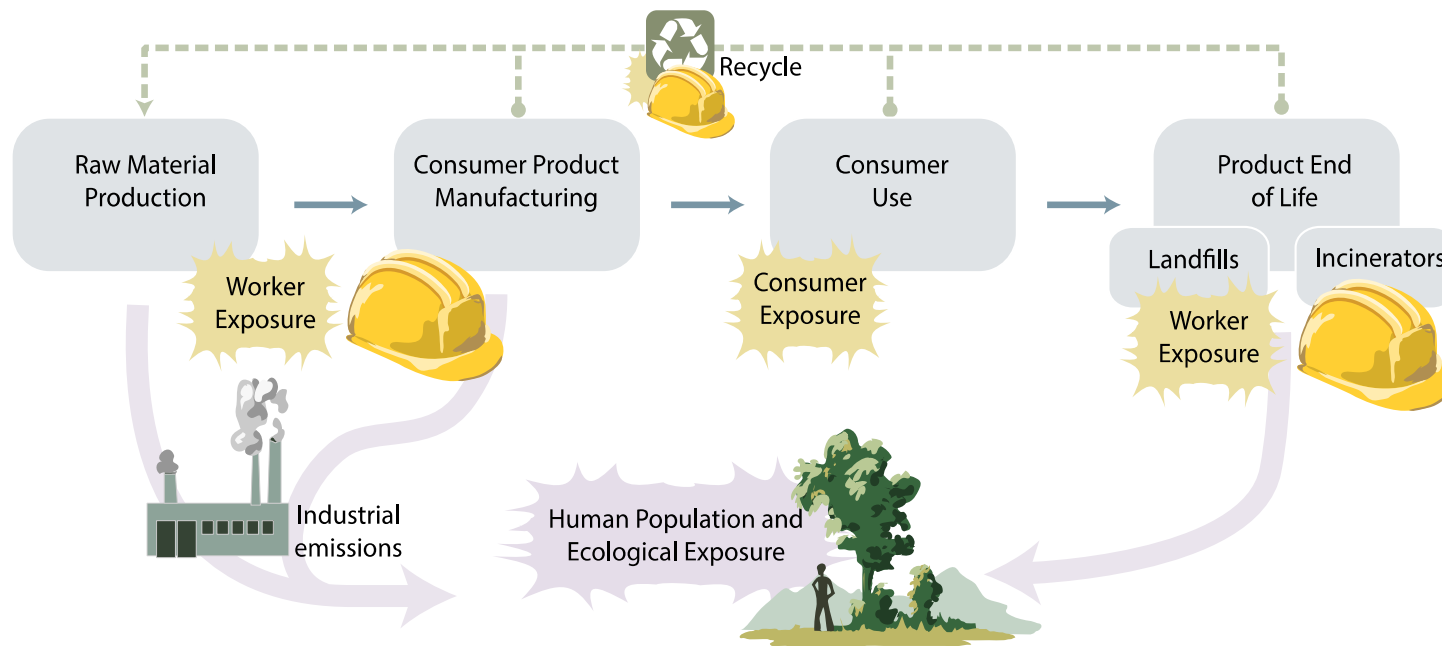


Risk-Based Framework for Addressing Nanotechnology Health and Safety Implications

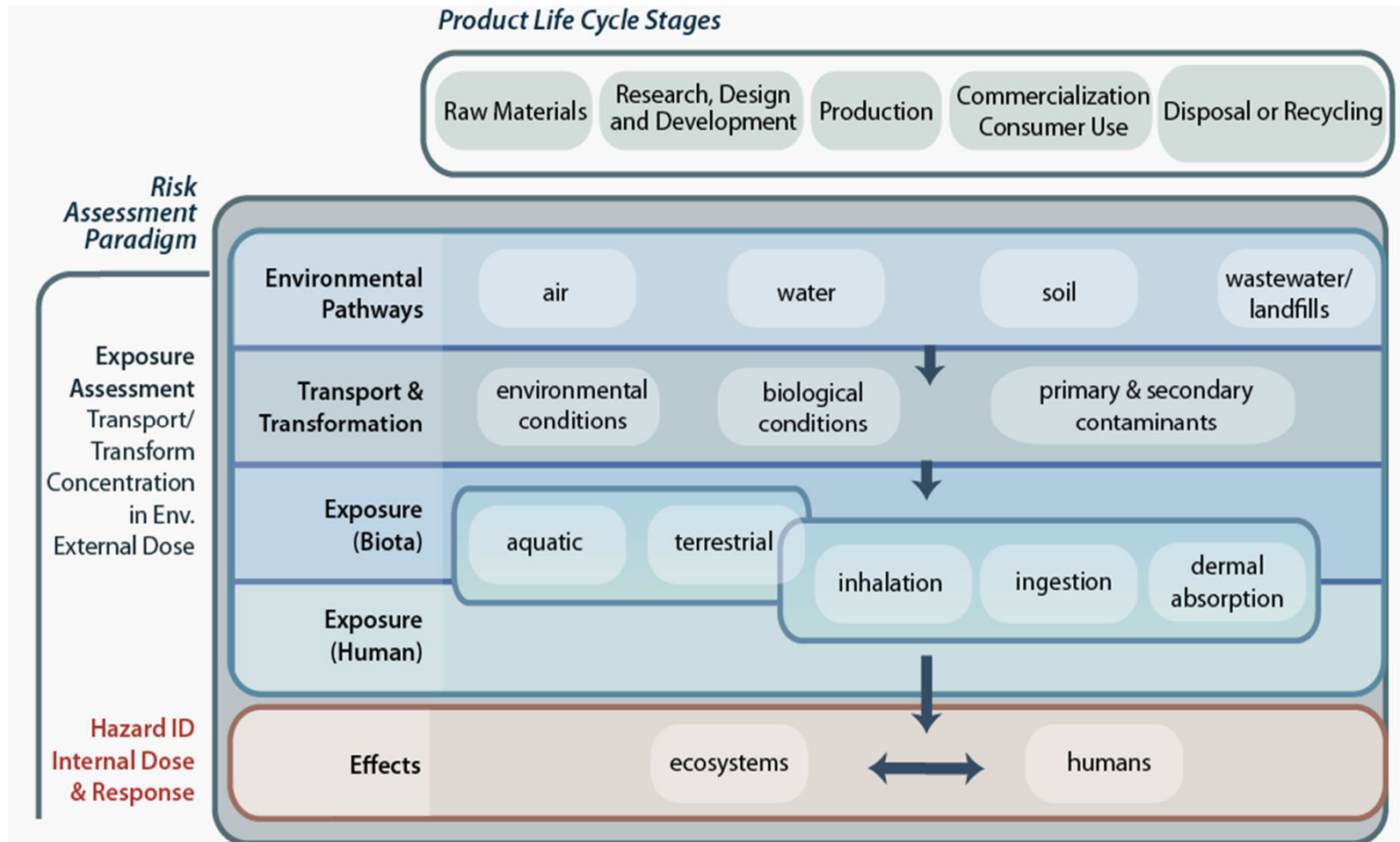
- 2011 National Nanotechnology Initiative (NNI) Environmental, Health, and Safety (EHS) Research Strategy
 - Employ science-based risk analysis and risk management
 - Research Needs
 - Understand processes and factors that determine exposures to nanomaterials
 - Identify population groups exposure to engineered nanomaterials
 - Characterize individual exposures to nanomaterials
 - Conduct health surveillance of exposed populations



The 2011 NNI EHS Strategy: A conceptual framework that incorporates risk-assessment, risk management, and life cycle analysis to inform specific research principles



Source: EPA

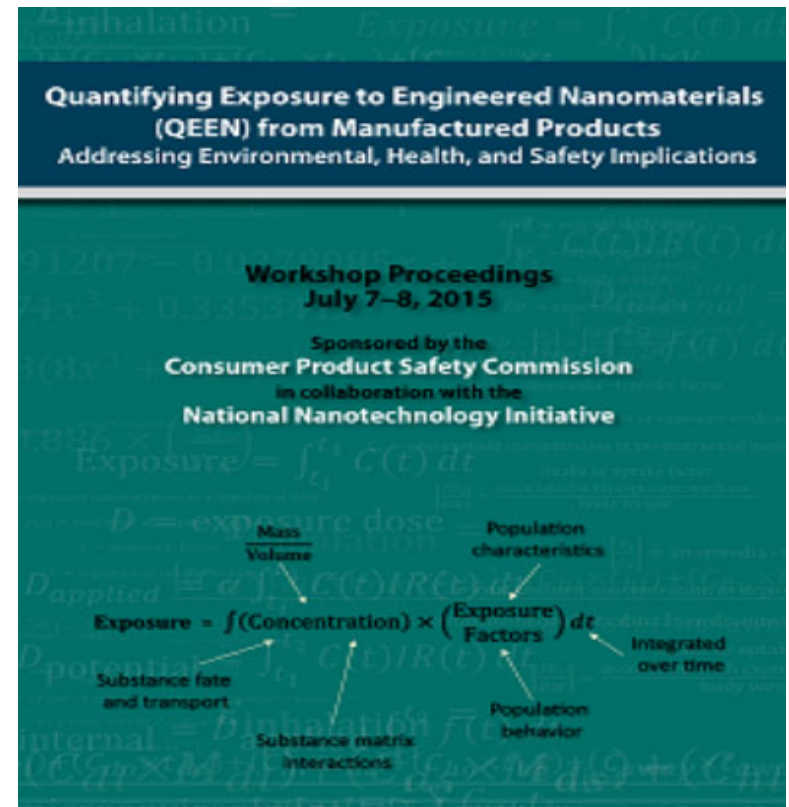


Call to Action for Exposure Science and Nanotechnology Communities

Quantifying Exposures to Engineered Nanomaterials (QEEN) Workshop

July 7-8, 2015, Rosslyn, VA

- Co-sponsored by CPSC and NNI
- Bring together and engage stakeholders
- Focus on lifecycle exposures: from production, use and disposal
- Identify methods and approaches from various media
- Understand global efforts for exposure science
- Re-invigorate US – EU Communities of Research (COR)



QEEN report released March 28, 2016 nano.gov