# Path Forward...

### Development and Validation of ED Assays

- US EPA will assess estrogen, androgen and thyroid effects for humans and wildlife
- EDSP will be a two tiered screening and testing program
  - Tier 1
    - in vitro and in vivo screens
    - detect potential to interact with the endocrine system
    - Data on mechanism
  - Tier 2
    - multi-generation studies covering a broad range of taxa
    - provide data for hazard assessment

For more information on the EDSP visit www.epa.gov/scipoly/oscpendo

### Initial Chemicals To Be Screened

- The September 27, 2005 Federal Register Notice Vol.70, No., 186 describes the exposure-based approach for selecting the initial 50-100 chemicals to be tested.
- The scope of the chemicals to be tested includes pesticide active ingredients and high production volume (HPV) chemicals used as pesticide inerts.

#### For more information

http://www.epa.gov/fedrgstr/EPA-TOX/2005/September/Day-27/t19260.htm

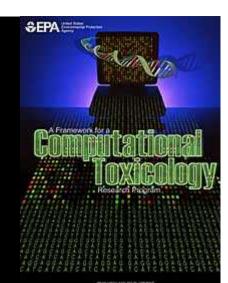
## Initial Chemicals To Be Screened

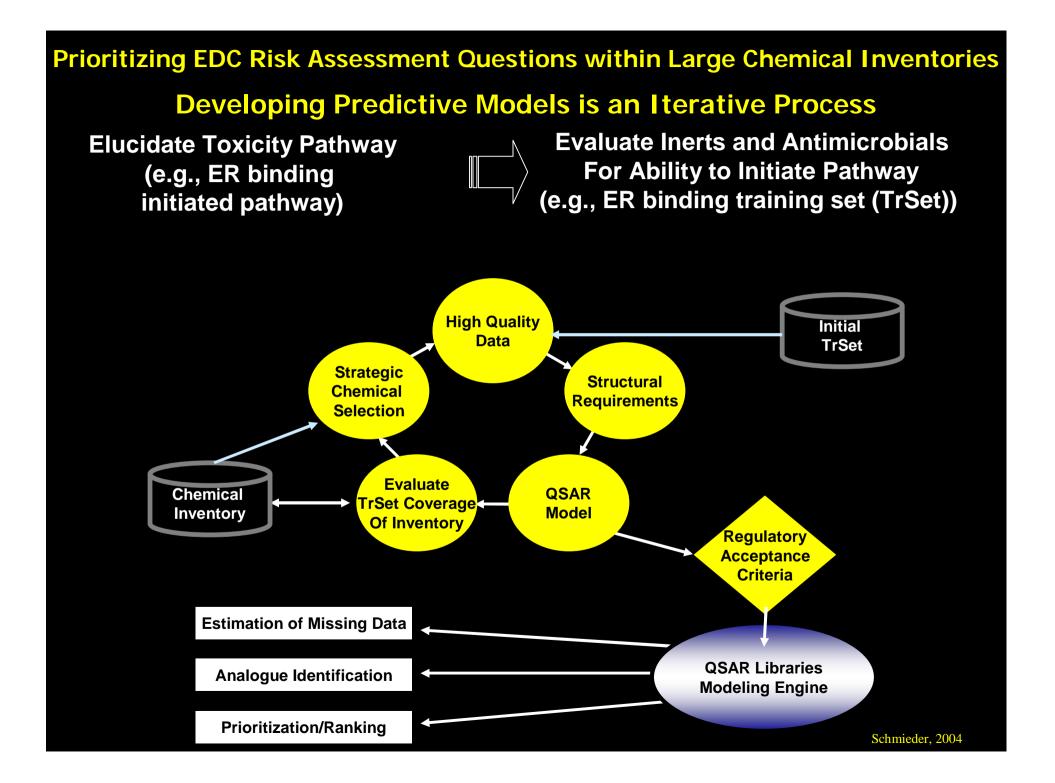
- Pesticide actives to be selected based on
  - Presence in food
  - Presence in drinking water
  - Residential use
  - Occupational contact
- HPV pesticide inerts to be selected based on
  - Human biological monitoring data
  - Ecological monitoring data
  - Chemicals in drinking water monitoring data
  - Indoor air monitoring data

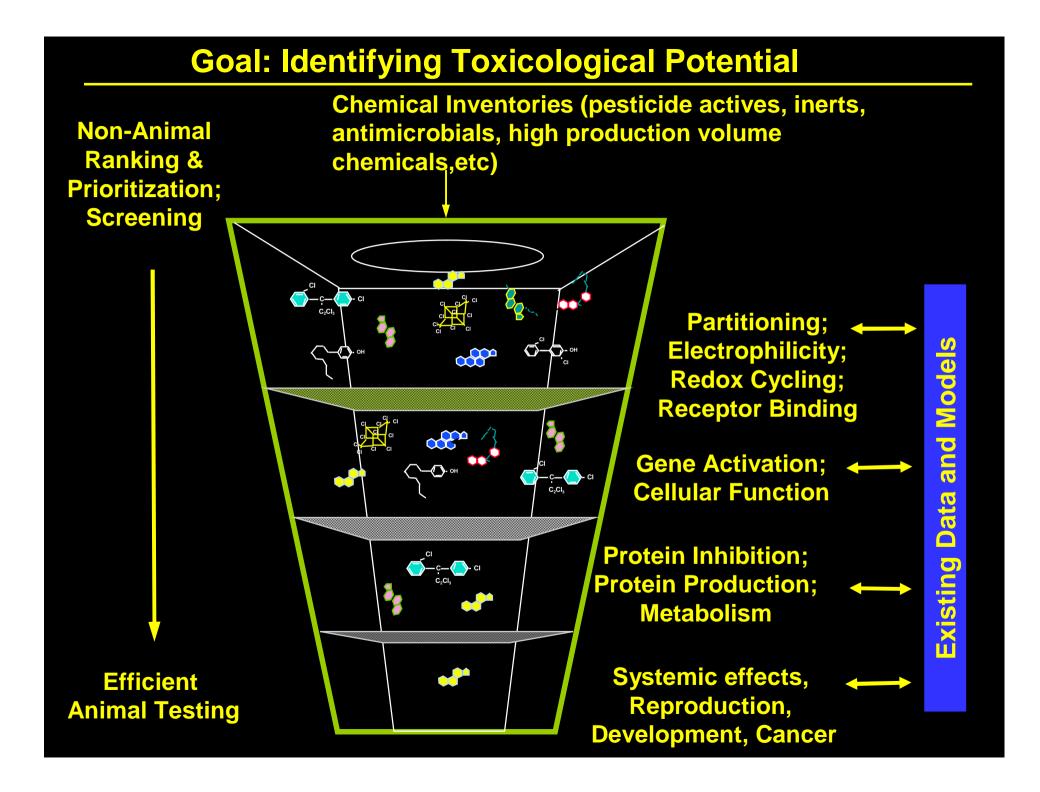
### EPA's Office of Research and Development Computational Toxicology Framework

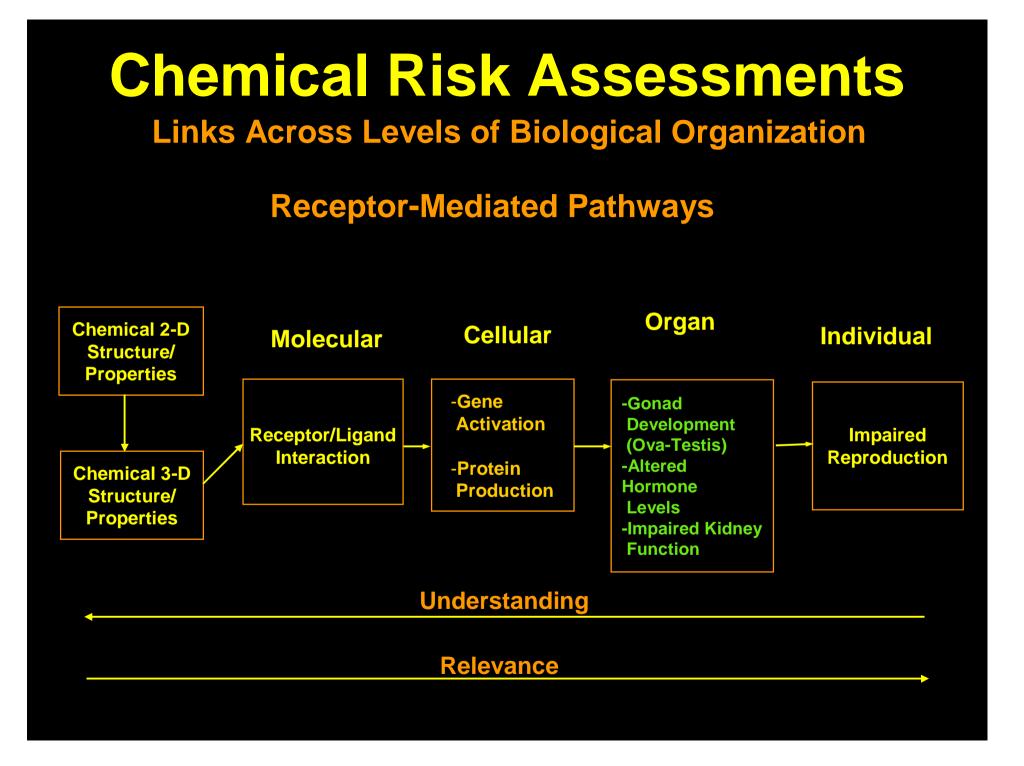
- The Goal
  - Application of math and computer models for prediction of effect and understanding MOA
- The Objectives
- Characterization of toxicity pathways
  - Provide quantitative structure activity relationships (QSAR) to improve risk assessments and reduce uncertainties
  - Improve quantitative risk assessments
- Measure of Success
  - Enable a paradigm shift to hypothesis-driven hazard assessment

http://www.epa.gov/comptox









For more information visit: http://www.epa.gov/pesticides/

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