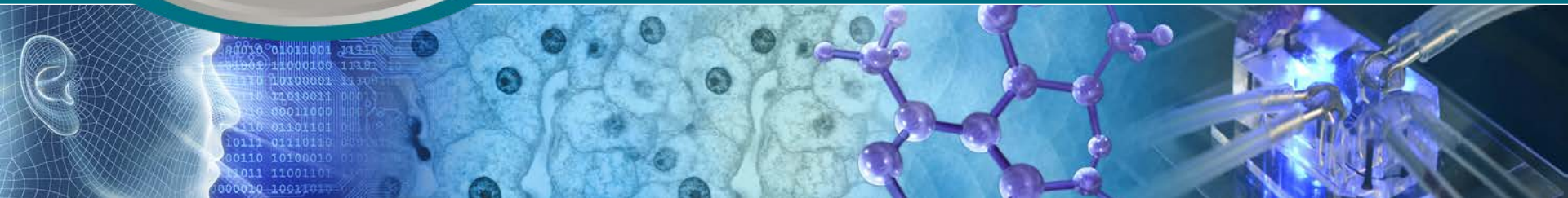




# Interagency Coordinating Committee on the Validation of Alternative Methods

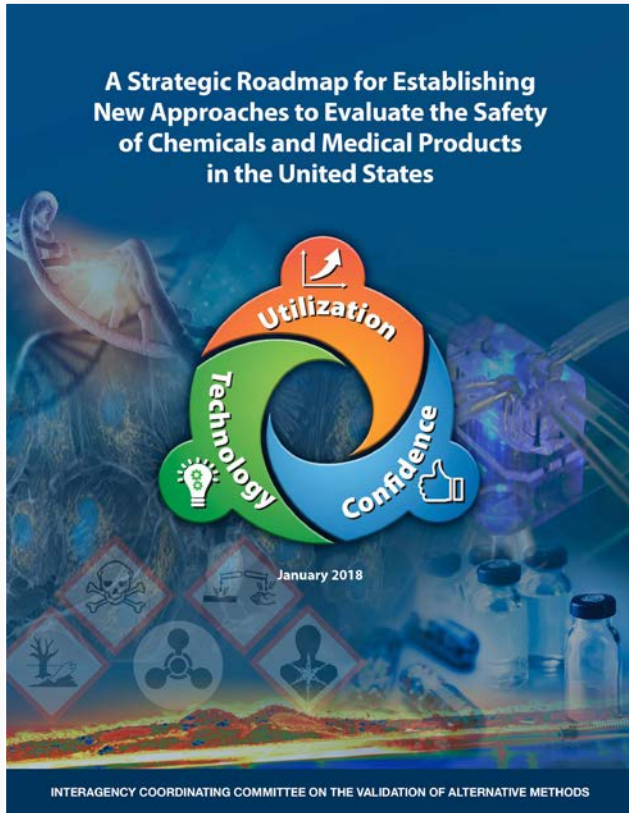


## New Approaches to Validation and Characterizing Performance of NAMs


Warren Casey, PhD, DABT  
Director, NICEATM

Agency for Toxic Substances and Disease Registry • Consumer Product Safety Commission • Department of Agriculture  
Department of Defense • Department of Energy • Department of the Interior • Department of Transportation  
Environmental Protection Agency • Food and Drug Administration • National Institute for Occupational Safety and Health  
National Institute of Standards and Technology • National Institutes of Health • National Cancer Institute • National Library of Medicine  
National Institute of Environmental Health Sciences • Occupational Safety and Health Administration





*U.S. agencies and stakeholders will work together to build a new framework to develop, establish confidence in, and encourage use of new approaches to toxicity testing that improve human health relevance and reduce or eliminate testing in animals.*

- Published 2018
- <https://ntp.niehs.nih.gov/go/natl-strategy>
-  ICCVAM roadmap



**Must START with the end in mind!**

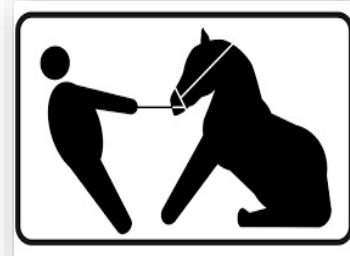


## EPA Acute 6-Pack Studies

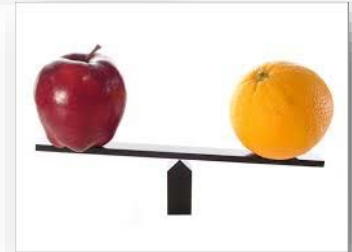
- Acute Dermal Lethality > Retrospective Evaluation of Data
- Skin sensitization > Defined Approaches using In vitro methods
- Acute Oral Lethality > QSAR models currently being evaluated



- **Institutional Resistance to Change**



- **Animal Data as the Reference for Validation**



- **Harmonization**



## From

- Centralized (“VAMs”)
- One Size Fits All
- Binary Status (Validated / Not)
- Stand Alone

## TRANSITION



## Towards

- Decentralized (End Users)
- Fit for Purpose
- Evolving Confidence
- Integrative





# Questions / Comments?