



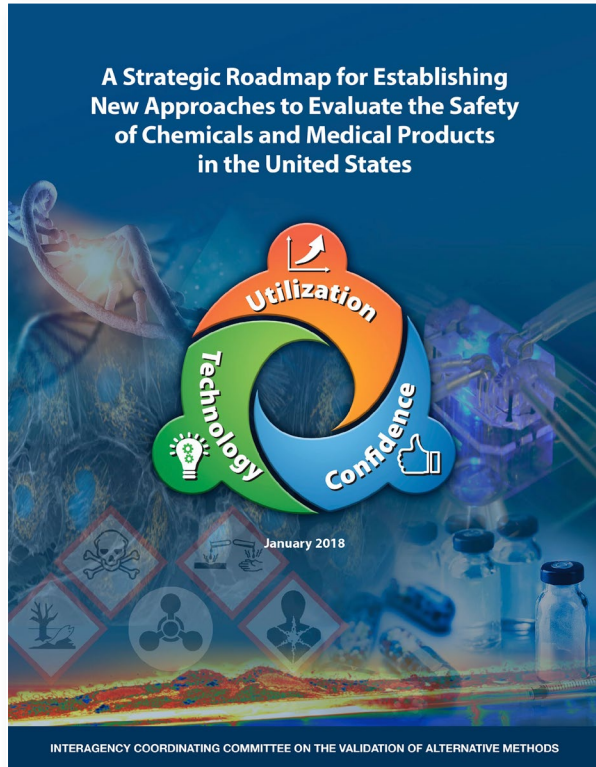
Session II: Implementing the Strategic Roadmap: Incorporation of Alternatives and Associated Metrics

Warren Casey, PHD, DABT

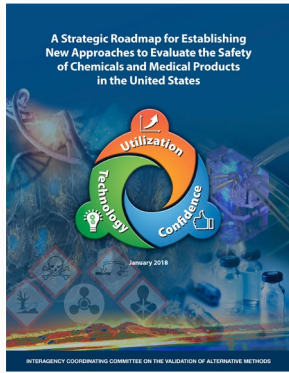
Division of Translational Toxicology, NIEHS

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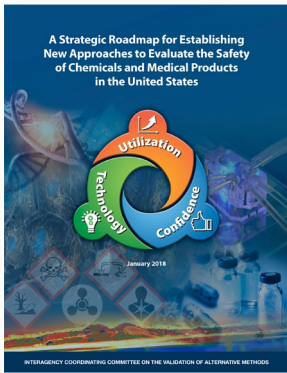


- **Help end-users guide the development of the new methods**
- **Use efficient and flexible approaches to establish confidence in new methods**
- **Encourage the adoption of new methods by federal Agencies and regulated industries**



Encourage the adoption of new methods by federal Agencies and regulated industries

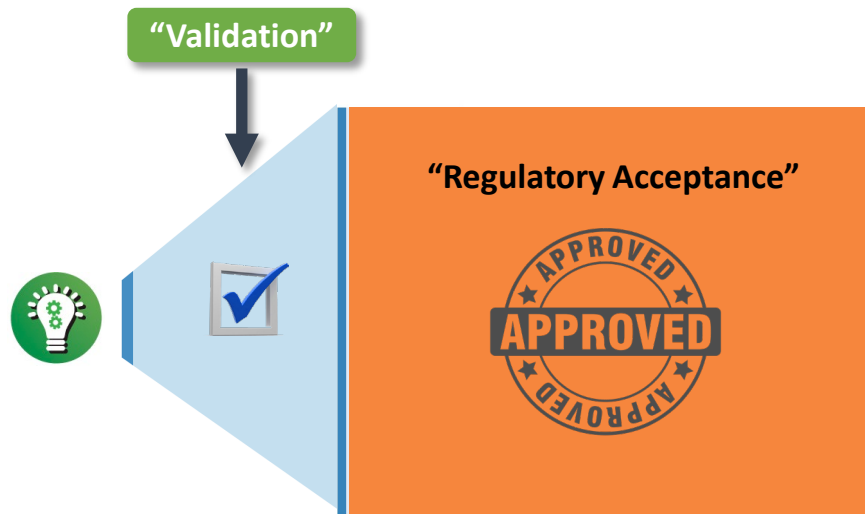
- Provide clear language regarding the acceptance of NAMs
- Collaborate with international partners to facilitate global harmonization and regulatory acceptance
- **Identify appropriate metrics for prioritizing activities, monitoring progress, and measuring success**



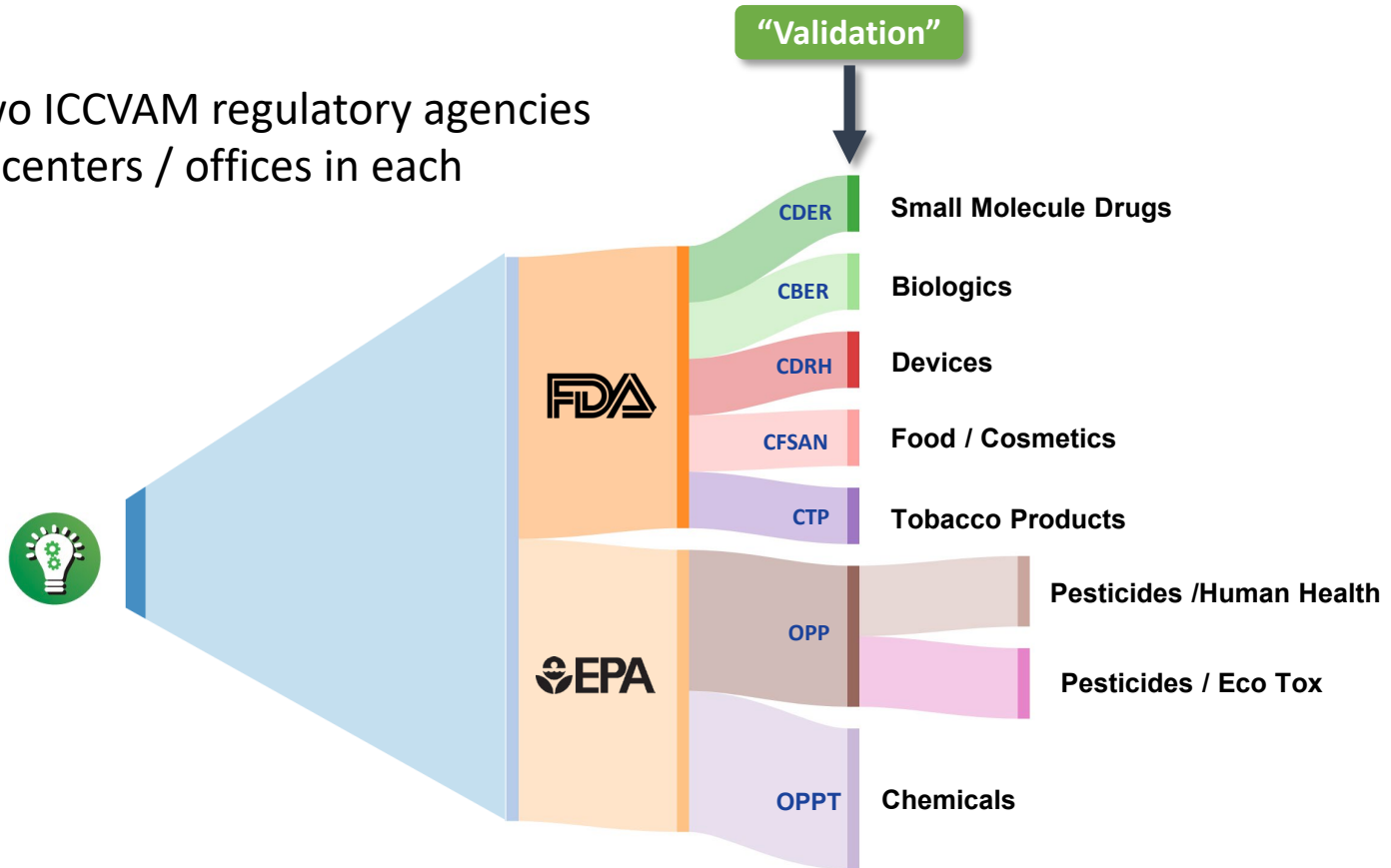
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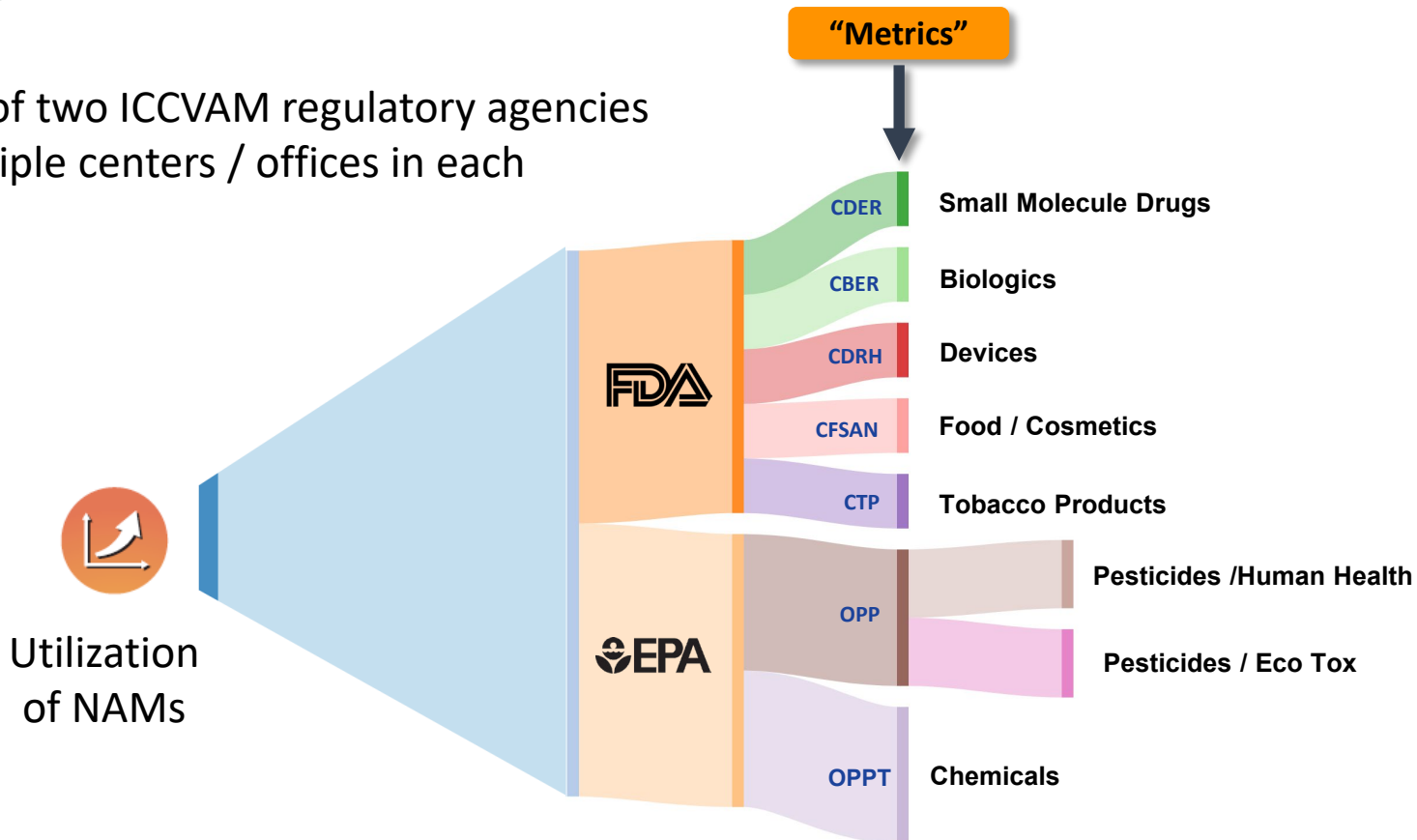


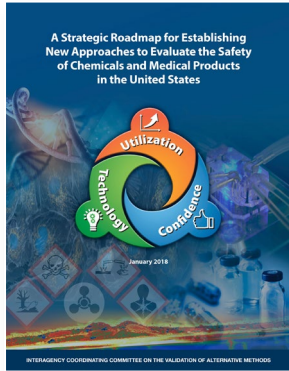


Example of two ICCVAM regulatory agencies with multiple centers / offices in each



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- Metrics Case Studies from ICCVAM Agencies
- Metrics Case Studies from Industry
- Consideration of Alternative Methods Workgroup



Interagency Coordinating Committee on the Validation of Alternative Methods

The screenshot shows the header and navigation menu of the ICCVAM Biennial Progress Report 2020-2021 website. The header is dark blue with a map of the United States on the left. The main title "BIENNIAL PROGRESS REPORT 2020-2021" is centered in white. Below the title is the text "Interagency Coordinating Committee on the Validation of Alternative Methods". To the right of the title is a search box labeled "Search ICCVAM Report" with a magnifying glass icon. Below the header is a navigation menu with the following items: Home, Technology, Confidence, Utilization, Leadership, About, Reference Pages, Search Agencies, and Search Topics. The main content area features a blue background with a wireframe head on the left and a microscopic image of cells on the right. The text "ICCVAM facilitates the development, validation, and regulatory acceptance of test methods that replace, reduce, or refine the use of animals in testing." is centered in the main content area.

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<https://ntp.niehs.nih.gov/iccvamreport/2021/index.html>



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EPA Guidance for Waiving of Toxicity Tests on Animal Skin	Acute Toxicity, Metrics	EPA
EPA New Approach Methods Work Plan	Metrics	EPA
FDA Reports on Progress in Advancing Alternatives	Tox21, Metrics	FDA
ICCVAM Workgroups	Acute Toxicity, Ecotoxicity, IVIVE, Metrics, Nanomaterials	ICCVAM
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Key NICEATM and ICCVAM Accomplishments and Impact	Acute Toxicity, COVID-19, MPS, Metrics, Oral Toxicity, QSAR, Skin Sensitization	DoD, EPA, ICCVAM, NIEHS
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New Agency Webpages Summarizing Alternative Methods Activities	Metrics	EPA, FDA



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