

EPA NAMs Training & Outreach Strategy

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Evaluating and applying emerging technologies for assessing risks to human health and the environment



Evaluate regulatory flexibility for accommodating NAMs



Develop baselines and metrics for assessing progress



Establish scientific confidence and demonstrate application



Develop NAMs that fill critical information gaps



Engage and communicate with stakeholders

- Goals
- Objectives
- Strategies

Goals for Training and Outreach

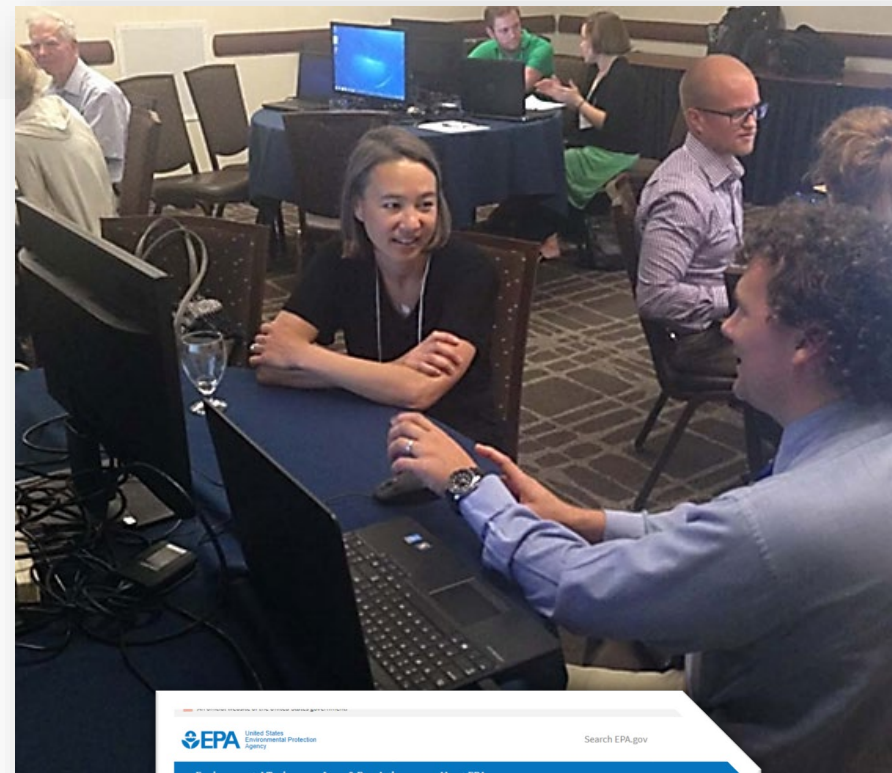
- To implement a training and outreach program to:
 - Increase awareness of NAMs
 - Obtain constructive feedback about how NAMs can be used
 - Improve the confidence in using NAMs to inform decisions
 - Increase acceptance of using NAMs

EPA NAMs Training & Outreach Strategy



Objectives

- Develop training courses, workshops, and conferences for EPA staff and stakeholders on NAMs
- **Enable collaborations to demonstrate and evaluate use of NAMs**
- Ensure stakeholders are engaged in each step of EPA's NAMs efforts
- Provide a central repository with informational resources about NAMs



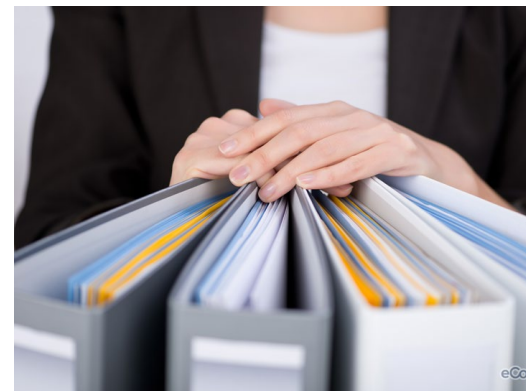
Develop, implement, & maintain an engaging NAMs training program

- Interactive case studies to encourage active learning
- Partner with organizations that have had success (e.g., PCRM)
- Train the trainer
- Obtain feedback on what is useful and how we can improve

Training Program - Pilot

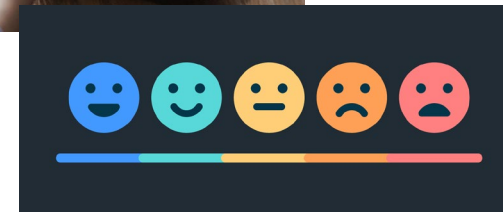
• Phase I

- Compile previous trainings and materials
- Develop website content



• Phase II

- Develop live trainings (up to 6/year)
- Develop and implement a training strategy to promote trainings
- Train the trainer
- Implement and evaluate training program



Optional Phases

- Phase III

- Stand-alone active training program
- Software and/or web-app
- Gamification for user engagement and long-term retention

- Phase IV

- In-person training (up to 4/yr)
- At EPA, external sites, and/or conferences



Pilot Training Program – Phase I & II Awarded



Specific tools and applications – current focus

Topic Area	Tools/applications
(0) NAMs Background	N/A
(1) CompTox Chemicals Dashboard	CompTox Chemicals Dashboard
(2) Ecotoxicology	ECOTOX; SeqAPASS
(3) Exposure	CPDat; Expocast; SEEM3; SHEDS HT
(4) Databases Relevant to Toxicity and Bioactivity	ToxCast; ToxRefDB; ToxVal; TEST; invitroDB
(5) Toxicokinetics and Dosimetry	Httk
(6) Chemical Safety Proof of Concept (POC) Workflows	TSCA proof of concept; Bioactivity:Exposure Ratio;
(7) Chemistry	GenRA; phys-chem properties (OPERA models); chemistry; ENTACT; Non Targeted Analysis (NTA)

I. Compiling previous trainings and materials

II. Developing website content

III. Developing website – estimated Q3 FY22

- **Live trainings**

- **Being held in 2022**

- **Likely focus**

- **GenRA**

- **CompTox Chemicals Dashboard**

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**“An investment
in knowledge
pays the best
interest.”**

- Benjamin Franklin

