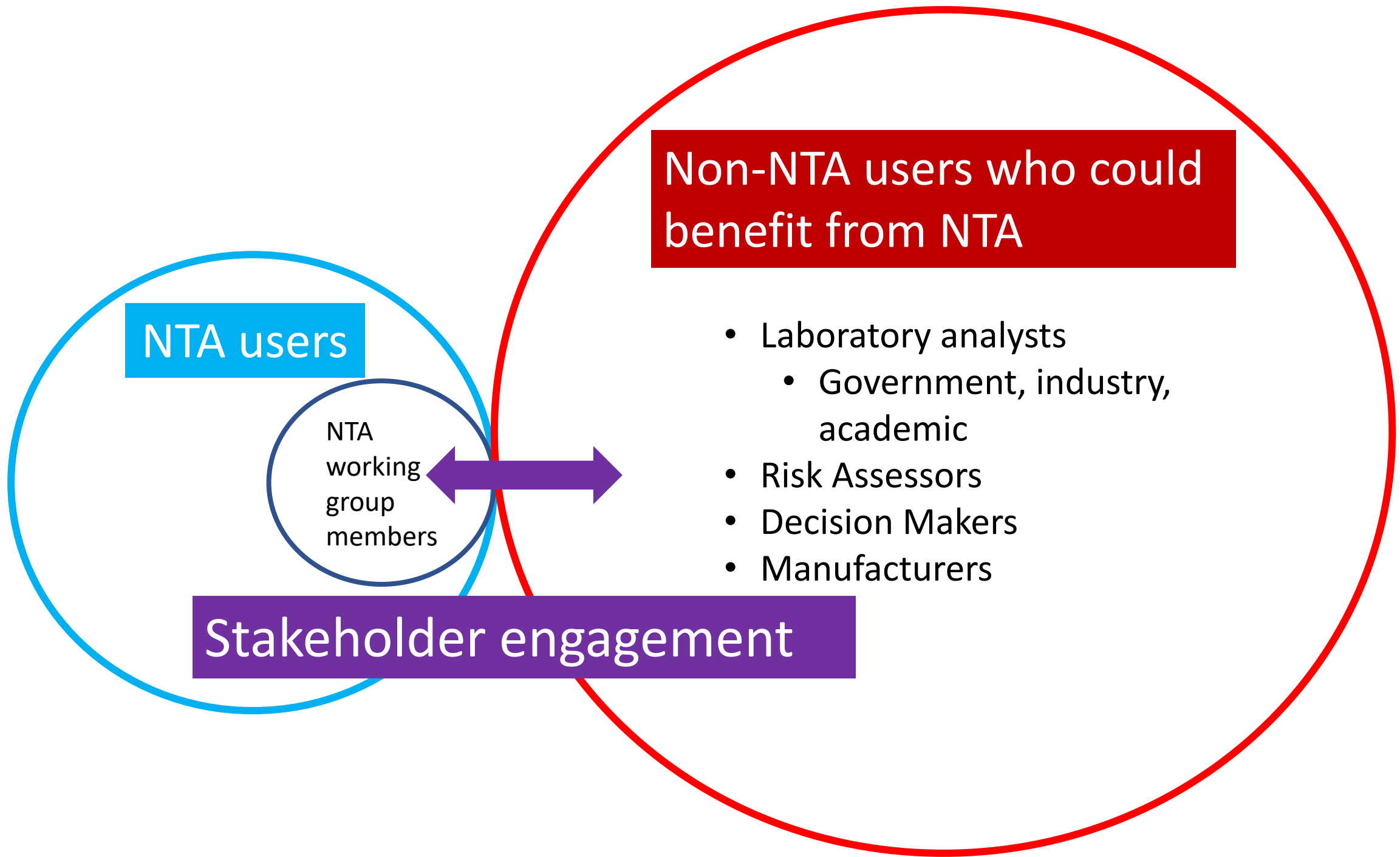


Building Stakeholder Relationships to Facilitate Expanded Application of Non-Targeted Analysis Methods

Sara Nason, Yong-lai Feng, Jon Sobus, Christine Fisher, Ruth Marfil-Vega, Krystal Pollitt, Matthew Newmeyer

The views expressed in this presentation are those of the authors and do not necessarily reflect the views of policies of the US Environmental Protection Agency.



NTA users

NTA
working
group
members

Non-NTA users who could
benefit from NTA

- Laboratory analysts
 - Government, industry,
academic
- Risk Assessors
- Decision Makers
- Manufacturers

Stakeholder engagement



Stakeholder Subcommittee

1. Engage with stakeholders who have limited to no involvement in R&D tasks related to NTA
 - e.g., regulators/decision makers, commercial labs, manufacturers of industrial and consumer products, utilities...
2. Identify common needs for implementing NTA among stakeholder groups to prioritize future BP4NTA efforts
3. Work together with stakeholders to create tools for facilitating implementation of NTA

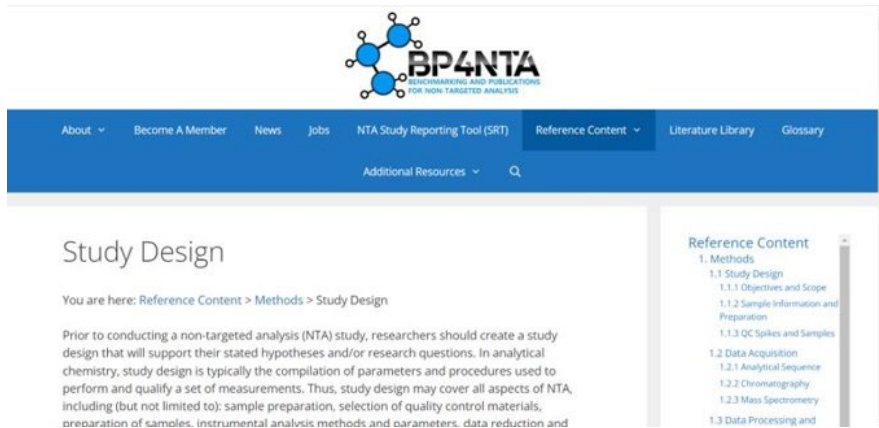
Engagement strategies

- Passive

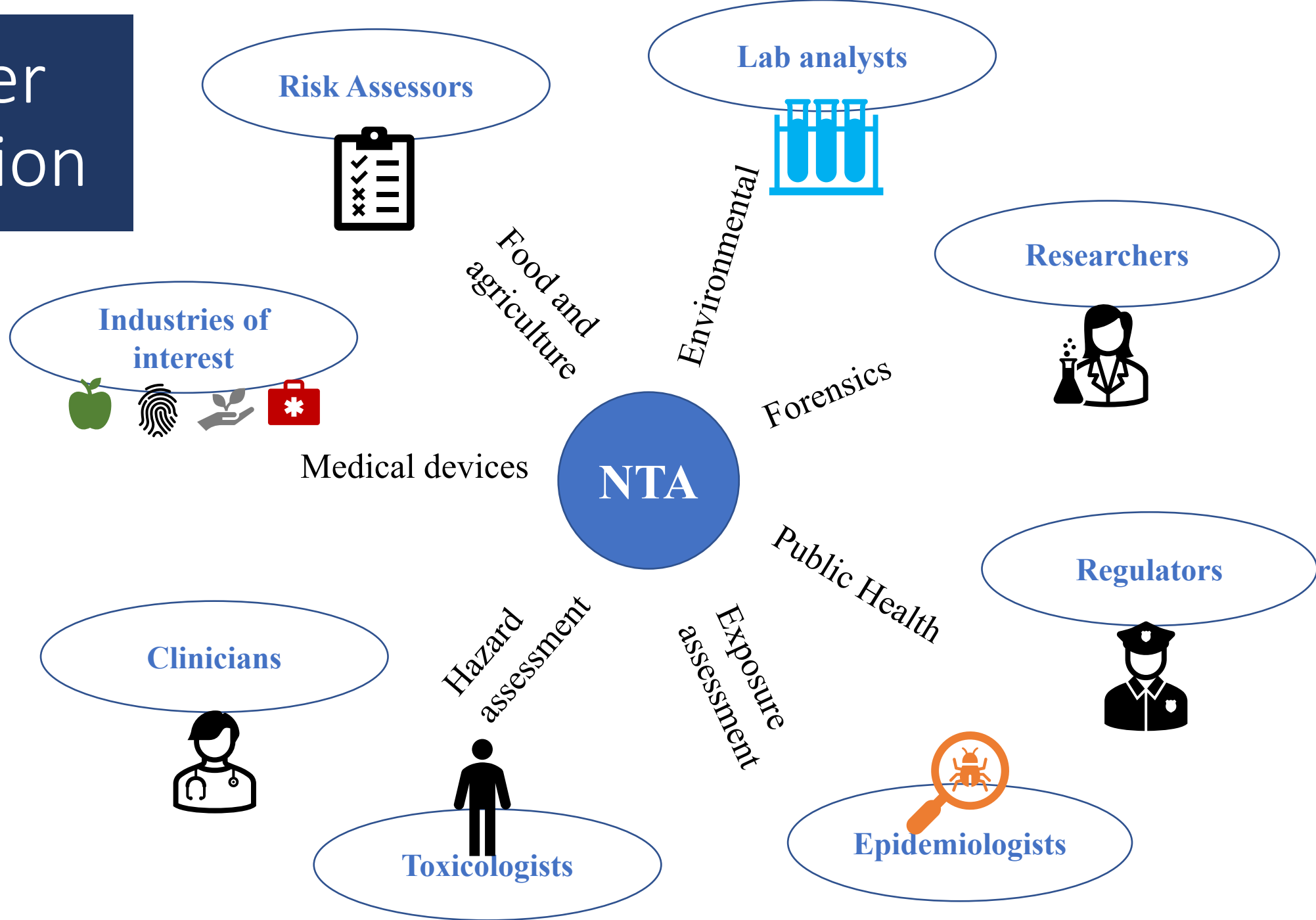
- Website
- Videos
- Fact sheets

- Active

- Informal conversation
- Meetings
- Workshops

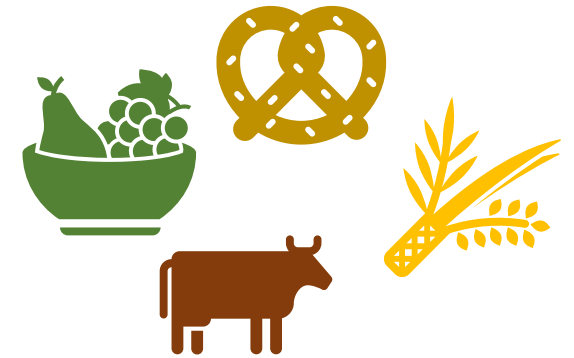


Stakeholder Identification



Meeting 1: Food and Agriculture Lab Analysts

- Attendee profile (6 stakeholder attendees):
 - Government lab analysts with HRMS experience
 - Most were US state employees
 - Work under ISO 17025 Accreditation
 - Use “screening” strategies in current work, but not full adoption of NTA
- Meeting goals:
 - Introduce BP4NTA and establish credibility
 - Listen to stakeholder opinions: reasons for using/not using NTA
 - Follow-up poll to collect additional thoughts and information



Discussion Questions



- Do you currently use NTA in your work? How?
- What do you see as the biggest opportunities for using NTA in your field?
- What are the biggest barriers inhibiting NTA use in your lab?
- What resources would be useful for incorporating more NTA in your work?
- Are you interested in participating in the creation/testing of these resources?

Findings: NTA Barriers



- Most regulatory analysis needs to remain targeted
 - Quantification is often necessary
 - Regulatory action almost always requires verification with a standard
 - NTA is useful for forensic/diagnostic work and for when standards are not available
- Current limitations on NTA:
 - Lack of ability to ensure data quality
 - Lack of high throughput data processing tools
 - Turn around time
 - Lack of understanding for end users of the data

Findings: NTA Opportunities

- All attendees were interested in doing more NTA
- Topics of future interest
 - Method performance assessment
 - Performance evaluation tools
 - Multi-lab validation studies and performance testing opportunities
 - Preference for methods that avoid false negatives
 - Quantitative NTA approaches
 - Retention time prediction
- Interest in NTA training opportunities at conferences
 - ASMS, AOAC, NACRW recommended



Lessons Learned

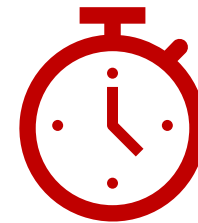
- The definition of NTA is debated!



- Even in a small group, it is difficult to get vocal input from everyone
 - Chat and follow-up poll were key for quieter participants



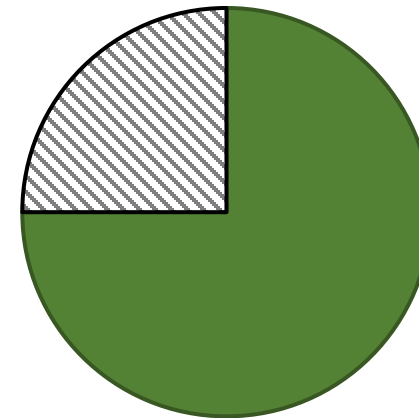
- A longer meeting time might work better



Materials Developed

- Meeting summary shared with BP4NTA members
- Meeting preparation materials
 - Invitation email
 - BP4NTA introduction slides
 - Discussion question list

Are you interested in joining BP4NTA?



■ Yes ■ No

Meeting Plans in Progress:

- **Medical device regulators**
 - Champion: Christine Fisher, US FDA
- **Environmental labs – commercial and utilities**
 - Champions: Ruth Marfil-Vega, Shimadzu; Greg Johnson, University of North Carolina
- **Rapid responders**
 - Champions: Alli Phillips, US EPA; Greg Johnson, University of North Carolina
- Others discussed: forensics, epidemiologists, NGOs, regulatory risk assessors

PFAS Stakeholders – Piggyback with EPA Efforts



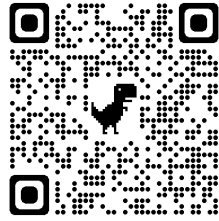
- October 2021 Virtual Conference: **Total PFAS Analysis for Public Health Protection: Science, Applications, Benefits and Challenges**
 - Audience: regional/state/local regulators and government laboratories
 - ~900 registered attendees
 - Organizers: James McCord, Tim Buckley, Regina Poeske, Matt Small
- Poll data on current NTA use and future barriers
- Identification of vocal and interested stakeholders

Broader activities affected by stakeholder input

- Planning of future BP4NTA activities
 - BP4NTA Standard Methods and Materials Committee
 - Choices of events for publicizing BP4NTA



Join us!



- Identify and engage with research, regulatory, and industry-based stakeholders
- Help organize stakeholder outreach meetings and events
- Create products to support outreach activities
- Identify needs and challenges for adoption of NTA workflows or use of NTA outcomes in stakeholder organizations

Fill out the “Become a Member” form at
nontargetedanalysis.org
or email
sara.nason@ct.gov

Acknowledgements



BP4NTA stakeholder committee members:

Co-Chairs: Yong-lai Feng and Sara Nason

Jon Sobus

Ruth Marfil-Vega

Krystal Pollitt

James McCord

Stephane Bayen

Jessica Daniel

Christine Fisher

Alli Phillips

Greg Johnson

Matthew Newmeyer



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