

Strategic Realignment at DNTP: An Update

NTP Board of Scientific Counselors Meeting
9 Oct 18



Portfolio Review → Challenges

- Our current portfolio is broad, extensive and difficult to maintain
- The list of potential hazards we're concerned about is growing faster than our ability to run animal studies to assess them
- The decision-making process of our stakeholders is still largely linked to morphologic outcomes of animal studies
- With some exceptions, our current non-animal approaches are better at producing data than enabling decisions
- Our public stakeholders expect information more quickly
- There is a gap in our ability to 'predict' human outcomes from higher throughput and more mechanistic *in silico* and *in vitro* assays



Goals of a Strategic Realignment

- Ensure continued value and impact
- Leverage past experience to gain future efficiencies
- Challenge traditional approaches to ensure we're using the best tools and processes
- Reinvigorate staff
- Give the new guy some false sense of accomplishment

Strategic Realignment: Vision and Mission



Translational Toxicology at NTP

Our impact



Our aims

Inform the present

- Engaging, informing and educating stakeholders
- Timely responses
- Contextualizing data

Innovate the future

- Build mechanistic understanding
- Innovate our capabilities
- Train next-generation translational toxicologists

Our tools

Literature analysis

Animal studies

In vitro systems

In silico/ computational analytics



DNTP Vision and Mission Themes





- ***Vision***

To advance public health and the discipline of toxicology through the use of innovative tools and strategies that are translatable, predictive, and timely.

- ***Mission***

Solve contemporary public health problems by characterizing contemporary environmental hazards in human-relevant systems. Inform a future state that meets rapidly changing public health needs by bridging mechanistic insights to phenotypic outcomes.



Vision

To **advance public health** and the discipline of **toxicology** through the use of **innovative** tools and strategies that are translatable, predictive, and timely.

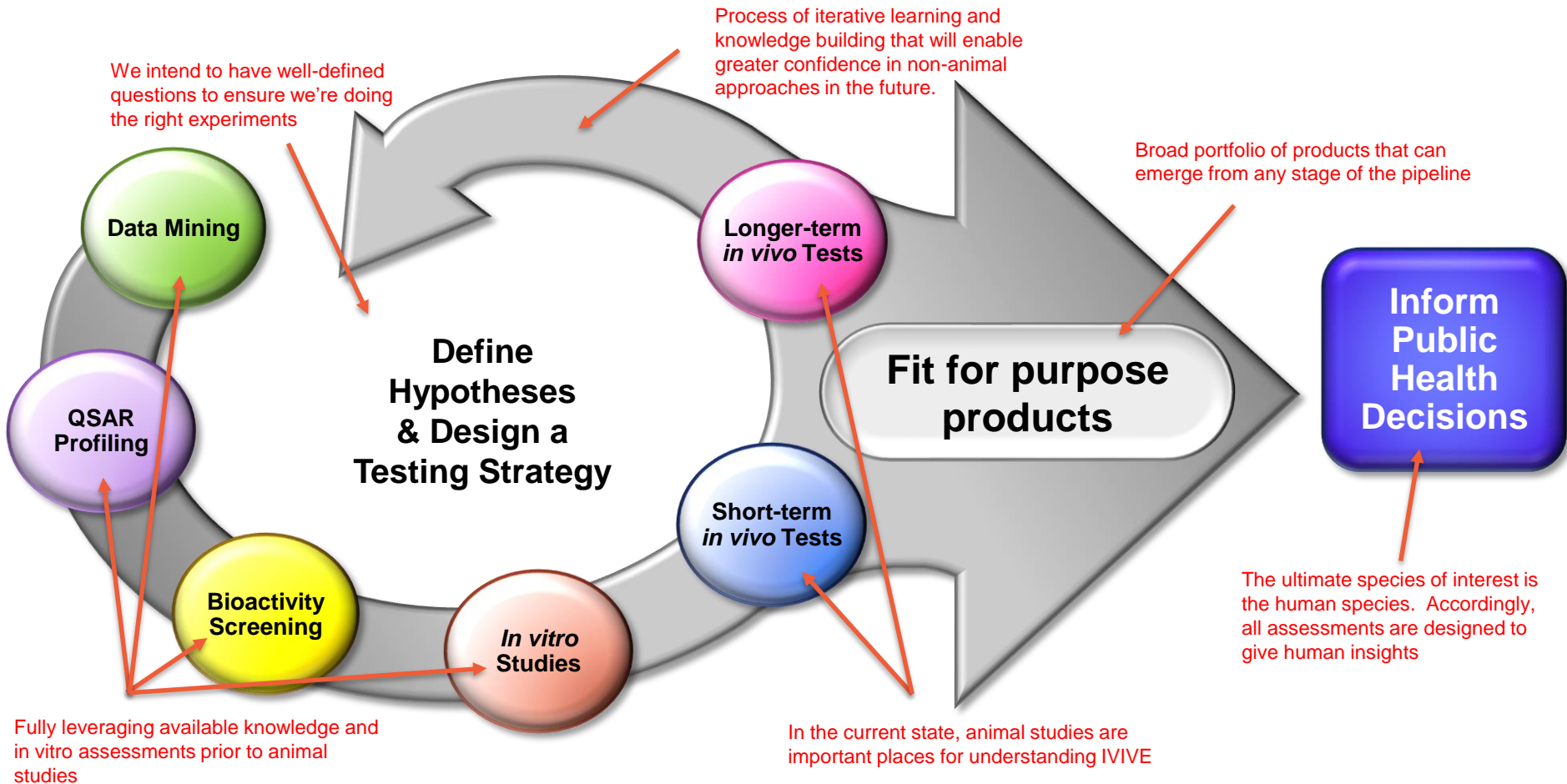


Mission

Solve contemporary public health problems by characterizing contemporary environmental hazards in **human-relevant** systems. Inform a future state that meets rapidly changing public health needs **by bridging mechanistic insights to phenotypic outcomes.**



DNTP Translational Toxicology Pipeline Plan





Wrap Up