

# Translation as a Scientific Framework

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# Translation as a Core Principle

## Translational Toxicology at NTP

Our impact



Our aims

### Inform the present

- Enabling and educating stakeholders
- Timely responses
- Contextualizing data

### Innovate the future

- Build mechanistic understanding
- Capability innovation
- Train next generation translational toxicologists

Our tools

Literature analysis

Animal studies

In vitro systems

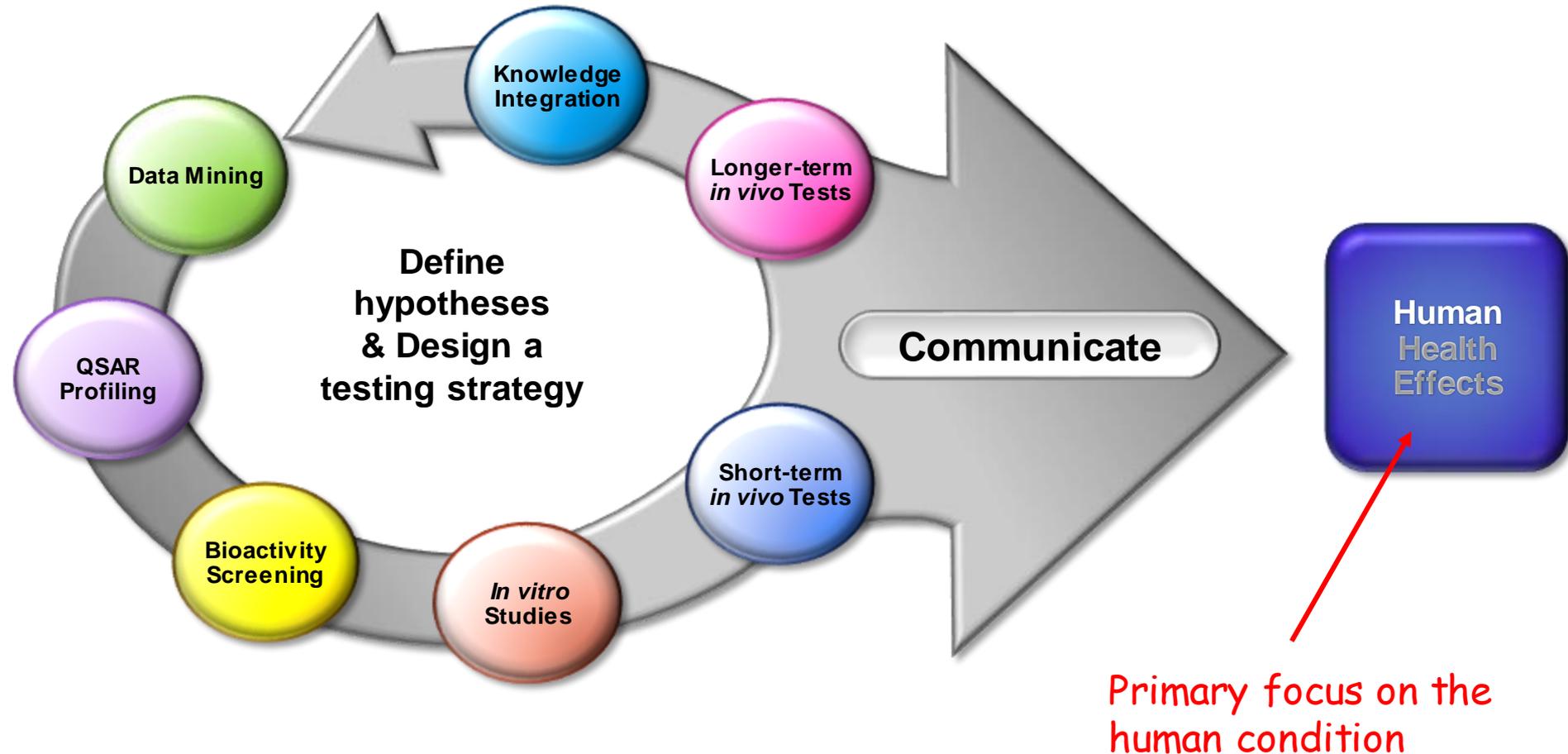
In silico/computational analytics

Aspiration = Support the evolution of toxicology from a predominately **observational** science to a predominately **predictive** science



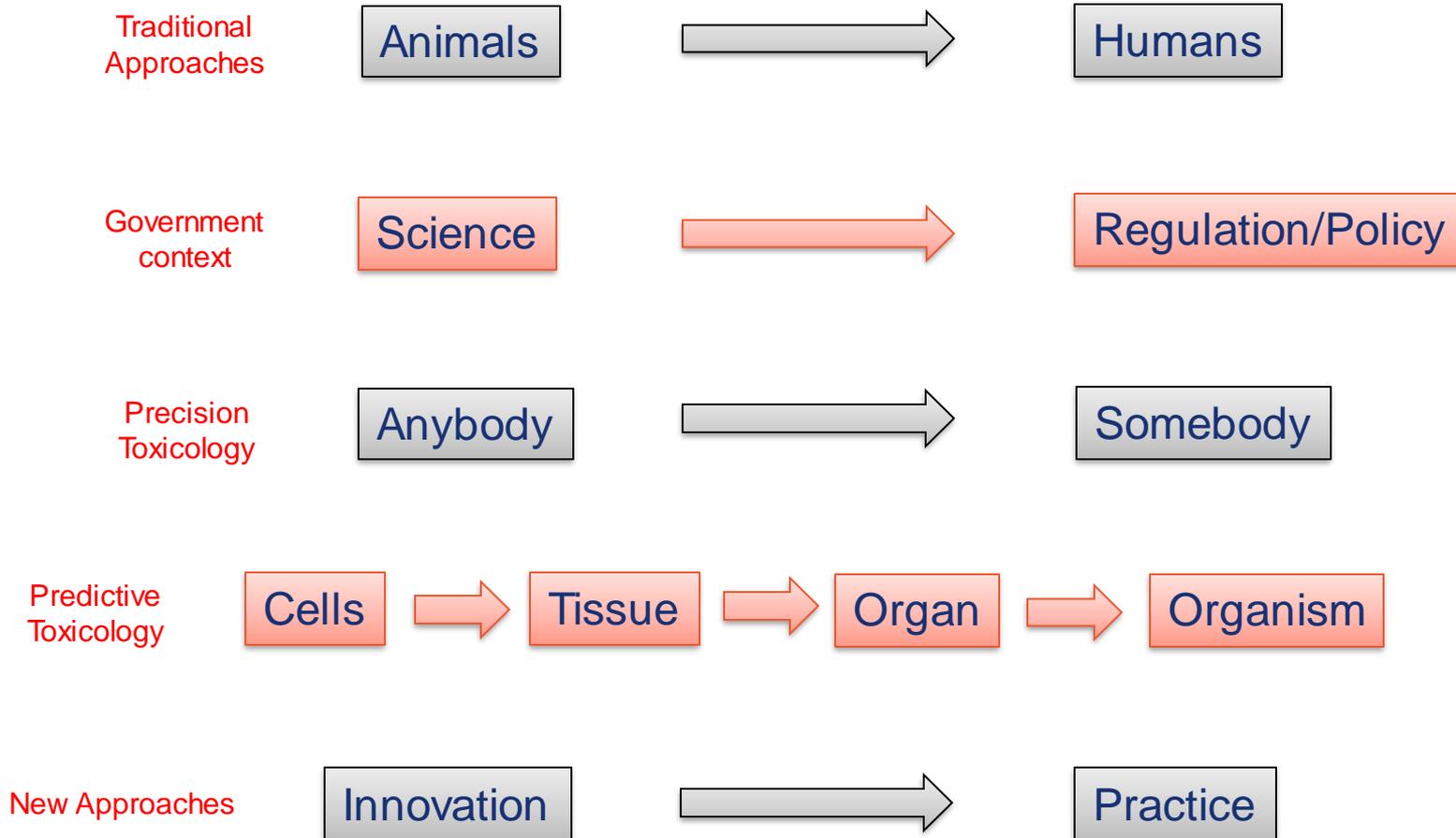
# Translation as an Operational Intent

## DNTP Translational Toxicology Pipeline



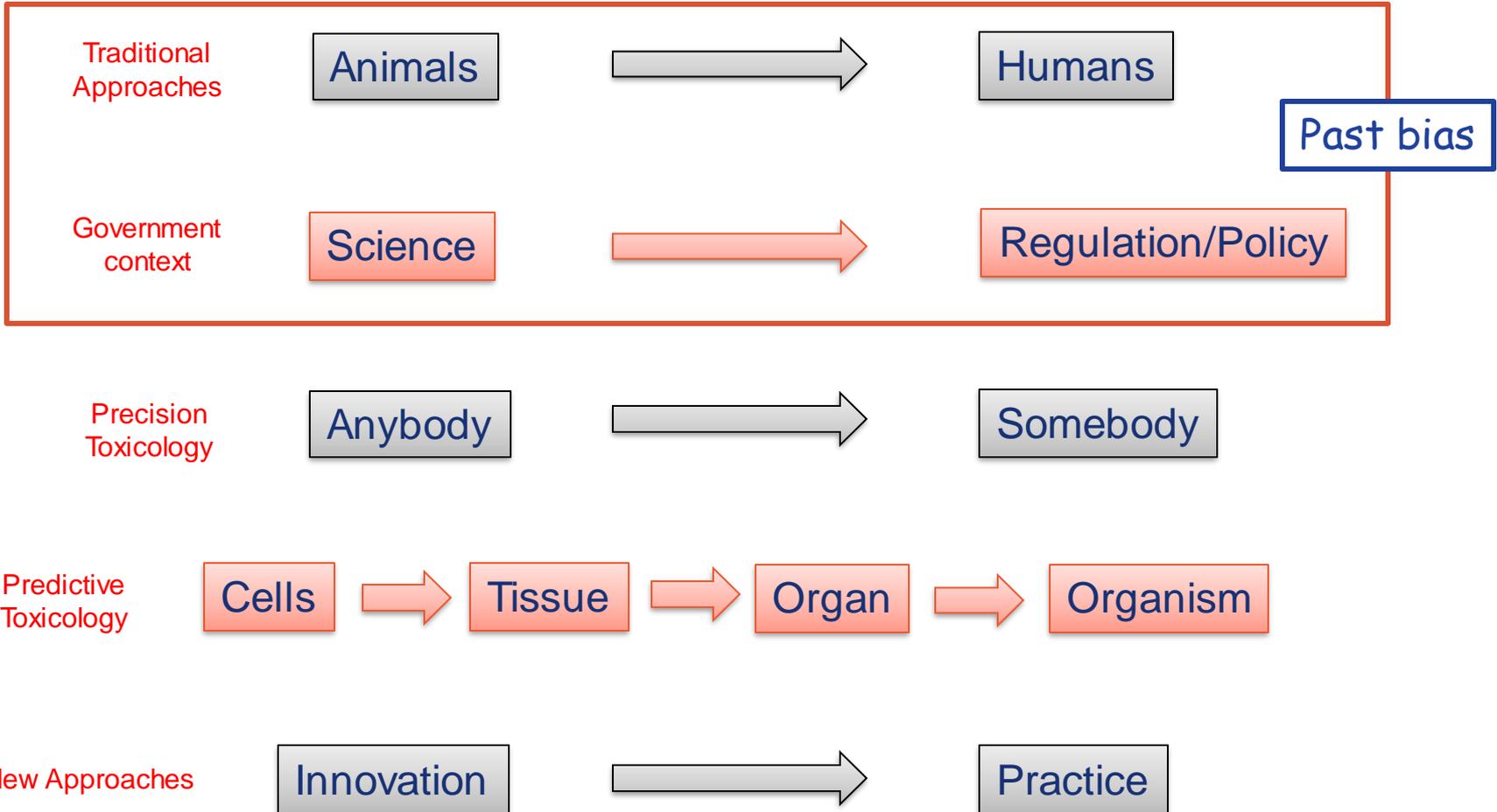


# Translation the NTP Way





# Translation the NTP Way





# Translation the NTP Way

Traditional Approaches

Animals



Humans

Government context

Science



Regulation/Policy

Precision Toxicology

Anybody



Somebody

Future bias

Predictive Toxicology

Cells



Tissue



Organ



Organism

New Approaches

Innovation



Practice



# Translational Agenda

Agenda Item	Presenter
<p>DNTP Strategic Realignment: Translation as a Scientific Framework</p> <ul style="list-style-type: none"><li>• Introduction to Session</li><li>• Translating Science to Support Decisions<ul style="list-style-type: none"><li>○ Overview of Assessing Health Effects Evidence</li><li>○ Literature Scoping and Evidence Mapping Approaches</li><li>○ Integrating Literature Analysis into the Research Pipeline</li><li>○ BSC Discussion</li></ul></li></ul>	<p>Dr. Berridge</p> <p>Dr. Andrew Rooney, NIEHS/DNTP</p> <p>Ms. Vickie Walker, NIEHS/DNTP</p> <p>Dr. Windy Boyd, NIEHS/DNTP</p> <p>Dr. Stevens</p>
<ul style="list-style-type: none"><li>• Overview of Genomic Studies on Rodent Tumors and its Translational Relevance<ul style="list-style-type: none"><li>○ BSC Discussion</li></ul></li></ul>	<p>Dr. Arun Pandiri, NIEHS/DNTP</p> <p>Dr. Stevens</p>
<p>CLARITY-BPA Research Program</p> <ul style="list-style-type: none"><li>• Integration Report Preparation Update<ul style="list-style-type: none"><li>○ BSC Discussion</li></ul></li></ul>	<p>Dr. John Bucher, NIEHS/DNTP</p> <p>Dr. Stevens</p>

# Questions?