

Tox21: A New Strategic Plan for Continued Leadership



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Introduction

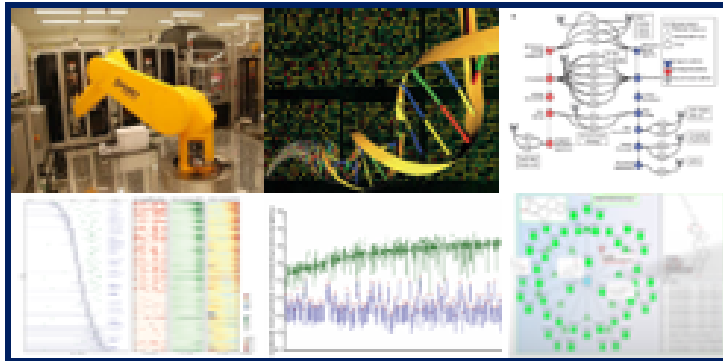


- Tox21 has been a very successful interagency collaboration
 - Thousands of chemicals tested in over 50 relevant pathways
 - Public release of millions of data points
 - Dozens of joint publications
 - Data now being used for regulatory decisions
- Time is right to broaden the focus beyond developing and applying HTS to toxicology to developing toxicology approaches for the 21st century
- Challenge is that the different partners have different missions
 - No single framework
 - No one-size-fits-all approach
- New strategic plan needs to focus on:
 - Key challenges in toxicology in the 21st century
 - Common goals that have substantial benefit in each organization regardless of mission.

Tox21 2017 Strategic Plan

Tox21 Collaboration

A Strategic Plan for Continued Leadership



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Agency Representatives

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Primary Goals for Tox21 in Next 5 Years

1. Develop and deploy alternative test systems that are predictive of human toxicity and dose response
2. Address key technical limitations of current *in vitro* test systems
3. Curate and characterize legacy *in vivo* toxicity studies to serve as a resource for interpreting Tox21 data
4. Develop framework for efficient validation of Tox21 approaches
5. Refine and deploy *in vitro* methods for characterizing pharmacokinetics to increase predictivity and reduce uncertainty

Implementation – Progress to Date

- New Strategic Plan approved
- Infrastructure Projects Started
 - Chemical Library
 - HTS Screening
 - Communications
- Cross Partner Projects - Ongoing
 - *Cross-partner projects will be limited to 3 years terms, driven by specific aims that match primary goals*
 - Partner resource driven
- *More formal and detailed presentation at the upcoming World Congress in Seattle - August 2017*

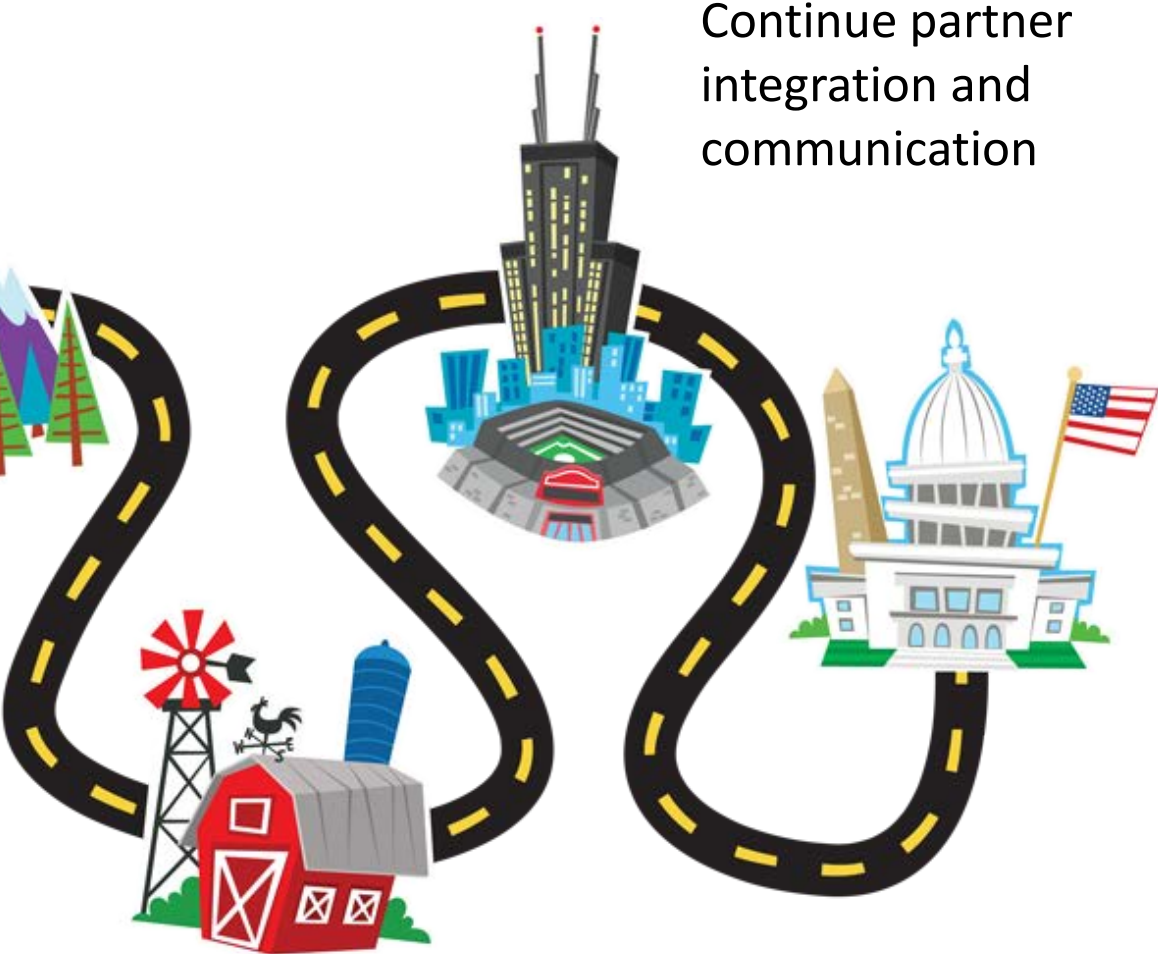


Implementation of the New Strategic Plan

Form New Infrastructure Teams



Adopt New Strategy



Continue partner integration and communication

Move Toxicology into the 21st Century

Develop Cross-Partner Projects

Thank you