Water Sustainability within Overall Sustainability Interests at HESI

ILSI Annual Meeting *Sustainable Water Session*

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January 24, 2012

ILSI Health and
Environmental Sciences
Institute

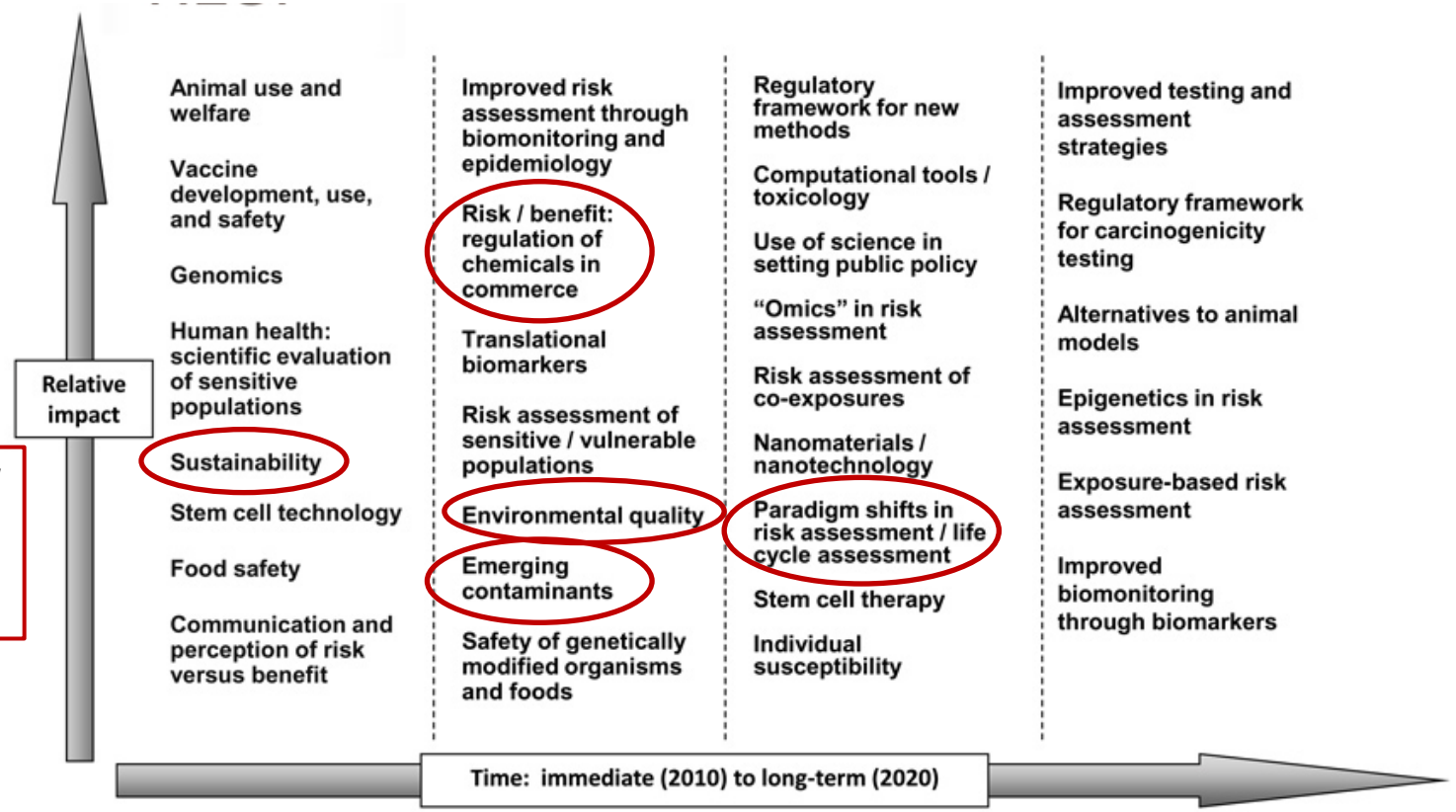
About HESI

- ILSI Health and Environmental Sciences Institute (HESI) (www.hesiglobal.org)
  - Global branch of ILSI
- **Vision:** Creating science-based solutions for a sustainable, healthier world.
- **Mission:** Engage scientists from academia, government and industry to identify and resolve global health and environmental issues.

Sustainability as it Applies to Chemical Products & Processes

- Hazards
  - Human and ecological
- Renewability
- Degradation
- Energy
- Water

HESI Combined Challenges Map 2010-2020



Sustainability/ Water-related Topics

2011 Emerging Issue Selected

- Emerging Issue selected in 2011: **Frameworks for alternative chemical assessment and selection of safer, sustainable alternatives**
  - **First sustainability project for HESI**
- 2012: Supported by HESI for $50,000
- 2013: HESI will match up to $50,000 in funding to support the Subcommittee

Steering Team

Dale Baker	Portola Pharmaceuticals
Robert Barter	ExxonMobil
Pat Beattie	SciVera
Darlene Dixon	NIEHS/NTP
Nancy Doerrer	HESI
Royce Francis	George Washington University
Michael Gonzalez	US EPA
George Gray	George Washington University
Olivier Jolliet	University of Michigan
Teresa McGrath	NSF International
Derek Muir	Environment Canada
Satinder Sarang	Shell Chemicals
Jordi Serratosa	EFSA liaison officer at FDA
Pam Spencer	Dow Chemical Company
Don Versteeg	Procter & Gamble Company
Jennifer Young	HESI

Objectives

- To build understanding of existing approaches used to select safer, sustainable alternatives
- To identify strength, weaknesses & gaps in current approaches
- To identify emerging needs/challenges for the future
- To develop and publish recommendations aimed at improving the successful selection of safer, sustainable alternatives

Moving Beyond Hazard

- Assessment of chemical performance
- Assessment of exposure
- Basis of comparison/assessment
- Data gaps/assessment of data poor chemical substances
- Lifecycle

Sustainability of Water Applied to Chemical Assessment

- Which attributes of water are important for determining sustainability?
  - Reuse/recycling
  - Quality
  - Local/regional impact
- What tools are available to measure progress?

Next Steps

- Development of a work plan
- Evaluation of existing frameworks
- Face-to-face meeting in February 2012
- Development of workshop during 2012
- Publication of workshop proceedings