



USING THE 2010-2020 HESI COMBINED CHALLENGES MAP IN EMERGING ISSUE PROPOSAL SUBMISSION

The following information is provided as a supplemental tool for identifying emerging issues for HESI consideration. You are encouraged to examine the 2010-2020 HESI Combined Challenges Map (attached) as a mechanism for stimulating proposal ideas. Proposals may supplement issues already identified on the Map or may represent issues not included on the Map. All recommendations will be considered on their merits.

BACKGROUND

In July 2009, a tripartite group of scientists and regulators from Australia, Europe, Japan and the US convened in Reston, VA, to identify health and environmental issues of scientific, regulatory, and societal importance during the next decade. The purpose of the exercise was to predict issues likely to present significant and relevant challenges to HESI in the future, as well as to inform the strategic agendas of individual companies and regulatory authorities in the developed world. The results of a January 2009 HESI scientific mapping exercise in Hamamatsu, Japan, also were included in the July meeting to ensure integration of tripartite input from the organization's Japanese colleagues

The process for developing the 2010-2020 HESI Combined Challenges Map was similar to that used for the development of the 2004 HESI map.¹ Well in advance of the July 2009 meeting, HESI solicited broad input on issues of potential interest from its extensive list of key contacts. Over 100 issues were received, which were then "clustered" in advance of the meeting to reduce duplication and overlap. During the meeting, tripartite breakout groups met to prioritize the topics, assess impact and timing, and, finally, identify those topics of highest priority and impact to HESI as an organization over the next decade. The attached map is the final result of this recent mapping exercise.

UTILITY OF THE HESI SCIENTIFIC MAP

Since the first mapping exercise in 2004, the resulting maps have contributed significantly to HESI's strategic planning, and enabled the organization to apply its limited resources to priority scientific issues in a relevant and timely way. Integration of the HESI Combined Challenges Map and stewardship of the HESI scientific portfolio remains a work in progress for the organization.

¹ Smith LL, Brent RL, Cohen SM, Doerrer NG, Goodman JI, Greim H, Holsapple MP, Lightfoot RM. (2008). Predicting future human and environmental health challenges: the Health and Environmental Sciences Institute's scientific mapping exercise. *Crit Rev Toxicol* 38, 817-845.

2010-2020 HESI Combined Challenges Map

