



# **Chemical Assessment and Management Program (ChAMP)**

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# North American Cooperation on Chemical Management

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- At Security, Prosperity and Partnership (SPP) Summit in August 2007, President Bush, Canadian Prime Minister Stephen Harper and Mexican President Felipe Calderon committed to specific goals to:
  - Enhance regulatory cooperation among Canada, Mexico, U.S.
    - Accelerate and improve effectiveness of actions to safeguard health and environment
    - Provide cost-effectiveness for business and government
    - Retain national regulatory authority

# SPP Commitments

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- Regional Commitments
  - Canada & U.S. work with Mexico to establish, by 2020, a Mexican chemical inventory, Inventory updates, strengthened North American chemical regime
  - Research and development on new approaches to testing and assessment.
    - EPA and Canadians have begun collaborating
  - Create mechanisms to share domestic scientific information and best practices for chemical assessment and management. Coordinate approaches to develop international standards.
  - Enhance Mexico's capacity for chemical assessment and management
  - Reaffirmed: WSSD 2020 goal; Regional SAICM implementation

# SPP Commitments

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## ○ National Commitments

- U.S.: Assess and initiate needed action on 6,750 chemicals
- Canada: Realize its Chemical Management Plan
- Mexico: Establish a chemical inventory

# Chemicals Assessment and Management Program (ChAMP)

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- New title encompasses U.S. SPP commitments and possible enhancements to EPA's existing chemical program which include:
  - HPV Challenge type program for high production volume "inorganic" chemicals
  - Resetting the TSCA Inventory

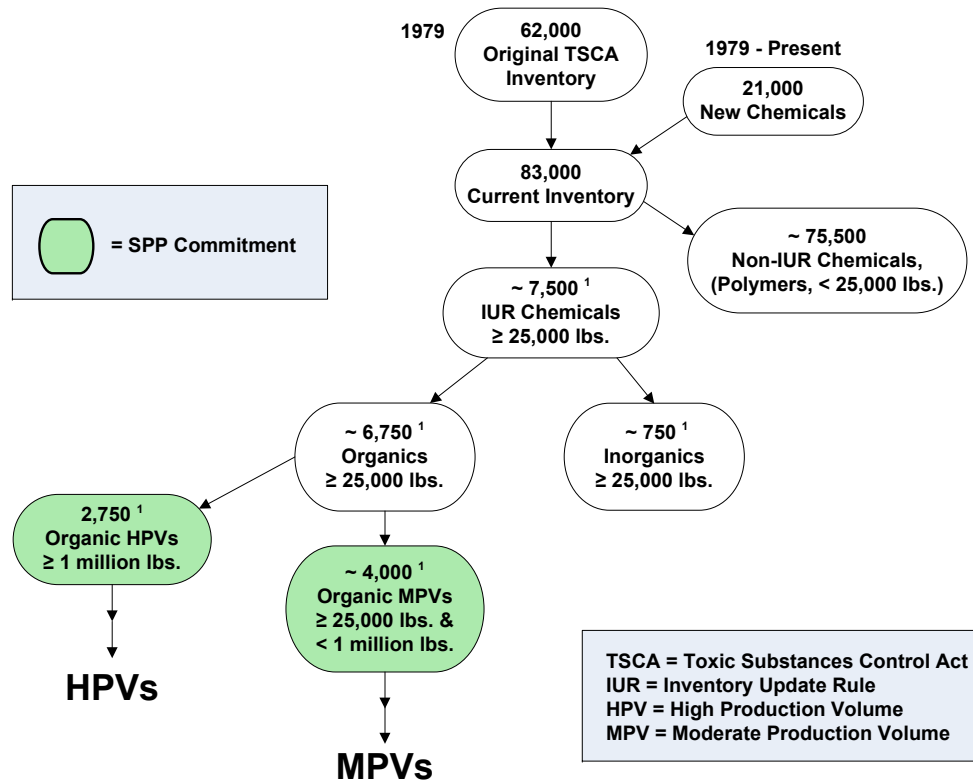
# U.S. Commitments Under SPP

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- By the end of 2012:
  - Assess and initiate needed action on the over 6,750\* existing chemicals produced above 25,000 lbs/yr the U.S.
  - Includes High Production Volume (HPV) and Moderate Production Volume (MPV) chemicals
    - Includes work under U.S. HPV Challenge
    - MPV work builds off Canadian categorization effort
  - Make and publicly release screening level decisions and initiate needed action

\*Based on preliminary statistics from 2006 IUR Data

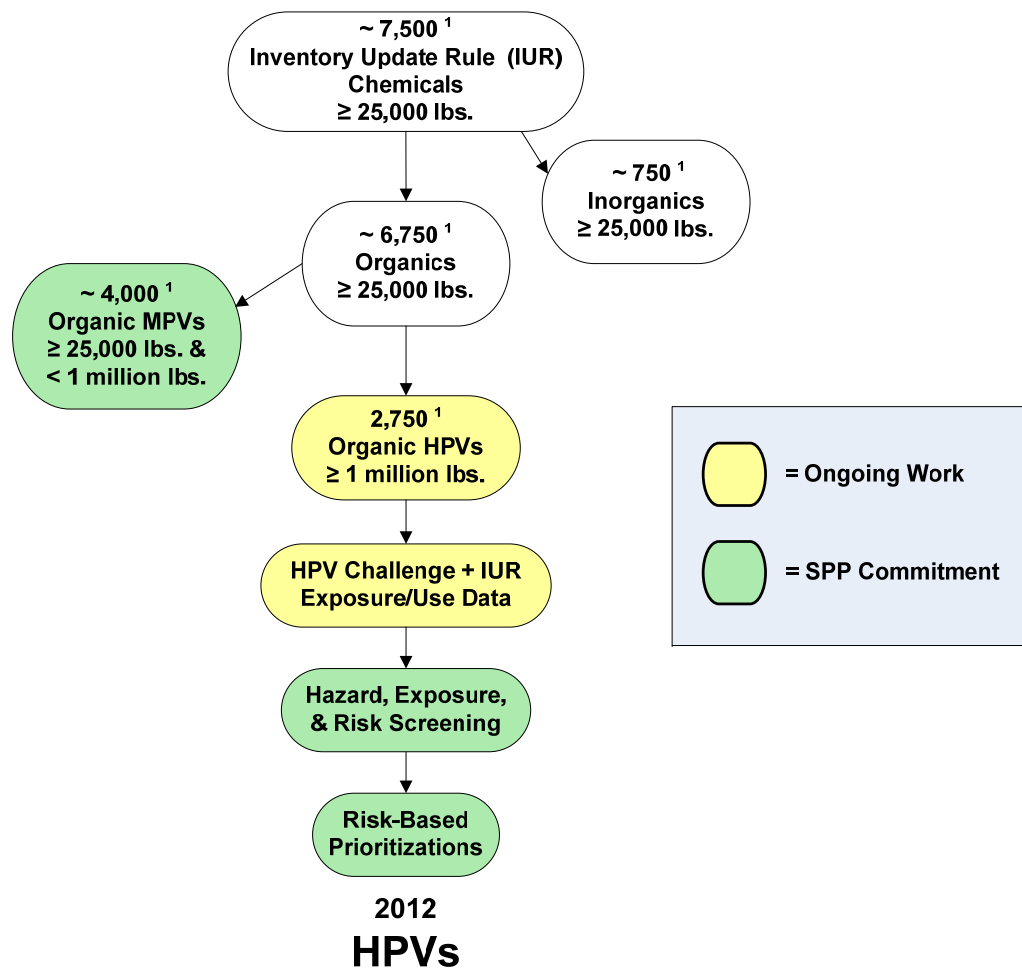
# U.S. SPP Commitments



<sup>1</sup> Statistics are based upon preliminary 2006 IUR data; the actual numbers may change slightly when official statistics are available.

**Note:** The 2006 IUR introduces new reporting thresholds.

# U.S. SPP Commitments: HPV Chemicals



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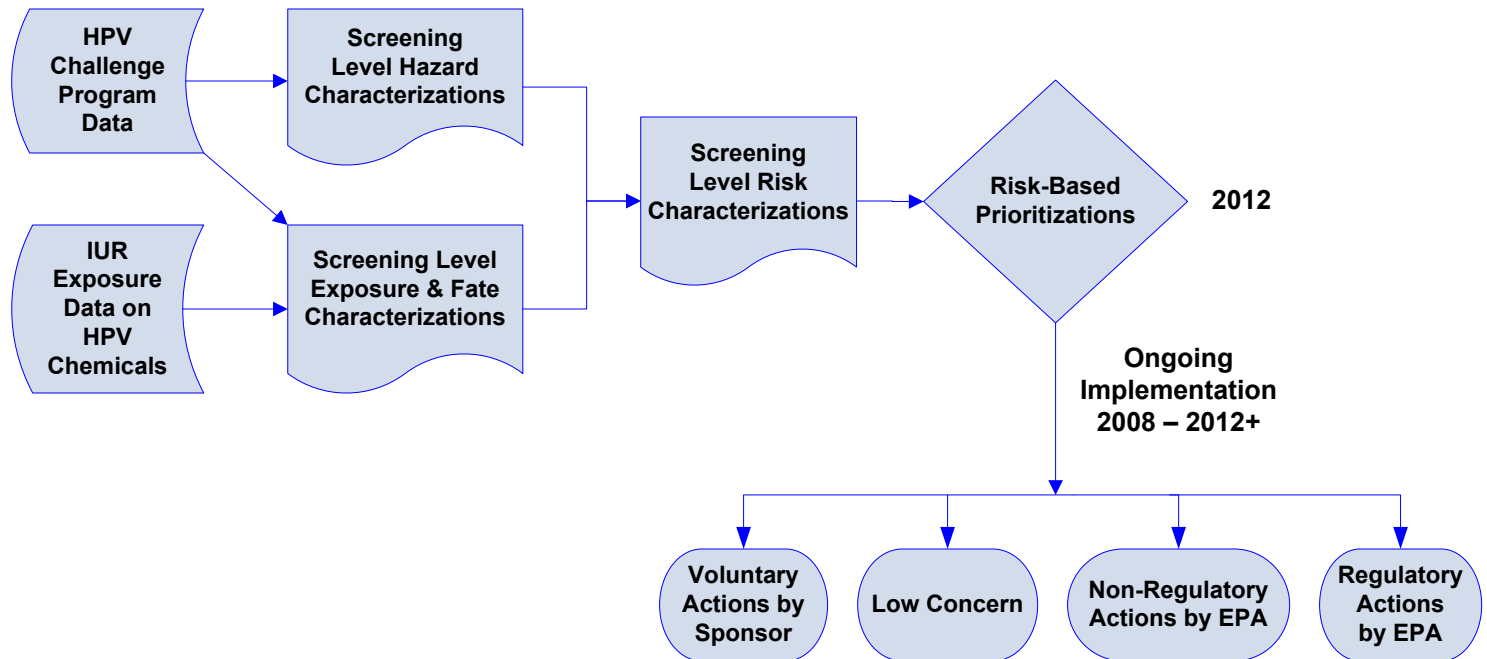


# Screening Decision Process – HPV Chemicals

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- Assess and prioritize HPV chemicals (1 million lbs/yr) based on hazard/exposure information
  - HPV Challenge test data
  - IUR Exposure/use reporting
- Evaluate Risks
- Identify and initiate needed action
  - Gather/generate needed information
  - Take control measures
  - Identify as current low priority and set aside
- Document and post assessments and conclusions on the web

# Taking Action on HPV Chemicals: Risk-Based Prioritization Process



\* The first 200 Hazard Characterizations on HPV chemicals have been posted to EPA's website. The first set of Risk-Based Prioritization documents will be posted soon.

# Tools to Implement Risk-Based Prioritizations (RBPs)

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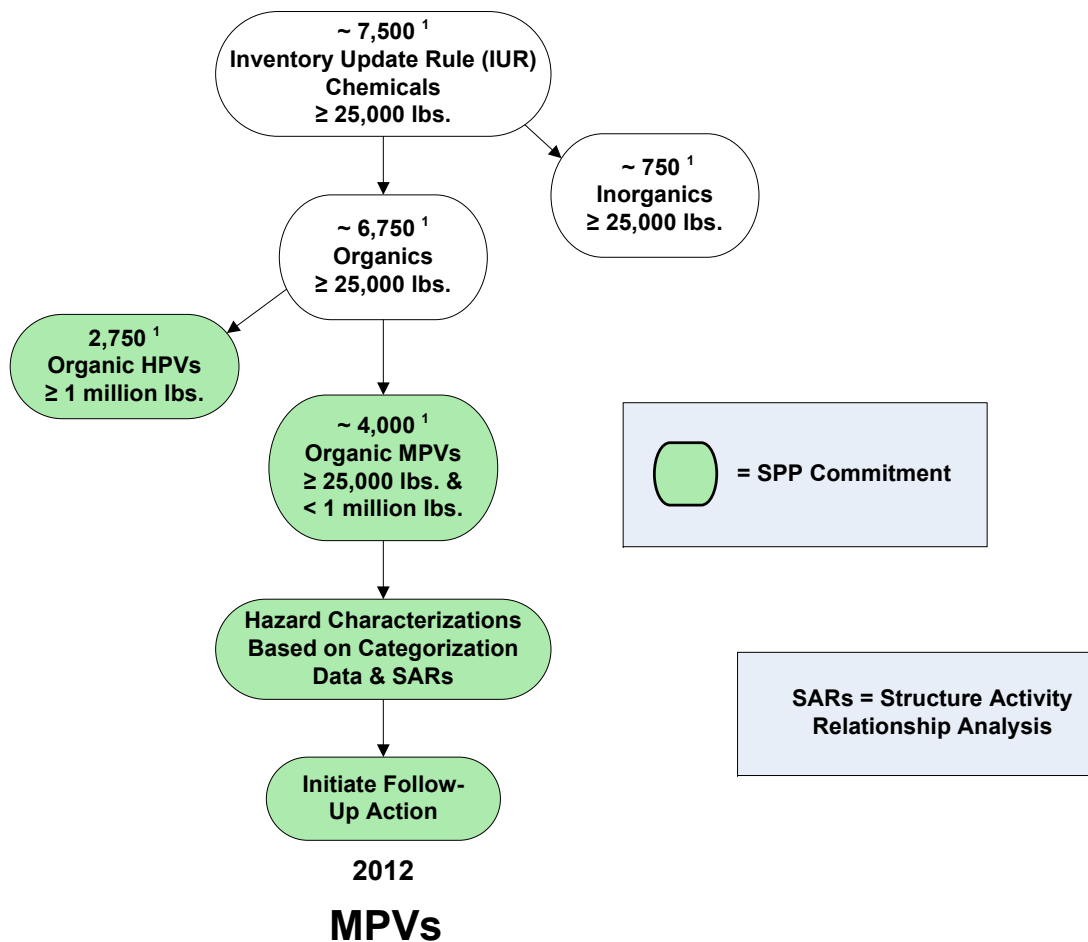
- Where identified as low-concern at this time:
  - Document initial prioritization rationale and post to web
- Where additional info or action is needed, the options include:
  - Contact producers with request for info, informal action
  - Data from other offices, Canada, OECD
  - TSCA §8(a) reporting rules (e.g., exposure, release data)
  - TSCA §5(a)(2) Significant New Use Rules (SNURs)
  - Engage with stakeholders (e.g. DfE, voluntary action, etc.)
  - TSCA §4 test rules
  - Develop/implement Challenge programs, other risk reduction actions
  - Initiate creation of TSCA §5(b)(4) list

## Section §5(b)(4) “Risk List”

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- Chemicals with risk concerns could be considered for Sec. 5(b)(4) risk list
  - Requires rulemaking and minimum of a *“may present an unreasonable risk”* finding;
    - may be possible with HPV and IUR data
  - Risk list approach could provide incentive for stewardship

# U.S. SPP Commitments: MPV Chemicals



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Note: The 2006 IUR introduces new reporting thresholds.

# Screening Decision Process – MPV Chemicals

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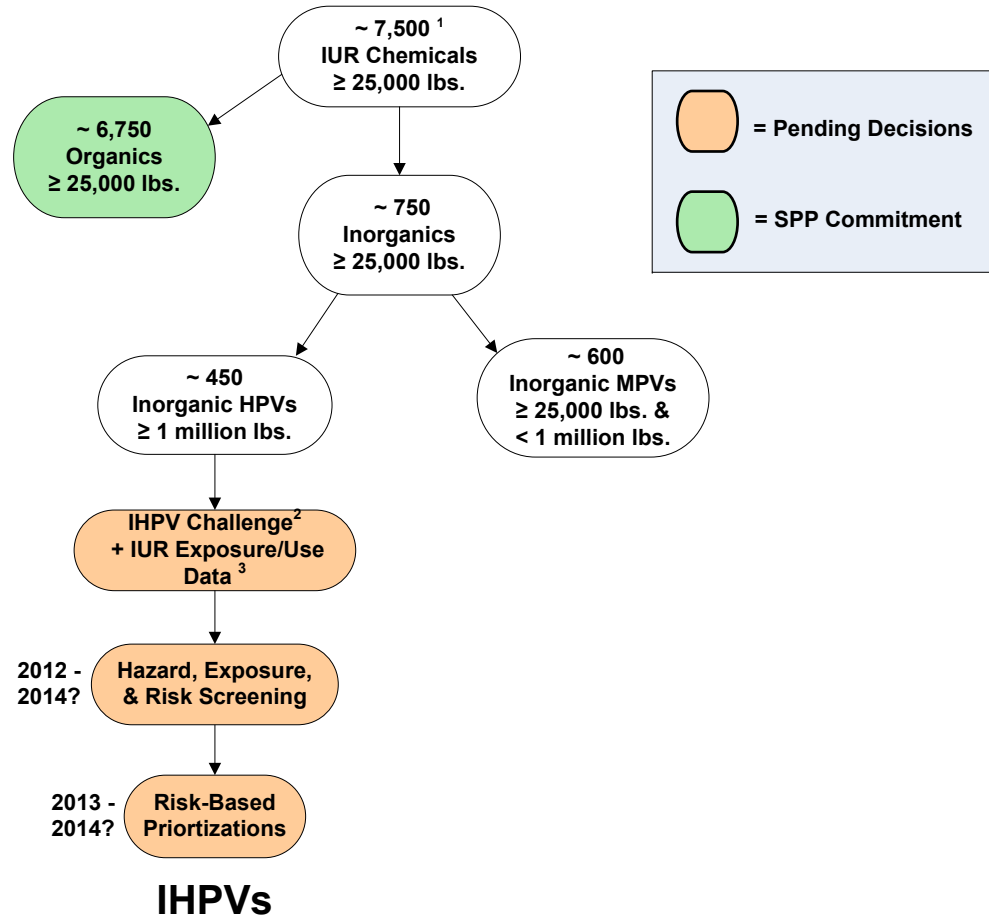
- Developing approach to assess MPV Chemicals
  - Produced or imported at quantities  $\geq 25,000$  lbs/yr and  $\leq 1$  million lbs/yr.
  - Apply available data, Canadian categorization results, and EPA Structure Activity Relationships (SAR) analysis to assess hazard and fate.
  - Basic exposure/use data are available only for MPVs produced at  $\geq 300,000$  lbs at a site
  - Use Hazard Characterizations (HCs) to identify MPVs that require follow-up, initiate actions
    - Gather additional data (exposure, testing, etc.)
    - Risk management
- Document and post assessments and conclusions on the web.

# Meeting the SPP Goals

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- 2007
  - Developed process for screening-level Hazard Characterizations (HCs) and Risk Characterizations (RCs), and Risk-Based Prioritizations (RBPs) on HPV chemicals
  - Posted over 150 HCs
- 2008
  - Posted additional 50 HCs in January
  - Posted initial set of 19 RBPs in March
  - Continue developing and posting RBPs
  - Post initial MPV HCs
- 2009
  - Continue posting RBPs for HPV chemicals and significantly ramp up posting MPV HCs

# Program Enhancements: Inorganic HPV Chemicals



<sup>1</sup> Statistics are based upon preliminary 2006 IUR data; the actual numbers may change slightly when official statistics are available. **Note:** The 2006 IUR introduces new reporting thresholds.

<sup>2</sup> Implementation of an IHPV Challenge program would take 3 to 4 years

<sup>3</sup> Inorganics IUR exposure/use reporting occurs in 2011.



# Program Enhancements – Inorganic HPV Challenge

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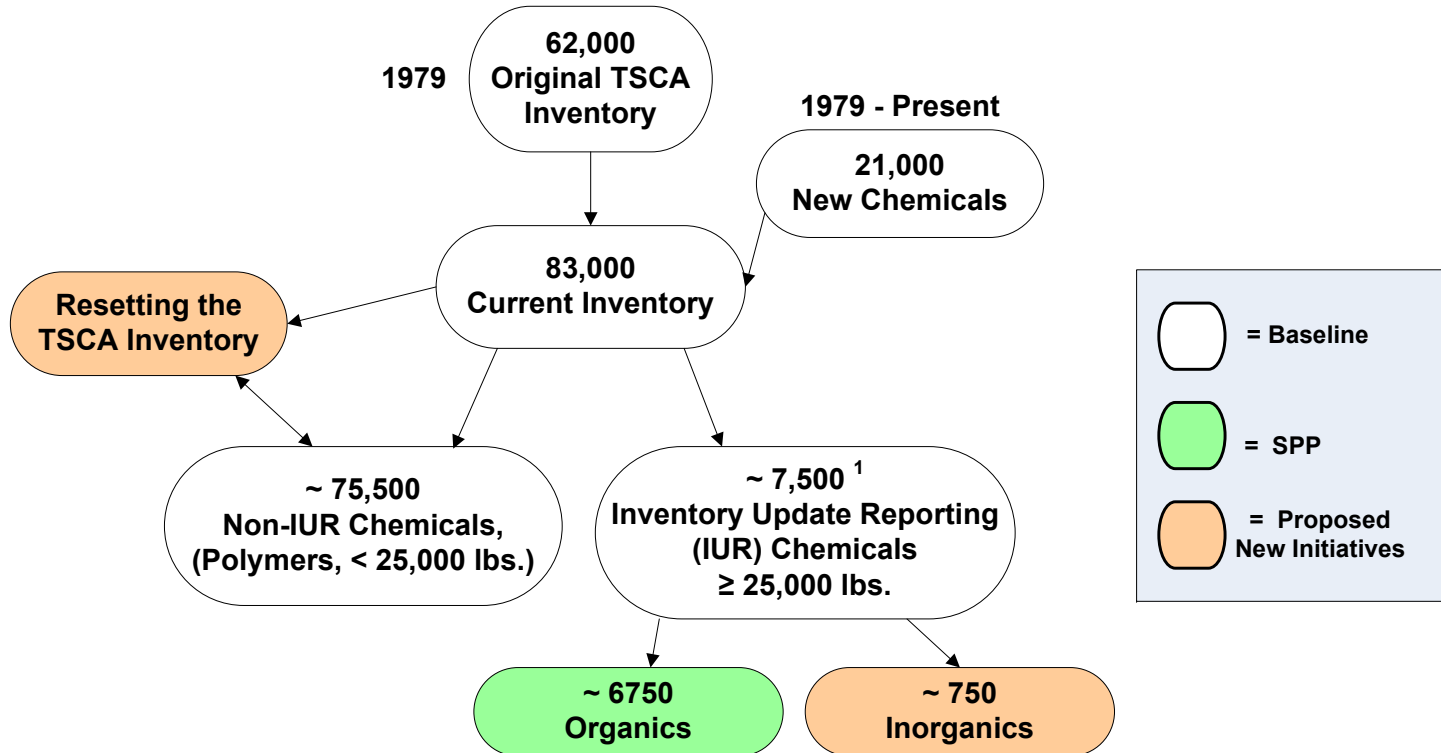
- Inorganics first included on IUR in 2006; no exposure data reporting until 2011
  - EPA estimates that there are likely to be between 400 and 500 HPV inorganic chemicals reported
- EPA considering IHPV Challenge Program Mirroring HPV Challenge Design
  - Identify and work with stakeholders to develop program/process/timing.
  - Apply established EPA, OECD guidance to determine inorganics data needs
- Assess, priority, and initiate needed action on IHPV chemicals (2012-2014)

# Program Enhancements – Resetting the TSCA Inventory

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- TSCA §8(b) requires EPA to “compile, *keep current*, and publish” TSCA Inventory”
- Inventory’s “83,000 chemicals” are misleading
  - Likely that many chemicals are no longer manufactured/imported; or
  - Are produced only in low or episodic volumes

# Program Enhancements: Resetting the TSCA Inventory



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**Note:** The 2006 IUR introduces new reporting thresholds.

# Program Enhancements – Resetting the TSCA Inventory

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- EPA will engage stakeholders on regulatory options for making the TSCA Inventory:
  - Better reflect the chemicals in commerce in the U.S.
  - A more meaningful and useable resource

# Stakeholder Engagement

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- EPA will seek input from a wide range of partners and stakeholders
  - Series of meetings and discussions over March through June period
  - Focus meetings, webinars, pre-established conferences/meetings
  - Industry, NGOs, States and Tribes, Federal Partners
- EPA goal is to provide feedback to Administrator this summer and possibly begin implementing program enhancements by the end of summer.



# Relationship to Work by the Commission on Environmental Cooperation

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- CEC's Sound Management of Chemicals (SMOC) work group has worked for over a decade to deal with individual chemicals issue in North America
- SMOC is now focused on regional implementation of the Strategic Approach to International Chemicals Management (SAICM) in NA
- The SPP regional and national commitments provides another avenue to complement SMOC's efforts and realize progress

# Relationship to Work by CEC/SMOC

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- SMOC has agreed to four major areas for its work:
  - Establish a foundation for chemicals management across North America: Mexican Inventory
  - Develop and implement a sustainable regional approach to monitoring, including biomonitoring: Mexican PRONAME initiative
  - Reduce the risk from chemicals of mutual concern to North America: NARAP chemicals and PBDEs
  - Improve the environmental performance of sectors

\*North American Regional Action Plan (NARAP) chemicals include PCBs, mercury, chlordane, DDT, dioxins/furans, etc.

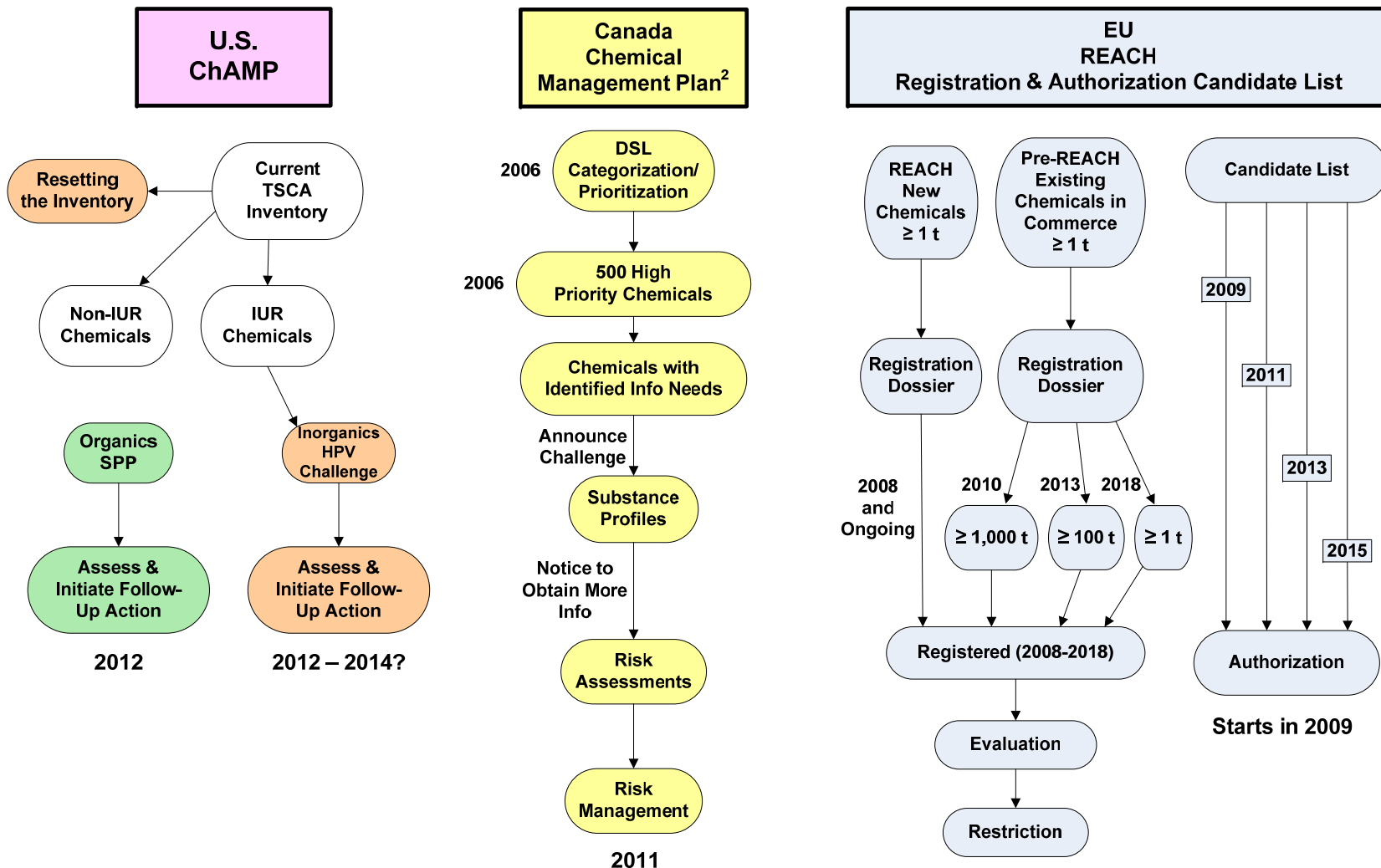
# Timing of Actions Under SPP and Their Relationship to Timing Under REACH

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- Parallel schedules for priority chemical assessments should allow U.S. and Canada to share/coordinate timing of data and assessments and follow-up action, where appropriate
- Because the REACH 1<sup>st</sup> registration deadline (HPV chemicals) is Dec. 2010 and the 1<sup>st</sup> authorization candidate list is expected in late 2008, REACH submitters and evaluators will benefit from U.S. and Canadian work
- REACH registration dossiers can meet future follow-up testing needs for U.S. HPVs/MPVs and IHPVs
- Schedule for completion of North American assessment work (2012) compares favorably to timing of REACH registration schedule (2010-2018)
- U.S. (EPA), Canada (Environment and Health Canada) and EC (DG Environment, DG Enterprise, and European Chemical Agency) officials met in December 2007 to begin consideration of future cooperation and staff exchange opportunities



# Comparing U.S., Canada, and EU Approaches

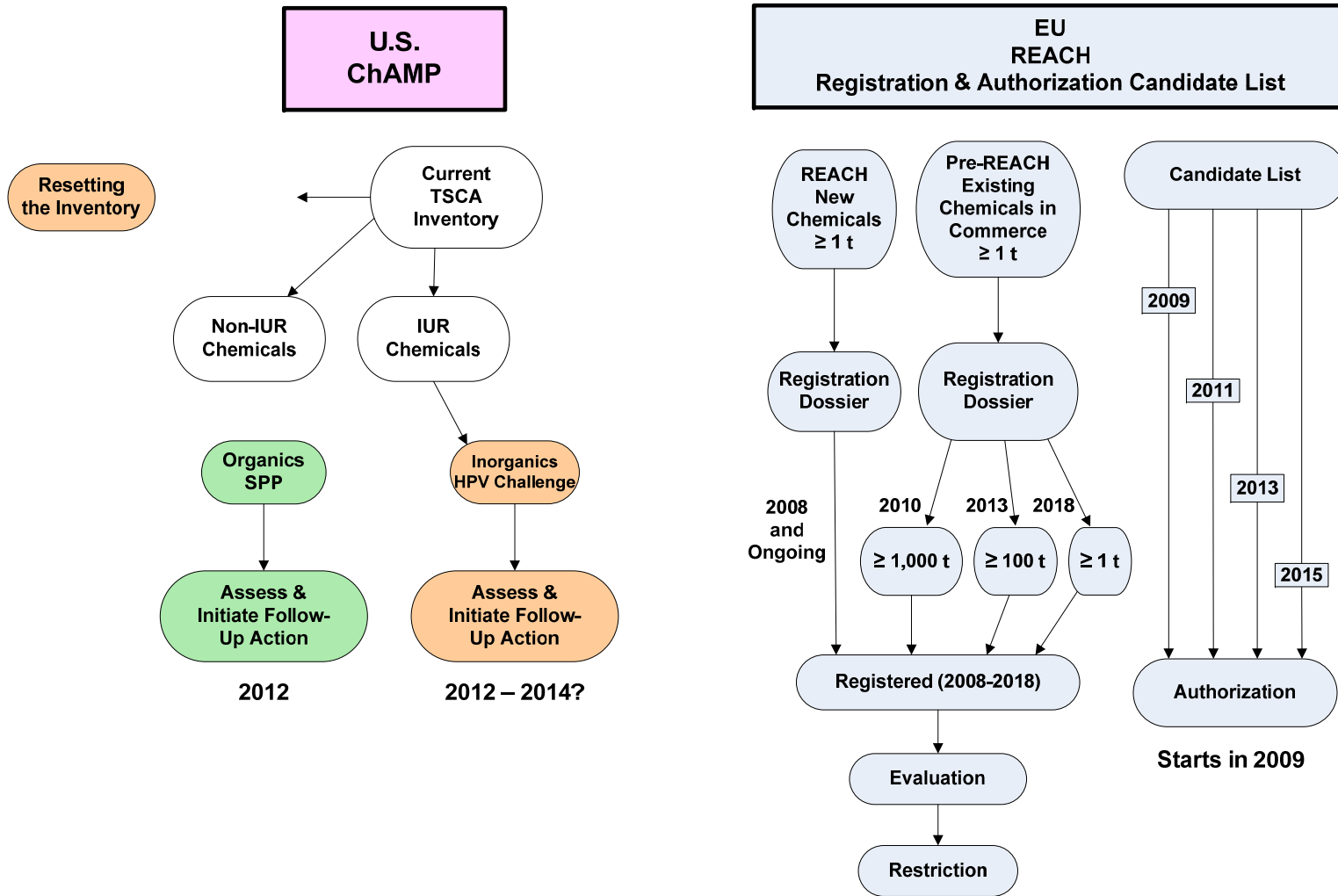


<sup>1</sup> DSL = Canadian Environmental Protection Act Domestic Substances List

<sup>2</sup> Other aspects of the CMP are not shown on this figure.

1,000 t = 2.2 M lbs.; 100 t = 220k lbs.; 1 t = 2.2k lbs.

# Comparing U.S., Canada, and EU Approaches





# Thank you

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For more information, please visit  
EPA's Chemical Assessment and  
Management Program (ChAMP)  
website:

<http://www.epa.gov/champ/>