

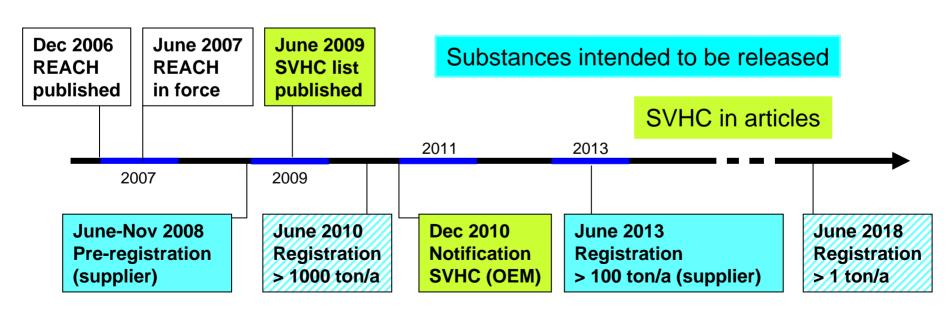
REACH: Staying ahead of the regulation curve

Mark Newton, Dell Sustainability April, 26 2007



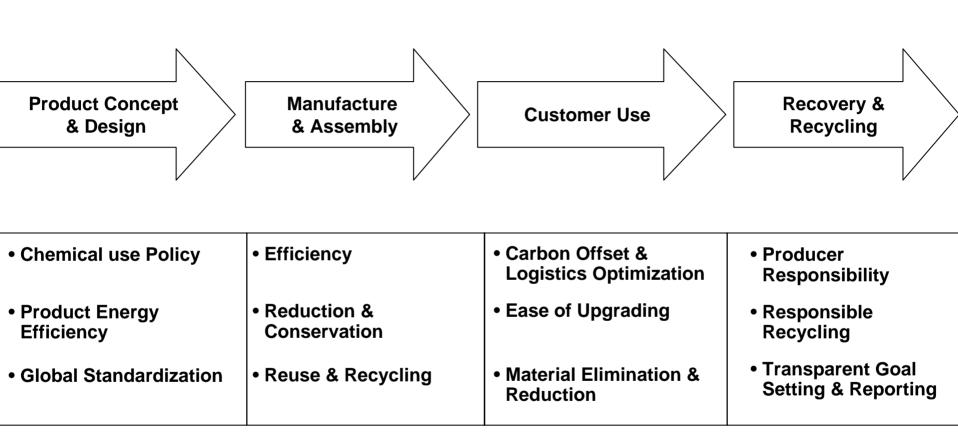
Key Milestones: Obligations under REACH

- 1. Pre-registration of substances between June 1st 2008 and November 30th 2008 (done by our suppliers)
- 2. Notification and Information of SVHC contained in products above 0.1% to customers by December 1st 2010. (done by us)
- 3. Registration of substances until June 1st 2013 (done by suppliers).





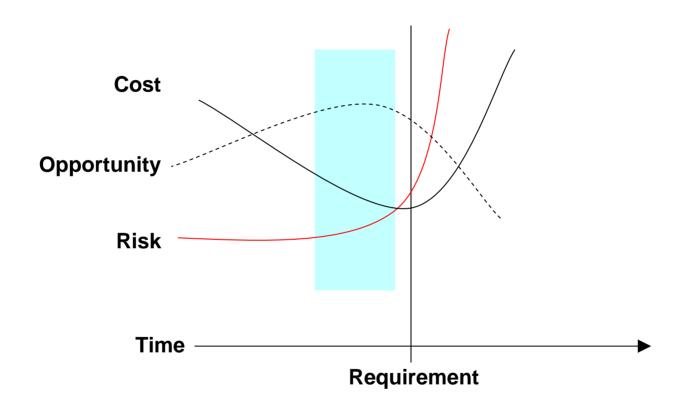
Lifecycle Thinking: A Global Commitment



Integrated initiatives, worldwide execution



Staying ahead of the curve: Business Imperative





Staying ahead of the curve - Materials Management

Precautionary approach to product chemical content

Requirements are based on known and anticipated risks

Global standards

 All Dell products must meet one global restricted materials standard. Example is RoHS.

Supply chain management

Informed decisions with respect to substitution.

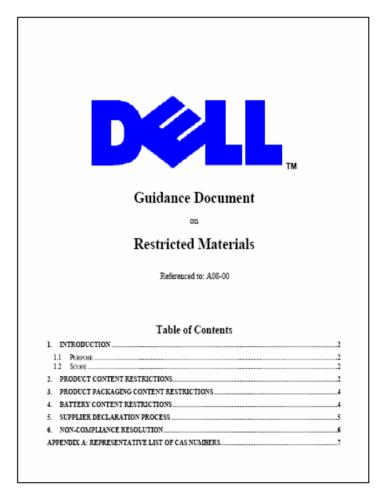
Continued open dialogue with key stakeholders

 Critical for identifying next challenges: government, customers, suppliers, competitors, academia and NGOs



Staying ahead of the curve: Supply Chain Management

- Engineering specifications and contracts
 - Include compliance thresholds and;
 - potential exemptions
- Declarations of conformity for each part
 - Separate part numbers
 - Labeling requirements
- Declaration of conformity at system level
- Analytical test audits of components





Backup



Subtances of Very High Concern (SVHC)

Substances of very high concern are:

- carcinogens (category 1 and 2)
- mutagens (category 1 and 2)
- substances which are toxic to reproduction (category 1 and 2)
- persistent, bio-accumulative and toxic substances (PBTs),
- very persistent and very bio-accumulative substances (vPvBs)
- substances identified from scientific evidence as causing equivalent concern to those mentioned above, for example substances which disturb the hormone system (endocrine disruptors)

There are currently about 900 substances of very high concern It is expected that REACH will identify another 600 SVHCs the next 11 years.

REACH will therefore address about 1500 substances of very high concern.



SVHC for IT sector

Known Substances of very high concern relevant to the IT industry include:

- Beryllium
- Chrome VI
- Zinc
- Arsenic
- Cadmium
- Mercury
- Lead
- Benzo[a]pyrene (PAH)
- Vinyl chloride
- Phthalates
- Acrylonitrile
- Carbon Black
- Organo-tin compounds
- TBBPA?

