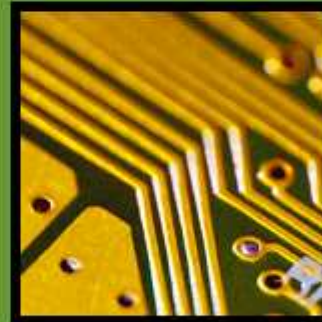




Global Overview Environmental Regulations and Standards

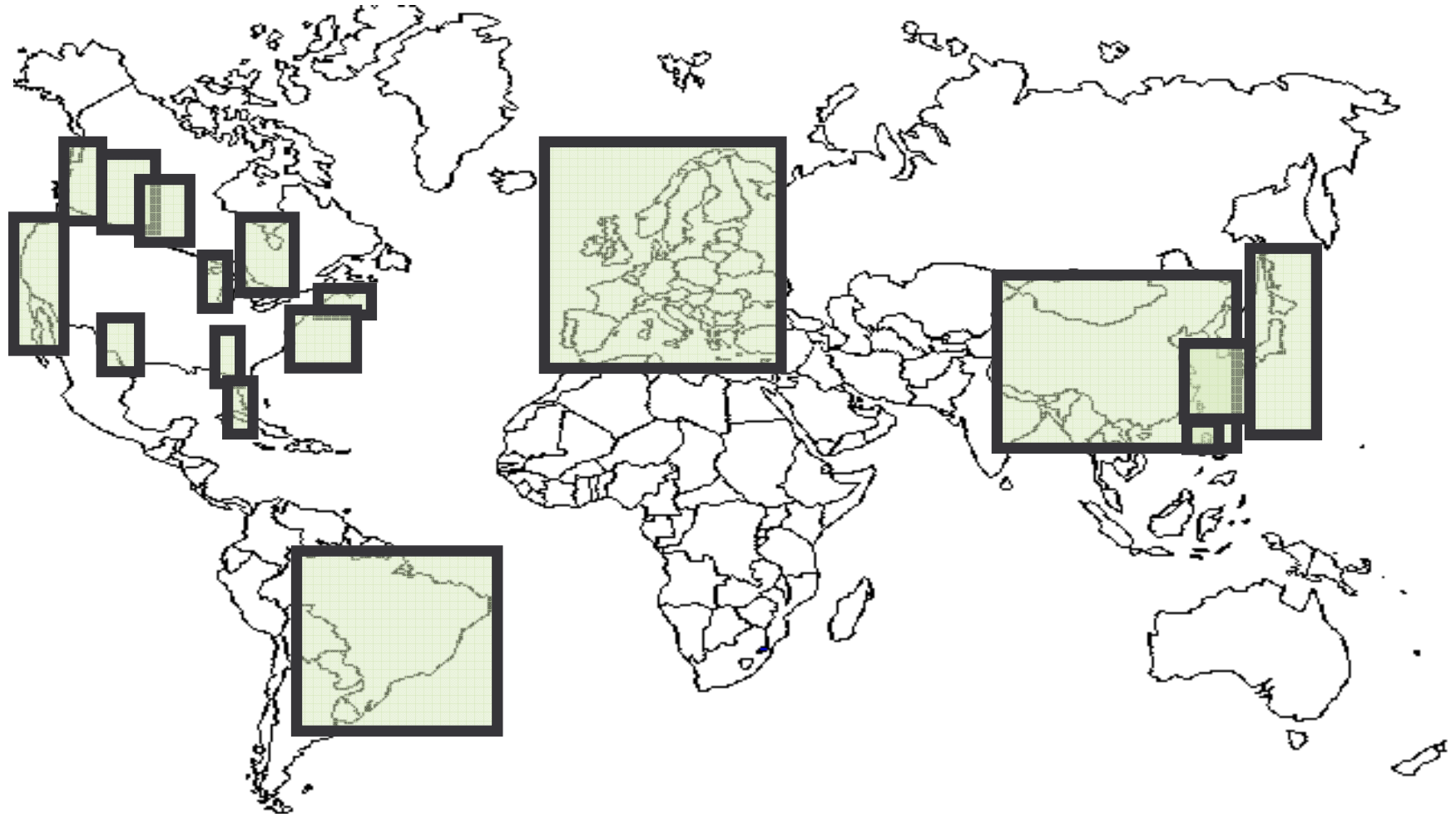
March 2007



move^{to}
green



Substance and e-Waste Legislation





Scope – Environmental Regulations and Standards

- >100 jurisdictions putting into place environmental legislation or standards affecting electronic products
- Over 200 separate legislations or industry standards



Other global legislative requirements

- Korea
 - Korea RoHS and WEEE
 - Jan 1st 2008
- US and Canada
 - State by state basis
 - E-Waste
 - RoHS
 - Packaging
 - Batteries
- EU
 - Packaging
 - Battery
- REACH
 - Comprehensive chemical registration and reporting regulation in the EU.



REACH

- Significantly broader scope than RoHS
 - Consolidates and appends over 40 legislations
 - Ten of thousands of chemicals
 - Legislation is >800 pages
 - Initial FAQ is 37 pages
- Main details
 - Chemical registry
 - Chemical documentation
 - All chemicals included (very few exemptions)
 - Includes finished articles (products)



Other global industry requirements

- EPEAT
 - US computer environmental standard
 - Used as mandatory environmental requirement for sales to the US government (and a number of other institutional organizations)
- Walmart Packaging Scorecard
- Japan Green (JGPSSI)
- Total Material Declaration
 - Declaration of 100% of materials in a product



Japan Green

- Industry Requirements
 - Product material declaration
 - Used by NTT Do Co Mo, Nokia, Sony, Hitachi, and many more
- Particular format of ppm and exemption data
 - RoHS and Joint Industry Guide (JIG) chemicals
 - 378 chemicals
- Many of the above companies are including Japan Green and related material declarations in their T&C's for new purchases



Summary

- Environmental Requirements for Electronics
 - Increasing in number
 - More requirements
 - More places
 - Evolving in scope
 - More products
 - More requirements
 - Increasing in demand
 - Legislative demand
 - Customer demand