

US Electronics Legislation



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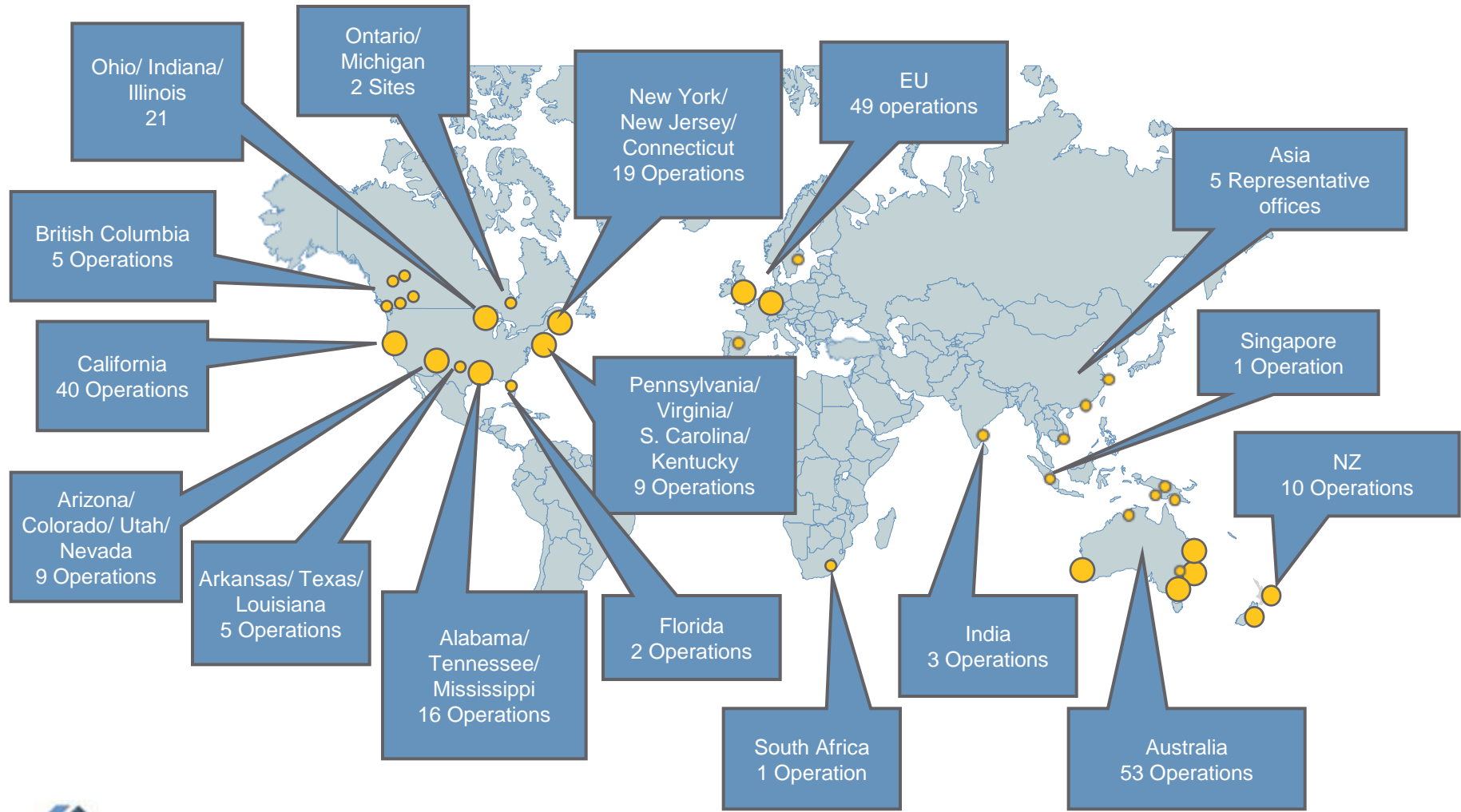
Agenda

- Introduction to Sims Recycling Solutions
- US Federal Regulations
- State Regulations
- Lessons Learned

Sims Recycling Solutions - Global Overview

- The world's largest electronics recovery and recycling company
- Over 2000 employees
- +500,000 tonnes of Electronics processed
- Many facilities “multi-service”:
- Circa 2million individual assets recovered for reuse / year
- Over 15m individual Integrated Circuits recovered
- Exposure to many differing legislative models

Sims Metal Management: 250+ Locations



Sustainable Recycling

MOST SUSTAINABLE CORPORATIONS



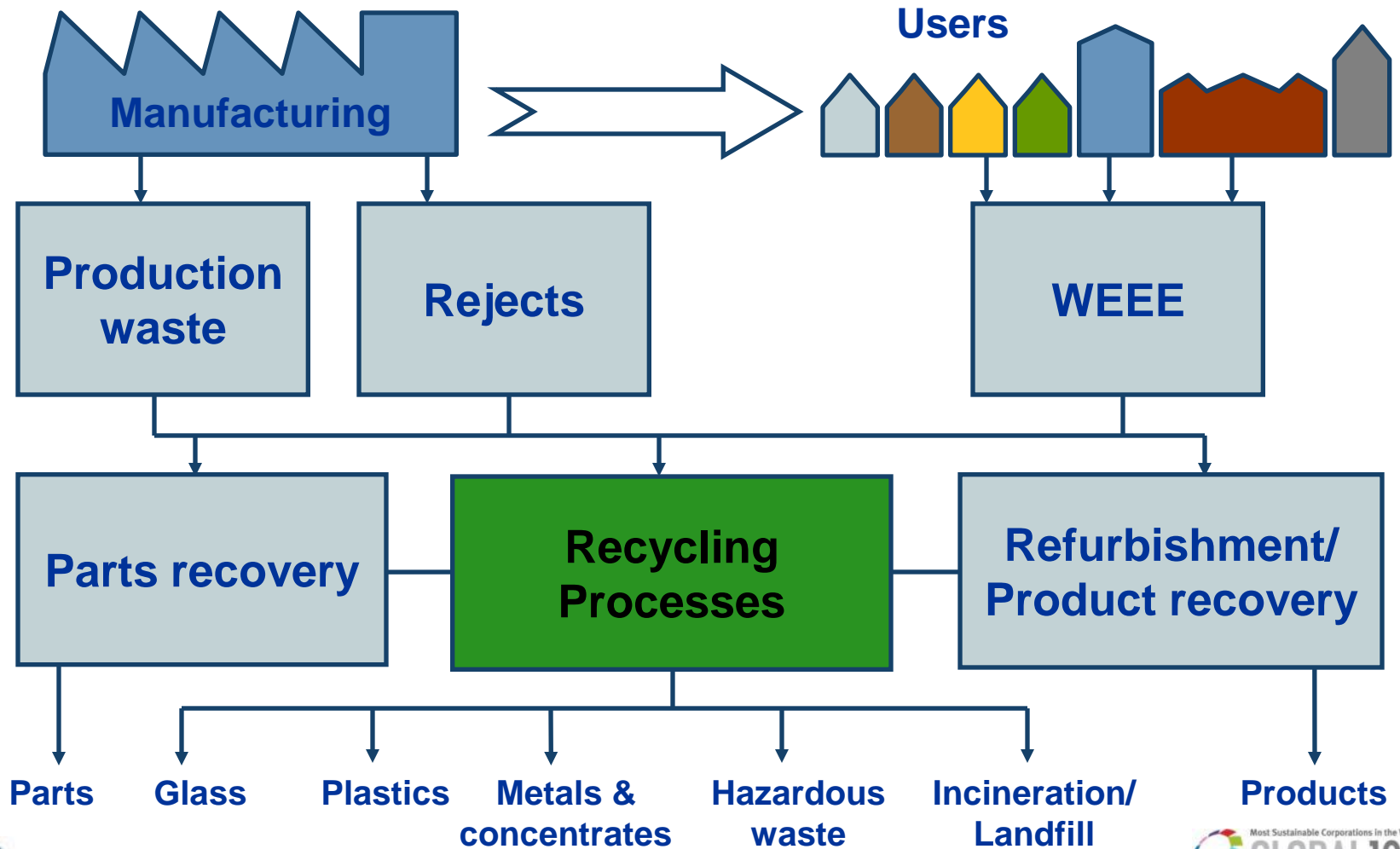
GLOBAL 100

DAVOS 100 MOST SUSTAINABLE CORPORATIONS 2009, 2010, 2011, 2012, 2013 WINNER

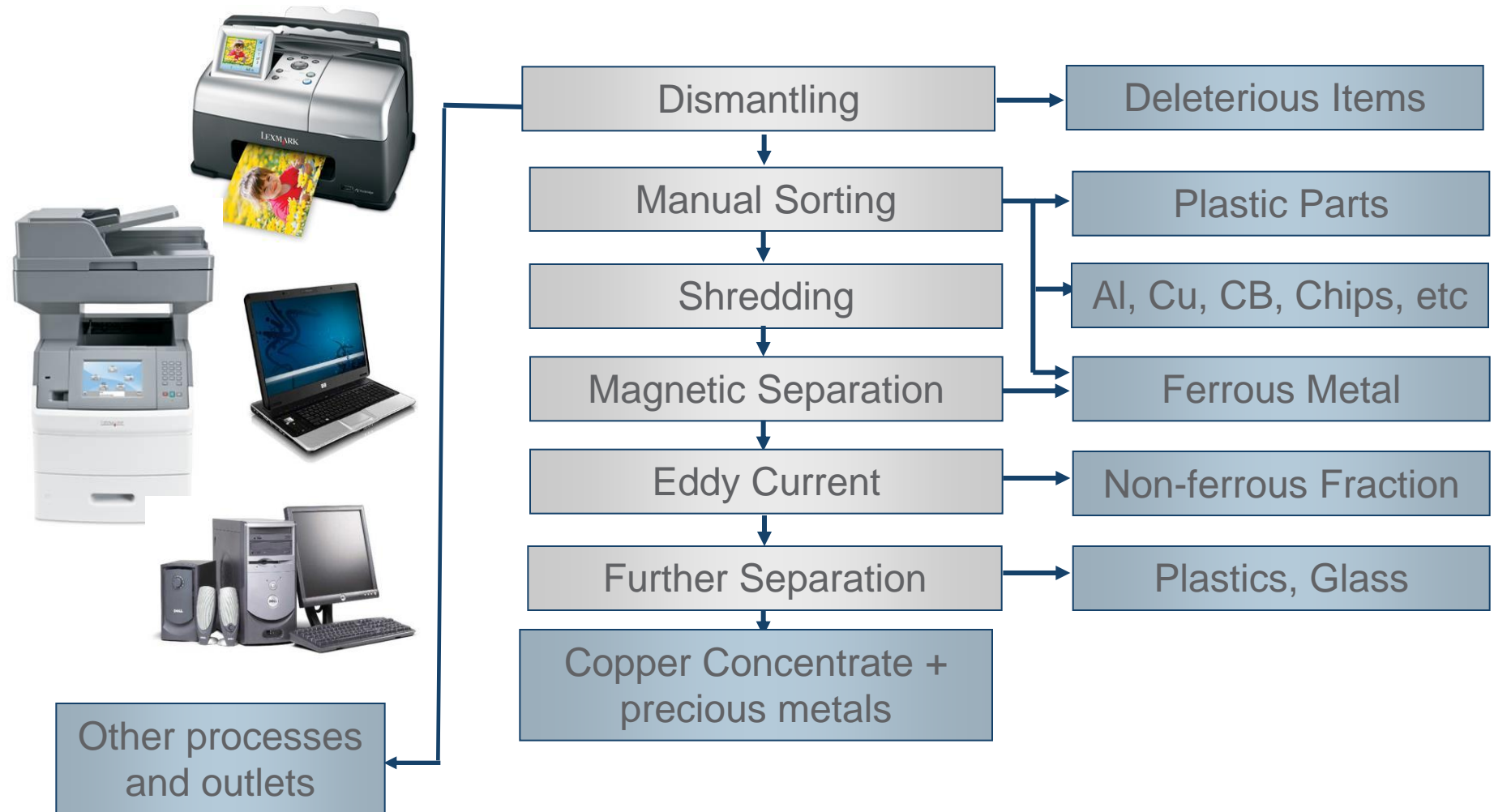
- The Global 100 is a list of publicly-traded, MSCI World-listed companies that, based on research and analysis by Innovest Strategic Value Advisors, have the best developed abilities, relative to their industry peers, to manage the environmental, social and governance (ESG) risks and opportunities they face. For more information log on to www.global100.org



Electronics Lifecycle



Electronics Recycling



Typical Sims Recycling Facility

- Shipping and Receiving
- Decontamination
- Manual disassembly
- Material reduction processes (e.g. shredders)
- Material separation processes (e.g. magnets, eddy currents, air tables)



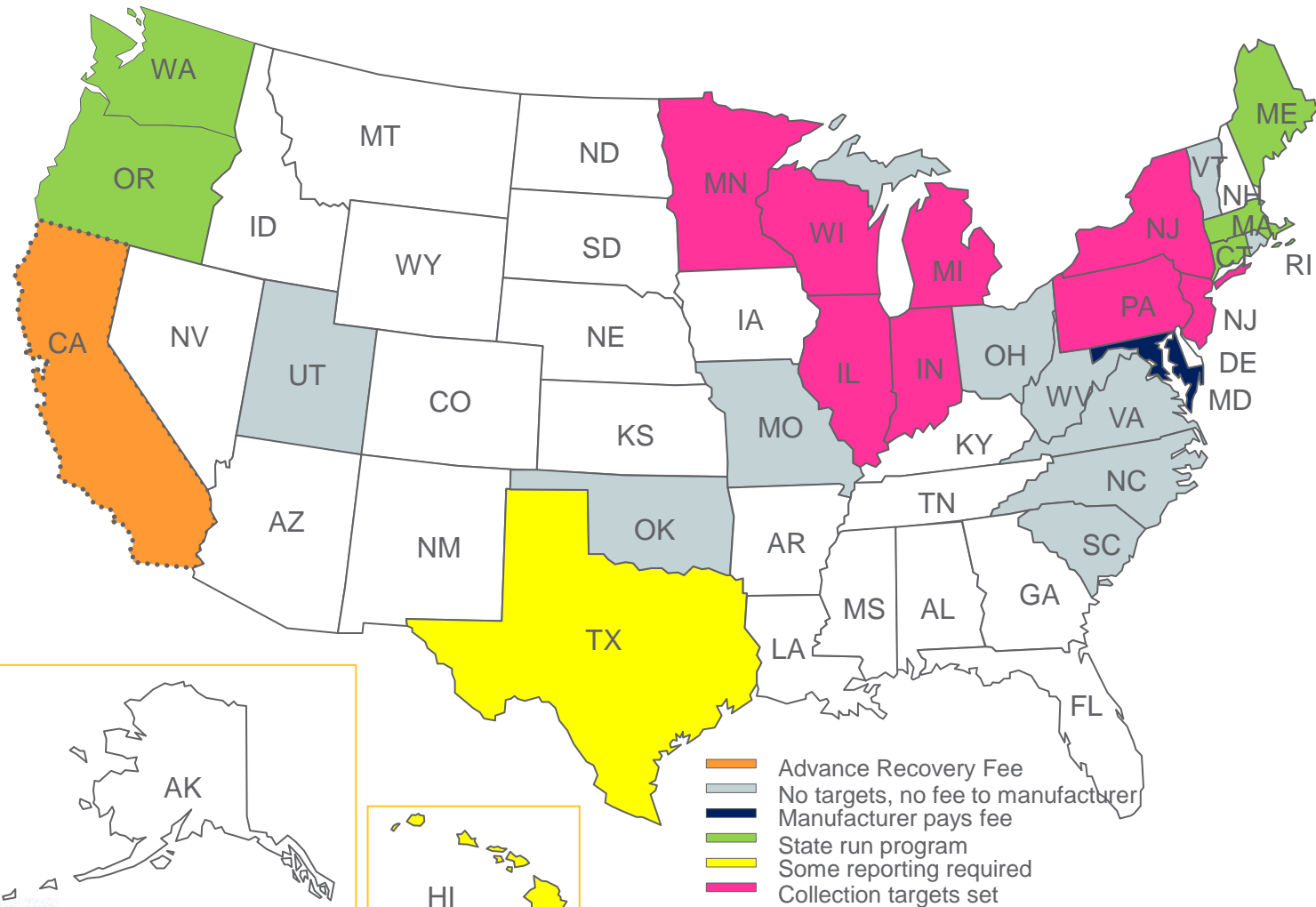
US Federal Legislation

- Classification of ewaste remains unclear
- There is no federal mandate to recycle electronics
- A “household” exemption exists
- US is divided on ratification of the Basel Convention
- Two new actions:
 - Issuance of “CRT Rule”
 - Creation of R2 Practices in multistakeholder group

US State Legislation

- Differs by state; no two states have identical legislation
- Varies from ARF to full producer responsibility
- Collection is included as part of manufacturers' responsibility (this is key difference from legislation in other parts of the world)
- Scope of products varies with little logic applied
- Reporting, standards, obligations, enforcement are different everywhere

State Legislation Map is Complex



Scope of Products Varies Dramatically

- California
 - Laptop, Monitor, TV
- Illinois:
 - Computer, Laptop, Monitor, TV, Printer, Fax, Scanner, Keyboard, Mouse, DVD Player, VCR, DVR, Converter Box, Cable Box, Cell Phone, Game Console, MP3 Player, E Readers, Small Servers, Digital Picture Frames
- Texas
 - Computer, Laptop, Monitor, TV
- Wisconsin
 - Computer, Laptop, Monitor, TV, Printer, Fax, Keyboard, Mouse, DVD Player, VCR
- Pennsylvania
 - Computer, Laptop, Monitor, TV, Printer, Scanner

Obligations by State

State	Obligation
Connecticut	Return share
Illinois	Return share increasing 10% / year
Indiana	60% - 80% of weight sold
Michigan	60% of weight sold (non-binding)
Minnesota	60% - 80% of weight sold
New Jersey	Market share
New York	3, 4, 5 pounds per person
Oregon	Convenience factor
Vermont	Convenience factor
Washington	Convenience factor

Lessons Learned

- Collection targets result in more ewaste being collected than vague goals
- Convenience to and variety of collection methods increase amount of ewaste collected
- Landfill bans increase amount of ewaste collected
- A broad scope of products increases amount of ewaste collected (should include more than strict US definition!)
- Transparency and reporting increase program understanding and effectiveness
- Regulations should include approved treatment methods and funding for enforcement