



Toxics Link
for a toxics-free world

Looking through Glass

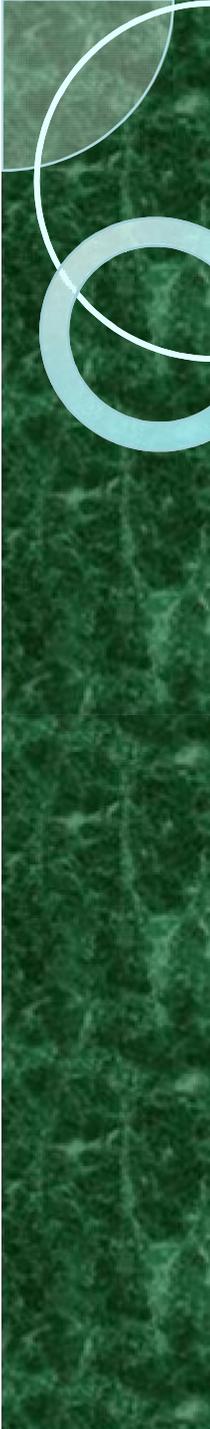
CRT Glass recycling in India

Priti Mahesh, Toxics Link, India

About Toxics Link

Not for profit, non governmental organisation

- 16 years of engagement: chemicals, waste and toxicity and environmental health issues
- Hazardous, bio medical and municipal waste, e-waste, asbestos, waste trade, food safety and chemicals management
- Work on reducing heavy metals toxicity(Lead and Mercury) from our lives
- Pioneer of e-waste issue in India
- Various research and initiatives
- Worked closely with industry and government on regulatory framework
- Part of international dialogues

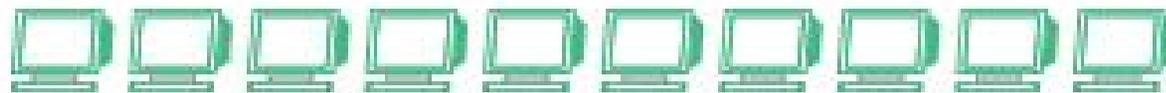


India-Growing Economy

- A population of more than a billion-300 million strong middle class; Growing at 5% annually
 - Increasing income and changing lifestyle
 - Smaller cities, towns and villages –future growth targets
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- Significant growth in PC sales –penetration still very low
 - Households equipped with PC are just 10 % in India versus 35 percent of China.
 - Television sets per thousand population in 2013 is 179 in India compared to 772 in China
 - 864.72 million wireless telephone connections, 61.07 Million handset units sold in the first quarter of 2014

E-waste Tsunami

**2.75
million**



2.2 million

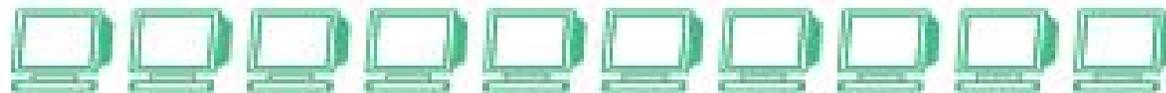
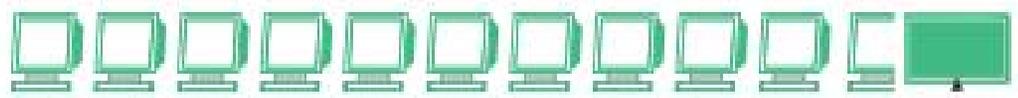


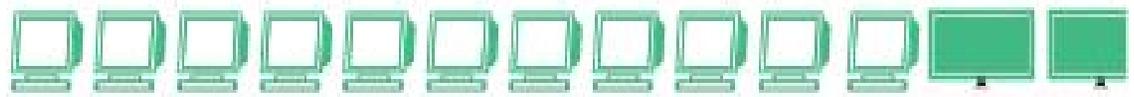


Photo credit Toxics Link

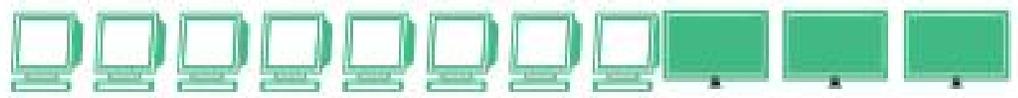
2009



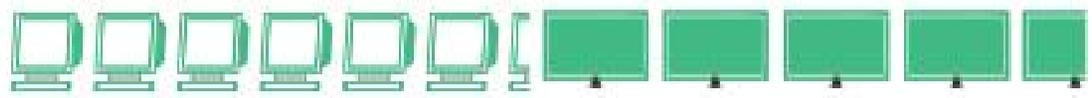
2010



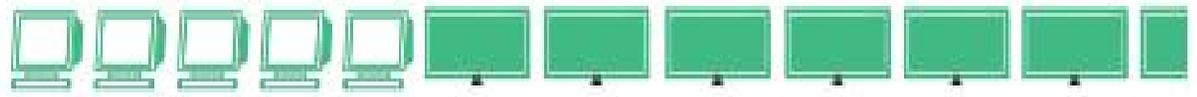
2011



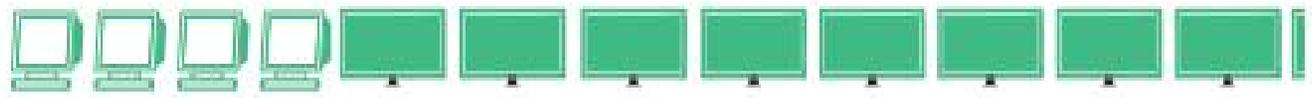
2012



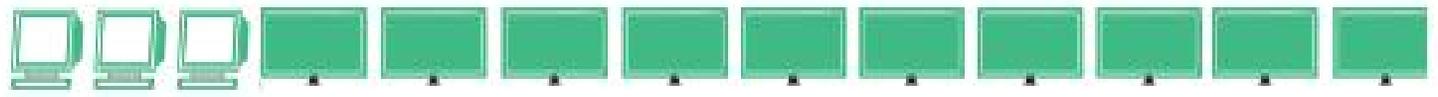
2013

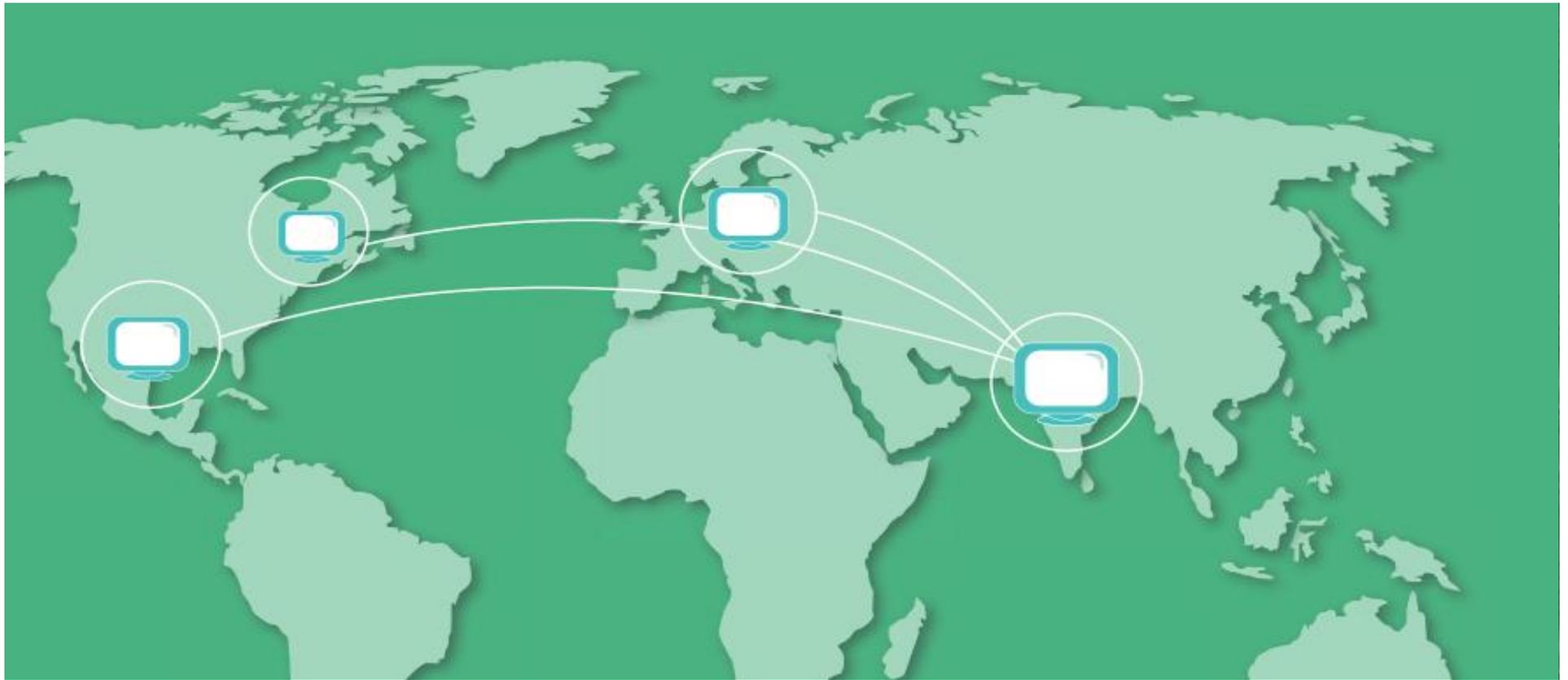


2014



2015

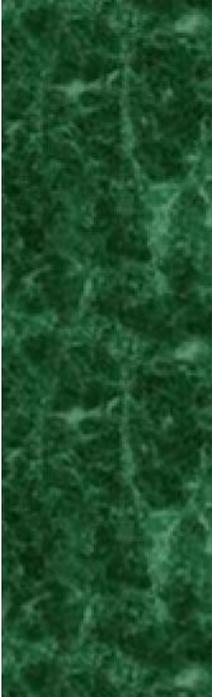




Country	Year	Quantity (in thousands)	Per unit cost (in INR)	USD
China P RP	2012-13	1195.36	2,268	37.8
Indonesia	2012-13	2277.46	1,747	29.11
USA	2012-13	0.04	39,825	663.75
Germany	2012-13	<0.01	46,333	772.21
Russia	2012-13	0.20	35,955	599.25
Germany	2012-13	0.09	1,25,277	2087.95
UK	2012-13	<0.01	80,222	1337.03
USA	2012-13	0.16	14,693	244.88

CRT Processing in India

- Manufacturing on the decline
- Glass to Glass recycling not viable
- Dumped into the informal sector
- Unsafe handling
- Cross contamination
- Marbles, glass tops, bakery



Clear Vision

- Policy- EPR
- Strict Import norms
- Infrastructure
- Downstream monitoring
- Standards

