Extended Producer Responsibility

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Unpacking the “Recycling Crisis”

- Cheap, difficult-to-recycle materials (market dynamics)
- Single-stream recycling (technology)

→ China National Sword (2018)

Municipalities Bear Recycling Costs

	Pre-2018 Recycling Cost	Post-2018 Recycling Cost
Boston, MA	$5/ton	$140/ton
Salem, MA	$11,045/year	$321,901/year
Gouldsboro, ME	$45/ton	$140/ton (canceled service)
Bridgeport, CT	-$130,000/year	$394,380/year
Stamford, CT	-$95,000/year	$700,000/year

What is Extended Producer Responsibility?

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Existing EPR Laws in the U.S.

Beverage Containers

Batteries

Mercury Auto Switches

Electronics

Paint

Mercury Thermostats

Mercury Lamps

- Polluter Pays Principle
- Municipal → manufacturer
- Over 118 programs in 33 states

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EPR for Packaging

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Kellogg's

General Mills

amazon

Unilever

Fisher-Price

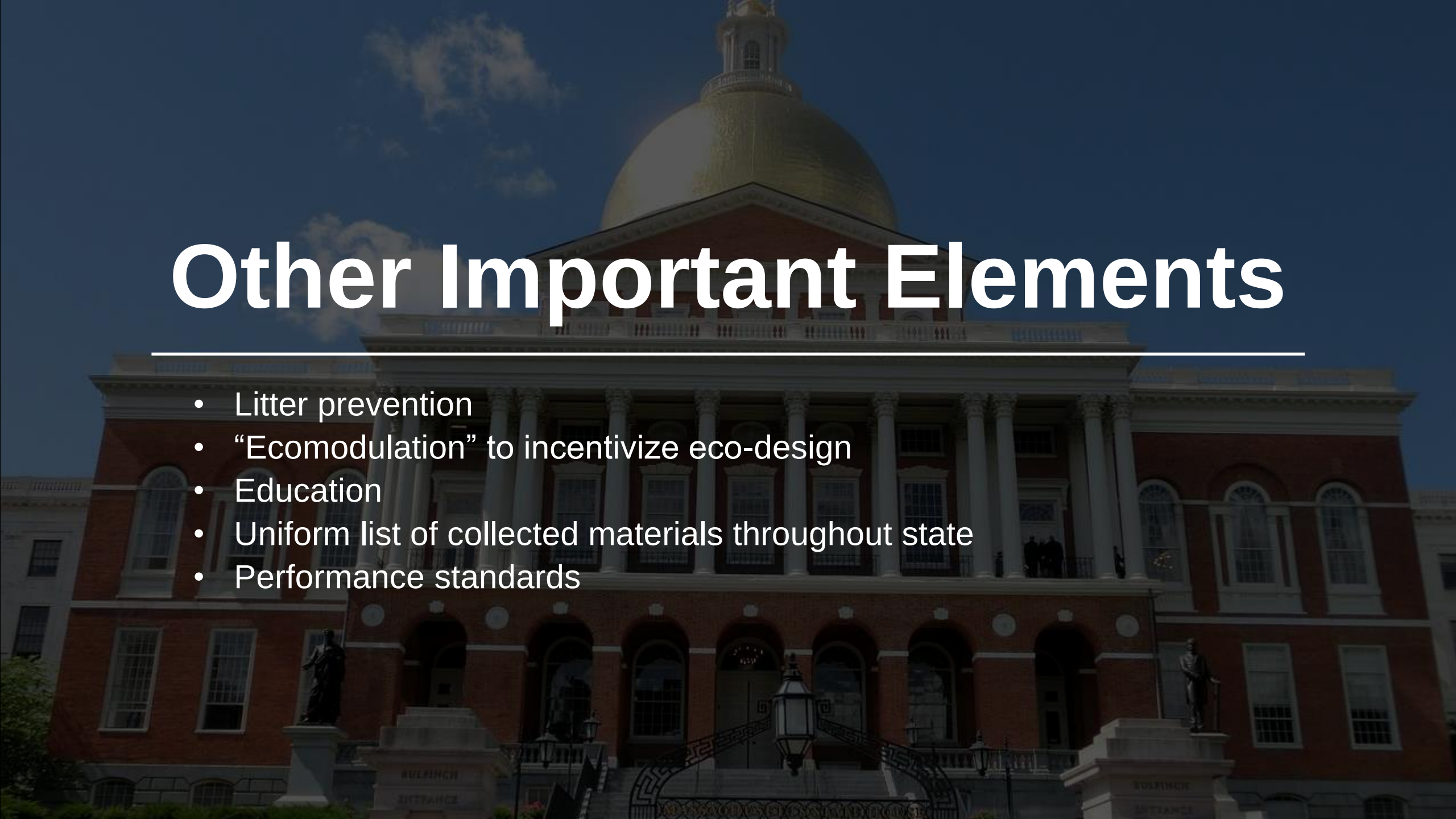
CVS pharmacy™

Kroger

General Program Design

EPR for Packaging Archetypes

	Producer Managed ("Full")	Municipal Reimbursement ("Shared")
PRO Plan	PRO creates & submits plan to Dept. for approval	PRO creates & submits plan to Dept. for approval
Management	PRO arranges contracts with haulers through RFP process	Local government continues management or contracting
Funding	PRO plans & operates entire recycling system	PRO reimburses local government or haulers
Benefits	Increased efficiency; economies of scale	Less disruptive; local control; easier oversight & enforcement
Drawbacks	Reorganization of recycling system; difficulties with oversight & enforcement	Smaller scale; less efficient



Other Important Elements

- Litter prevention
- “Ecomodulation” to incentivize eco-design
- Education
- Uniform list of collected materials throughout state
- Performance standards

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Comparing EPR for Packaging Cost/Effectiveness

Jurisdiction and years in place	People Served	Net Cost to Producers	Number of Producers	Annual Per Capita Costs	Percent Taxpayers Pay	Recovery Rate
British Columbia (7)	4,566,371	$72, 513, 159 CAD	1,176	$11.75 USD	0%	74.5%
Saskatchewan (3)	846,804	$5,770,209 CAD	553	$5.04	25%	72.8%
Quebec (15)	8,316,000	$151, 700, 000 CAD	3,400	$13.05	0%	63.6%
Ontario (16)	12,962,740	$249,809,925 CAD	1,800	$14.26	50% (0% soon)	61.3%
Manitoba (9)	1,206, 492	$26,508, 492 CAD	796	$16.26	20%	70.6%
Italy (22)	55,000,000	E 524,000,000	8,500	$10.61	0%	69.7%
France (27)	64,850,000	E 655,000,000	22,741	$11.42	20%	70%
Belgium (30)	11,000,000	E 144,300,000	5,000	$14.61	0%	80%
MAINE (n/a)	1, 340,000	$0 USD	0	$11.04-$13.06	100%	<36%

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THANK YOU!

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