

# Advancing Product Stewardship to Address Illegal Dumping

Suna Bayrakal  
Director of Policy & Programs, PSI  
**California Illegal Dumping Conference**  
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# Product Stewardship Institute

Building the capacity for product stewardship and EPR in the U.S. for **20+ years**



Maine Department of  
Environmental Protection



State of Oregon  
Department of  
Environmental Quality



Connecticut Department of  
ENERGY &  
ENVIRONMENTAL  
PROTECTION



DEPARTMENT OF  
**ECOLOGY**  
State of Washington



DEPARTMENT OF  
**ENVIRONMENTAL  
PROTECTION**  
MONTGOMERY COUNTY • MARYLAND



New York City  
Department  
of Sanitation



**SF** Environment

**CalRecycle**



**Metro**



**GDB**  
International, Inc.

PAINT IS OUR PASSION



American Coatings  
ASSOCIATION<sup>SM</sup>



**Canadian Stewardship  
Services Alliance**



**FPA**  
Flexible Packaging  
Association

Connecting. Advancing. Leading.



**DIVERSYS**<sup>TM</sup>  
SUPPLY | RECOVERY | PROOF

## Government Members & Board

47 **state** government agencies  
hundreds of **local** governments

Many  
**individual**  
donors

100+ **Partners**  
(industry, NGOs,  
international governments)



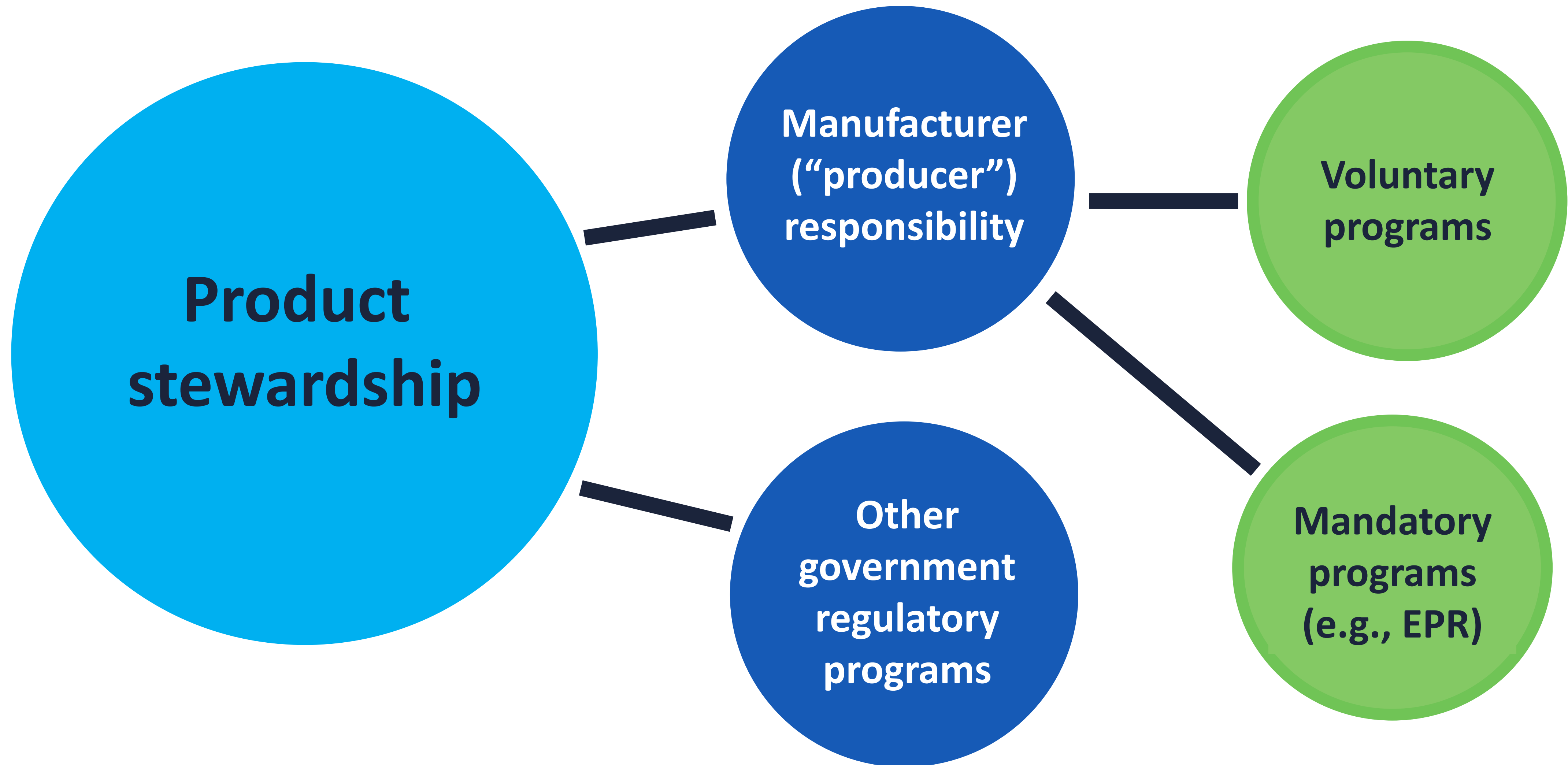
# Our Mission

Reduce the health  
and environmental  
impacts of products  
across their life  
cycle

**20+ product categories**

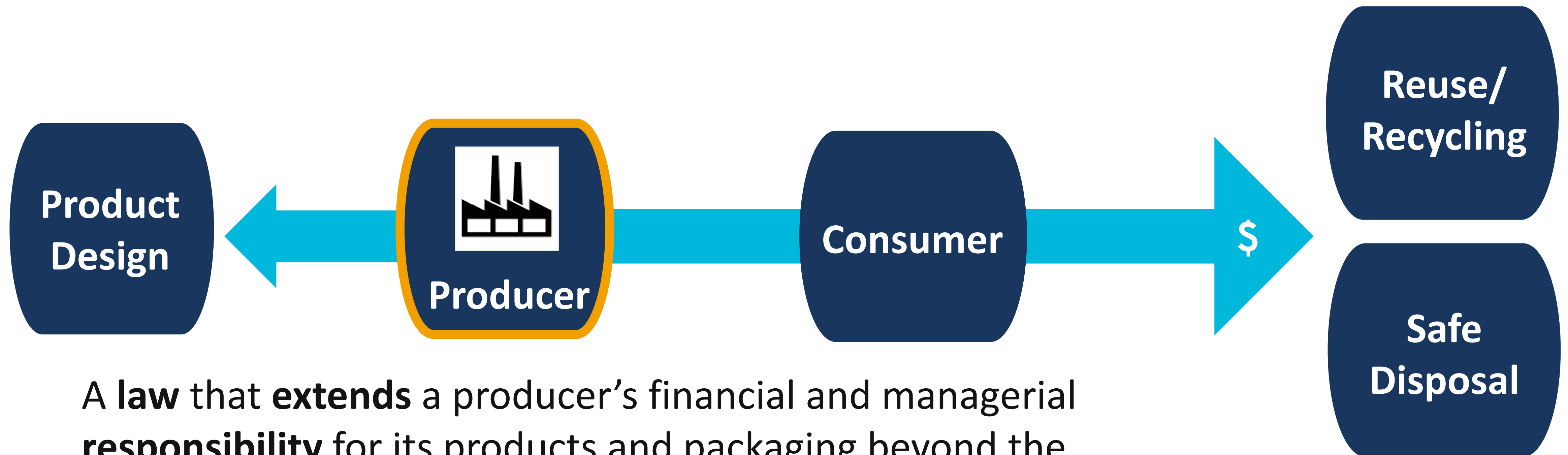


# Product Stewardship vs. EPR





# Extended Producer Responsibility (EPR)



A **law** that **extends** a producer's financial and managerial **responsibility** for its products and packaging beyond the manufacturing stage — both **upstream** to product design and **downstream** to **postconsumer** reuse, recycling, or safe disposal.

# Key Elements of Effective EPR Laws

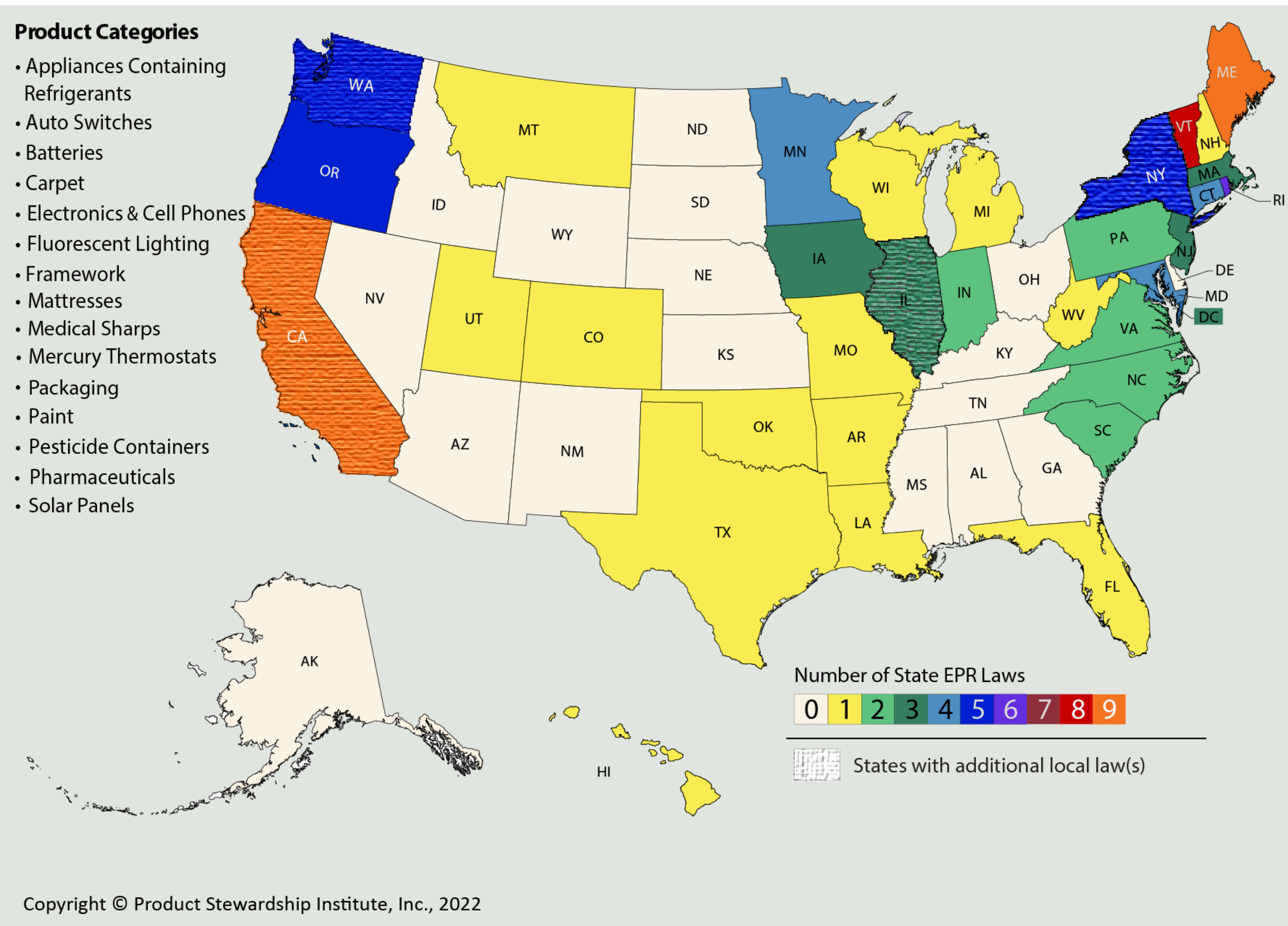
- Producers share responsibility and burden of end-of-life management
- Stewardship program
- Sustainable funding
- Performance targets
- Collection convenience standards
- Outreach and education
- Annual reporting
- Government Oversight and Enforcement



# EPR in the United States | Today

## Product Categories

- Appliances Containing Refrigerants
- Auto Switches
- Batteries
- Carpet
- Electronics & Cell Phones
- Fluorescent Lighting
- Framework
- Mattresses
- Medical Sharps
- Mercury Thermostats
- Packaging
- Paint
- Pesticide Containers
- Pharmaceuticals
- Solar Panels



125 Laws

15 Products

33 States + D.C.



# EPR in California



Carpet



Mattresses



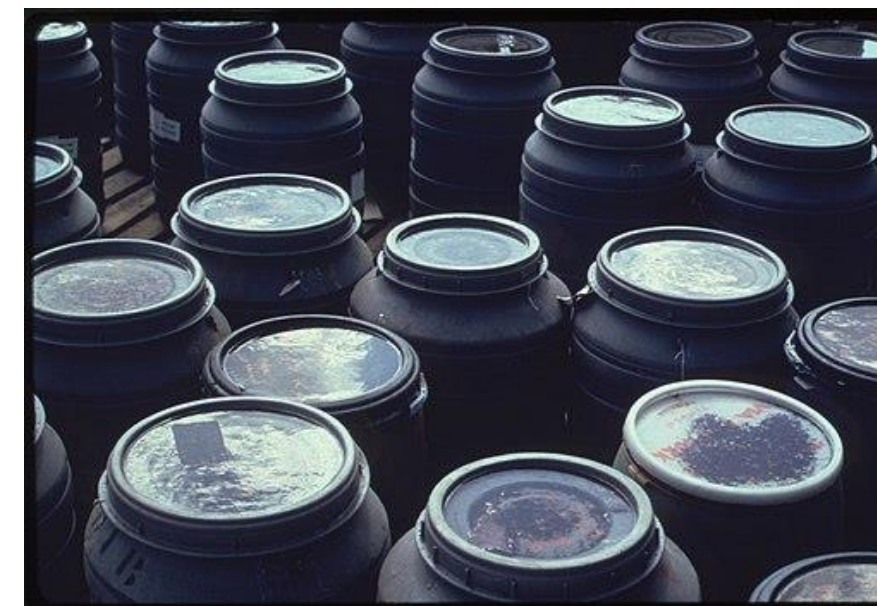
Paint



Rechargeable  
Batteries



Pharmaceuticals  
and medical sharps



Pesticide  
Containers



Mercury  
thermostats



Cell Phones



# Why is EPR Helpful in Reducing Illegal Dumping?

- **EPR can reduce illegal dumping by:**
  - Providing sustainable funding for end-of-life management of products
  - Increasing education and awareness
  - Increasing collection convenience
  
- **Effective EPR laws can also:**
  - Incentivize reduction of toxics in products
  - Establish performance standards to promote higher end uses (reuse/recycling) also creating green jobs



# EPR in CA: Successes and Lessons Learned

## Collection/Recycling

- 8.5 million **mattresses** collected (since 2016)
- 30 million gallons of **paint** collected (since 2012)
- Annual **carpet** recycling rate - 21% (2020), > 3x national average

## Convenience:

- 98% of residents < 15 miles from a **mattress** collection site
- 99% of residents <15 miles from **paint** collection site

**Illegal Dumping:** >250K **mattresses** removed from alleys, sidewalks, public spaces

## A few lessons...

- Strong performance goals, including for reducing illegal dumping
- Broad product scope
- Government oversight and enforcement
- Plan renewal







# Opportunities

EPR as a potential solution for illegal dumping of other products in California

# How to Advance Product Stewardship to Reduce Illegal Dumping in CA

- Education and awareness
- Connections and coalitions
- Advocate and provide support for CA EPR bills that are effective models
- Use available resources/tools to develop a bill





# Laying the Groundwork with Education

## Recyclamps Initiative: Safe Management of Fluorescent Lights

- Educational flyers for **residents/business**
- Educational **worker safety** poster
- **Multilingual** educational materials
- **Outreach to EJ communities** through IVAN network and Greenaction for Health and Environmental Justice
- **Property management** association newsletter articles
- **How-To Guide** to advance safe lights recycling

 [bit.ly/recyclamps](https://bit.ly/recyclamps)



### ¿Sus Luces Fluorescentes Están Quemadas?

Recíclalos de forma segura y gratis!

No bote luces fluorescentes u otras luces que contengan mercurio en la basura o contenedores de reciclaje. Las descargas de alta intensidad, los halógenos metálicos, el sodio y las luces de neón también contienen mercurio. **Es ilegal y la exposición al mercurio puede dañar** el cerebro, el corazón y el sistema inmunológico y nervioso. Los productos de mercurio contaminan el agua potable, los pescados, la tierra y el aire de California cuando no se administran adecuadamente.

Para encontrar ubicaciones de reciclaje, comuníquese con:

- Departamento de Control de Sustancias Tóxicas de CA
  - Sitio Web de Luces Fluorescentes | [dtscc.ca.gov/universalwaste/fluorescent-lights/](https://dtscc.ca.gov/universalwaste/fluorescent-lights/)
  - Sitio Web de Eliminación de Lámparas de Mercurio | [celearn.csus.edu/mercurylamp/content/resources5.htm](https://celearn.csus.edu/mercurylamp/content/resources5.htm)
- Earth 911 | [search.earth911.com/](https://search.earth911.com/)
- RecycleWhere | [recyclewhere.org](https://recyclewhere.org) (Al servicio de los condados de Alameda, Contra Costa y San Francisco, y la ciudad de Palo Alto)

¿Cómo se reciclan las luces? Las luces normalmente se trituran y los materiales se separan. El vidrio se recicla y se deposita en vertederos, el metal recuperado se recicla y el mercurio se envía para su reutilización.



¿QUÉ PASA CON LOS LED?

Las luces LED (o diodos emisores de luz), que son de alta eficiencia energética y su uso está aumentando, no contienen mercurio. Sin embargo, se ha descubierto que estas luces contienen otros metales tóxicos (es decir, cobre, plomo, níquel y cromo) que son dañinos para la salud humana y el medio ambiente. Devuelva los LED a su instalación HHW más cercana (consulte la lista anterior).




### FLUORESCENT LIGHTS CONTAIN TOXIC MERCURY

PROTECT YOUR HEALTH AND FOLLOW THE LAW.

HERE'S HOW:

- 1 When you remove a bulb, store it in a closed, dated, and labeled box or cushioned drum.
- 2 If a bulb breaks, open a window to disperse mercury vapor, collect the shards, place in a closed container, and recycle with other bulbs. Do not vacuum!
- 3 Recycle mercury products yearly, at minimum.



IF YOU SEE SOMEONE WHO ISN'T FOLLOWING THESE STEPS:

Contact the **California Environmental Protection Agency** ([calepa.ca.gov/enforcement/complaints/](https://calepa.ca.gov/enforcement/complaints/)) or the **California Department of Toxic Substances Control** Regulatory Assistance Office's (dtscc.ca.gov/regulatory-assistance-office/) Waste Alert Hotline (Complaints) at 800-69-TOXIC (800-698-6942).



### 回收荧光灯:

法律规定!

请勿将荧光灯或其他含汞的有毒灯具扔进垃圾桶或回收箱。高强度气体放电(HID)灯、金属卤化物灯、钠灯和霓虹灯均含有汞成分。把水银灯扔进垃圾桶是违法的。

### 防止水银泄漏 + 遵纪守法

您的企业或出租物业的含汞荧光灯必须按照加州的通用废物管理要求进行处理。

- 取下灯时: 请把灯存放在密封的盒子或带有缓冲垫的荧光灯存放桶里, 以防止破损。请在容器上标明“通用废物-灯具”。并且写上您第一次把灯放进收集容器的日期 (“开始收集日期”)
- 如果灯泡破损, 打开窗户让室内通风以便散去汞蒸气, 用胶布拾取玻璃碎片与粉末, 然后将其放在一个密封的容器里-不要抽真空! 详情请参考EPA环保局的清道指南 ([epa.gov/cfl](https://epa.gov/cfl)) 。
- 每年至少回收一次含汞荧光灯。
- 请以防止未排放到环境的方式管理含汞的荧光灯。

对涉及或负责管理普通废物的员工进行有关正确处理 and 应急程序的初始培训和年度培训, 并将培训记录保存至少3年。

- 记录通用废物的运输情况, 并保存至少三年的运输记录。





# How PSI Can Help



Educational  
Resources &  
Opportunities



Legislative  
Assistance



Multi-Stakeholder  
Dialogue Meetings  
& Facilitation



Research,  
Pilot Projects,  
& Evaluation



# Thank You!

**Suna Bayrakal**

Product Stewardship Institute

617-236-4886

[suna@productstewardship.us](mailto:suna@productstewardship.us)

**[productstewardship.us](http://productstewardship.us)**