# Digital Labeling for Recyclability

SB 123 PRESENTATION

SENATE ENERGY AND ENVIRONMENT COMMITTEE

MARCH 28, 2023

# Evolution of Digital Labeling Conversation

- China implements National Sword in 2018
- Recycling Steering Committee (RSC) convened to address market crisis
- RSC work became foundation for Recycling Modernization Act (SB 582, 2021)
- SB 582 established Truth in Labeling Task Force- one recommendation was to mandate "smart labeling," or digital labels on packaging by 2030
- Stakeholders convened to assess digital labeling approach- SB 123 -2 amendment interim step
- Potential to be a tool to address customer confusion on the front end to reduce contamination

# SB 123 -2 Amendment

- Directs Producer Responsibility Organizations (PROs) to consider and develop recommendations for the use of digital labeling by producers to convey information about recyclability claims by 2027
- Does not place a mandate on PROs or producers
- Aligns with second PRO plan to provide time for work group discussion
- PROs comprised of brands with expertise make recommendation

# Why digital labeling?

#### Challenges solved with digital labeling:

- Consumer confusion when it comes to recyclability labeling that leads to contamination
- Specific recycling instructions for consumers in Oregon that would not conflict with labeling efforts in other states
- Avoids challenges of costly packaging changes
- Significant progress toward reaching labeling goals in SB 582 (Recycling Modernization Act) and Truth in Labeling Task Force



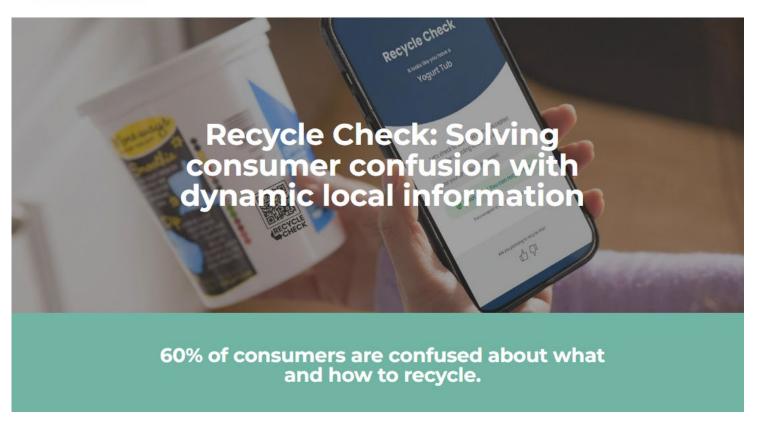




# Digital Labels In Practice



RECYCLING COORDINATORS + INITIATIVES + FUNDING PARTNERS RESOURCES + ABOUT +



# Claims Play a Critical Role in Recycling

#### People want recyclable packages

84%¹ expect packages to be easy to recycle

#### They are look for recycling instructions

• 78%¹ look at on pack labels to determine if a product is recyclable

## Without it, they often get it wrong

 When tested, as many as 64%¹ of people are wrong about what to do with plastics



# **How Recycle Check Works**



#### **Apply**

Brands apply for and purchase a customized QR code and link for their eligible package\*



#### Scan item or click link

Recycle Check can be deployed as a customized on-pack QR code or website link for each package. Consumers scan the on pack QR code or click the link.



#### Find out if it is accepted for recycling locally

This leads to the Recycle Check platform with a pre-filled package type



#### Recycle or dispose of item

Consumers enter their zip code or allow location permissions and receive a clear, yes-no answer about whether they can recycle the item – in seconds!

\*A brand's application must demonstrate that the package passes design requirements for effective recycling.





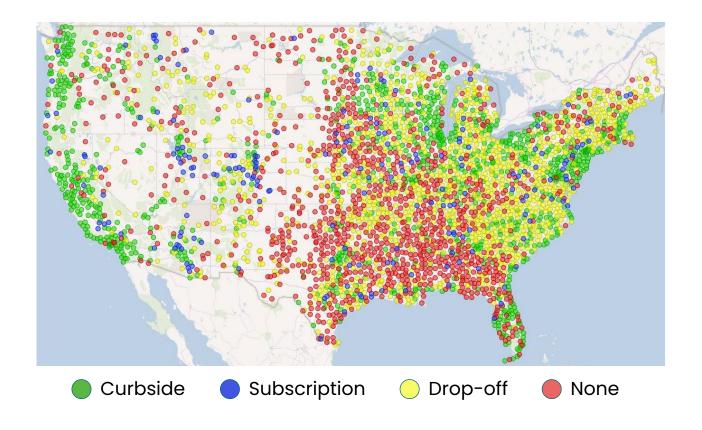
# The National Recycling Database

The Recycling Partnership's <u>National</u>

<u>Recycling Database</u> centralizes recycling

access information from more than **9,000 U.S. communities covering 97% of the U.S. population**.

The database aims to provide residents & consumers with local, accurate information on what is accepted in their local recycling program







## Updating the Database

Through machine learning, data automation, and computer vision, the database captures local recycling changes to provide up-to-date information.

Strategies for updating the database include:

- ☐ **Automated searching** for search widgets
- ☐ Screenshots, text scraping and processing for websites
- ☐ **Manual research** for new PDF guidelines
- Manual verification & updates for any community where screenshots and scraping do not work

All communities are updated at least once per year, with the more automated processes occurring on a monthly or quarterly basis.





# Access and Innovation

- According to a 2021 Pew Research study, 85% of Americans own a smart phone
- There is already federal precedence in the US for using digital links for GMO disclosures on packaging
- EU draft directive on packaging waste would require digital links to aid sortation *and* label for recycling/reuse within 48 months of adoption
- Digital links to enable the recycling of flexible packaging underway in Canada

# **Expanding Recycling Accessibility**

As accessibility and equity become a greater focus in sustainability work, smart labels can be an important tool to help overcome the systemic barriers in accessing information for different segments of the population.

- Language barriers, <u>Multilingual Digital Labelling and Smart Packaging in an Increasingly Global Marketplace</u>
- Vision impairment assistance, font size enlargement and spoken information (CVS and RFID Spoken Rx app),
- Health and safety, <u>nutritional value ingredients and allergens</u>

A grocery store in Spain conducted a <u>pilot</u> to add digital labels that directed consumers to a range of info, including recycling instruction, demonstrated a 7% increase in recycling participation amongst consumers that didn't recycle before.

Brands exploring digital labels in Europe and the U.S.:





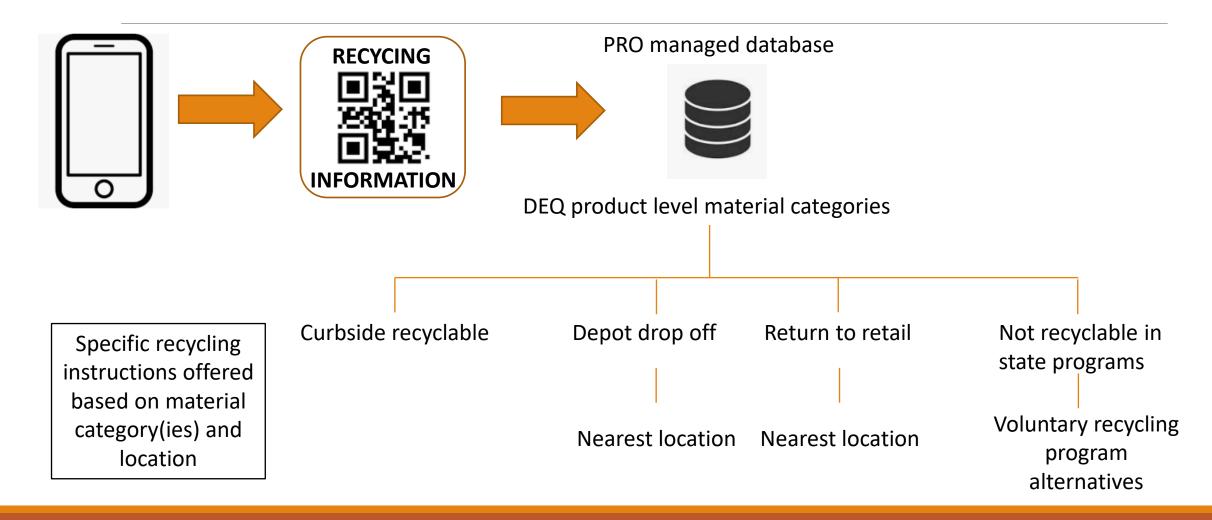








# How It Could Work



# Contact Information

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# Thank You!