BUSCH® SYSTEMS

Let's Recycle Better, Together.

BIN LABELS & SIGNAGE

WEDNESDAY, MAY 14TH
1:00 TO 2:00 PM ET

1-800-565-9931 buschsystems.com 81 Rawson Avenue, Barrie, Ontario, Canada L4N 6E5

Today's Panelists

Evelyn Amara Ferreira

Zero Waste & Compliance Lead

San Francisco International Airport

Molly Longton

Program Manager

University Sustainability Practices

Arizona State University

Stick Around at The End…

Product Demo
with
Rae Ann Dos Reis

Next Up:

- Labels 101 Primer
- Live consultation.
- Participate in discussion or just listen in.

Look for registration link in the chat and with email tomorrow

Join the Discussion

From your toolbar:

Share your experience & opinions

Look for links to resources

Type direct questions for panelists

SFO Waste Sorting Infrastructure

Compliance, Research, and Programming

May 14, 2025

Evelyn Amara Ferreira, Zero Waste Lead

SFO's Commitment to Sustainability

SFO Strategic Goals and Objectives

Delivering an airport experience where people and our planet come first.

Take Bold Climate Action

4.2 Inspire the public and industry partners to **take bold climate actions.**

4.3 Achieve **net zero carbon by 2030** for airport-controlled emissions

4.4 Achieve **net zero energy by 2030**

4.5 Become a **zero-waste campus** for airport-controlled municipal solid waste (MSW) and construction waste.

4.5.1 From 2022 levels**, reduce landfill-bound MSW generated per passenger by 70%** by 2028.

4.5.2 Achieve a **90% waste diversion** rate by 2028.

4.5.3 Achieve a consistent **contamination rate less than 5%** across all waste streams by 2028.

CA + SF Materials Management Regulations

California has set the target to reduce GHG emissions 40 percent below 1990 levels by 2030.

(CA Senate Bill 32, Pavley, Chapter 249, Statutes of 2016)

- CA SB1383 (2012-2022)
  Short-Lived Climate Pollutants:
  Organics Waste Reductions

  Sets California's organic waste disposal reduction target of 75% from 2014 levels by 2025

  - **Provides Mandatory Organics Collection Services to All Residents and Businesses**
  - **Requires Education and Outreach to the Community**
  - **Promotes Procurement of Recycled Organics Products**
  - **Establishes Food Recovery Programs**
  - **Secures Access to Recycling and Food Recovery Capacity**
  - **Monitors Compliance and Conducting Enforcement**

  Jurisdictions, organic waste and edible food generators, facilities, and haulers are all subject to penalties for non-compliance.

- City of San Francisco (2009)

  Mandatory Recycling and Composting Ordinance

  Applies city-wide for both residential and commercial spaces. Achieved 99% service compliance.

- CA 827 (2019)

  Requires recycling and composting services state-wide (including Airports) Commercial establishments must have clearly visible and labeled customer-facing recycling and compost collection bins wherever a landfill bin is located except in restrooms. Full-service restaurants are exempt.

- CA AB341 (2012) + AB1826 (2020)

  Mandatory Commercial Recycling

  Requires businesses and multi-family residential dwellings of five units or more that generate four or more cubic yards of commercial solid waste per week to implement recycling and composting programs, on or after July 1, 2012. On or before July 1, 2020, businesses must provide organics and recycling containers at front-of-house to collect waste generated from products purchased and consumed on the premises (AB827, McCarty). These containers must be placed adjacent to trash and be visible, easily accessible, and clearly marked.

- CA AB2176 (2004)

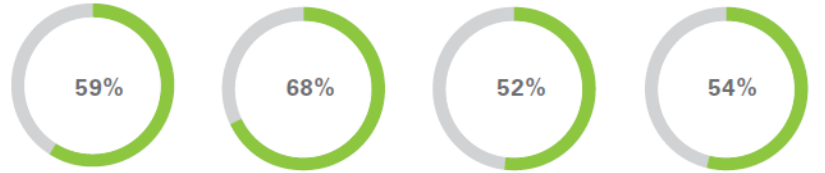
  Recycling at Large Events

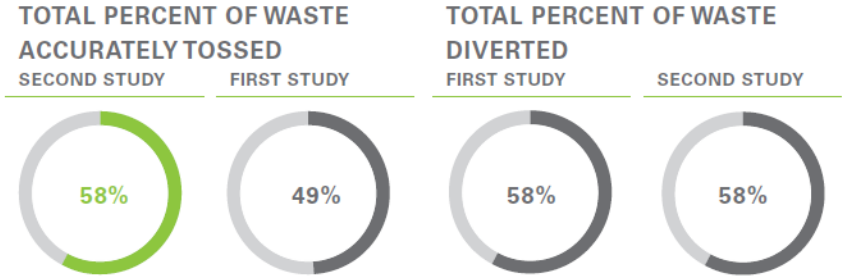
  Requires operators and organizers of large events and venues to develop and implement waste reduction plans that include recycling strategies, and to report on the results of their efforts to the designated local agency/city.

2016 Signage Studies

2016 Signage Studies

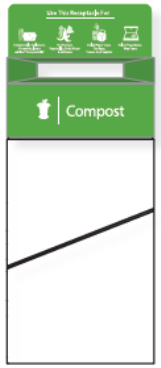
PERCENT OF WASTE ACCURATELY TOSSED





ICONS ARE PREFERRED TO TEXT, ALTHOUGH SOME TEXT IS STILL NEEDED

INSTRUCTIONAL GRAPHICS SHOULD BE AT EYE LEVEL ON A VERTICAL PLANE



REFINEMENT OF ICONOGRAPHY TO BE LESS ABSTRACT

SHOULD BE LARGE ENOUGH FOR PASSENGERS TO SEE FROM A DISTANCE

EMPHASIS ON CONTEXTUAL RELEVANCE OF DEPICTED OBJECTS AND THEIR MATERIALITY

2016 Messaging Study

1

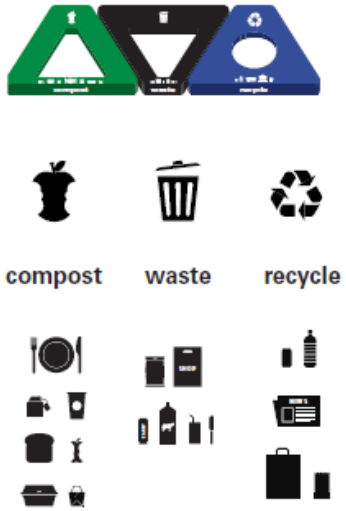
SYMBOLS

2

SYMBOLS
TEXT

3

SYMBOLS
TEXT
SORTING ICONS



4

SYMBOLS
TEXT
SORTING ICONS
EDUCATIONAL MESSAGE

5

SYMBOLS
TEXT
DESCRIPTIVE TEXT

IMPLICATIONS

A mixture of text and icons is ideal for users, but the messaging needs to be clear and concise.

Least Sorting

Least Diversion

Less Accurate

Most Accurate

Most Sorting

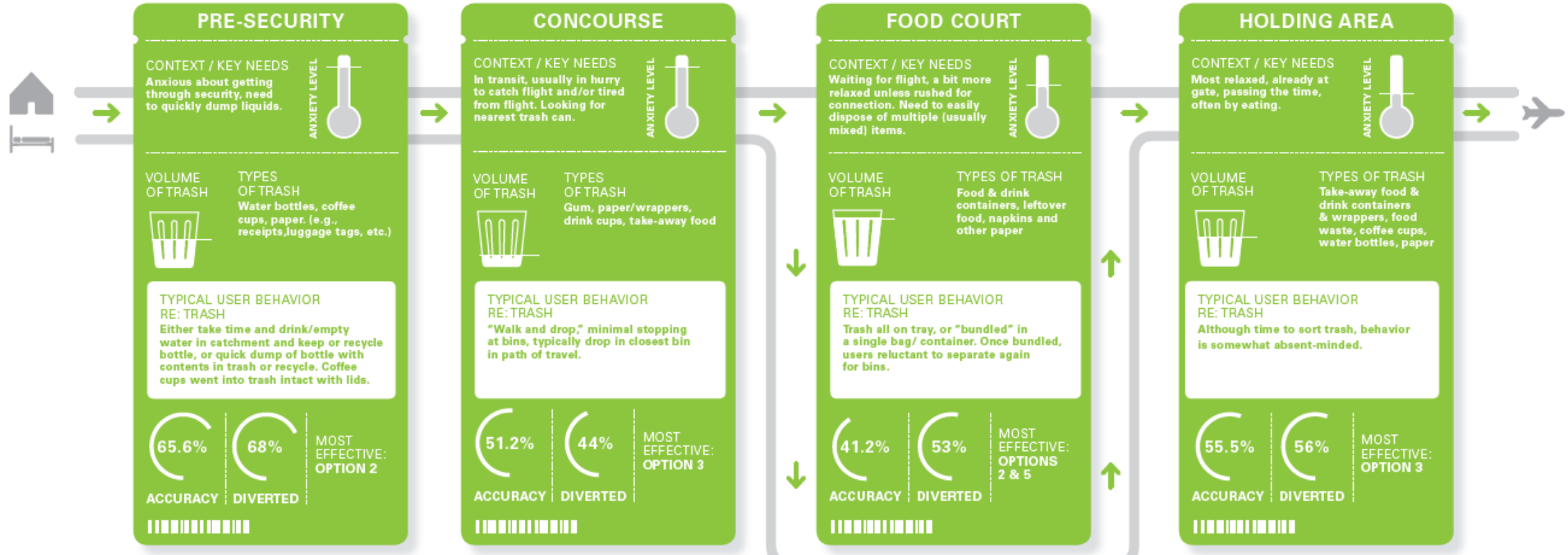
Most Diversion

Least Sorting

Least Accurate

Context + The User Journey

The majority of discarded trash came from departing passengers with varying waste disposal needs and behaviors as they traveled through the airport:



IMPLICATIONS

Most users are in a rush and anxious to quickly dispose of items. Limited trash types simplify design of options.

IMPLICATIONS

Needs high visibility and simplicity as users are in transit with limited focus or time to spend on bins.

IMPLICATIONS

The added complexity of co-mingled materials and quantity of items require greater guidance for sorting.

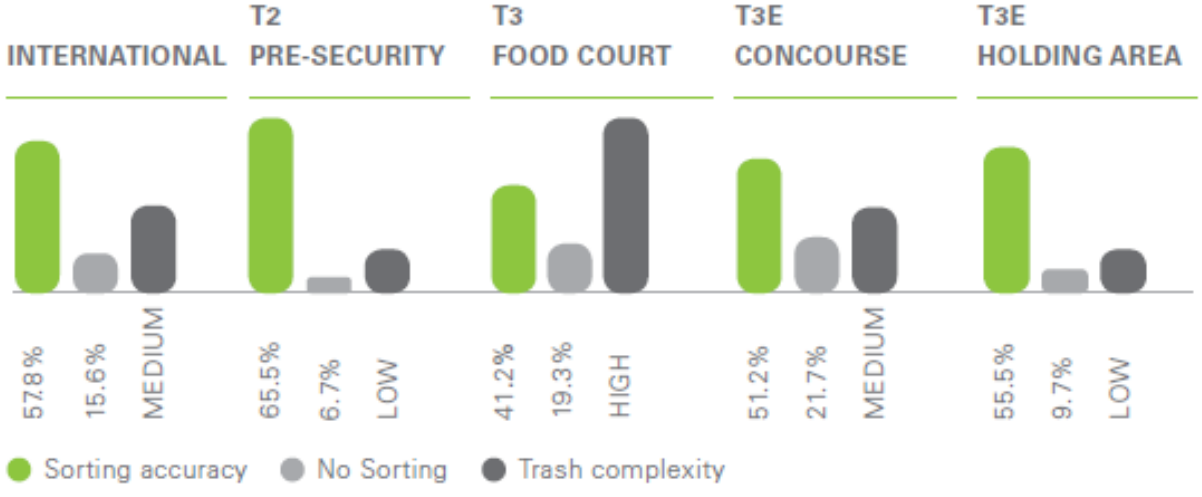
IMPLICATIONS

Waiting passengers may have the capacity for more information at holding areas.

Behavior at the Bin

7 THE THRESHOLD FOR SORTING IS LOW

The more complex the trash, the less likely users are to sort. Levels of complexity and accuracy vary by location:



THE PSYCHOLOGY OF SUSTAINABLE BEHAVIOR

IMPLICATIONS

Increased sorting options add complexity and decrease accuracy. Bins and messaging need to be clear and simple enough to grab someone's attention in just a few seconds.

RECOMMENDATIONS

- MESSAGING NEEDS TO BE CONCISE, OBVIOUS & VISIBLE
- THE MORE INSTRUCTION, THE BETTER
- ONE SIZE DOES NOT FIT ALL
- REDUCE ROOM FOR ERROR
- BE CONSISTENT THROUGHOUT TERMINALS
- EXPLORE ADDITIONAL SUSTAINABLE MESSAGING

Waste Bin Design and Labeling Requirements

CA SB1383 Waste Bin Design Requirements

SB1383, Short-Lived Climate Pollutants Regulations, Section 18984.9 (b) (1)

- **BIN PLACEMENT:** Commercial businesses (Airport and tenants) must provide collection **containers for organic waste and recyclables in all areas where disposal (trash) containers are provided** for customers, except in restrooms.
  - However, if the business (Airport and/or tenants) does not generate any of the materials that would be collected in a specific container, then it does not have to provide that particular container.
- The business shall provide or arrange for **organic waste collection services** for employees, contractors, tenants, and customers, including supplying and allowing access to an **adequate number, size, and location of containers with sufficient labels or container color.**
- **BIN COLOR:** The lid or body of the container is the correct designated color provided through the organic waste collection service provided by the jurisdiction. (CCR Section 18984.7)
  - Note: A commercial business is not required to replace functional containers that do not comply with the color requirements prior to the end of the useful life of those containers, including containers purchased prior to January 1, 2022, or prior to January 1, 2036, whichever comes first.

- Learn more: https://calrecycle.ca.gov/organics/slcp/collection/systems/

CA Waste Bin Labeling Requirements

SB1383, Short-Lived Climate Pollutants Regulations, Section 18984.8
AB 827, Solid waste: commercial and organic waste: recycling bins; AB827 policy summary

BIN LABELS

AB 827 | Requires customer-facing collection containers to **have "educational signage" that is visible, easily accessible, and clearly marked** in accordance with state law and local ordinances.

- This law targets businesses that sell products meant for immediate consumption (Food & Beverage)
- Full-service restaurants are exempt from providing properly labeled containers for patrons but must provide properly labeled **recycling and organics collection containers next to trash containers for employees** to separate post-consumer recyclables and organics.

SB1383 Section 18984.8 | Container Labeling Requirements

- Must **include text and/or images / graphics**
- Indicate primary **materials accepted and prohibited** in that container
- Containers can be imprinted with label requirements

Training and Education Requirements

SB1383, Short-Lived Climate Pollutants Regulations

Requirements

- Commercial businesses are required to educate employees on proper recycling (AB827)
- Commercial businesses shall annually provide information to employees, contractors, tenants, and customers about organic waste recovery requirements and about proper sorting of organic waste. (SB1383)
- Commercial businesses shall provide information to new tenants before or within 14 days of occupation of the premise (SB1383)
- SFO Rules and Regulations now also require waste training

SFO Next Steps

- In-Person Trainings
- New Employee Trainings
- Video Trainings (NEW)
- Website Content
- Behavior Change Campaigns
- Identify informational touch points:
  - Tenant Lease Agreements
  - Tenant Work Letters
  - Green Business Program
  - At badging + onboarding
  - At MRAs

Design Lessons & Recommendations

Bin Trio Design

Starbucks' CA SB1383-compliant bins

Pros:

- Complies with both SB1383 and AB1276
- Color-coded bins

Cons:

- Icons and labels are too small
- Signage is closer to waist level than eye level
- Identical bin openings

SFO's 2021 waste bin trios

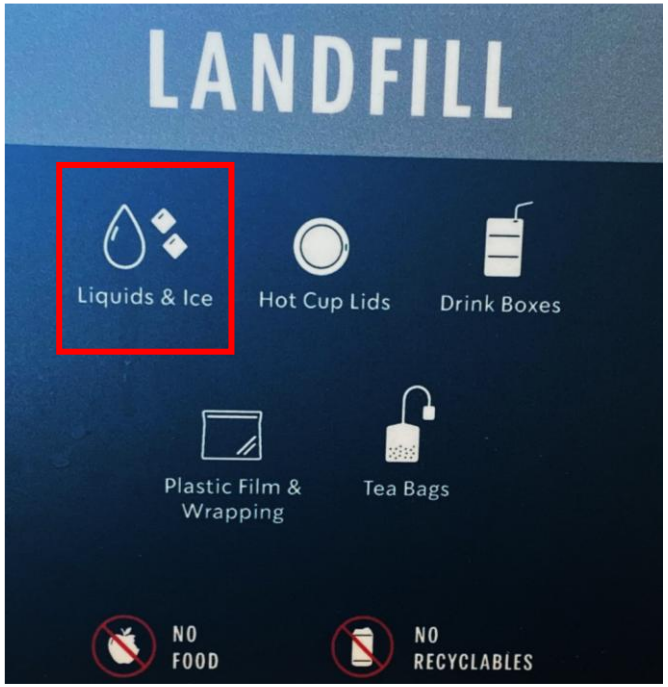
Pros:

- Bright color coding
- Distinct waste bin openings

Cons:

- Icons are small and unlabeled
- Signage is at or below waist-level
- Labels are not compliant with SB1383

Bin Labels



Pros:

- Signage complies with SB1383
- Includes labels, not just icons
- Simple instructions on prohibited items

Cons:

- Icons and labels are too small
- Monochromatic icons require interpretation
- Prohibited items are not comprehensive
- Signage may not be customized to local waste hauler sorting guidelines
- No liquid collection

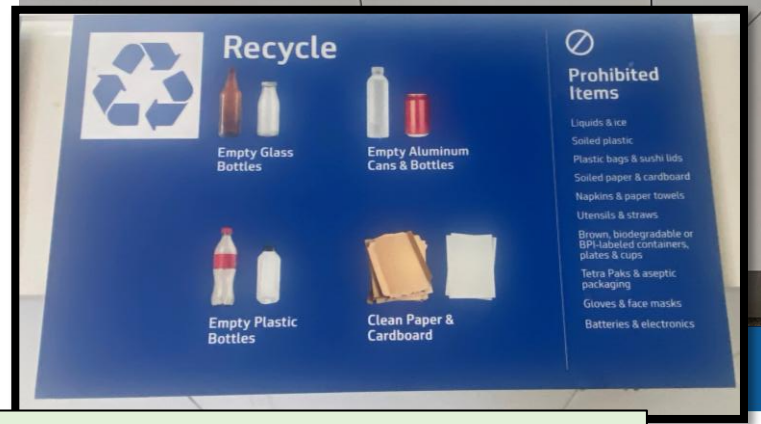
Airport Signage

Airport-specific Challenges

- International travelers
- Language and literacy barriers
- CA's complex sorting requirements
- Pre-security / Post-security / Food Courts
- Time sensitivity
- Minimalist design aesthetic

Signage + Bin Goals

- Test efficacy of photo-based signage
- Simplify waste streams
- Test (simple) words
- Know audience / users
- Design signage to Airport-provided materials



- Food and napkins only
- Bottles and cans only
- Everything else

Recommendations Summary

Signage, Labels

- Know your users
  - Public
  - Office employees
  - Janitorial staff
  - Contractors
- Customize signage to use-case
- When in doubt, test it out
- Opt for photo-based signage
- Use words sparingly and intentionally
- Consider simplified waste streams and instructions

Waste Bins

- 3-streams
- Color-coded bins
- Strategic placement
- Provide liquid collection
- Identify waste bin trios with frequent overflow to ensure sufficient # of bins
- Audit tenants for proper front-of-house and back-of-house bin placement and labeling
- Audit waste bin setup in employee buildings and areas

MRAs

- Audit MRA waste bin compliance, signage sizes, styles, etc.
- Standardize signage across facility
- Standardize compactor and dumpster colors
- Consider translated instructional signage
- QR-code accessible sorting guidelines
- Post signage in breakrooms

Education

- Develop an employee training strategy
- Develop simple educational materials
  - Training videos
  - Flyers / 1-pager
  - janitorial guide,
  - Website
  - kitchen and breakroom posters
- Identify and update informational and educational touch points
- Issue tenant reminders or require tenants inspect their own bins
- Conduct regular waste audits
- Provide feedback, follow-ups
- Enforcement measures OK

What's Next?

Aiming for Zero Waste

Zero Waste Initiatives

Regulating Food Ware Accessory Handouts (2022)

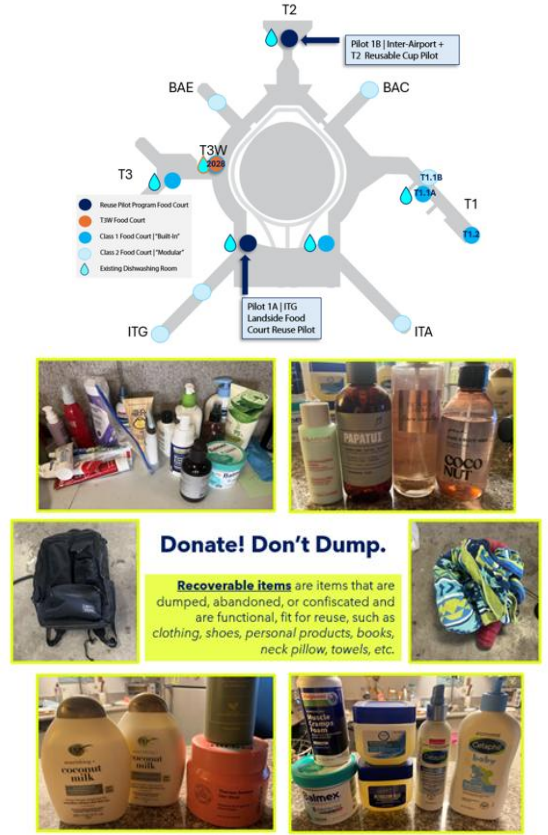
Food Donation Program (2017, 2022, 2025)

SFO UNITES AGAINST HUNGER

Plastic-free Food Ware and Beverages

Zero Waste Infrastructure Pilots (2026)

Expanded Zero Waste Infrastructure (2027- 2030)



Priority: Address Contamination

Maximize diversion. Prevent contamination.

- Airport's waste streams are contaminated **58%** of the time
- At Airport food courts, waste is missorted **45%** of the time.
- Disposable food ware is missorted 63% of the time.
- Disposable food ware is **5%** of Airport's waste stream.
- SB1383 requires minimal contamination. SFO goal of **<5%** contamination for its waste steams.

Reduce landfill-bound waste

- SFO generated **1099 tons** (2.12M lbs.) of disposable food ware in 2023 = $217K in waste hauling costs.
- SB54 classifies PLA-lined fiber food ware as landfill
- Consequently, as of 1/1/2025, most food ware provided at SFO is ultimately landfill-bound.

SFO's Vision for Reuse

Demonstrate leadership

SFO's vision is to "inspire the extraordinary" and inspire bold climate actions.

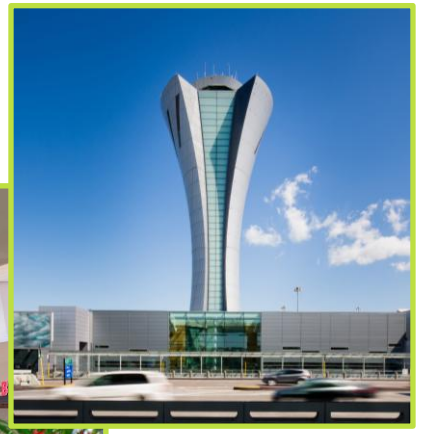
SFO's mission is to deliver an airport experience where people and planet come first.

Committed to achieving **zero waste by 2030**

Offer convenience and an elevated user experience

Reusables are inclusive and intuitive. They are a globally recognized and accepted practice. Waste sorting, recycling, and composting are not.

They **eliminate confusion, frustration, and consequent apathy of waste sorting.**



Thank you

Evelyn Amara Ferreira, Zero Waste and Compliance Lead

SFO Sustainability + Environmental Operations

Evelyn.Ferreira@flysfo.com | sustainability@flysfo.com

https://sustainability.flysfo.com

Zero Waste

at the most innovative university

Arizona State University

Molly Longton *(she/her)*
Program Manager
University Sustainability Practices

Arizona State University

4 main campuses: Tempe, Downtown Phoenix, Polytechnic, West

Global locations and online learning network

183,000 + students

University Sustainability Practices

Ensuring ASU meets its sustainability goals and initiatives

Strategize and Measure

Engage

Practice

Sustainability pillars

Climate Action

02.

Materials and services

03.

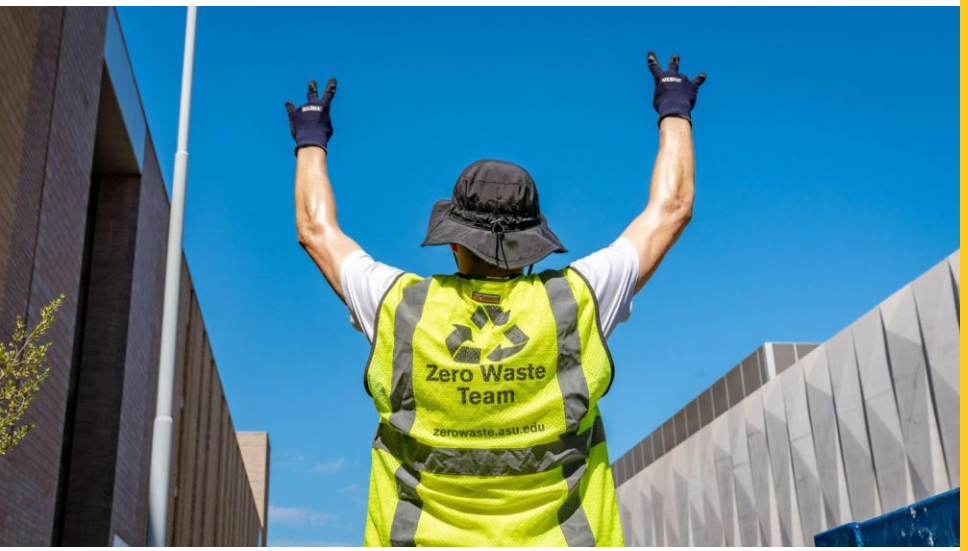
Stewardship of place

04.

Campus culture

05.

Leadership, education and innovation



What we do: Zero Waste champions on-campus waste reduction and recirculation with Facilities Management, OUA/CPMG, Business Operations & USP.

- **Unify and standardize** campus collections, bins and messaging.
- **Collect** specialty recycling material.
- **Analyze** the wastestream.
- **Work with partners** to address opportunities in the stream.
- **Manage** the waste service contract for ASU **and inform** other policies that affect the waste stream.

Zero Waste Initiatives

- Specialty recycling
- Waste sorting events
- Residential compost program
- Office compost program
- Ditch the Dumpster: move in and move out
- Green Games

Previous Signage

- Labels used to be inconsistent or unclear
- Hard to identify items by text alone
- Limited accessibility across ASU locations

One University, Many Places

- Provide consistent branding and signage across all ASU campuses
- Support Zero Waste and behavior change through clear visuals
- Applicable to diverse settings: dining, offices, events and athletics

Label Development Process

- Developed internal bin standards.
- Label templates and signage guidelines developed with Comms team.
- Bin label guide maintained and updated as needed.
- Adaptable layout options for indoor, outdoor, wall-mounted, stadium, etc.

Photo Library

- Photoshoot of commonly disposed items by stream.
- Images used to support clarity and match real-world materials.
- Ongoing process: items added or removed as materials change.






Material Outline

Recents | Starred

Share folder

Name	Who can access	Modified
Aquafina-plastic-bottle-med.png	29 members	11/10/2015 6:34 pm
Aquafina-plastic-bottle-sm.png	29 members	11/10/2015 6:34 pm
AthleticShoes-lrg.png	29 members	2/15/2016 2:44 pm
AthleticShoes-med.png	29 members	2/15/2016 2:45 pm
AthleticShoes-sm.png	29 members	2/15/2016 2:45 pm
AthleticShoes-xlrg.png	29 members	2/15/2016 2:42 pm
bagel-cream-cheese-lrg.png	29 members	11/18/2015 4:51 pm
bagel-cream-cheese-med.png	29 members	11/18/2015 4:51 pm
bagel-cream-cheese-sm.png	29 members	11/18/2015 4:52 pm
bagel-cream-cheese-xlrg.png	29 members	11/18/2015 4:51 pm
Balast-side-lrg.png	29 members	11/6/2017 12:53 pm
Balast-side-xlrg.png	29 members	11/6/2017 1:11 pm
Balast-top-xlrg.png	29 members	11/6/2017 1:07 pm
BananaPeel-lrg.png	29 members	11/10/2015 6:34 pm

Visual Consistency Across Labels

- Standard color coding:
  a. Green = Compost
  b. Blue = Recycle
  c. Maroon = Donations
- Same image used across label versions to build recognition

Adaptable to Different Settings

- Labels tailored for the environment.
- Outdoor vs indoor bins.

Tailored for Specific Locations

- Stadiums only have **recycle and compost.**
- Athletic bins feature photos of typical game-day items (nacho trays, cups).
- Prevents confusion with real-world examples.

Bonus Messaging

- Athletic bins have extra space for side signage.
- Promote ASU sustainability ranking (#1 from AASHE).
- Share transit tips, refill stations, etc.

Enjoy game day without the parking hassle

Take a Valley Metro bus or light rail

Park free at any park-and-ride location, then ride the light rail to Mountain America Stadium, Home of the ASU Sun Devils.

Bus stops:

- Destinations throughout the Greater Phoenix area.

Light rail stops:

- Downtown Phoenix campus.
- Mountain America Stadium at Veterans Way and College Avenue.
- Phoenix Sky Harbor International Airport.
- Sports and cultural venues.

Commute with your discounted student U-Pass or employee Platinum Pass.

ASU parking.asu.edu/transit

Repeatedly ranked

#1

innovation
ASU ahead of MIT and Stanford
— U.S. News & World Report

sustainability
ASU ahead of Stanford and UC Berkeley
— Sustainability Tracking, Assessment & Rating System

global impact
ASU ahead of MIT and Penn State
— Times Higher Education

ASU

Think before you throw.

Zero Waste
Reduce | Reuse | Recycle
zerowaste.asu.edu

ZeroWasteASU
@ZeroWasteASU
zerowasteasu

ASU

Reuse
Refill
Recycle

Zero Waste
Reduce | Reuse | Recycle
zerowaste.asu.edu

ZeroWasteASU
@ZeroWasteASU
zerowasteasu

ASU

Internal Printing

- Signs printed by ASU Print & Imaging Lab.
- Fast turnaround for damaged or outdated signs.

Case Study

Student Union Compost Update

- Catering switched to compostable utensils.
- Photos of new utensils taken and added to **compost** label.
- Removed plastic utensils from **landfill** label.
- Update applied only in the Student Union where product change occurred.

Compostable paper

Food

ASU ZeroWaste.asu.edu ZeroWasteASU @ZeroWasteASU zerowasteasu

Compostable paper

Wooden cutlery

Food

ASU ZeroWaste.asu.edu ZeroWasteASU @ZeroWasteASU zerowasteasu

ASU Bins and Labels

Arizona State University

Zero Waste

Reduce | Reuse | Recycle

Email recycle-q@asu.edu if you find an unlabeled or mislabeled bin.

Community

Use case: For daily centralized commingled recycling in offices, classrooms, hallways, kitchenettes and public spaces.

Variations: (1) Recycle
(2) Landfill

Artwork: 1 vertical placements

Specs: 11” x 17”

Serviced: ASU Custodial Services

Procurement: (1) Recycle
(2) Landfill

Suggested marketing: Recycle big list

Additional Resources

- ASU Bin and Label Guide
- Zero Waste Website
- Email recycle-q@asu.edu if you have any questions.


Questions?

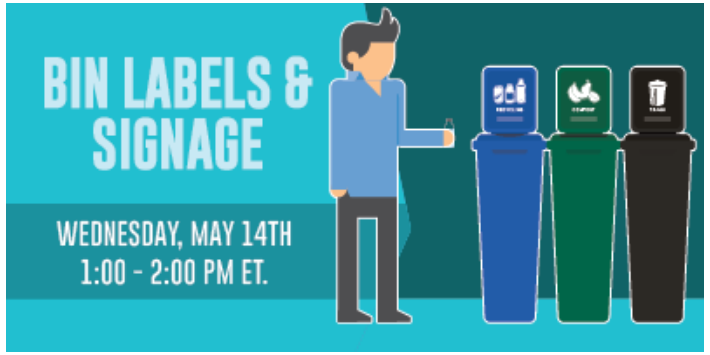
Do you have resources to share?

- Examples of effective custom signage
- Pilot study results
- Case study reports
- Other relevant resources?

Share links in the Chat

Chatlog will be provided to attendees, first name only

Today's Program Online



- Recording
- Presentation slides
- Resources
- Chatlog

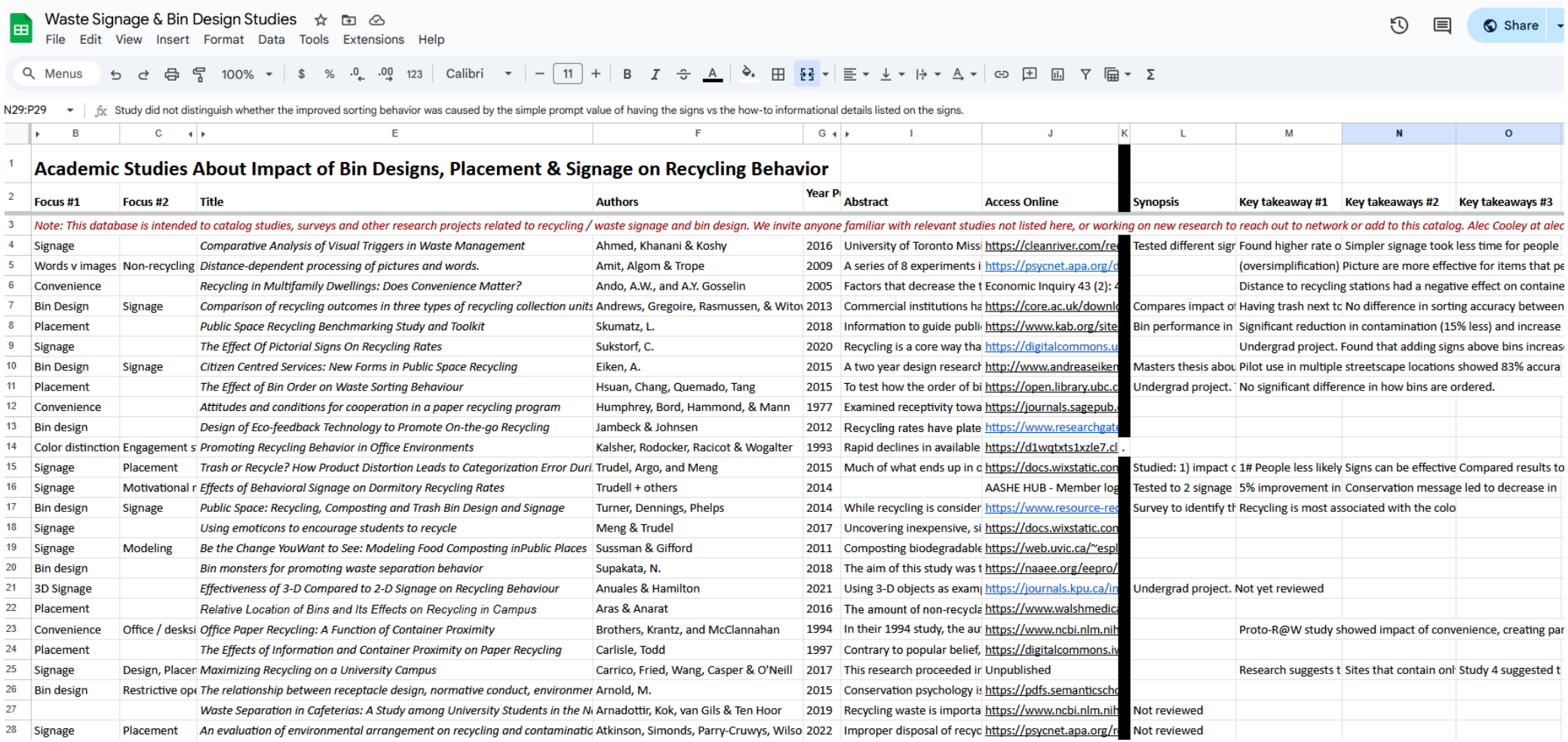
Link will be emailed in coming days

Archive of Past Programs

- Centralized office collections
- Developing Bin Standards
- Rebuilding confidence in recycling
- Reuse programs

+ More

Database of Academic Studies



Waste Signage & Bin Design Studies

File Edit View Insert Format Data Tools Extensions Help

Share

Menus 100% $ % .0 .00 123 Calibri 11 B I

N29:P29 | Study did not distinguish whether the improved sorting behavior was caused by the simple prompt value of having the signs vs the how-to informational details listed on the signs.

	B	C	E	F	G	I	J	K	L	M	N	O
1	**Academic Studies About Impact of Bin Designs, Placement & Signage on Recycling Behavior**											
2	**Focus #1**	**Focus #2**	**Title**	**Authors**	**Year P**	**Abstract**	**Access Online**		**Synopsis**	**Key takeaway #1**	**Key takeaways #2**	**Key takeaways #3**
3	*Note: This database is intended to catalog studies, surveys and other research projects related to recycling / waste signage and bin design. We invite anyone familiar with relevant studies not listed here, or working on new research to reach out to network or add to this catalog. Alec Cooley at alec*											
4	Signage		*Comparative Analysis of Visual Triggers in Waste Management*	Ahmed, Khanani & Koshy	2016	University of Toronto Missi	https://cleanriver.com/re		Tested different sigr	Found higher rate o	Simpler signage took less time for people	
5	Words v images	Non-recycling	*Distance-dependent processing of pictures and words.*	Amit, Algom & Trope	2009	A series of 8 experiments i	https://psycnet.apa.org/c			(oversimplification)	Picture are more effective for items that pe	
6	Convenience		*Recycling in Multifamily Dwellings: Does Convenience Matter?*	Ando, A.W., and A.Y. Gosselin	2005	Factors that decrease the t	Economic Inquiry 43 (2): 4			Distance to recycling stations had a negative effect on containe		
7	Bin Design	Signage	*Comparison of recycling outcomes in three types of recycling collection units*	Andrews, Gregoire, Rasmussen, & Witov	2013	Commercial institutions ha	https://core.ac.uk/downlo		Compares impact of	Having trash next to	No difference in sorting accuracy between	
8	Placement		*Public Space Recycling Benchmarking Study and Toolkit*	Skumatz, L.	2018	Information to guide publi	https://www.kab.org/site		Bin performance in	Significant reduction in contamination (15% less) and increase		
9	Signage		*The Effect Of Pictorial Signs On Recycling Rates*	Sukstorf, C.	2020	Recycling is a core way tha	https://digitalcommons.u			Undergrad project. Found that adding signs above bins increas		
10	Bin Design	Signage	*Citizen Centred Services: New Forms in Public Space Recycling*	Eiken, A.	2015	A two year design research	http://www.andreaseiken		Masters thesis abou	Pilot use in multiple streetscape locations showed 83% accura		
11	Placement		*The Effect of Bin Order on Waste Sorting Behaviour*	Hsuan, Chang, Quemado, Tang	2015	To test how the order of bi	https://open.library.ubc.c		Undergrad project.	No significant difference in how bins are ordered.		
12	Convenience		*Attitudes and conditions for cooperation in a paper recycling program*	Humphrey, Bord, Hammond, & Mann	1977	Examined receptivity towa	https://journals.sagepub.					
13	Bin design		*Design of Eco-feedback Technology to Promote On-the-go Recycling*	Jambeck & Johnsen	2012	Recycling rates have plate	https://www.researchgat					
14	Color distinction	Engagement s	*Promoting Recycling Behavior in Office Environments*	Kalsher, Rodocker, Racicot & Wogalter	1993	Rapid declines in available	https://d1wqtxts1xzle7.cl		.			
15	Signage	Placement	*Trash or Recycle? How Product Distortion Leads to Categorization Error Duri*	Trudel, Argo, and Meng	2015	Much of what ends up in c	https://docs.wixstatic.con		Studied: 1) impact c	1# People less likely	Signs can be effective	Compared results to
16	Signage	Motivational r	*Effects of Behavioral Signage on Dormitory Recycling Rates*	Trudell + others	2014		AASHE HUB - Member log		Tested to 2 signage	5% improvement in	Conservation message led to decrease in	
17	Bin design	Signage	*Public Space: Recycling, Composting and Trash Bin Design and Signage*	Turner, Dennings, Phelps	2014	While recycling is consider	https://www.resource-rec		Survey to identify th	Recycling is most associated with the colo		
18	Signage		*Using emoticons to encourage students to recycle*	Meng & Trudel	2017	Uncovering inexpensive, si	https://docs.wixstatic.con					
19	Signage	Modeling	*Be the Change YouWant to See: Modeling Food Composting inPublic Places*	Sussman & Gifford	2011	Composting biodegradable	https://web.uvic.ca/~espl					
20	Bin design		*Bin monsters for promoting waste separation behavior*	Supakata, N.	2018	The aim of this study was t	https://naaee.org/eepro/					
21	3D Signage		*Effectiveness of 3-D Compared to 2-D Signage on Recycling Behaviour*	Anuales & Hamilton	2021	Using 3-D objects as exam	https://journals.kpu.ca/in		Undergrad project.	Not yet reviewed		
22	Placement		*Relative Location of Bins and Its Effects on Recycling in Campus*	Aras & Anarat	2016	The amount of non-recycla	https://www.walshmedica					
23	Convenience	Office / deskst	*Office Paper Recycling: A Function of Container Proximity*	Brothers, Krantz, and McClannahan	1994	In their 1994 study, the au	https://www.ncbi.nlm.nih			Proto-R@W study showed impact of convenience, creating par		
24	Placement		*The Effects of Information and Container Proximity on Paper Recycling*	Carlisle, Todd	1997	Contrary to popular belief,	https://digitalcommons.iv					
25	Signage	Design, Placer	*Maximizing Recycling on a University Campus*	Carrico, Fried, Wang, Casper & O'Neill	2017	This research proceeded ir	Unpublished			Research suggests t	Sites that contain onl	Study 4 suggested t
26	Bin design	Restrictive ope	*The relationship between receptacle design, normative conduct, environmer*	Arnold, M.	2015	Conservation psychology is	https://pdfs.semanticscho					
27			*Waste Separation in Cafeterias: A Study among University Students in the N*	Arnadottir, Kok, van Gils & Ten Hoor	2019	Recycling waste is importa	https://www.ncbi.nlm.nih		Not reviewed			
28	Signage	Placement	*An evaluation of environmental arrangement on recycling and contaminatio*	Atkinson, Simonds, Parry-Cruwys, Wilso	2022	Improper disposal of recyc	https://psycnet.apa.org/r		Not reviewed			

Blog Reviews of Studies on Signage

ADVANCING RECYCLING | BLOGS

SIGNAGE PLACED ABOVE BINS IMPROVES RECYCLING

JUNE 7, 2022 | BY ALEC COOLEY

By my count, there are no fewer than 130 published academic papers that have studied some aspect of how to influence recycling behavior. This is a lot of effort to understand what seems like a simple, routine action: what causes a person to drop an empty bottle or sheet of paper through the opening of one bin versus another? We've learned a number of things over time. Recycling behavior is driven by layers of factors, including the situation a person experiences as they discard an...

CONTINUE READING

READING TIME: 9 MIN

SHARE:

ADVANCING RECYCLING | BLOGS | SIGNAGE CONVERSATIONS WITH BRENDA PULLEY

THE USE OF IMAGES VS. WORDS ON RECYCLING SIGNAGE, PT 1

OCTOBER 15, 2021 | BY ALEC COOLEY

This blog is part of a series of conversations between Busch System's Senior Advisor, Alec Cooley and Brenda Pulley exploring the science of recycling behavior in relation to bin and signage design. This is the first part of a three-part series – you can find PART TWO of the series here, and PART THREE of the series here. Alec: Welcome to the second post in our ongoing blog series exploring the intersection of recycling behavior and bin and signage design. Our goal with these is to...

CONTINUE READING

READING TIME: 12 MIN

SHARE:

Next Up:

- 101 Primer
- Live consultation
- Participate in discussion or just listen in.

Look for registration link in the chat and with email tomorrow

Coming Up in July

Thank You to Our Panelists!

Evelyn Amara Ferreira

Zero Waste & Compliance Lead

San Francisco International Airport

Molly Longton

Program Manager

University Sustainability Practices

Arizona State University

Share Feedback with Presenters

<u>Post-Webinar Survey:</u>

- Prompt at end of program, or
- Look for Email tomorrow