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# Sustainable Purchasing and Ecolabel Use in U.S. Local Governments



**Arizona State University** 



### **About Me**

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Sustainable Purchasing **Research Initiative** 

# Two Parts...

# 1. Results of a U.S. study on cities' SPPs

# 2. Results of international study on ecolabel design

SPP: Sustainable Purchasing Policy



# Sustainable Purchasing at U.S. Federal and State Levels

- Federal level
  - Executive orders (3)
    - Sustainability = criteria within federal agencies' purchasing
  - Clinton administration
    - "Greening the Government Through Waste Prevention, Recycling and Federal Acquisition"
  - Obama administration expansion
    - Reduce greenhouse gas emissions
    - Stimulate demand for sustainable products
  - No enforcement mechanism
  - Policy likely to change under Trump administration
- State Level some states endorse it California



# **Cities as Innovators**

380 U.S. mayors pledged to meet goals of Paris Climate Agreement

# 1. Do U.S. cities that adopt a SPP differ from nonadopters?

# 2. What factors are associated with SPP implementation success?



# **U.S. Project Scope**

- Sample of 791 U.S. cities of >25,000 residents
  - Representative based on location, size and income
- Surveyed department directors • Environment, finance and public works
- Focused specifically on environment
- Data collection completed April 2017
  58.0% cities (459)
  33.8% individuals (616)



Sustainable Purchasing Research Initiative **Project Faculty** Nicole Danall, Justin Stritch, Stuart Bretschneider, Lily Hsueh Research Institute for Environmental Economics and Management



SSRC

Arizona State University

Center for Organization

Research and Design



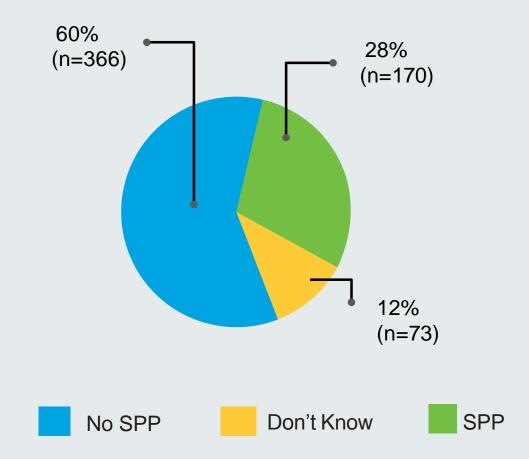
- All 860 Japanese municipalities of <u>></u>25,000 residents
- Surveying department directors

   Environment, finance and public works
- Focusing specifically on environment
- Data collection will be completed January 2018
   > 83.0% municipalities (714)
  - > 50.0% individuals (430)
- Return November 2018 January 2019

Sustainable Purchasing Research Initiative

**Project Faculty** Nicole Danall, Toshi Arimura, Takuro Miyomoto

## **U.S. SPP Adoption**







# 1. Do U.S. cities that adopt a SPP differ from nonadopters?

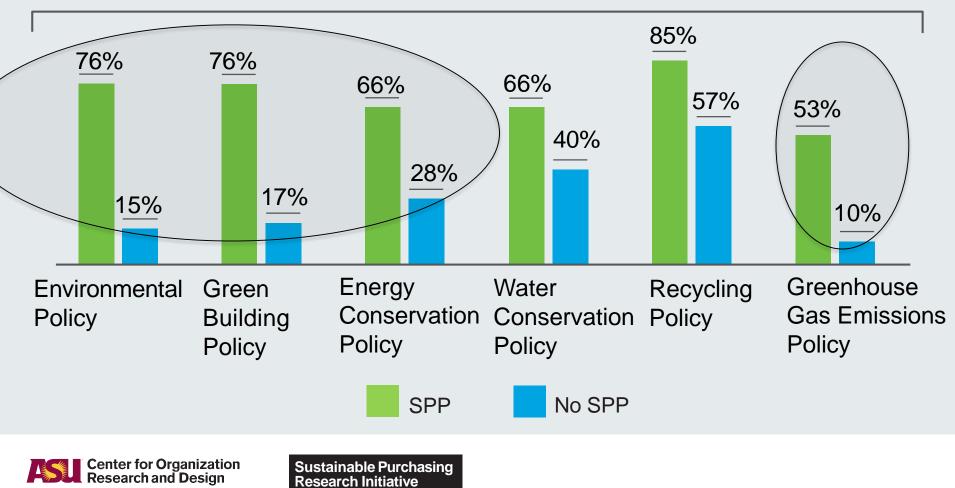
- A. Citywide complementary policies and practices
- B. Information access
- C. Leadership and resources
- D. Vendor roles



## **A.** Complementary Policies

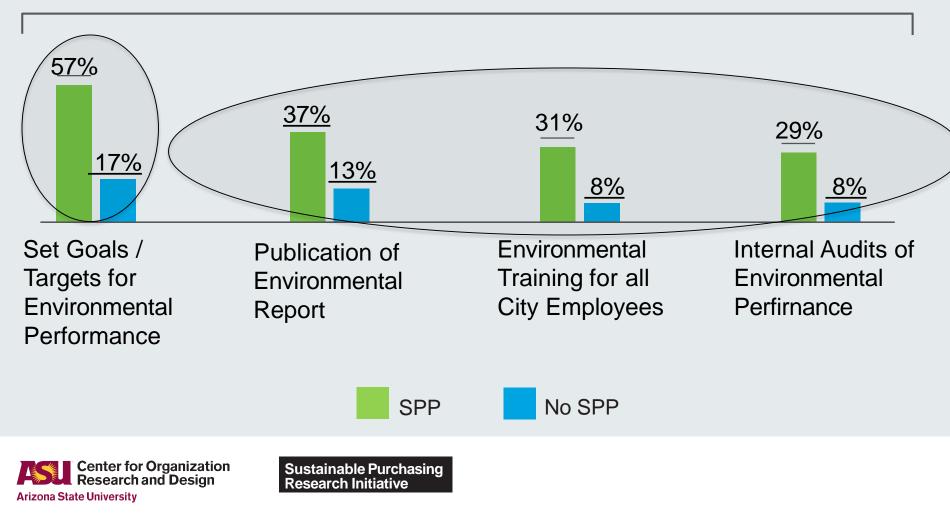
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#### Citywide Implementation of Complementary Environmental Policies

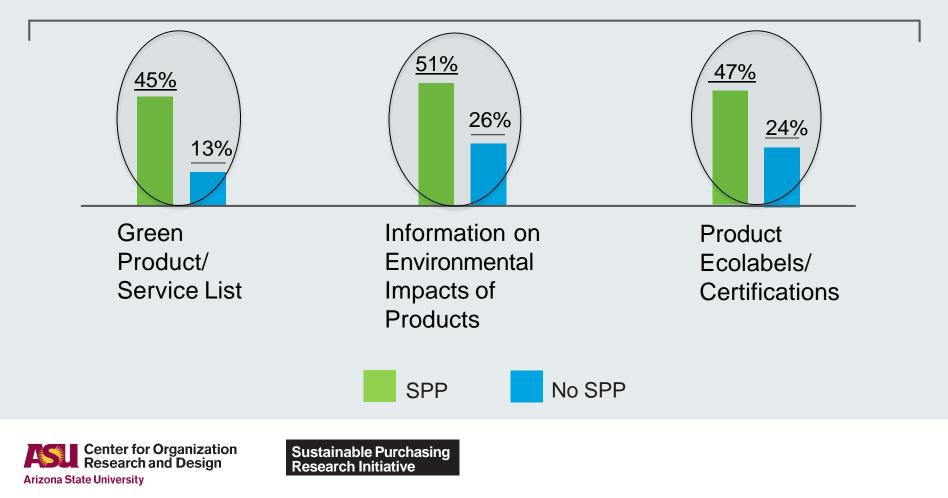


### **A. Complementary Practices**

Citywide Implementation of Environmental Practices

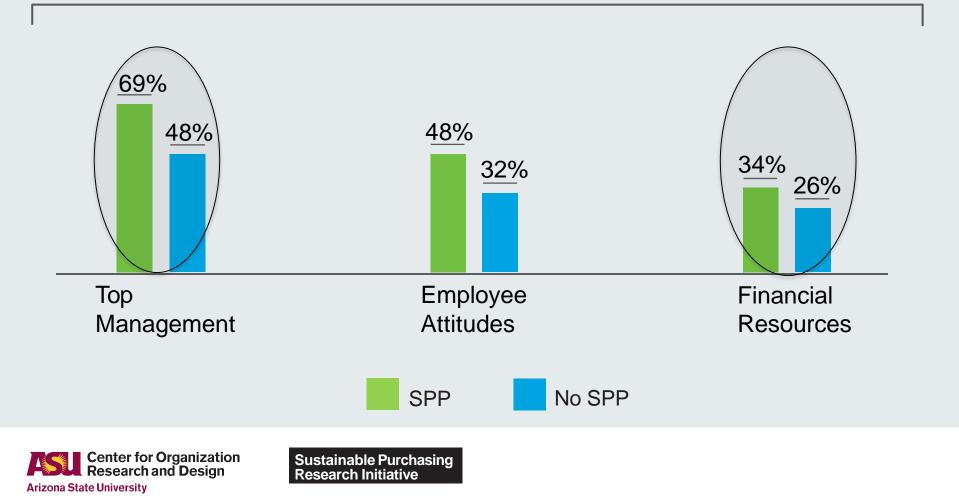


#### Information Sources Available to Departments When Making Purchasing Decisions



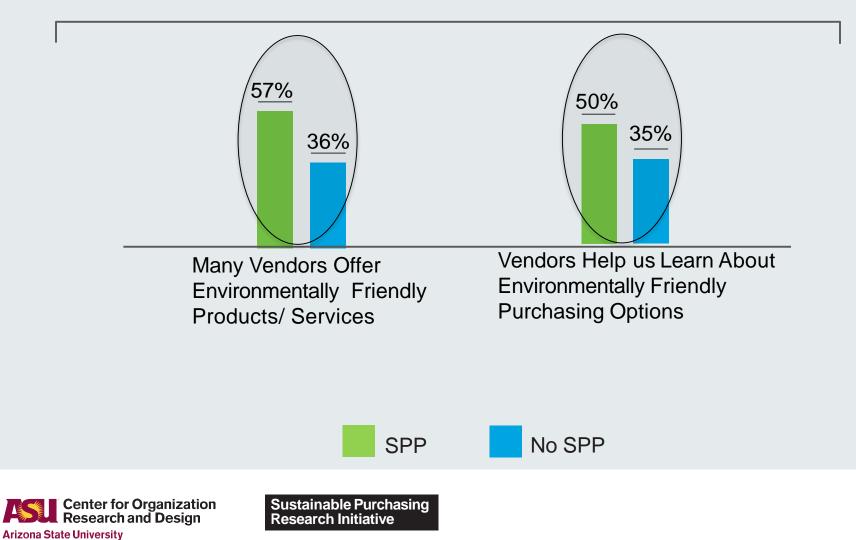
## C. Leadership

#### Facilitators of Departments' Ability to Implement Sustainable Purchasing





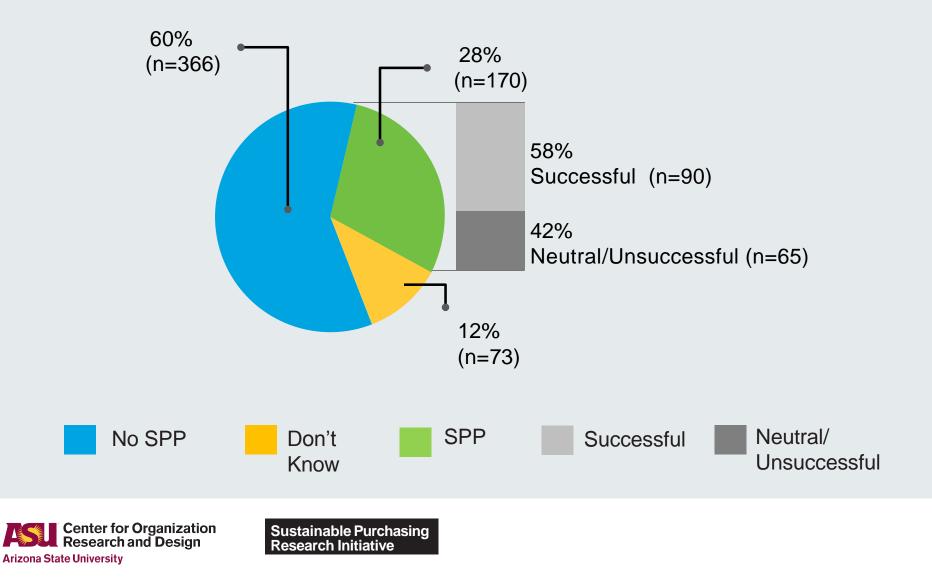
#### Vendor Roles



# But adopting a SPP does not mean that it will be successful at reducing environmental impacts...



### **U.S. SPP Implementation Success**





# 2. What Factors Are Associated With U.S. Cities' Sustainable Purchasing <u>Success</u>?

#### A. Citywide complementary policies and practices

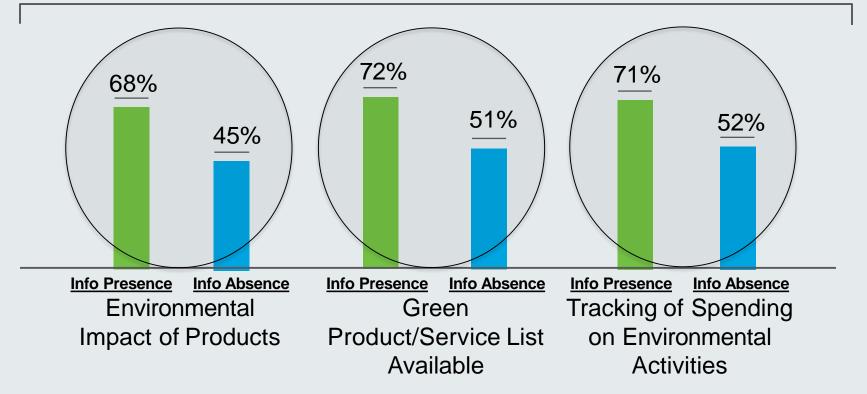
#### B. Information access

- C. Leadership and resources
- D. Collaborative relationships with vendors
- E. Innovation culture



### **Information Access**

#### Given Access to Types of Information, Probability of a City Implementing a Successful SPP





**Recommendations for Cities to Increase SPP Adoption and Implentation Success** 

## **Our 8 Recommendations**

- 1. Build on complementary policies and practices
- 2. Use information about environmentally preferred products
- 3. Utilize e-procurement systems that integrate environmental product information
- 4. Track spending related to sustainable purchases
- 5. Enhance collaborative vendor relationships
- 6. Assign accountability to top-level management
- 7. Foster a culture for innovation
- 8. Participate in professional networks to share best practices



## **U.S. Federal Position**

- No federal regulation of ecolabels
- Federal Trade Commission regulates deceptive advertising claims
  - False "green" advertising considered #1 area for consumer deception
  - Limited prosecutions
- U.S. Environmental Protection Agency offers some guidance
  - o Guidelines for Environmental Performance Standards and Ecolabels
  - Only considered a limited number of ecolabels



### Ecolabels

- 1990 = ~ 1 dozen
- 2017 = ~ 465
- Different sponsors
  - o Government
  - Industry Associations
  - Independent Organizations
    - Standards setting organizations
    - Environmental NGOs





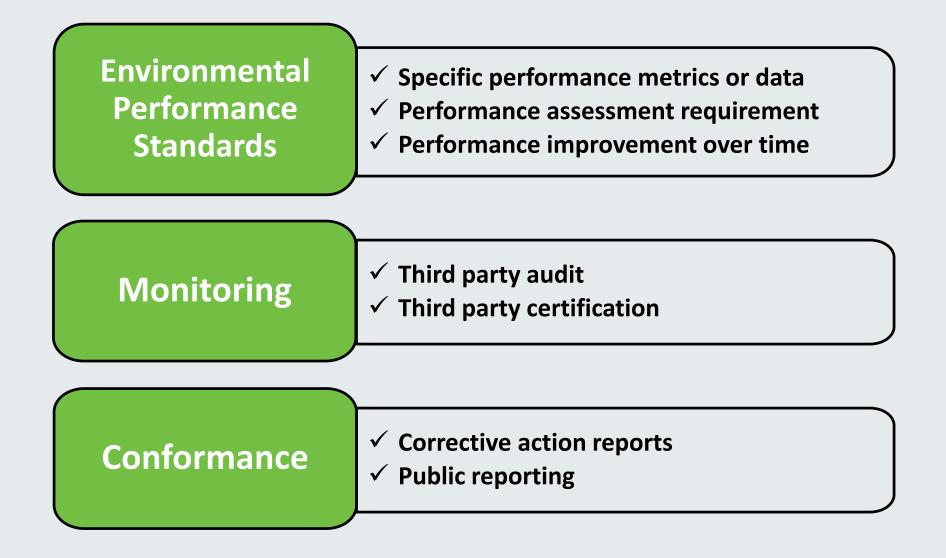




#### PART TWO: Ecolabel design (Darnall, Ji & Potoski, *Regulation & Governance*, forthcoming)

- Are some ecolabels more credible than others?
  - Is <u>sponsorship</u> a reliable information cue (signal) about the rule structures of ecolabels?
  - $\circ$  International study







### Data

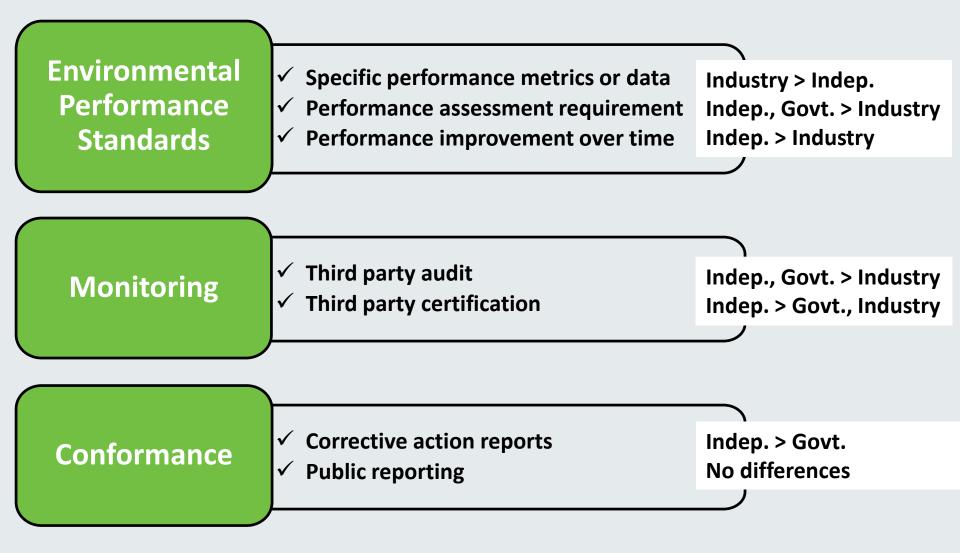
- Ecolabel Index (www.ecolabelindex.com)
  - Largest directory of global ecolabels
  - 2015 contained program design information for <u>436</u>
     <u>ecolabels</u>
- Limited sample to ecolabels...
  - OECD countries
  - Still functioning in 2015
  - Online contact information
  - →352 ecolabels
- Only ¼ had complete data
  - o 265 <u>incomplete</u>



### Data

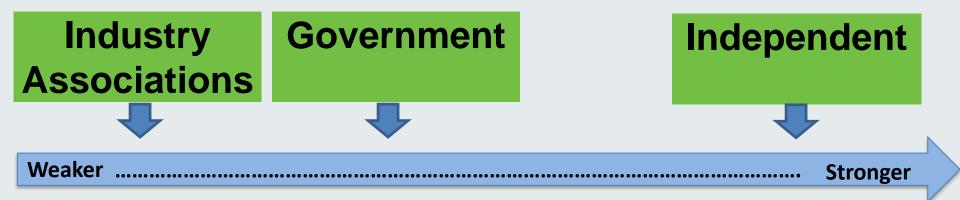
- For ecolabels with incomplete information...
  - Survey program managers about ecolabel rules
  - 10 questions
    - Environmental standards
    - Monitoring requirements
    - Conformance requirements
  - 102 responses (38% response rate)
- Combined data for 189 ecolabels
   Complete data for 54% of ecolabels













# Governments need information access for SPPs to be successful

**Ecolabels can assist** 

## Sponsorship = important information cue → Independent ecolabels are more robust



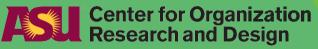
## **Additional Information & Articles**

- U.S. cities' SPP adoption
- Updates on Japan SPP study
- Ecolabel studies

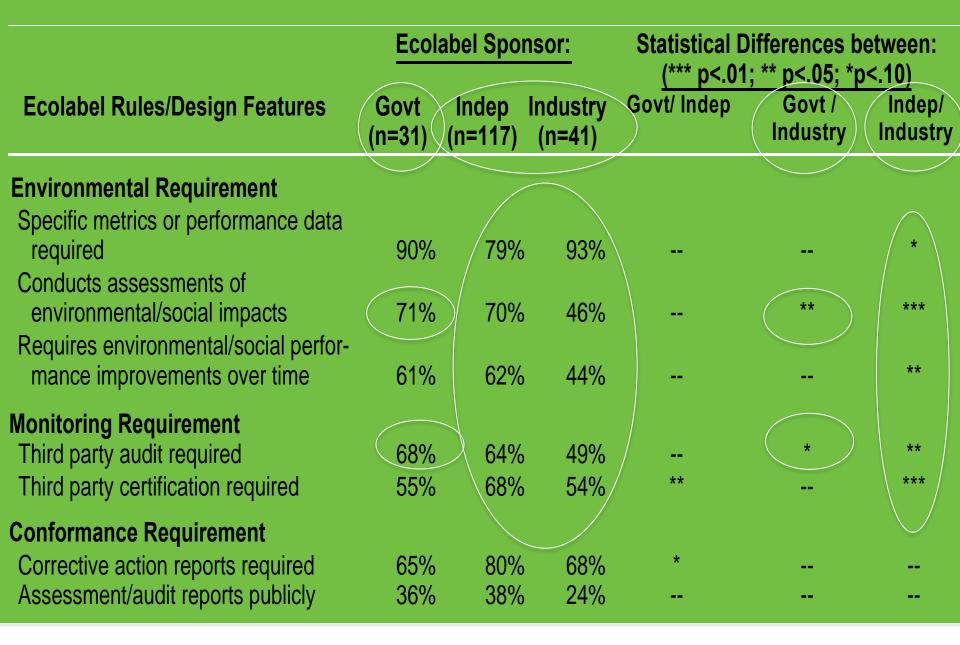
spa.asu.edu/SPRI

# **Questions?**

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	Ecolabel Sponsor:			Statistical Differences between: (*** p<.01; ** p<.05; *p<.10)		
Ecolabel Rules/Design Features	Govt (n=31)	indep (n=117)	Industry (n=41)	Govt/ Indep	Govt / Industry	Indep/ Industry
Environmental Requirement						
Specific metrics or performance data required	90%	79%	93%			**
Conducts assessments of environmental/social impacts Requires environmental/social perfor-	71%	70%	46%		**	***
mance improvements over time	61%	62%	44%	-		**
Monitoring Requirement	000/	0.40/	100/		*	**
Third party audit required Third party certification required	68% 55%	64% 68%	49%	*		**
Conformance Requirement		0.00/				
Corrective action reports required Assessment/audit reports publicly	65% 36%	80% 38%	> 68% 24%			

