

## A history of sustainable practices

Greenest building  
is a reused  
building



Reclaiming  
contaminated  
inner city sites

Rainwater  
filtration



Efficient HVAC  
system

Sustainable  
transport



Natural Lighting and  
for energy  
efficiency

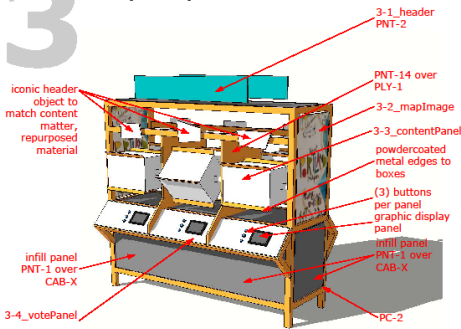
Recycling and composting  
programs

Scholarship programs

Sustainability education in  
programs and exhibits

# Morphing Map

## 3 Morph Map



### VISITOR LEARNING GOALS

Goal 1: Allow visitors to explore sustainable resources in the Portland metro area.  
Goal 2: Provide access to information that will help visitors better understand the Portland Metro Region.

### EXHIBIT DESCRIPTION

Morph Map is a multi-user mechanical exhibit that aims to help visitors explore resources that will help them make more sustainable decisions in the Portland Metro region, and also hear from real Portlanders who are making more sustainable decisions. Visitors can explore independently or in a group. The exhibit features eight turnstile blocks (similar to vintage Wheel of Fortune letters). Each block contains content related to one set of community resources (local libraries, farmers markets, community gardens, recycling centers, public transportation). Portland is full of resources that can help you make more sustainable choices.

### USER INTERFACE

1. Visitors approach one of the 8 resource blocks to learn about the area featured on the box.
2. Visitors turn the block to read stories about the resource and see locations of each resource in their area.
3. After reading the information on the block, visitors can vote about their habits/preferences related to each of the resources.
4. Visitors can then see the results of how others voted.

Default Settings: The resource blocks are left from the previous user, the voting screen returns to its timeout state.

### PARTS LIST

QTY	NOTES
1	投票按钮
1	投票按钮
1	投票按钮

### MATERIALS SCHEDULE TYPE

PLV-1	1/2" FSC certified plywood
CAB-X	Repurposed (cabinet/dooring) Sheet Goods
PNT-1	Modis 8472 Wild Mushroom or equivalent
PNT-2	Modis 7548 Kodak Valley or equivalent
PNT-14 (accent color)	Modis AC113 TChange or equivalent
PC-2	Tiger Drylac NAL 2003

### GRAPHICS SCHEDULE TYPE SIZE NOTES

3-1_header	direct print or stencil	48"x8"	QTY=1
3-2_mapImage <td>direct print</td> <td>21"x34.75"</td> <td>QTY=2</td>	direct print	21"x34.75"	QTY=2
3-3_contentPanel	direct print	14"x18"	QTY=8
3-4_votePanel	direct print	11"x26.5"	QTY=8

**OMSI**  
Ecological Encounters with Technology

Morph Map

**FINAL CONCEPT**

PROJECT #213

01/10/12  
REV: 01/26/12

DESIGNER:  
T. Hoffman /  
M. Segner

3.0



# Wasted

## 18 Wasted

**USER INTERFACE**

1. Visitors use the handcrank to crank balls to the top of the "mission-critical" food entry area.
2. Balls roll through the pathway describing the upstream impacts of food production.
3. The balls enter the play area and rest inside of the metal ball targets.
4. Visitors use manual levers to try to get the food balls into the targeted holes, learning about ways to reduce food waste from the targets.
5. As balls hit the targets, mechanical sounds indicate success. Balls that are not directed into targets are collected in the food-waste area.
6. After all the balls have hit the targets or have entered the "waste" area, the visitor may play again by operating the handcrank to release more balls.

Default Settings: No balls are on the playing surface, and the handcrank must be turned to move the balls into the play area.

**PARTS LIST**

PARTS LIST	QTY	NOTES
Baller wheels	2	powdercoated Tiger Dymak RAL 3021
Baller supports	2	1/2" x 1/2" x 1/2" aluminum
Handcrank	1	powdercoated Tiger Dymak RAL 3021
17 wooden balls	17	recessed 8 at a time

**MATERIALS SCHEDULE**

PART	TYPE	NOTE
18-1	1/2" x 1/2" certified plywood	
18-2	Recessed Cabinet/Dooring/Plural Goods	
18-3	Roller Baller Wheel/Mechanism or equivalent	
18-4	Roller AC1191 Camout/Gold or equivalent	
18-5	Roller AC1191 Camout/Gold or equivalent	
18-6	Roller AC1191 Camout/Gold or equivalent	
18-7	Tiger Dymak RAL 3021	

**GRAPHIC SCHEDULE**

PART	TYPE	NOTE
18-1	direct print or stencil	21"x11"
18-2	direct print	11"x11"
18-3	direct print	11"x11"
18-4	direct print	11"x11"
18-5	direct print	11"x11"
18-6	direct print	11"x11"
18-7	direct print	11"x11"
18-8	direct print	11"x11"

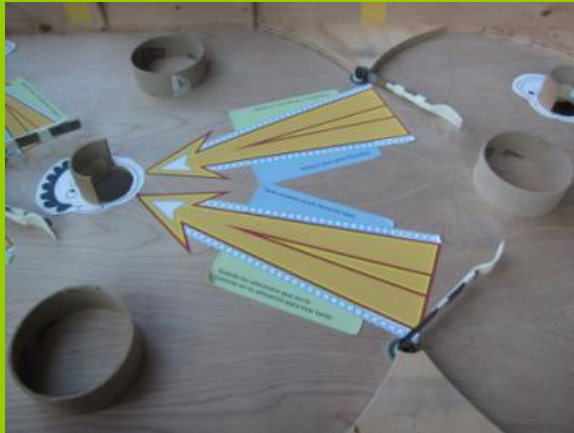
**VISITOR LEARNING GOALS**

Goal 1: Inform visitors about the problem of food waste.  
 Goal 2: Provide opportunities for visitors to understand behaviors that will lead to less food waste.  
 Goal 3: Want to focus on food choices that children make, as well as the ones adults make.

**EXHIBIT DESCRIPTION**

Visitors release "food" (balls) at the top of an upright backpanel to a pinball-like game. Each ball travels down the back panel through visual depiction of the food being grown, harvested, transported, packaged, and sold. Once the balls reach the bottom of the back panel, they are released from the top of the pinball-like playing surface. The balls fall, being captured and held "upside-down" by the wall. Visitors can manipulate finger levers with buttons on either side of the table, and try to divert the balls into receptacles representing total amount of food consumed. The goal of the interactive is to prevent as much food from the "waste" bin to the "user" targets.

**18.0**



# Sustainability House

## 6 Sustainability House

**USER INTERFACE**

1. Visitors enter the sustainability house and read a series of instructions on a display panel.
2. Visitors are challenged to find the most sustainable energy saving choices they can make.
3. Visitors choose from a variety of props some with energy saving tips, and some with comic reveals to learn more about saving energy in their homes.

Default Settings: The images and messages return to their timeout position.

**PARTS LIST**

PARTS LIST	QTY	NOTES
repurposed furniture/building components	TBD	
repurposed siding	TBD	

**MATERIALS SCHEDULE TYPE**

ID	TYPE	DESCRIPTION
PC-1	TYPE: FSC certified plywood	
CAB-X	Repurposed cabinet (Flooring/Sheet Goods)	
PNT-2	Rodds 7445 Kodak Valley or equivalent	
PNT-5	Rodds 7445 Spring Garden Walk or equivalent	
PNT-13 (accent color)	Rodds AC100 Baby Sprout or equivalent	
PNT-14 (accent color)	Rodds AC-11 Younger or equivalent	
PC-3	Tiger Drylac RAL 6017	

**GRAPHIC'S SCHEDULE**

ID	TYPE	SIZE	NOTES
6-1_header	direct print or decal	60"x12"	QTY=1
6-2_contentPanel	direct print	21"x33"	QTY=1
6-3_revealCopy	direct print	various	QTY=TBD

**VISITOR LEARNING GOALS**

Goal 1: Visitors will leave the exhibit with concrete ideas of impactful ways they can reduce their energy consumption at home.

Goal 2: Visiting groups will converse about energy saving behaviors.

Goal 3: Visitors will learn kinesthetically- by practicing behaviors that they can implement in their own lives, and in a very similar context.

**EXHIBIT DESCRIPTION**

Visitors are challenged to find 5-7 impactful behaviors that will address energy conservation related to heating and cooling, major appliances, and small personal electronics. The visitor practices behaviors (i.e. turning off a power strip switch), and by doing so, reveals facts about the behavior. In addition to energy saving behaviors, some of the drawers, etc. will reveal surprising things that are funny, such as a frog, or a kitten, to make the experience more memorable and to encourage social interactions. The rationale behind this exhibit is to create pleasurable associations with activities that people do every day in a familiar context, and to create a memorable way to learn about some of these facts.

**OMSI**  
Energy Innovation with Education

Sustainability House

**FINAL CONCEPT**

PH06017-0033

01/18/12  
REV 01/26/12

Design:  
T. Hoffman /  
M. Sieber

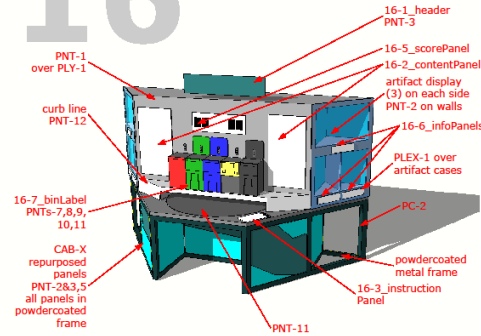
6.0



# Stuff Sorter



## 16 Stuff Sorter



### VISITOR LEARNING GOALS

- Goal 1: Visitors will practice real life skills (identifying compost, recycle, trash, toxics) and sorting into bins - that they can take home and implement immediately.
- Goal 2: Visitors learn about common misconceptions about what is or is not recyclable.
- Goal 3: Entry-level visitors will get a pat on the back for one sustainable behavior that they are probably already doing.

### EXHIBIT DESCRIPTION

Visitors sort objects in this simulated outside-recycling scenario. Before starting, visitors must wind up a mechanical crank, which stores energy to power the conveyor belt. As pucks with trash items travel by them on a conveyor belt, visitors must correctly sort the items into bins. They get immediate feedback on sorting accuracy, and can learn tips and information regarding why some items are recyclable and others are not. There are several real objects on display that have panels describing a factoid about them.



### USER INTERFACE

1. Visitors walk up to the exhibit and are instructed to turn the hand crank to power up the exhibit.
  2. After the power indicator shows full power, visitors press a button to start the activity.
  3. The turntable activates and visitors are presented with pucks that have imaged text describing various recyclable materials. The visitors must correctly sort the pucks into the appropriate bins.
  4. Visitors are given instant feedback through LED indicators above the bins whether their sorting choice was correct or incorrect.
  5. The visitor's score is tallied above the bins.
  6. The activity ends after a certain period of time when the turntable stops.
- Default Settings: pucks are in the back of the exhibit in the bins waiting to be released. Release happens once visitors power up the exhibit through the handcrank and pressing the start button.

### PARTS LIST

QTY	NOTES
10	1x green, 5 red
TBD	array-to-display-how-much-power-has-been-generated
0	(3) green and (3) red* 7 segment display for score keeping
1	start button
1	power/indicator - outer-TBD
20	HAPPY PUCKS 2008-11 small green round button
	4" circles with RFID tags

### MATERIALS SCHEDULE TYPE

TYPE	NOTES
PLY-1	1/2" FSC certified plywood
CAB-X	Repurposed Cabinet/Flooring/Sheet Goods
PNT-1	Rodda 8474 Wick Kitchenroom or equivalent
PNT-2	Rodda 7545 Kodak Valley or equivalent
PNT-3	Rodda 7450 Puerto Rico or equivalent
PNT-7	Rodda AC100 Red Red or equivalent
PNT-8	Rodda 7653 Jolly Holly or equivalent
PNT-9	Rodda AC148 Navy Navy or equivalent
PNT-10	Rodda AC104 Soorty Yellow or equivalent
PNT-11	Rodda 5203 Zuli or equivalent
PNT-12	Rodda 8474 Grey Ghost or equivalent
PNT-5	Rodda AC137 Fools Fuchsia or equivalent
PC-1	Type: DryLac-RAI, 5000.
PLEX-1	

### GRAPHICS SCHEDULE TYPE

TYPE	SIZE	NOTES
16-1_header	direct print or stencil	10" x 20" QTY=1
16-2_contentPanel	direct print	18" x 28" QTY=2
16-3_instructionPanel	direct print	12" x 28" QTY=1
16-4_puck_label	TBD	4" x 4" QTY= TBD
16-5_scorePanel	direct print	24" x 28" QTY=1
16-6_infoPanel	direct print	12" x 28" QTY=4
16-7_binLabel	direct print	TBD QTY=5



Stuff Sorter

FINAL CONCEPT

PROJECT #103

01/19/12

rev 01/26/12

Drawn by

J. Hoffner /

M. Sallet

16.0

# Three Pillars



## 2 Three Pillars

**USER INTERFACE**

1. Visitors approach the content panel and demonstration model.
2. Visitors read instructions and prepare to assemble the 3 pillar arch.
3. Visitors place the blocks in the correct position to form the arch.
4. Visitors work together to complete the arch.

Default Settings: The blocks are on the floor waiting to be set up.

**PARTS LIST**

PARTS LIST	QTY	NOTES
rigid insulation blocks	2	CNC cut and assembled
model 3 pillar	1	material TBD

**MATERIALS SCHEDULE TYPE**

PART	SCHEDULE TYPE
FB-1	Submittal Fabric - TBD
FB-2	Submittal Fabric - TBD
FB-3	Submittal Fabric - TBD
FB-4	Submittal Fabric - TBD
PC-1	Tiger Dyelec - color TBD
ABS-1	1/8" ABS - stock
CAB-X	Repurposed Cabinet/Flooring/Sheet Goods

**GRAPHICS SCHEDULE TYPE**

PART	TYPE	SIZE	NOTES
2-1_contentPanel	direct print	22" x 20"	10TY11
2-2_pillarCopy1	direct print	TBD	QTY11
2-3_pillarCopy2	direct print	TBD	QTY11
2-4_pillarCopy3	direct print	TBD	QTY11

**VISITOR LEARNING GOALS**

Goal 1: Gain familiarity and understanding of the three pillars of sustainable decision-making: Society, Environment, Economy.

Goal 2: Be able to report what a more sustainable decision is (one that has the most benefits for society, environment, and economy).

Goal 3: A self-supporting Portland requires all three pillars of sustainability.

Goal 4: Gain an understanding of how balanced pillars can result in a more sustainable decision.

**EXHIBIT DESCRIPTION**

Visitors work together to build a self-supporting three-pillar structure, similar to a Gateway arch. Each leg represents one of the three pillars of sustainability (economic, environment, social), and the blocks that make up each pillar have a logo or word on them that represents this idea. By placing the blocks in the correct positions, visitors can create a vertical structure that stands by itself. Corner stones are arranged in a triangle on the floor. There's a three-sided keystone that fits in the center to support the entire structure.

**OMSI**  
Olin Museum of Science and Industry

Three Pillars

**FINAL CONCEPT**

PROJECT #023

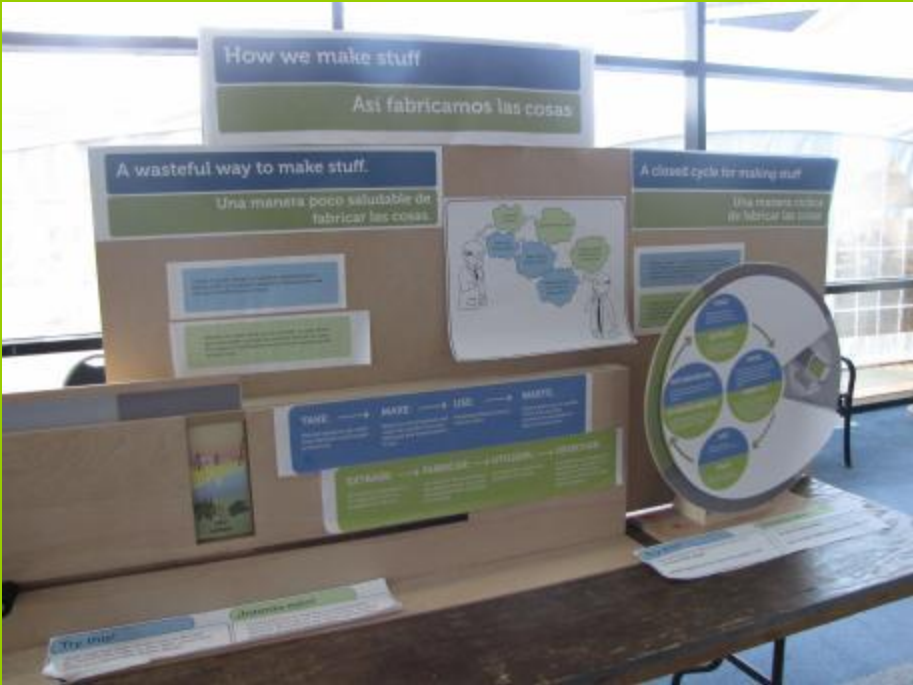
01/12/12 REV 1/02/12

DESIGNED BY  
M. SWIRE

2.0

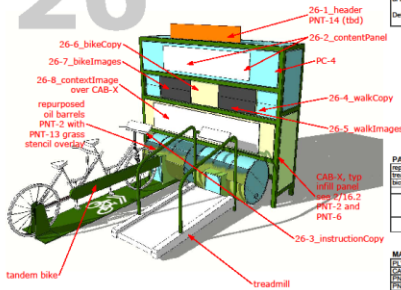


# Life Cycle of a Product



# And more...

## 26 Bike or Walk



### USER INTERFACE

1. Visitors step on the treadmill or get on the bike and begin walking or pedaling.
2. The flip-book type panel system displays a series of images on the outer display with messages about walking or cycling on the inner display.
3. Visitors can view the images and read the messages as well as reacquaint themselves to the feel of biking or walking.

Default Settings: The images and messages are stopped at the point the last user left them.

PARTS LIST	QTY	NOTES
26-1_header	1	TBD
26-2_contentPanel	1	TBD
26-3_walkImages	1	TBD
26-4_walkCopy	1	TBD
26-5_walkImages	1	TBD
26-6_bikeCopy	1	TBD
26-7_bikeImages	1	TBD
26-8_contextImage	1	TBD
26-9_walkCopy	1	TBD
26-10_walkImages	1	TBD
26-11_bikeCopy	1	TBD
26-12_bikeImages	1	TBD
26-13_contextImage	1	TBD
26-14_instructionCopy	1	TBD

### MATERIALS SCHEDULE TYPE

TYPE	SIZE	NOTES
26-1_header	48" x 36"	QTY=1
26-2_contentPanel	48" x 36"	QTY=1
26-3_walkImages	12" x 13.5"	QTY=6
26-4_walkCopy	12" x 13.5"	QTY=6
26-5_walkImages	12" x 13.5"	QTY=6
26-6_bikeCopy	12" x 13.5"	QTY=6
26-7_bikeImages	12" x 13.5"	QTY=6
26-8_contextImage	12" x 13.5"	QTY=1
26-9_walkCopy	12" x 13.5"	QTY=6
26-10_walkImages	12" x 13.5"	QTY=6
26-11_bikeCopy	12" x 13.5"	QTY=6
26-12_bikeImages	12" x 13.5"	QTY=6
26-13_contextImage	12" x 13.5"	QTY=1
26-14_instructionCopy	12" x 13.5"	QTY=1

### GRAPHICS SCHEDULE TYPE

TYPE	SIZE	NOTES
26-1_header	48" x 36"	QTY=1
26-2_contentPanel	48" x 36"	QTY=1
26-3_walkImages	12" x 13.5"	QTY=6
26-4_walkCopy	12" x 13.5"	QTY=6
26-5_walkImages	12" x 13.5"	QTY=6
26-6_bikeCopy	12" x 13.5"	QTY=6
26-7_bikeImages	12" x 13.5"	QTY=6
26-8_contextImage	12" x 13.5"	QTY=1
26-9_walkCopy	12" x 13.5"	QTY=6
26-10_walkImages	12" x 13.5"	QTY=6
26-11_bikeCopy	12" x 13.5"	QTY=6
26-12_bikeImages	12" x 13.5"	QTY=6
26-13_contextImage	12" x 13.5"	QTY=1
26-14_instructionCopy	12" x 13.5"	QTY=1

**OMSI**  
Oregon Museum of Science and Industry

**FINAL CONCEPT**

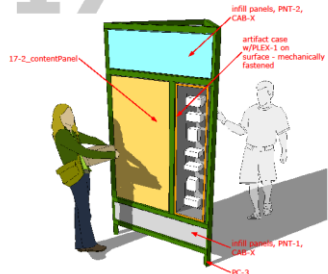
PROJECT #33

REVISED: 06/18/12

DATE: 06/18/12

BY: J. S. S. S.

## 17 The Hub



### USER INTERFACE

1. Visitors learn about different aspects of sustainability through the graphic panels and artifacts on display.

### PARTS LIST

PARTS LIST	QTY	NOTES
17-1_header	1	TBD
17-2_contentPanel	1	TBD

### MATERIALS SCHEDULE TYPE

TYPE	SIZE	NOTES
17-1_header	48" x 36"	QTY=1
17-2_contentPanel	48" x 36"	QTY=1

**OMSI**  
Oregon Museum of Science and Industry

**FINAL CONCEPT**

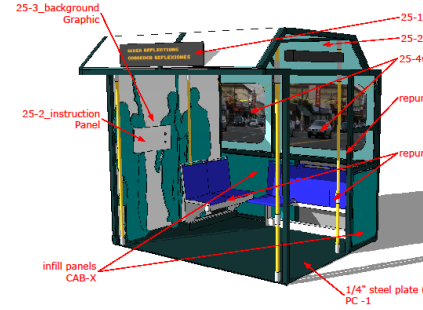
PROJECT #33

REVISED: 06/18/12

DATE: 06/18/12

BY: J. S. S. S.

## 25 Transportation Stories



### USER INTERFACE

1. Visitors enter the exhibit and either stand or take a seat on the bus seats.
2. The bus display board displays information about bus stops just like a real bus.
3. Visitors choose a story language by selecting the English or Spanish Button.
4. The story of the selected language is played.

Default Settings: The stories are stopped until selected by the visitor, the reader board cycles through its displays as programmed.

### PARTS LIST

PARTS LIST	QTY	NOTES
25-1_header	1	TBD
25-2_contentPanel	1	TBD
25-3_backgroundGraphic	1	TBD
25-4_windowGraphic	1	TBD
25-5_instructionPanel	1	TBD
25-6_repurposedStanchion	1	TBD
25-7_repurposedSeats	1	TBD
25-8_1/4"SteelPlate	1	TBD

### MATERIALS SCHEDULE TYPE

TYPE	SIZE	NOTES
25-1_header	48" x 36"	QTY=1
25-2_contentPanel	48" x 36"	QTY=1
25-3_backgroundGraphic	48" x 36"	QTY=1
25-4_windowGraphic	48" x 36"	QTY=1
25-5_instructionPanel	48" x 36"	QTY=1
25-6_repurposedStanchion	48" x 36"	QTY=1
25-7_repurposedSeats	48" x 36"	QTY=1
25-8_1/4"SteelPlate	48" x 36"	QTY=1

### GRAPHICS SCHEDULE TYPE

TYPE	SIZE	NOTES
25-1_header	48" x 36"	QTY=1
25-2_contentPanel	48" x 36"	QTY=1
25-3_backgroundGraphic	48" x 36"	QTY=1
25-4_windowGraphic	48" x 36"	QTY=1
25-5_instructionPanel	48" x 36"	QTY=1

**OMSI**  
Oregon Museum of Science and Industry

**FINAL CONCEPT**

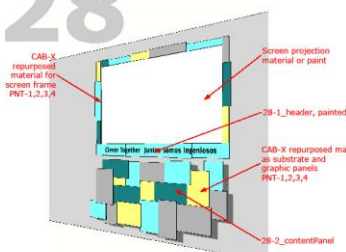
PROJECT #33

REVISED: 06/18/12

DATE: 06/18/12

BY: J. S. S. S.

## 28 Intro Panel/NOW Board



### USER INTERFACE

1. Visitors view the flip panels by walking up to them and reading the panels.
2. Visitors may view the NOW Board graphics from anywhere in the exhibit as part of an environmental approach to the content.

### PARTS LIST

PARTS LIST	QTY	NOTES
28-1_header	1	TBD
28-2_contentPanel	1	TBD
28-3_backgroundGraphic	1	TBD
28-4_windowGraphic	1	TBD
28-5_instructionPanel	1	TBD

### MATERIALS SCHEDULE TYPE

TYPE	SIZE	NOTES
28-1_header	48" x 36"	QTY=1
28-2_contentPanel	48" x 36"	QTY=1
28-3_backgroundGraphic	48" x 36"	QTY=1
28-4_windowGraphic	48" x 36"	QTY=1
28-5_instructionPanel	48" x 36"	QTY=1

### GRAPHICS SCHEDULE TYPE

TYPE	SIZE	NOTES
28-1_header	48" x 36"	QTY=1
28-2_contentPanel	48" x 36"	QTY=1
28-3_backgroundGraphic	48" x 36"	QTY=1
28-4_windowGraphic	48" x 36"	QTY=1
28-5_instructionPanel	48" x 36"	QTY=1

**VISITOR LEARNING GOALS**  
 Goal 1. Sustainability means being responsible so that we can thrive today, and into the future.  
 Goal 2. More sustainable decisions are made based on economic, environmental, and social considerations.  
 Goal 3. Sustainability has to do with survival as well as quality of life.  
 Goal 4. By making small changes in the way that we do things, we collectively make a big difference.

**EXHIBIT DESCRIPTION**  
 Below the roller is a large wall-mounted tile display which includes the exhibit title and logo, introductory copy, and possibly credit for partners and sponsors. Content addresses the following questions: What does the term "sustainability" mean? What is a sustainable decision? Why do I care about sustainability? Sustainability means living responsibly so that we can thrive today, and into the future.

The NOW Board projections provide bits and pieces of information, images, etc. that can allow visitors to control their own message about what Sustainability is, and why it's important. Projection content includes bilingual reader graphics, kinetic typography, and/or other dynamic projections of earth, phrases, pictures, and possibly videos. Museum volunteers/audience members may be tapped for words, phrases, responses, etc. during the exhibit development. The projection content continuously receives a refreshing copy.

**OMSI**  
Oregon Museum of Science and Industry

**FINAL CONCEPT**

PROJECT #33

REVISED: 06/18/12

DATE: 06/18/12

BY: J. S. S. S.

**OMSI**  
Oregon Museum of Science and Industry

**FINAL CONCEPT**

PROJECT #33

REVISED: 06/18/12

DATE: 06/18/12

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**OMSI**  
Oregon Museum of Science and Industry

**FINAL CONCEPT**

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**OMSI**  
Oregon Museum of Science and Industry

**FINAL CONCEPT**

PROJECT #33

REVISED: 06/18/12

DATE: 06/18/12

BY: J. S. S. S.



# Sustainability

**Promoting sustainable decision making in informal education**



# Sustainability

Social

Financial

Environmental

To thrive now and in the  
future

# Public feedback

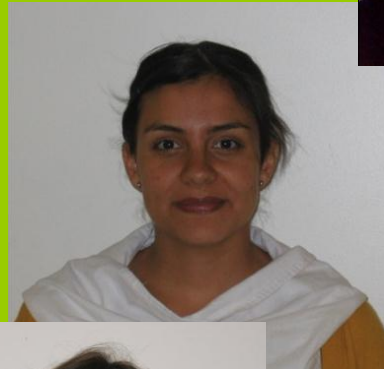
## **Sustainability**

- Green
- Eco
- Environmental

## **Sostenibilidad**

- Family
- Neighborhood
- Community
- Jobs

# Sustentabilidad



**IRCO**

**CES**

**Verde**

**Advisors**

Describing the benefits of  
the behaviors

# Three Pillars









"I planted strawberries in my yard  
and it became a destination..."

Joan, NE Portland resident

(503) 937-0001  
stop 13

"I planted strawberries in my yard,  
and it became a destination..."

Joan, NE Portland resident

call (503) 937-0001  
stop 13

"Yo sembré **fresas** en  
el jardín frente a mi casa y  
se convirtió en un destino..."

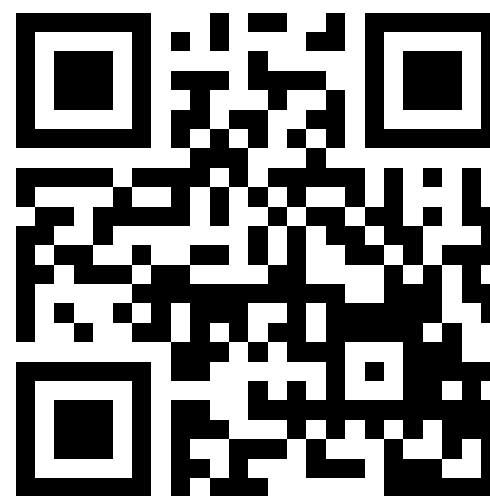
- Joan, Residente del NE de Portland

Llama y escucha la  
historia de Joan:  
503.937.0066 (Historia #24)



Para ver la presentación  
audiovisual escanea el código

**OMSI**  
Mobile Exhibits



**OMSI**  
Everyday Encounters with Science

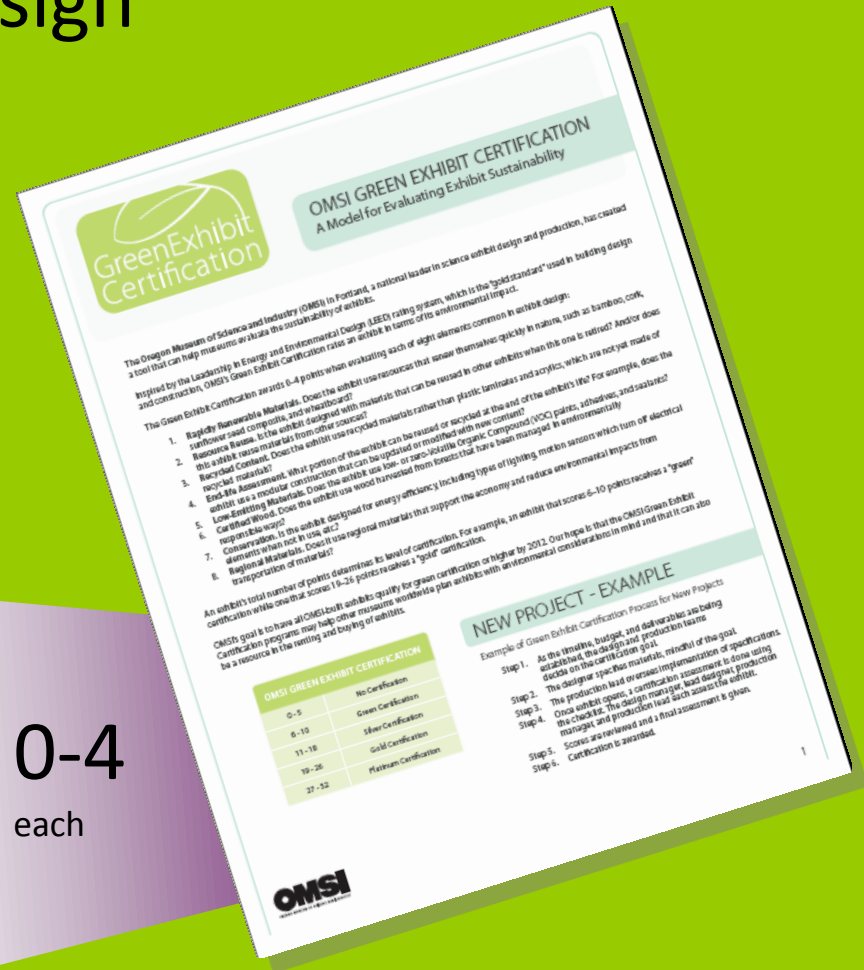
# Sustainable Exhibit Design

OMSI Green Exhibits Certification levels:

- 0 - 4 No Certification
- 5-10 **OMSI Green** ★
- 11-18 **OMSI Silver**
- 19-26 **OMSI Gold**
- 27-32 **OMSI Platinum**

- 1. Rapidly Renewable Materials
- 2. Resource Reuse
- 3. Recycled Content
- 4. End-life Assessment
- 5. Low-Emitting Materials
- 7. Conservation
- 8. Regional Materials

0-4  
each

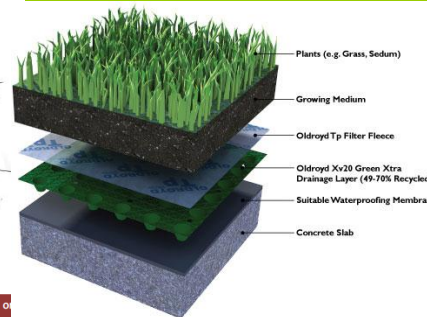




OREGON MUSEUM OF SCIENCE AND INDUSTRY

# A future of sustainable practices

Plaza rain garden



Green roof

OMSI public transportation hub



Because our community strives for:	Researcher:	PUBLIC	Impact #1- Foster informed citizens who:
A healthy, innovative, and sustainable society where:	A trusted partner and educational resource in the area of Energy Environment (E&E)	Strategic audiences identified as critical to E&E:	<ul style="list-style-type: none"> <li>Have an interest in and engage with STEM content related to E&amp;E.</li> <li>Understand "big ideas" related to:               <ul style="list-style-type: none"> <li>Earth and environmental sciences</li> <li>Energy and the tradeoffs around different energy sources</li> <li>Sustainable practices</li> </ul> </li> <li>Practice STEM skills related to:               <ul style="list-style-type: none"> <li>Sustainable decision-making</li> <li>Scientific inquiry</li> <li>Systems thinking</li> </ul> </li> <li>Have a sense of self-efficacy and identify as STEM learners who can impact their local and global</li> </ul>
	re people turn, is of age or and to end and be in the science he important	<ul style="list-style-type: none"> <li>Latinos/Hispanics</li> <li>Families with middle-school age children</li> </ul>	

Ecohouse

Net zero building



ions that:  
 Economic status, age, physical ability, and  
 related to E&E in the area of:

ities:

steers who:  
 vision in ways that include using

society:

ices that:

Topic area framework and community voices

Environmental learning center

Scholarship programs

Renovated earth hall