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Information about energy needs, concerns and sources is not adapted to non-scientific communities.

HISTORY OF THE SOLUTION



SPRING 2007

- Topic: Energy consumption
- Audience: CPS high school students
- Tools: PowerPoint presentation, discussion, feedback form



First classroom visit

FALL 2007

- Modules: Ecological Footprint, Your Energy Choices
- Audience: All Chicago high school students
- Tools: Energy game, video, feedback form



The FOOTprint

SPRING 2008

- Modules: Ecological Footprint, Cradle to Cradle
- Audience: All Chicago high school students, non-students
- Brand: How Many Earths
- Tools: Website, Teaching Kit



How Many Earths

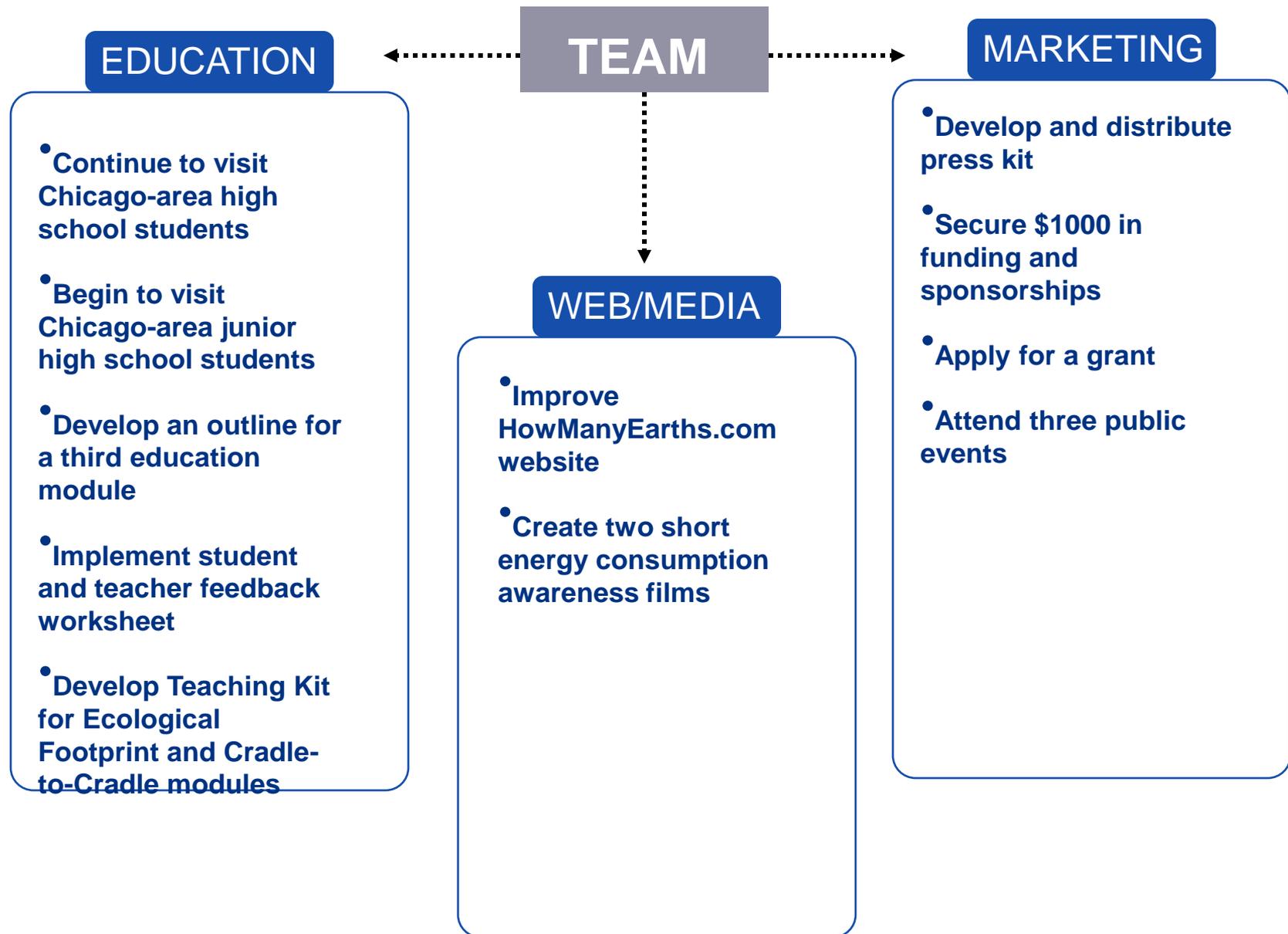
FALL 2008

?

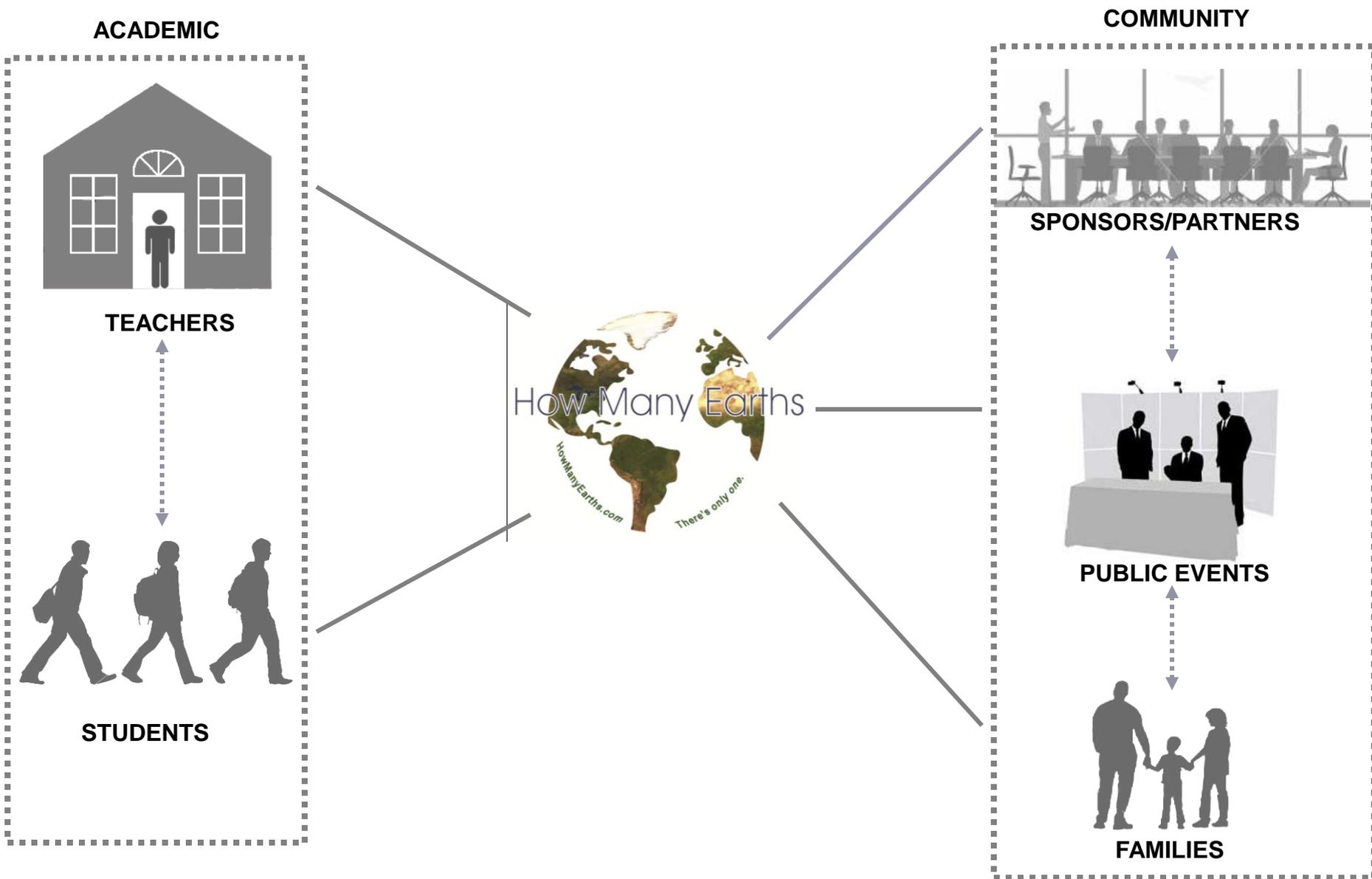
MISSION:

To promote awareness of resource consumption by delivering balanced information to Chicago-area students and residents





AUDIENCE NETWORK



TIMELINE: WORK PHASES & MILESTONES



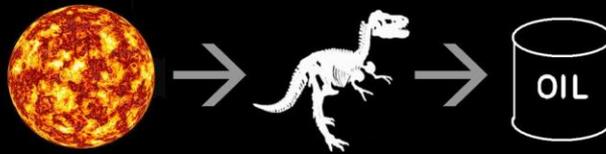
	EDUCATION	WEB/MEDIA	MARKETING
PHASE ONE	<ul style="list-style-type: none">• Ecological Footprint module & Teaching Kit• In class presentations	<ul style="list-style-type: none">• Recreate website• Research film material	<ul style="list-style-type: none">• Press kit• Identify grant opportunities• Identify event opportunities
PHASE TWO	<ul style="list-style-type: none">• Cradle-to-Cradle module & Teaching Kit• In-class presentations	<ul style="list-style-type: none">• Test website• Create film one	<ul style="list-style-type: none">• Writing grant proposal• Participate in events
PHASE THREE	<ul style="list-style-type: none">• Analyze feedback• Identify third module topic	<ul style="list-style-type: none">• Update website• Create film two	<ul style="list-style-type: none">• Book Drive• Fundraising

RESULTS

ECOLOGICAL FOOTPRINT MODULE

The Ecological Footprint

Seeing Where We Walk



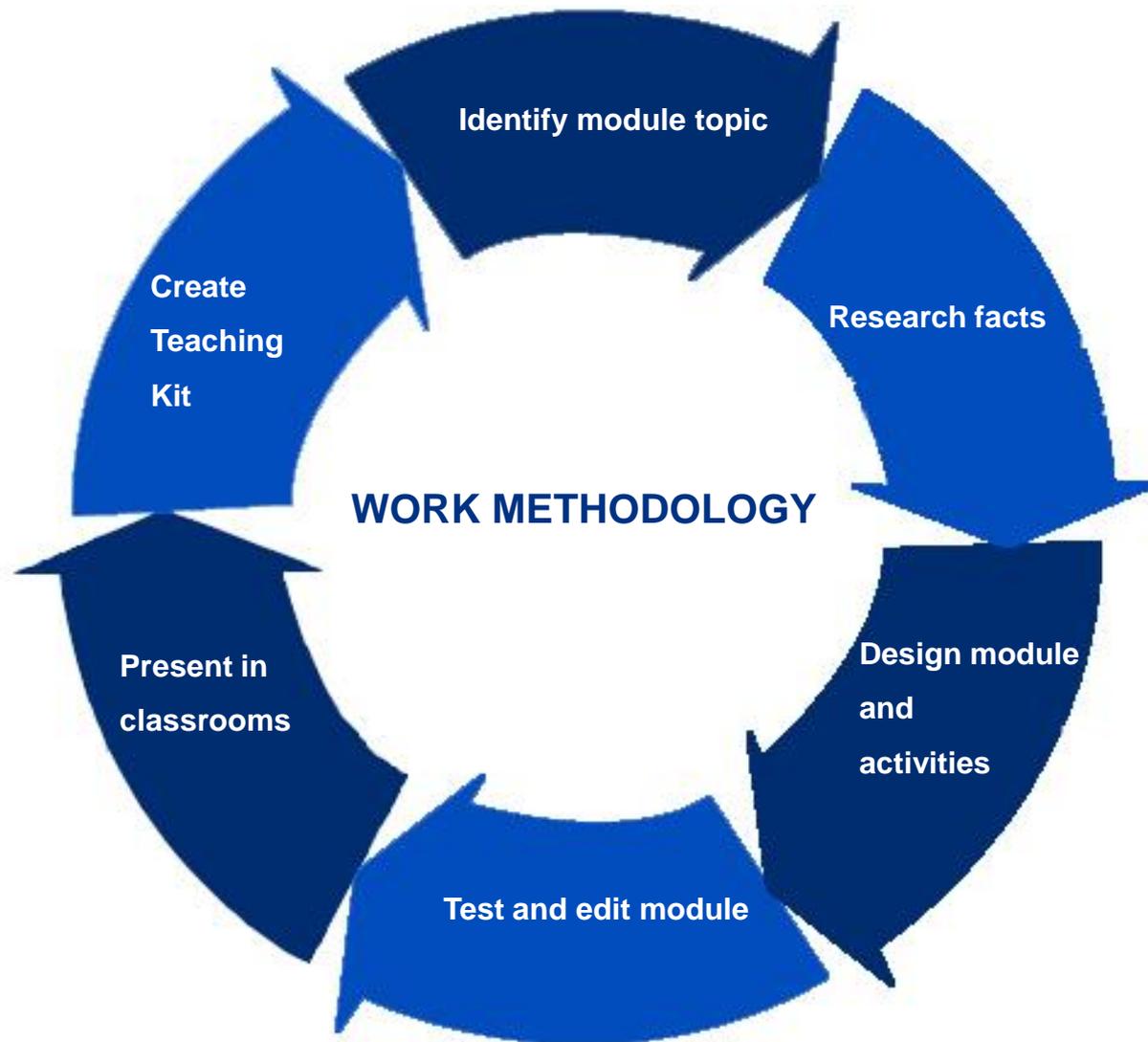
<http://www.luckyoliver.com>, <http://www1.istockphoto.com>

CRADLE-TO-CRADLE MODULE

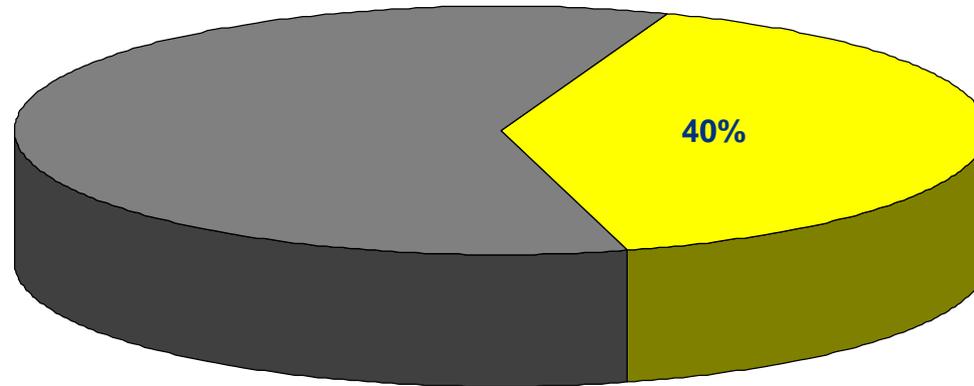
YOUR ENERGY CHOICES

Unsustainable



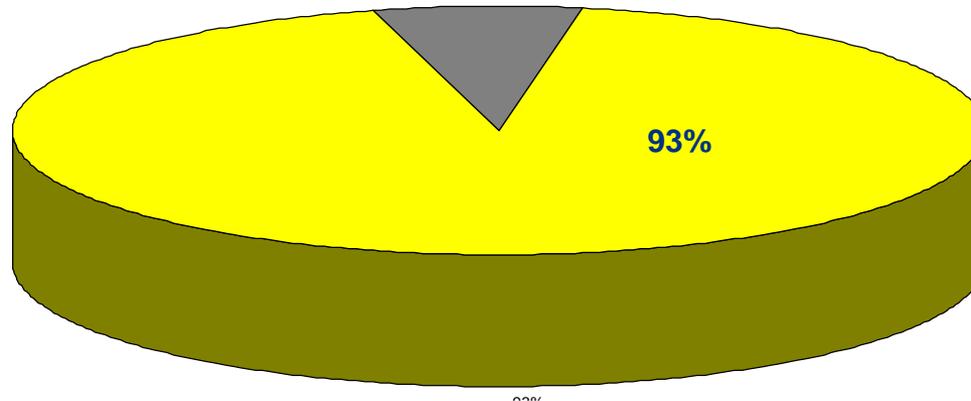


Pretest Results



Ecological Footprint Module

Posttest Results

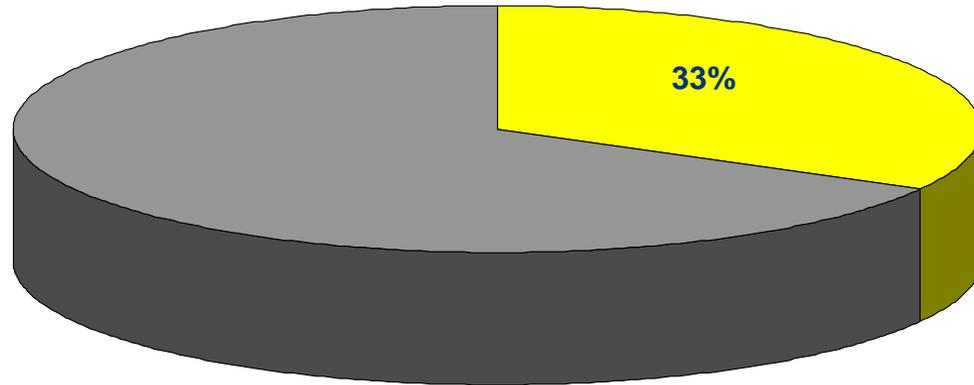


= Pass



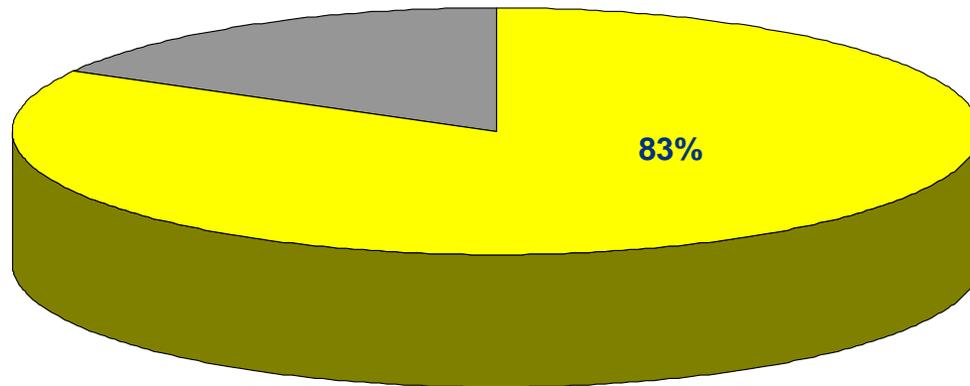
= Fail

Pretest Results



Cradle-to-Cradle Module

Posttest Results



= Pass



= Fail



Cradle to Cradle



Question	Answer	Question	Answer
1. What is the ecological footprint?	...the amount of land and water required to produce the goods and services that a person or a community consumes, and to absorb the waste that is generated.	2. How much land and water do we need to support our energy choices?	...
3. How much land and water do we need to support our energy choices?	...	4. How much land and water do we need to support our energy choices?	...

PROCEDURE:

Filling out the Ecological Footprint should take 15-20 minutes of students.

The emphasis here should be on the end result helped with the calculations of the student classroom environment is very important!

Students Expectations and Material: **HAVE AND KNOW HOW TO USE BA:**

Once the students are done, the Ecological Footprint module.

Step3: PHASE 1
(* Remember the material can be stretched on students-Student Centered material is most im

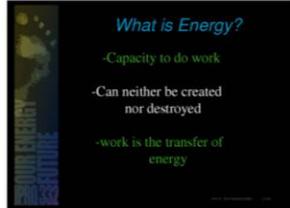
Pre Step 1: Discuss with students what energy is in a basic format.

Ask Students: What is energy?

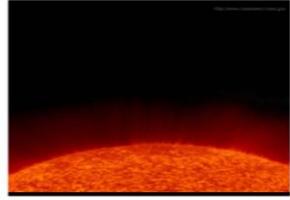
Possible Answers: The ability to do work; potential energy (stored), kinetic (movement) energy etc...

IF: This is an honors and/or advanced classroom you might expect students to explain entropy etc...

Pre Slide1:



Pre Slide2 :



This slide contains a picture of the sun.
Explain: That all energy comes from the sun. After that, it is a quick transition to the next slide

Pre Slide3:



Our Energy Choices

- Fossil Fuels
 - Coal
 - Petroleum
 - Natural Gas
- Alternative Sources
 - Bioorganic
 - Nuclear
 - Wind
 - Solar
 - Hydropower
 - Geothermal
 - Tidal

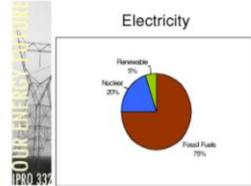
Reduce, Reuse, and

[inois Institute of Technology](#)
[RO 332 Our Energy Future](#)
ill 2008

**While presenting this slide remind the scholars that these are the same energy resources that was discussed earlier. Slide 3 and Slide 4 are just reminders.

Slide3 Which are Sustainable? **Slide4** Which are Unsustainable?

Slide 5



Ecological Footprint Teaching Kit

Cradle-to-Cradle Teaching Kit



HOW MANY ...THERE'S ONLY ONE.

[Home](#) [About Us](#) [Our Work](#) [Media](#) [Sponsorship](#) [Feedback forum](#)

Event Calendar

10/12	Harvest Festival
10/21-10/22	Pershing West School Presentation
11/10-12/14	Book Drive
11/12	Devry HS Presentations
11/18-11/25	Fundraising Begins
11/24-11/25	Dunbar HS Presentation
11/25	IT Campus raffle
12/05	IPRO DAY

How Many Earths
3424 S. State St.
Suite 4A2-2
Chicago, IL 60616

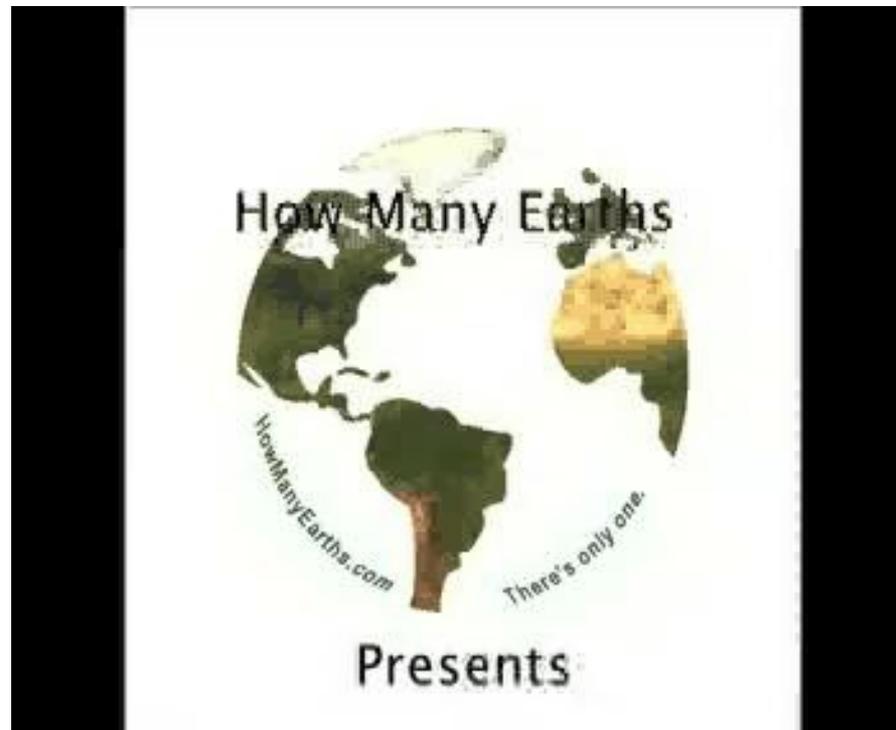
P: 312.567.5002
oorenergyfuture@gmail.com

Welcome to HowManyEarths.com!

Please feel free to use this website as a resource to learn more about us!



The HowManyEarth's Team



Film One: Ten Easy Steps to Save Energy

Film Two: Environmental News



Harvest Festival at North Park Village Nature Center, Oct. 2008, family-oriented outdoor event



Harvest Festival promotional poster



Sustainability Vision for IIT Fair, Nov. 2008, student and sponsors event



I PRO 332:
How Many Earths
RAFFLE



50 cents
per ticket

Your contribution will help us donate 'How Many Earths' Teaching Kits to Chicago-area schools. These materials will aid teachers in presenting the ideas of energy consumption and sustainability in their classrooms.

PRIZE:
2 WINNERS WILL RECEIVE A \$25 VISA GIFT CARD
 (winner announced Wednesday)



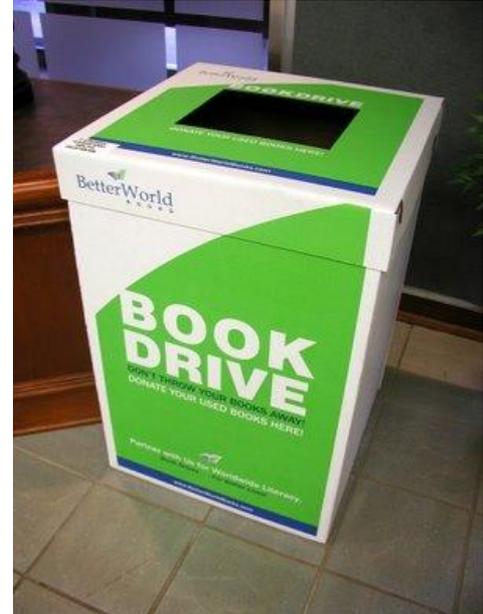
BUY TICKETS
TUESDAY NOV. 25
AT MTCC BRIDGE
11:25 AM-1:30 PM
4:30 PM-6:00 PM



WIN HOLIDAY BREAK CASH!
HELP A GREAT CAUSE!

Any questions, please e-mail Maile Rennard at OurEnergyFuture@gmail.com

IIT Raffle, MTCC, Nov. 25, 2008



Book Drive, IIT Campus, Nov 10-Dec 14

T H A N K Y O U !

HOW MANY EARTHS

WHAT IS HOW MANY EARTHS?
 How Many Earths is an organization that believes in delivering unbiased sustainability information to young people in the Chicago metropolitan area. We are a group of students at Illinois Institute of Technology.

WHAT DO WE DO?
 Educate: Teach sustainability and energy-consumption curriculums in Chicago-area schools
 Inform: Participate in public Chicago events to advocate importance of energy choices
 Create: Teaching Kit, website, fundraisers, promotional materials, film, t-shirts

WHAT IS THE TEACHING KIT?
 The Teaching Kit is a collection of materials for presenting two topics, the Ecological Footprint and Cradle to Cradle, for educators teaching 4th to 12th grades

ECOLOGICAL FOOTPRINT
 This presentation teaches renewable versus non-renewable types of energy and introduces the four categories of the Ecological Footprint.

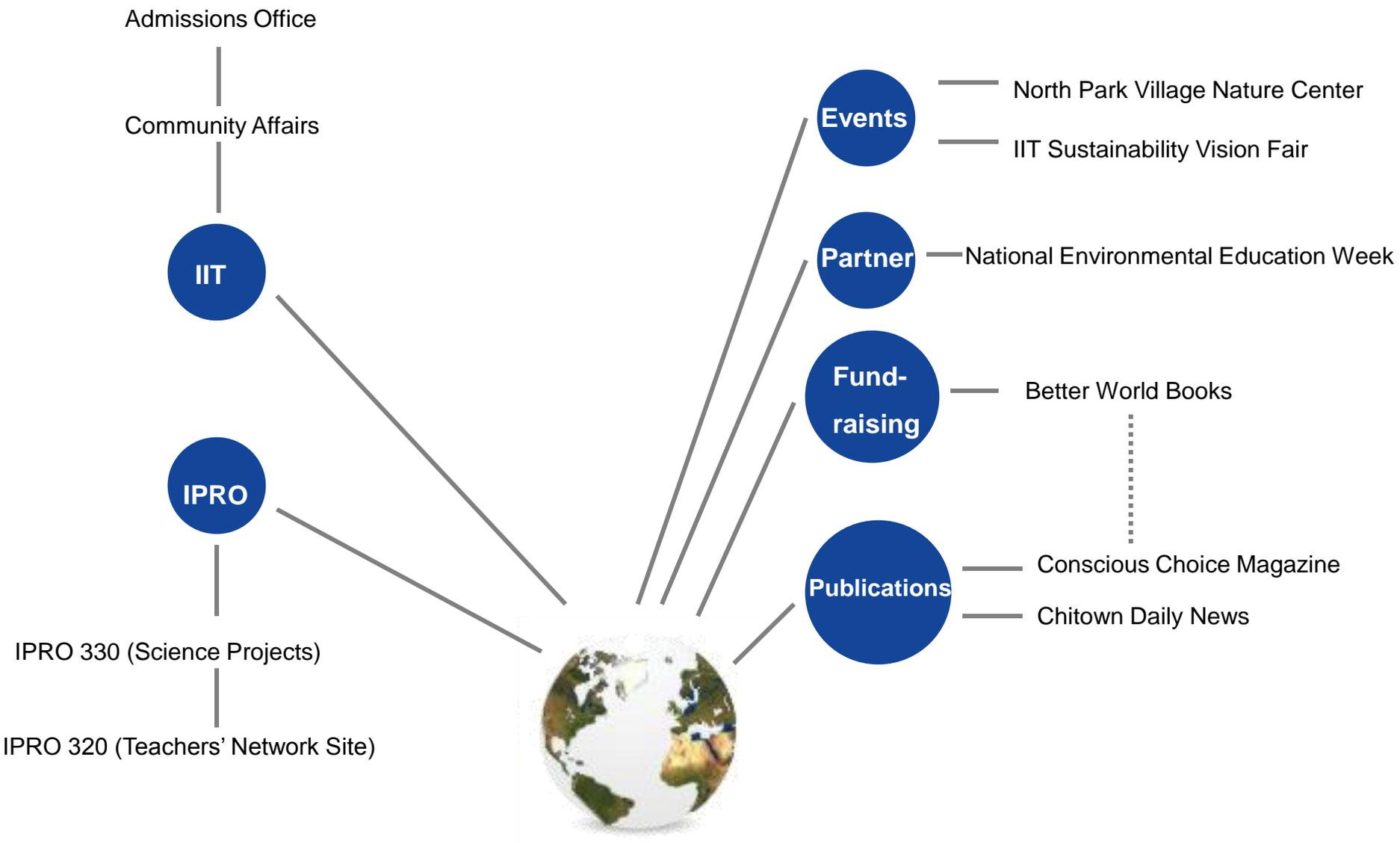
CRADLE TO CRADLE
 This presentation teaches the 3 Rs (reduce, reuse, recycle) and introduces the ideal production/disposal cycle known as Cradle to Cradle.

The Teaching Kit includes: instructional teaching guides, digital slide presentation, discussion topics, suggested activities

There's only one.

3424 S. State St. Suite 4A7-2 Chicago, IL 60614 | P: 312.567.5002 | ourenergyfuture@gmail.com

Individual Donations Campaign, Nov 18-Nov 30



The How Many Earths Network

IPRO Sponsorship

Marketing Team	\$385.00
Education Team	\$240.00
Web/Media Team	<u>\$150.00</u>
Total	\$775.00

Fundraising

Raffle	\$100.00
Book Drive	\$200.00
Individual Sponsorships	<u>\$332.00</u>
Total	\$632.00

Final Expenditures

Marketing Team	\$550.00
Education Team	\$200.00
Web/Media Team	<u>\$140.00</u>
Total	\$890.00

IPRO Sponsorship	+ \$775.00
Fundraising	+ \$632.00
Final Expenditures	- <u>\$890.00</u>
Total Net	\$517.00

CONCLUSION

- Completed the Ecological Footprint and Cradle-to-Cradle module
- Collected feedback from students and teachers
- Finalized a Teaching Kit for the Ecological Footprint and Cradle-to-Cradle modules
- Created a press kit
- Published a story in Chitown Daily News
- Participated in two public events
- Secured \$632 in sponsorship and funding
- Established partnership with National Environmental Education Week
- Improved interactivity of HowManyEarths.com website
- Created two short films

- Relating to a student demographic
- Easily adaptable materials
- Real-world applications



- InterIPRO collaboration
 - IPRO 330 Teachers' Network Site
 - IPRO 320 Science Fair Projects
- Get a Bag/Give a Bag IIT Admissions Program
- IIT Community Affairs
- Style sheet

- Widen our audience by producing new interactive teaching materials
 - Classroom demonstrations
 - Games
 - Worksheets
- Become a self-sustaining organization
 - Gain sponsorships
- Continuously enhance our website
- Follow-ups with teachers and students
- Measure long-term impact

Because there's only one...





Special Thanks to:

DeVry University Advantage Academy

A.N. Pritzker Magnet School

DoLittle East Elementary School

Pershing West Middle School Prep

DeLasalle High School

Kenwood Academy College Prep

Dunbar Vocational Career Academy

ChiTown Daily News

Conscious Choice Magazine

Prof. James Braband

The students of all the classes, without whom none of this would have been possible.

The public who showed great interest and supported our organization's mission.



Questions?



Thank you for your attention!

IPRO 332: Our Energy Future

Designing Energy Education Modules