

Work Session - 6:00 p.m. – Council Chambers

Purpose: Hear a presentation regarding the Bio-Regional Dashboard

Minutes of the Regular City Council Meeting

Held on Monday, May 6, 2013

7:00 p.m.

1. COUNCIL BUSINESS

- (a) Call Regular City Council Meeting to Order and Roll Call – 7:11 p.m.

A regular meeting of the Oberlin City Council was held on May 6, 2013 in the Council Chambers of the Oberlin City Hall, located at 85 S. Main Street Oberlin, Ohio. The meeting was called to order at 7:11 p.m., by Presiding Officer Ronnie Rimbart. Roll Call was taken as follow:

Council Members:

Present

Absent

Charles Peterson



Bryan Burgess



Sharon Soucy



Elizabeth Meadows



Scott Broadwell



Aaron Mucciolo



Ronnie Rimbart



Appointees:

Belinda Anderson, Clerk of Council



Jon Clark, Law Director



Eric Norenberg, City Manager



Sal Talarico, Finance Director



- (b) Approval of Minutes – City Council Work Session – April 15, 2013.

Motion to approve the minutes of the April 15, 2013 Work Session as submitted was moved by Broadwell, seconded by Burgess.

Roll Call:

7 Ayes

0 Nays

Motion Carried

- (c) Approval of Minutes – Regular City Council Meeting – April 15, 2013.

Motion to approve the minutes of the April 15, 2013 Regular City Council meeting as submitted was moved by Mucciolo, seconded by Peterson.

Burgess addressed the following corrections:

He noted that on page 3 of the minutes relating to Ordinance No. 13-22 AC, he was the individual who made the motion to amend the number of personal days that the department head should receive. Similarly on page 4, the motion to suspend the three readings rule and to request emergency passage of Ordinance No. 13-22 is missing a mover. (It was later noted that the mover of the motion was Vice President Soucy). Finally, on page 11, Burgess suggested that going forward he would prefer to see the names of each council member listed with their corresponding reports which takes place as part of the Council Communications portion of the agenda. A majority of Council members consented to the suggestion.

Roll Call: 7 Ayes

0 Nays

Motion Carried

(d) Proclamation – Arbor Day

Prior to reading a Proclamation on Arbor Day into the record, Mucciolo commented that he had hoped to present the Proclamation to a member of the Open Space and Visual Environment Commission, unfortunately Dr. Makris who chairs the commission had been held up elsewhere and was unable to make it.

PROCLAMATION

Arbor Day 2013

WHEREAS, in 1872, J. Sterling Morton proposed to the Nebraska Board of Agriculture that a special day be set aside for the planting of trees; and Arbor Day was first observed with the planting of more than a million trees throughout Nebraska, and is now observed throughout the nation and the world; and

WHEREAS, trees can reduce the erosion of our precious topsoil by wind and water, cut heating and cooling costs, moderate the temperature, clean the air, release life-giving oxygen, and provide habitat for wildlife; and trees are a renewable resource, giving us paper, furniture, wood for our homes, and myriad other products; and trees in our community increase residential property values, enhance the economic vitality of business areas, beautify our City, and wherever they are planted are a source of joy and spiritual renewal; and

WHEREAS, the planting of trees helps counteract global warming, because atmospheric carbon dioxide is the leading contributor to global warming, and as trees grow they remove carbon dioxide from the atmosphere, storing the carbon and releasing oxygen; and a single tree can remove more than a ton of carbon dioxide over its lifetime; and

WHEREAS, according to the United States Forest Service, 50 million strategically placed shade trees could eliminate the need for seven 100-megawatt power plants; and trees around homes and in cities slow winter winds, reducing the need for winter heating; and

WHEREAS, Oberlin was recently honored nationally for the fourteenth time as a Tree City USA by the Arbor Day Foundation, in recognition of its commitment to community forestry;

WHEREAS, the City of Oberlin's Open Space and Visual Environment Commission, along with various individuals, organizations in our community, and the City of Oberlin, have planned and undertaken appropriate exercises to commemorate the occasion;

NOW, THEREFORE, I, Ronnie Rimbart, Mayor and President of the Council of the City of Oberlin, Ohio, do hereby proclaim April 22nd, 2013, to be ARBOR DAY in the City of Oberlin, and I urge all citizens to continue supporting efforts to protect our urban forestry program, and to pass on as a legacy to future generations our deep appreciation, every day, of the abundant excellence of trees.

IN WITNESS WHEREOF, I have hereunto subscribed my hand and caused the Great Seal of the City of Oberlin, Ohio, to be affixed hereto, this 22nd day of April, 2013.

Ronnie J. Rimbart
Mayor/President of Council

Following the reading of the Proclamation, Mr. Mucciolo remarked briefly on the events that transpired during the Arbor Day celebration.

(e) Proclamation – Electrical Safety Month

Scott Broadwell presented a Proclamation to Steve Dupee, OMLPS Director, in observance of Electrical Safety Month. Dupee shared a message from Dough McMillan, who planned on purchasing safety guides related to electrical safety, for students who attend school at Eastwood and Prospect Elementary Schools.

**PROCLAMATION
ELECTRICAL SAFETY MONTH**

WHEREAS, hundreds of people die and thousands are injured each year in the United States as a result of electrically-related incidents; and

WHEREAS, there are, on average, 470 civilian deaths related to electrical home structure fires each year; and

WHEREAS, property damage resulting from home fires caused by electrical failure or malfunction amounts to more than \$1.6 billion annually; and

WHEREAS, more than seven people are electrocuted each week in the United States; and

WHEREAS, following basic electrical safety precautions can help prevent thousands of people from being injured or killed each year; and

WHEREAS, citizens are encouraged to inspect their homes and workplaces for possible electrical hazards; and

WHEREAS, citizens are advised to protect their homes and families with the latest safety technology, such as ground fault circuit interrupters, arc fault circuit interrupters, and tamper resistant receptacles; and

WHEREAS, citizens are urged to install, test, and properly maintain an adequate number of smoke alarms; and

WHEREAS, the Electrical Safety Foundation International (ESFI) is dedicated exclusively to promoting electrical safety in the home, school, and workplace through education, awareness, and advocacy.

NOW, THEREFORE, I, Ronnie Rimbart, Mayor and President of City Council of the City of Oberlin, Ohio, do hereby proclaim May as Electrical Safety Month. This month observes the importance of establishing and practicing good electrical safety habits in the home, school, and workplace to reduce the number of electrically-related fires, injuries, and deaths.

I call upon the people of Oberlin, Ohio to celebrate electrical safety during the month of May and to follow good electrical safety practices throughout the year.

IN WITNESS WHEREOF, I have hereunto set
my hand this 6th day of May 2013.

Ronnie J. Rimbart
Mayor/President of Council

2. ANY CONCERNS THAT ARE NOT ON THE AGENDA MAY BE BROUGHT TO THE ATTENTION OF COUNCIL AT THIS TIME.

None

3. OLD BUSINESS:

(A). ORDINANCE No. 13-27 AC CMS: An Ordinance Amending Chapter 925 of the Codified Ordinances of the City of Oberlin, Ohio Pertaining to Garbage and Rubbish Collection and the Administration of Fees for Collection and Delivery of Organic Material. (2nd)

The Clerk read the ordinance by number and title only.

Motion to approve the ordinance on second reading was moved by Broadwell, seconded by Soucy.

A recap of the discussion held on April 15th, pertaining to the above stated purpose was provided by the City Manager. Discussion ensued with regards to amending the language used to quantify the delivery of materials from the City's Class IV Compost Facility. Public Works Director Jeff Baumann reiterated that he had confirmed the numbers that he provided at the previous meeting to be correct. Based on further consideration he posed a recommendation that the general reference to a "load" be used as opposed to using more specific language to quantify the delivery. This approach would reduce staffs time in handling future disputes related to whether or not the correct amount has been delivered and moreover would account for changes in load size that could happen if the equipment that is used to deliver the organic materials were to change in years to come.

A brief discussion took place related to the inconsistencies that existed between various City departments during the fees approval process. Mucciolo noted that some departments came before Council with an ordinance while others were able to use a motion to approve the administration of fees. He encouraged members of staff to review this matter and at some time in the future bring forth a procedure that will make this process more consistent throughout the City.

A motion to suspend the rules requiring three readings and to elevate Ordinance No. 13-27 to an emergency as soon as possible was moved by Burgess. The motion was seconded by Soucy.

Mucciolo remarked that an emergency clause will need to be added prior to the approval of the proposed ordinance since it had not been incorporated in the text.

Roll Call: 4 Ayes

(2nd, Suspension of Rules/ Emergency)

3 Nays

(Mucciolo, Peterson, Rimbert)

Motion Failed

A motion to waive the rules requiring three readings and to elevate Ordinance No. 13-27 to an emergency in order to collect fees for organic delivery in a timely manner was moved by Burgess. The motion was seconded by Mucciolo.

Roll Call: 7 Ayes

(2nd, Suspension of Rules/ Emergency)

0 Nays

Motion Carried

Roll Call: 7 Ayes

(2nd, Final)

0 Nays

Motion Carried

(B). ORDINANCE No. 13-28 AC CMS: An Ordinance Authorizing the City Manager to Enter into a Contract with Design-Build Solutions, Inc. of Cleveland, Ohio through the State Office of Procurement Services for a Roof Replacement Project for Oberlin Municipal Light and Power System and Declaring an Emergency.

(2nd)(E)

The Clerk read the ordinance by number and title only.

Motion to approve the ordinance on second reading was moved by Mucciolo, seconded by Broadwell.

The Council board revisited the April 15th discussion where it considered a request to authorize the City Manager to enter into a contract with Design-Build Solutions, Inc. The discussion was deferred to OMLPS Director Steve Dupee to address a request to change the roofing materials of the proposed project. Dupee noted that DBS, Inc has agreed to change the material to a Thermal Plastic Olafant roof (TPO). the TPO membrane is currently being used at City Hall. The membrane combines the durability of an EPDM roof (the original roof

proposed) with the prudent performance of hot air welded seams. It also provides the reflective qualities to reflect the sun's heat. According to the contractor this is a good roof that has a 15 year material and workmanship warranty. The estimate for this roof is \$1910 less than the previous proposal, bringing the total to \$ 57, 010. Staff is recommending that Council proceed with this roof and move the additional savings over to a contingency fund in case they should need it.

Foregoing discussion, a motion to suspend the rules requiring three readings and to elevate Ordinance No. 13-28 to an emergency in order to put a new roof on the building before peaking season was moved by Burgess. The motion was seconded by Soucy.

Roll Call:	7 Ayes	0 Nays	Motion Carried
(2 nd , Suspension of Rules/ Emergency)			

Roll Call:	7 Ayes	0 Nays	Motion Carried
(2 nd , Final)			

4. NEW BUSINESS:

(A). ORDINANCE No. 13-30 AC CMS: An Ordinance Authorizing the City Manager to Enter into an Agreement for Fire/Arson Investigation Mutual Aid Assistance in Lorain County and Declaring an Emergency. (1st)(E)

Broadwell moved to have the ordinance read by number, title and substantive portions only. The motion was seconded by Soucy.

Roll Call:	7 Ayes	0 Nays	Motion Carried
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The Clerk read as directed.

Motion to approve the ordinance on first reading was moved by Peterson, seconded by Soucy.

Norenberg remarked that in hearing the Clerk read the ordinance, he noticed that the agreement was not attached as indicated. He asked the Fire Chief to come forward to explain what that agreement might entail.

Fire Chief Dennis Kirin apologized for the agreement not being attached. He stated that the agreement has been a long time coming. It is the written component to the practice that they have followed in the county for the last thirty five years which is to cooperate amongst different fire agencies to share the resources and expertise of fire investigators throughout the county. This was expanded about eleven years ago to include the law enforcement side. The decision to do so was based on the realization that some fire investigations do ultimately proceed into what is the arson component.

Kirin noted that with help from the State Fire Marshall, assistance from various departments of the Ohio Fire and Arson Investigative Bureau, and with some background from Hamilton County, they were able to put together a written agreement that would solidify what Fire Departments have been doing in Lorain County for over three decades. The agreement was supported by various Fire Departments throughout the County because it allowed access to expertise at minimal cost.

Soucy noted that the Police Chief Tom Miller was in support of this agreement. She asked if there were any negatives associated with entering into such a contract. Kirin said he didn't see any negatives associated with this agreement. This was a positive because it closed any loopholes that might exist that could expose the fire department to litigation for assisting other communities that were not under the jurisdiction of the City of Oberlin.

Rimbert asked if this ordinance would allow Oberlin's Fire Department to respond to a first responder call at the Lorain County Joint Vocational School (JVS) before Wellington responded. Kirin said that this ordinance would allow the City to respond to calls that would occur after the fire is over in order to investigate the scene. There were other agreements in place regarding first responder calls, but Wellington still would have jurisdiction over JVS and would be the one deciding who to call to respond to an Fire/Arson Mutual Aid call.

Law Director Clark advised Council to postpone the approval of the ordinance so that the agreement could be attached at the next meeting. He provided a brief description of the differences between tabling an ordinance and postponing an ordinance.

A motion to postpone the approval of the ordinance until the May 20th, 2013 Regular City Council meeting was moved by Peterson and seconded by Soucy.

Roll Call: 7 Ayes
(1st, Postponed)

0 Nay

Motion Carried

(B). ORDINANCE No. 13-31 AC CMS: An Ordinance Amending Ordinance No. 507 AC CMS, as Amended, to Provide for the Continuation of a One-Fifth of One Percent (1/5%) Levy on Income for a Period of Five (5) Years, for the Purpose of Providing Funds for Operating and Capital Improvement Expenses for the City of Oberlin, Providing for an Effective Date Thereof, and Providing that this Ordinance Shall be Effective Only if Approved by the Electors and Declaring an Emergency. (1st)(E)

Meadows moved to have the ordinance read by number, title and substantive portions only, seconded by Soucy.

Roll Call: 7 Ayes

0 Nays

Motion Carried

The Clerk read as directed.

Motion to approve the ordinance on first reading was moved by Mucciolo, seconded by Broadwell.

Talarico reviewed the process for placing income tax levies on the ballot for voter approval. Talarico remarked that Ordinance No. 13-31 would amend Section 181: Earned Income Tax of the City Code and Resolution No. R13-04 will place the income tax levy on the ballot in November. He then provided Council with a list of levies currently on the books as follows:

- 1 percent that was part of the original income tax since 1967;
- ½ percent that was on a 5 year cycle, but was approved by the voters for it to be on a continuing basis;
- Two-tenths that is on a ten year cycle for capital improvements; and a
- Two-tenths that is going to expire and is on a 5 year cycle for general operating expenses.

Burgess asked how much the two-tenths (2/10%) levy would bring in at this time if it were renewed. Talarico remarked that it would bring in about \$572, 000. Mucciolo confirmed with the Finance Director, that the monies were being used for general operating and capital improvement expenses for the City. Talarico concurred.

A motion to suspend the rules requiring three readings and to elevate Ordinance No. 13-31 to an emergency for the reasons stated in Section 5 was moved by Soucy. The motion was seconded by Mucciolo.

Roll Call: 7 Ayes
(1st, Suspension of Rules/ Emergency)

0 Nays

Motion Carried

Roll Call: 7 Ayes
(1st, Final)

0 Nays

Motion Carried

(C). RESOLUTION No. R13-04 CMS: A Resolution Submitting to the Electors of the City of Oberlin, Ohio, at the Election on November 5, 2013, the Question of Providing for the Continuation of a One-Fifth of One Percent (1/5%) Levy on Income for Five (5) Years and Declaring an Emergency. (1st)(E)

Meadows moved to have the ordinance read by number, title and substantive portions only, seconded by Soucy.

Roll Call: 7 Ayes 0 Nays Motion Carried

The Clerk read as directed.

Motion to approve the ordinance on first reading was moved by Mucciolo, seconded by Broadwell.

Talarico proposed an amendment to the resolution for further consideration. He suggested that the resolution strike all reference to Resolution R13-04 in Sections: 1 through 3 and insert Ordinance No. 13-31 in its place.

Mucciolo moved to amend the resolution to strike all references to Resolution R13-04 CMS found in sections 1 through 3 and replace it with Ordinance No. 13-31 AC CMS.

Roll Call: 7 Ayes 0 Nays Motion Carried

Talarico noted for the record that this was not a tax increase it is keeping the rates the same.

A motion to suspend the rules requiring three readings and to elevate Resolution No. R13-04 to an emergency for the reasons stated in Section 5 was moved by Mucciolo. The motion was seconded by Peterson.

Roll Call:	7 Ayes	0 Nays	Motion Carried
(1 st , Suspension of Rules/ Emergency)			

Roll Call: (1 st , Final)	7 Ayes	0 Nays	Motion Carried
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(D). RESOLUTION No. R13-05 CMS: A Resolution Submitting the Question of A Renewal Tax Levy for the Purpose of Current Expenses of the Oberlin Public Library to the Electors of the Territory Served by the Library, Pursuant to Sections 5705.19 and 5705.23 of the Revised Code and Declaring an Emergency. (1st)(E)

Meadows moved to have the ordinance read by number, title and substantive portions only, seconded by Soucy.

Roll Call: 7 Ayes 0 Nays Motion Carried

The Clerk read as directed.

A Motion to approve the ordinance on first reading was moved by Broadwell, seconded by Meadows.

Finance Director Talarico explained the process used by the Library Board to place issues on the ballot. He remarked that due to restrictions outlined in the Ohio Revised Code (ORC), public libraries are unable to place levies on the ballot. Therefore the above stated request has come before Council for approval. The resolution would allow Council to place the proposed tax levy on the ballot in November. Talarico further noted that the necessary documents for this request have been provided from the Library Board as referenced in the preambles

and in the body of the proposed resolution, which would be submitted to the Board of Elections upon Council's approval.

A motion to suspend the rules requiring three readings and to elevate Resolution No. R13-05 to an emergency for the reasons stated in Section 8 was moved by Peterson. The motion was seconded by Soucy.

Roll Call:	7 Ayes	0 Nays	Motion Carried
(1 st , Suspension of Rules/ Emergency)			

Roll Call:	7 Ayes	0 Nays	Motion Carried
(1 st , Final)			

5. OTHER NEW BUSINESS:

None

6. COUNCIL COMMUNICATIONS:

(A). Referrals

(B). Advocacy

(C). Correspondence

(D). Reports

Elizabeth:

- Spoke to owner of Bead Paradise who voiced support for the need of additional angled parking in the downtown area.
- Remarkd on concerns raised by downtown business owners, dealing with parking infringements on Off Street Parking space by Oberlin College students and faculty.
 - Soucy noted that the Planning Commission would have a proposal in the future concerning this issue.
 - Norenberg remarked that he will address the issue with the college but stressed the importance of these concerns being addressed with Off Street Parking directly.

Soucy:

- The Tuck Shop will be coming to Oberlin soon; it will occupy the space previously occupied by Yesterdays Ice Cream.
- Beethoven's Bagel is currently occupied by Oberlin Martial Arts.
- Suggested that everyone go behind the FEVE and look at the Mural that has been installed to brighten up the area.
- Shared a rendering of controversial plans recently approved by Planning from the College to add a "clear story" practice room to the top of the Yamasaki building.
- Addressed the proposed change discussed at the last Charter Review Committee meeting that would require that legislation going forward be read by number and title only. It was noted that there seemed to be little support for the change in the provision but will keep everyone posted.
 - Mucciolo suggested that ordinances and resolutions be written to reference attachments (when possible) in an effort to cut down on some of the reading done by the Clerk.
- Rimbart expressed a willingness to keep the Charter Review Process open to the public. He felt that Council meetings were efficient and sometimes ordinances have to be read in full. He didn't want to shortchange the public.

Burgess:

- Oberlin City Schools Facilities Committee has voted and will be recommending that the school board build a new single k-12 facility behind the High School.
 - Incumbent on everyone to think about what could become good uses for those school buildings is they should become vacant as a result of the levy passing.
 - Rimbart asked if there had been conversations on coordinating the various levies that are scheduled to go on the November ballot so that they are not competing with each other. Norenberg said he talked to Superintendent Schroth and the last he heard they weren't going to place this item on the November Ballot, it looks like that has changed.

Rimbart:

- Get out and vote. Continue to support the Murray Ridge Center.

7. CITY MANAGER'S REPORT:

City Manager Norenberg provided the following updates:

- Update on bike rack discussion held at the retreat.
- The City of Oberlin is a finalist for another Team NEO Plus Award in the Business Expansion Category, for the work that we did in conjunction with Team Lorain County to help Synapse Biomedical grow. Event will take place July 11, 2013 at the Cleveland Intercontinental Hotel. More information will be forthcoming.
- Earth Day Celebration on April 22nd at the new recycling facility at the Republic Landfill Operation on Oberlin Road.

8. FINANCE DIRECTOR'S REPORT:

Finance Director:

- Quarterly report update.
- Provided an update on the funds still needed for the Fireworks celebration.

Law Director:

- Update on contact information.

9. PUBLIC PARTICIPATION:

10. ADJOURNMENT:

Being that there was no further business to come before Council at this time the meeting adjourned at 8:20 p.m.

Attest:

BELINDA B. ANDERSON, CMC
CLERK OF COUNCIL

APPROVED: 05/20/2013

RONNIE J. RIMBERT
PRESIDENT OF COUNCIL

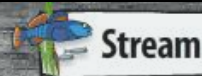
POSTED: 05/21/2013



Electricity



Water



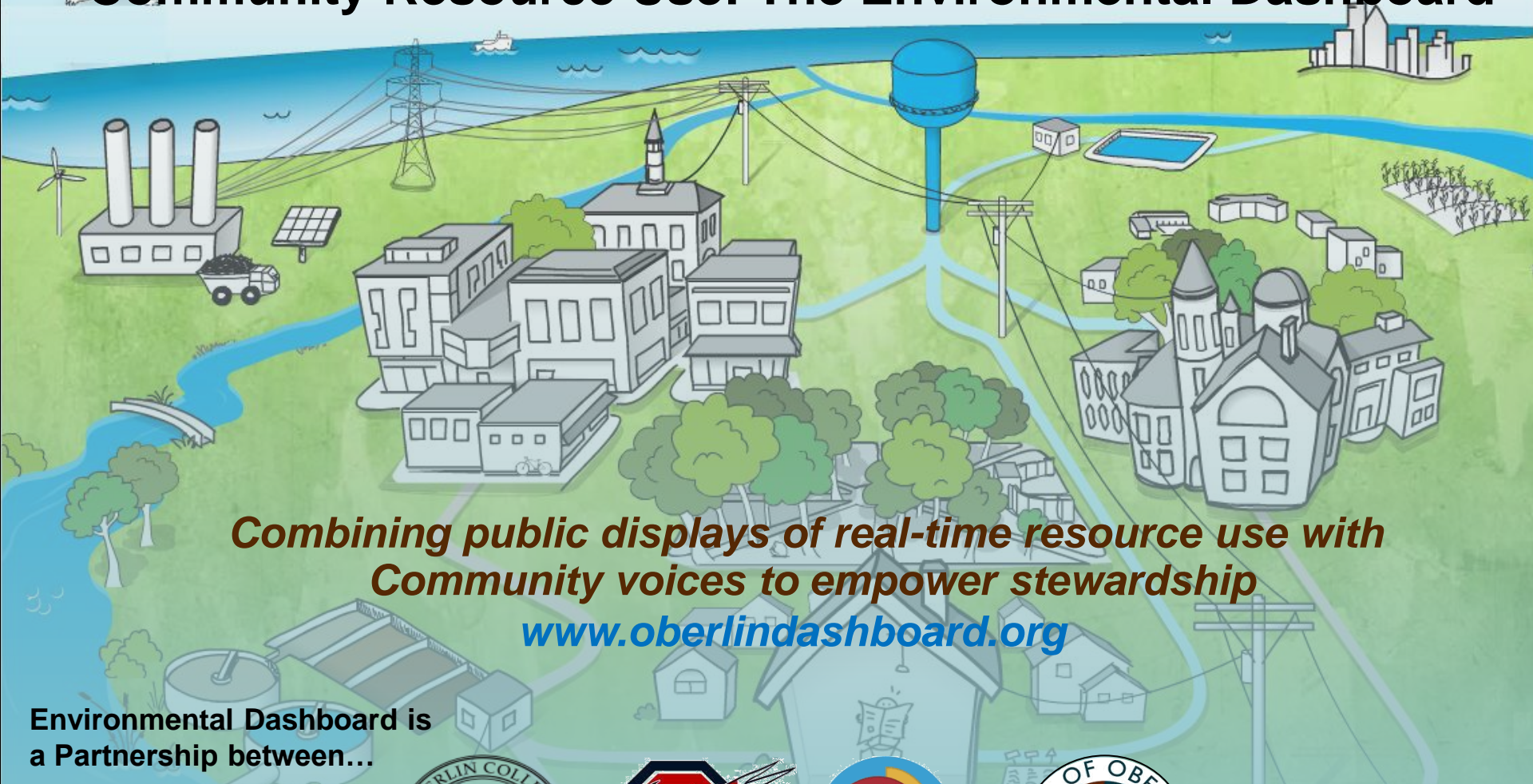
Stream



Weather



Reconnecting Individual Decision-Making to Whole-Community Resource Use: The Environmental Dashboard



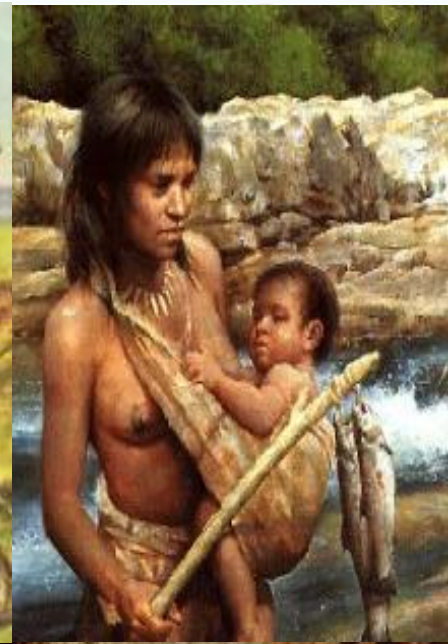
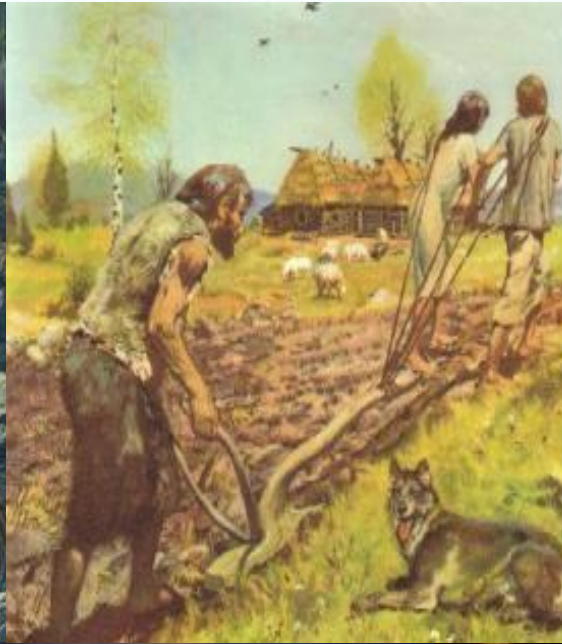
*Combining public displays of real-time resource use with
Community voices to empower stewardship*

www.oberlindashboard.org

Environmental Dashboard is
a Partnership between...



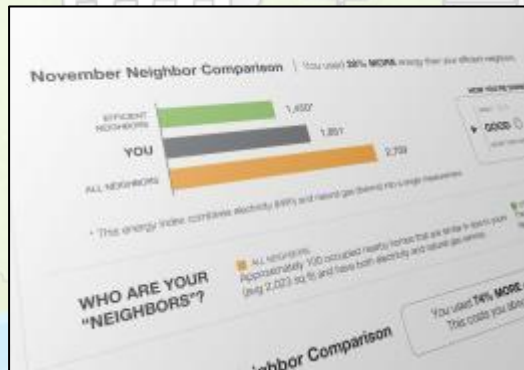
Environmental Feedback in Human Evolution



Research on Residential Feedback

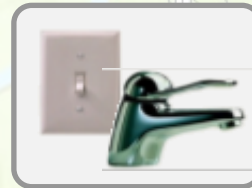
- ~50% of residential electricity use is discretionary (i.e. lifestyle choices)
- Addition of feedback → ~4-12% electricity savings (e.g. ACEE 2010)

Utility Bill (OPower)



Feedback

People



Choices



Impacts

Simple whole-house electrical meter



- **Realities/caveats:**

- Information alone does not change behavior
- Information plus economic incentives often don't change behavior
- Normal people don't care about kWh or gallons of water
- Sophisticated messaging/psychological packaging is critical

Effects of socio-technical Feedback

- **Hypothesis:** Sophisticated, multi-modal, multi-scale, socially and environmentally contextualized displays enhance behavioral impact

- **Key features:**

1. Easily usable: , directly useful and timely:

- Accessible,
- Actionable information
- Tight feedback cycle
- Appropriately granular in time and space

2. Leverages power of norms:

- Socially comparative/competitive
- Within monitored entities & among social groupings

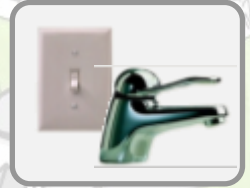
3. Generates empathetically linking:

- Emotionally connects individual and group consumption decisions to ecological and social communities

Occupants



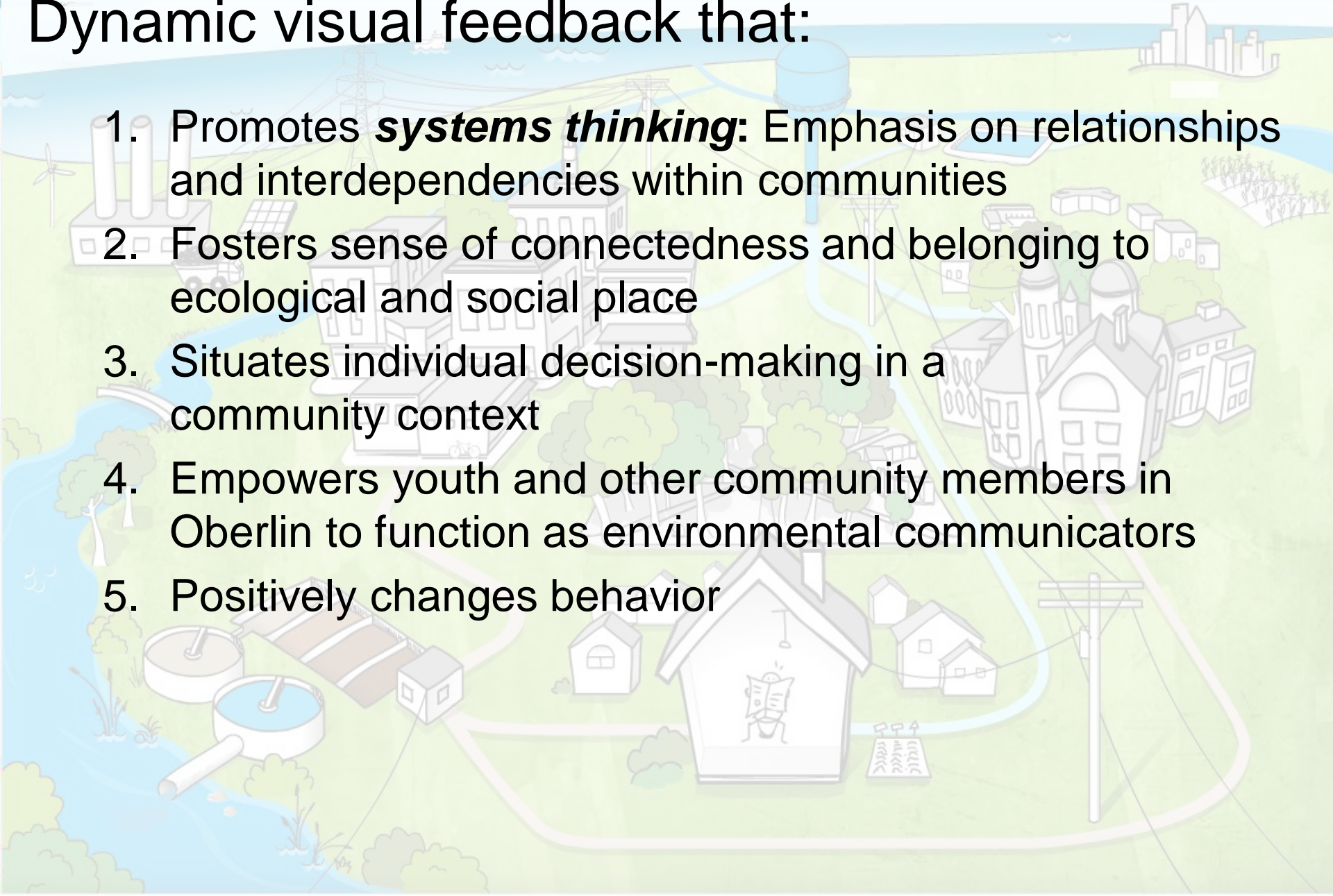
Choices



Impacts

Goal of Environmental Dashboard → Dynamic visual feedback that:

1. Promotes ***systems thinking***: Emphasis on relationships and interdependencies within communities
2. Fosters sense of connectedness and belonging to ecological and social place
3. Situates individual decision-making in a community context
4. Empowers youth and other community members in Oberlin to function as environmental communicators
5. Positively changes behavior

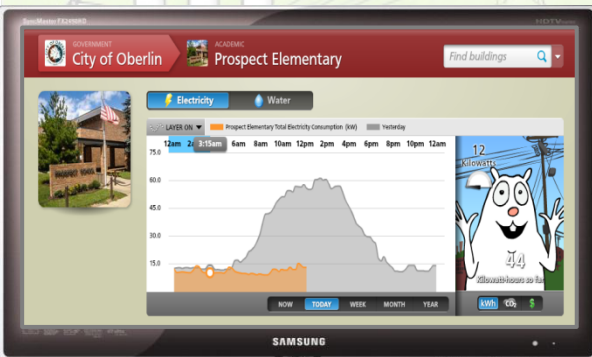


Environmental Dashboard

- 3 Elements

1

Building
Dashboard



2

City-Wide
Dashboard



3

Community
Voices



- 2 Delivery venues

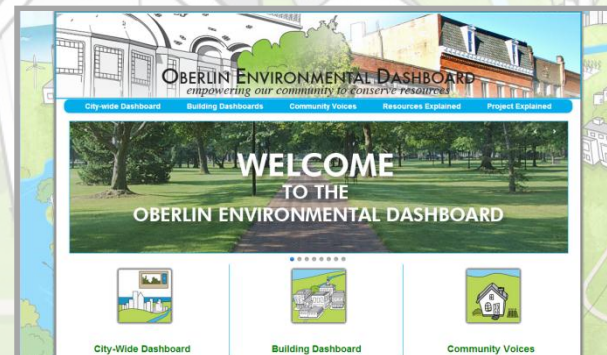
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Digital Displays



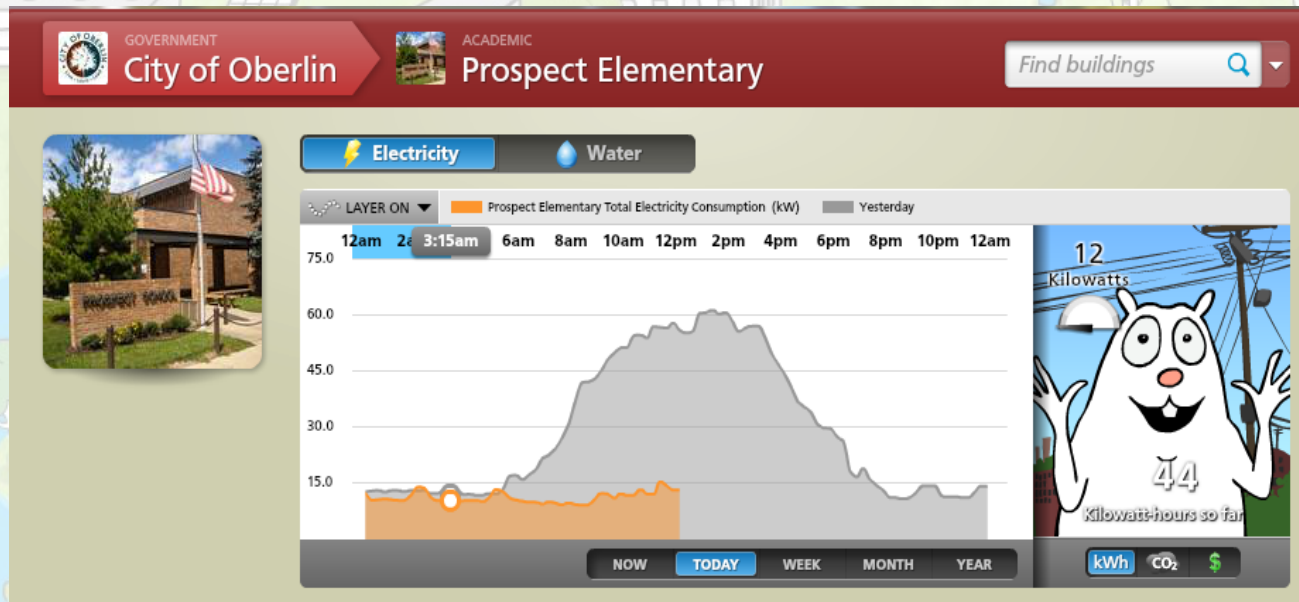
2

Website



1. Building Dashboard

- Technology to monitor and display electricity and water use in schools, businesses, public facilities and homes



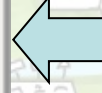
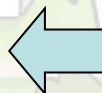
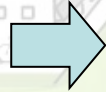
1. Building Dashboard: Feedback Concept

- a) Monitor utility use in schools, residences & businesses
- b) Process and contextualize information
- c) Provide real-time socially and environmentally contextualized feedback to occupants

Occupants



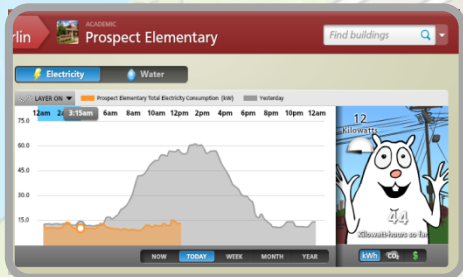
Decisions



Environmental, Economic & Social Costs



Automated Monitoring Technology



Sources of Data for Dashboard

1. College dormitories
2. K-12 Schools
3. Apartments and Businesses
4. Single family houses
5. City-wide water flow and quality
6. City-wide electricity consumption

Sensors, data loggers,
Building Automation Systems



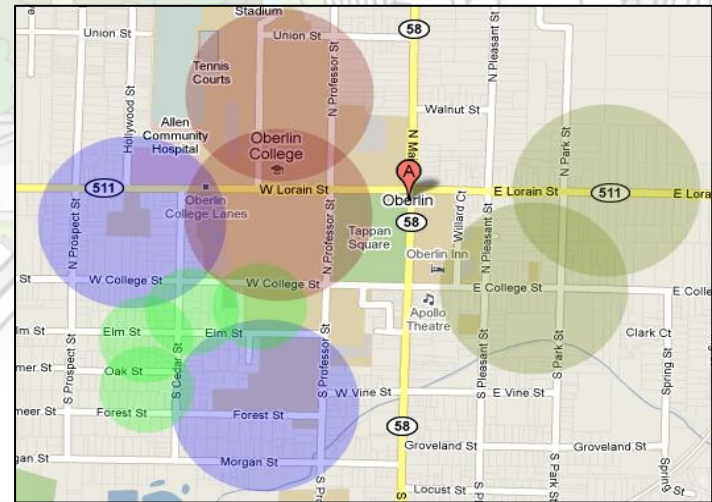
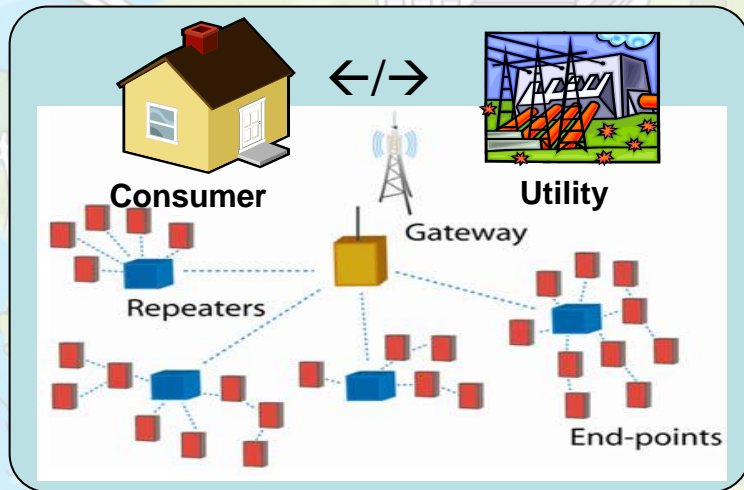
Water and electricity monitoring equipment installed in:

- 27 College dormitories
- 30 Apartments & 17 businesses in the downtown
- Prospect Elementary School

Sources of Data for Dashboard

1. College dormitories
2. K-12 Schools
3. Apartments and Businesses
4. **Single family houses**
5. City-wide water flow and quality
6. City-wide electricity consumption

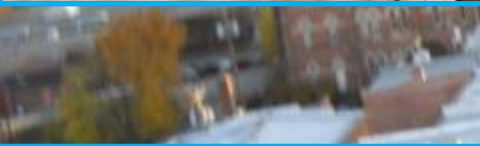
“Smart meters”/AMI



Pilot will monitor 100 → 200 homes planned by 2014

2. City-wide Dashboard

- Animated display of electricity and water use and environmental conditions in the entire community



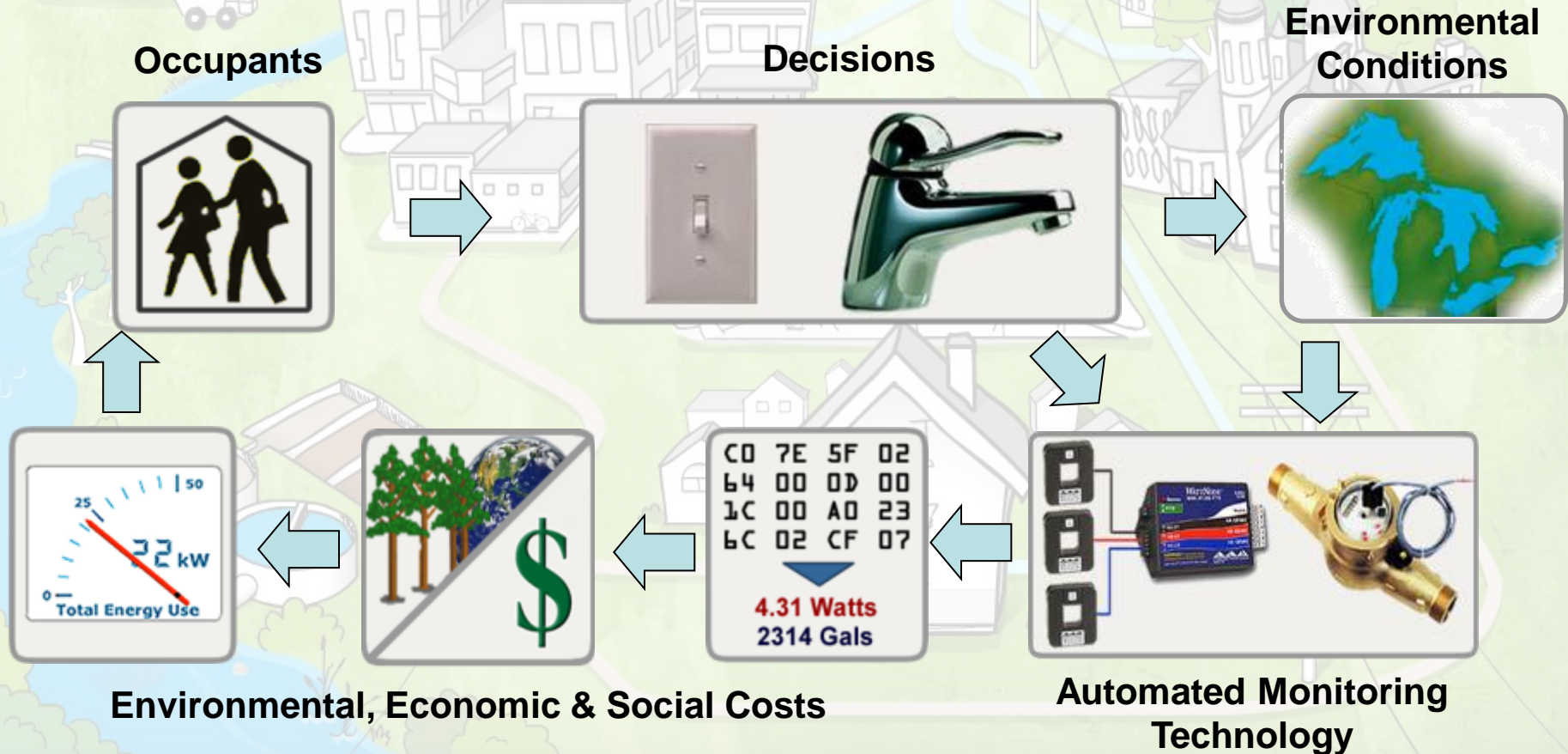
2. City-wide Dashboard



2. City-wide Dashboard: Concept

Multiple scales of feedback:

1. Monitor utility use in schools, residences & businesses
2. **Monitor impacts on watershed and electrical grid**
3. Process and contextualize information
4. Provide real-time feedback to consumers



Sources of Data for Dashboard

1. College dormitories
2. K-12 Schools
3. Apartments and Businesses
4. Single family houses
5. City-wide water flow and quality
6. City-wide electricity consumption

} New sensors
City SCADA systems

Power Plant



Whole city electricity use monitored

2. City-wide Dashboard: Sources of Data

1. College dormitories
2. K-12 Schools
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4. Single family houses
5. City-wide water flow and quality
6. City-wide electricity consumption



New sensors
City SCADA systems

Fresh Water Plant



Wastewater Plant



Watershed



Equipment at three sites monitors:

- Whole city consumption and treatment
- Water flow and water quality in “Plum Creek”

3. Community Voices: Concept

- Combine pictures with words contributed by children and adults to celebrate thinking and action that move the community towards sustainability

“I want to make a difference. I want to join groups that want to change the world like I do.”

-Sonia, 4th Grade,
Prospect School



NEXT GENERATION



SAMSUNG

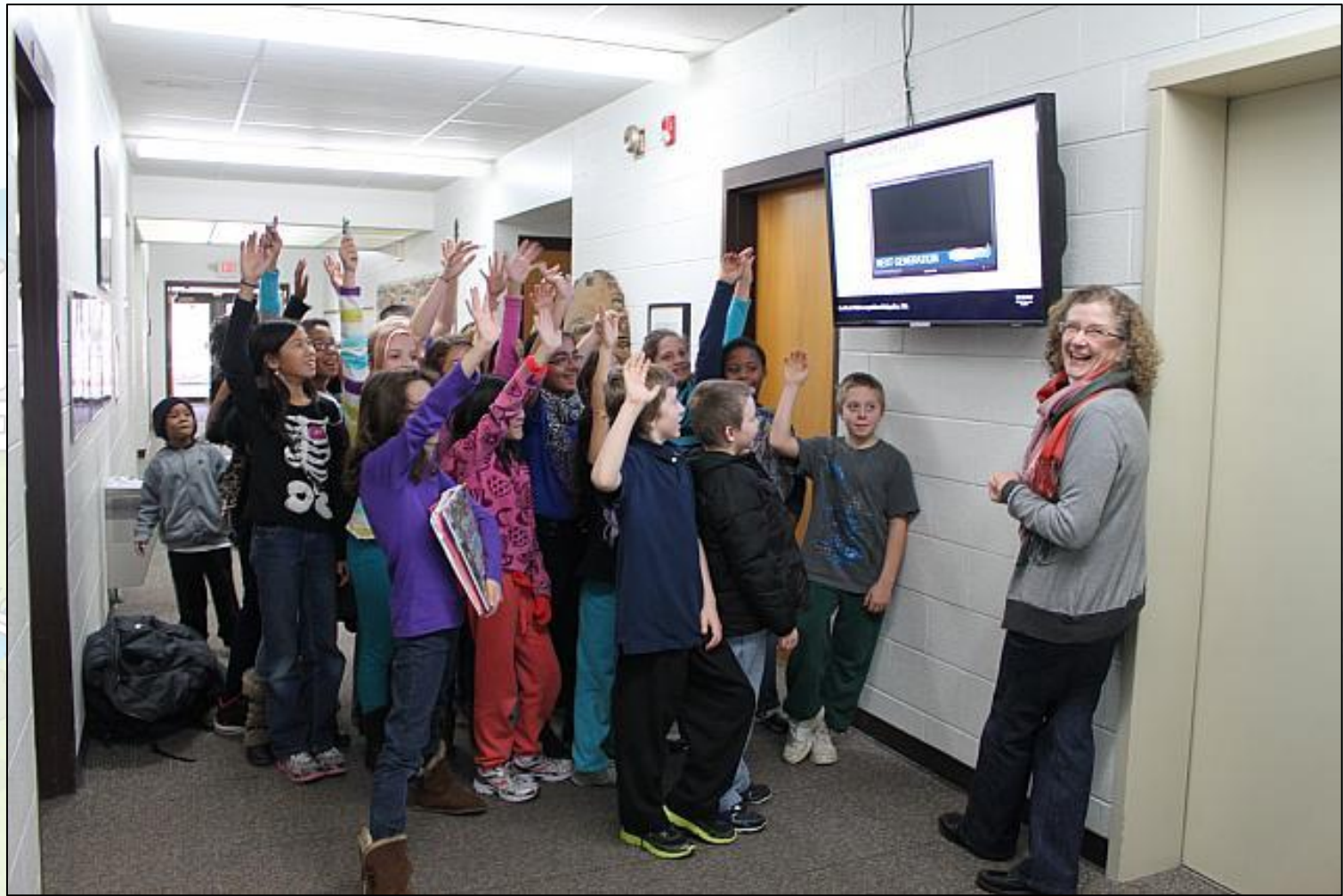
3. Community Voices: Approach

- Create contexts in which ideas and images are solicited and shared (schools, meetings, interviews)
 1. Recognize existing leadership in the community
 2. Inspire sustainable thought, action and commitment
 3. Broaden understanding of “sustainability”
 4. Highlight diversity
 5. Increase awareness of and interaction with Environmental Dashboard
- Organize and present content by category:
 1. “Next Generation”: thoughts, lesson reflections, artwork from kids
 2. “Neighbors”: things local citizens are doing in homes, backyard, gardens, neighborhoods, etc.
 3. “Heritage”: Images and words reflective of legacy of stewardship and engagement
 4. “Serving our Community”: environmental work of community organizations and city government
 5. “Our Downtown”: commitments and environmental thoughts of those who own and work in local businesses
 6. “Natural Oberlin”: natural and cultivated beauty

Delivery Venue #1. Digital Signage

- Combine all features of Environmental Dashboard in a sequenced display featured in public library, elementary school, downtown business
 - City-wide and Building dashboards → Sustainability messages
 - Community calendar → Special features →





"I am grateful for the learning experience that this dashboard can provide to my daughter Daria. And I know that my son, who will be coming to Prospect next semester, will be completely fascinated by what it does. It will surely help them to be sensitive about their energy consuming activities and behavior in any built environment they inhabit, and result in "positive action". Thank you! P.S. Loved seeing the Prospect dashboard on your website too."

-Pradnya Martz, Prospect Parent

Delivery Venue #2. Website

- Links features of environmental dashboard and provide deeper explanations



www.oberlindashboard.org