

A 2020 Vision

Looking Forward Ten Years to a Sustainable Idaho



Produced by GreenWorksIdaho.org



A 2020 Vision

Looking Forward Ten Years to a Sustainable Idaho



A Sustainable Idaho....

What exactly does that mean?

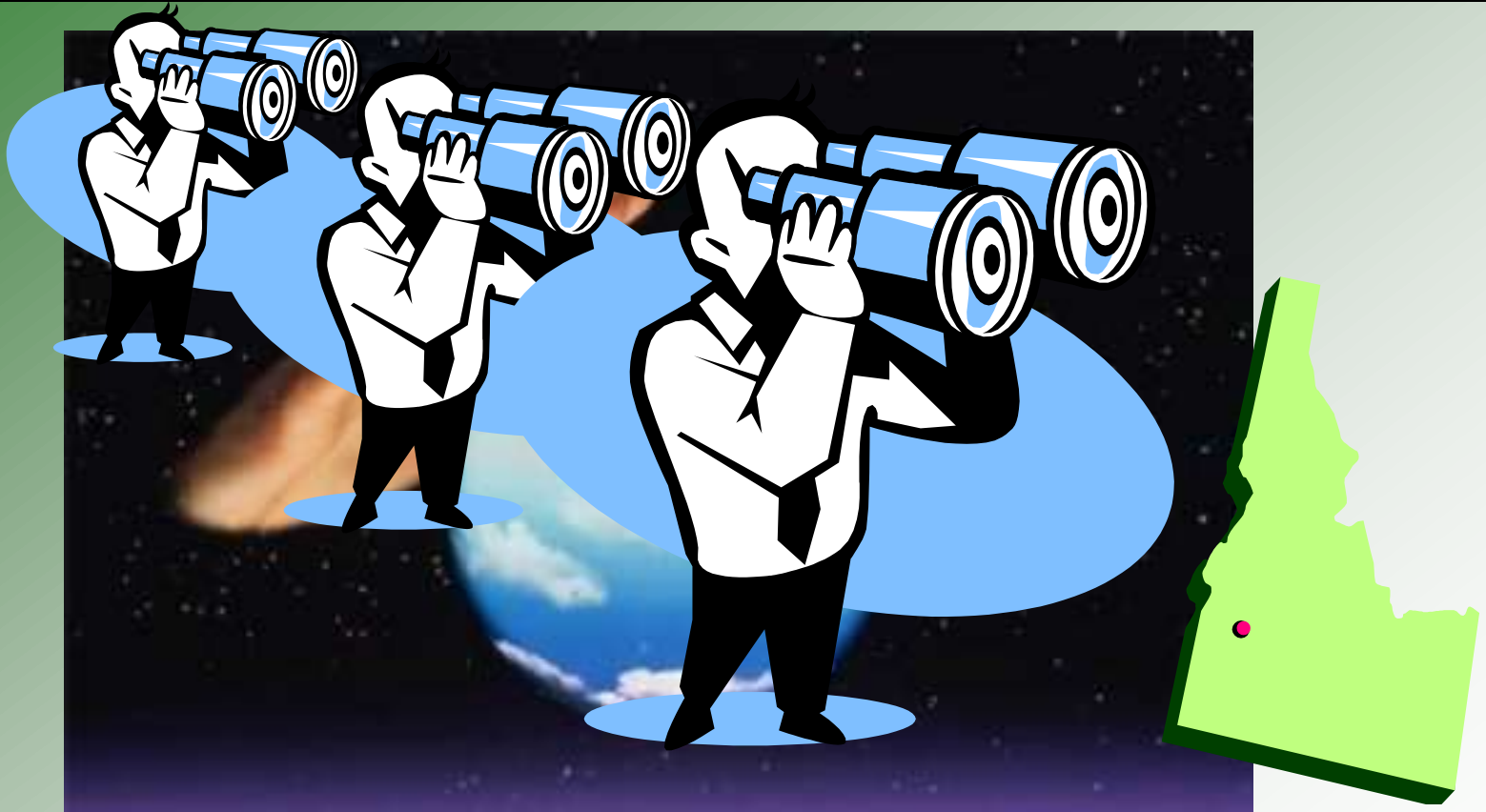
What exactly would that look like?



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A 2020 Vision

Looking Forward Ten Years to a Sustainable Idaho



A vision of a sustainable Idaho in the year 2020!



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First, we'd only use the technology and know-how that we have today



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That the money...



And the political will



WERE BOTH AVAILABLE!



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"Imagination is the beginning of creation.

*You imagine what you desire,
you will what you imagine,
and at last,
you create what you will."*



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GreenWorks Idaho is proud to present...

A 2020 Vision

Looking Forward Ten Years to a Sustainable Idaho



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Looking Forward Ten Years to a Sustainable Idaho



Green Transportation
Green Home Gardens
Green Consumers



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Looking Forward Ten Years to a Sustainable Idaho



Food Systems

Presented by...

Janie Burns with the
Treasure Valley Food Coalition



Produced by GreenWorksIdaho.org

What's for dinner in 2020?

Janie Burns

Treasure Valley Food Coalition

Idaho Green Expo May 2010



What do we want from food?

- *Health*
- *Affordability*
- *Sustainable*
- *To connect to our culture and where we live*



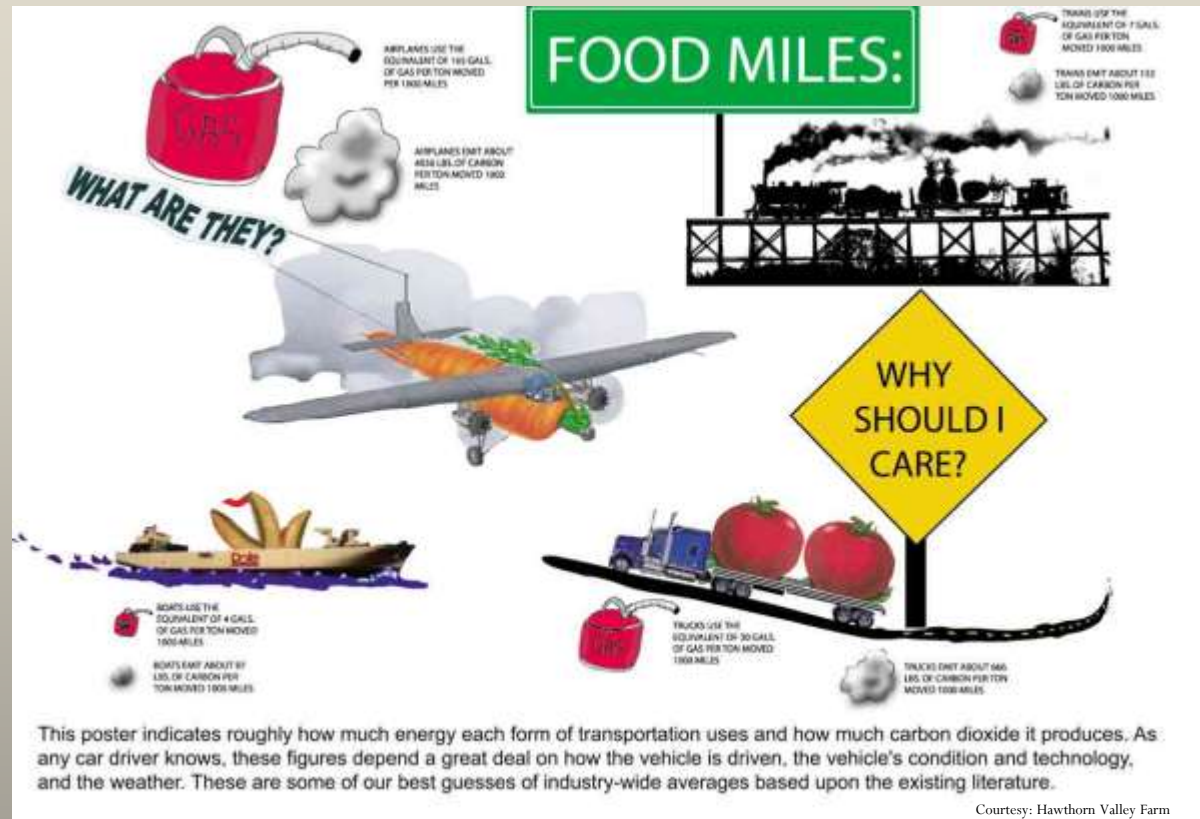
- *Jobs*
- *Economic security*
- *Clean air, clean water*
- *Reliability*
- *Social justice*
- *Humane treatment of livestock*

This is our food system in 2010...

Two sides of the malnutrition coin: too much of the wrong food for some and not enough food of any kind for others.



It's a long, fossil-fueled trip for our food.



This is how we eat.



Photo Courtesy:
www.huffingtonpost.com/2008/6/17



You Are What You Eat, Mark Menivar, 2008



Photo credit: Guy Hand



Photo credit: Guy Hand



Photo credit: Guy Hand



Photo: Jonathan Bloom

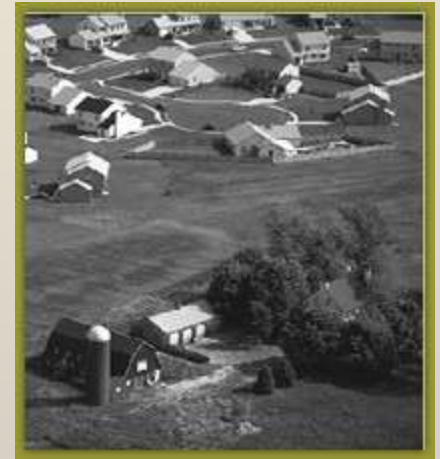


Photo credit: Guy Hand

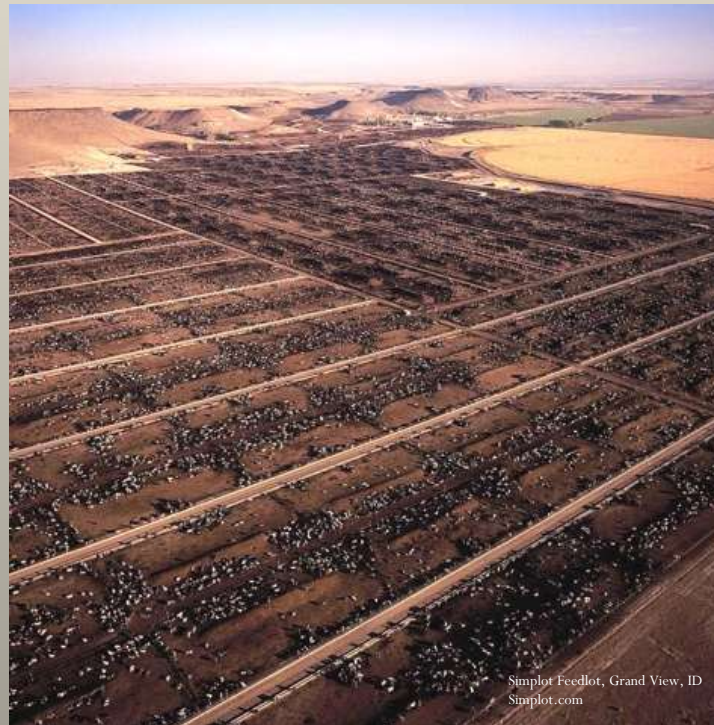


One week of food, Revs Family, North Carolina, The Hungry Planet

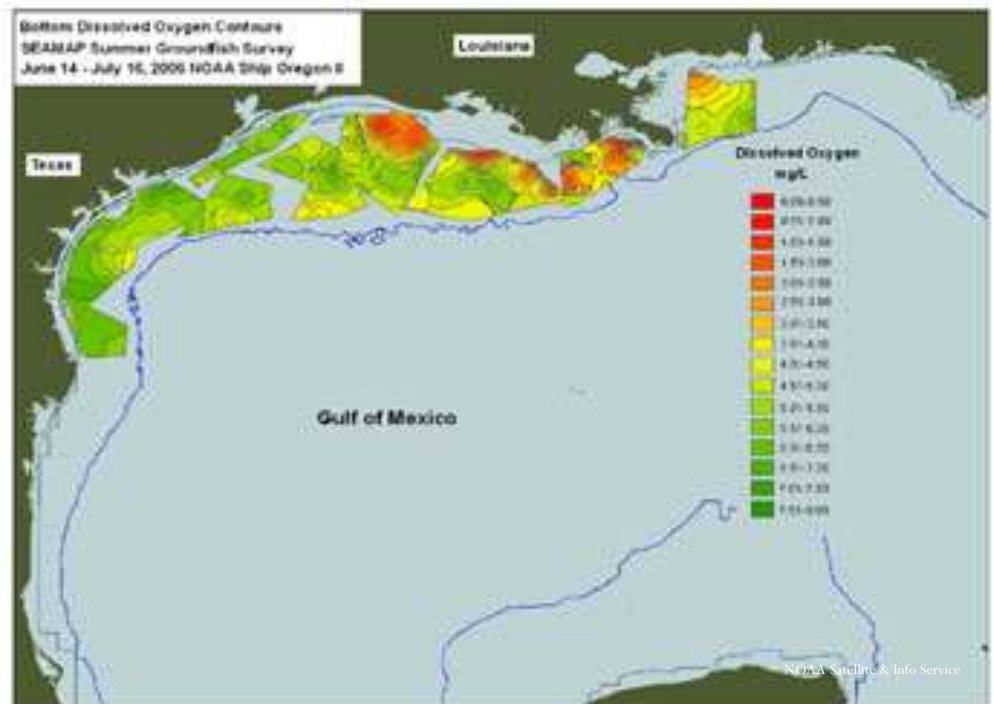
This is how we use our land and water



This is how we raise our meat



This is how we grow our food.



Industrial processes play a significant role in our food.



XL Beef, Nampa, ID



Photo Credit: Foodlogistics



Target distribution, Savannah, GA

Most of the money we spend on food leaves the state.

Can we increase
the amount of
Idaho-grown
food we eat?

To 20% by 2020



From 5% in 2010

*Increasing the amount of local food we
eat to 20% in 2020 might mean...*

More of our fruits and vegetables will come from yards,



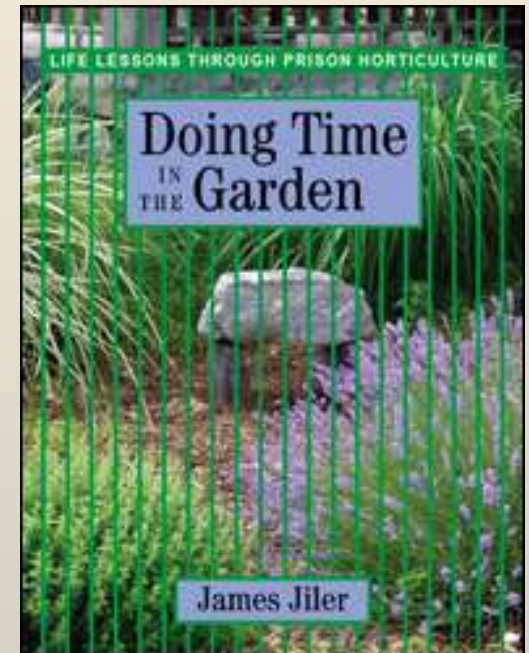
from local, diversified farms,



from community gardens,



from jails and prisons,



from public spaces,



from along our streets,



from rooftops,



San Francisco



Rooftop gardens in Milwaukee, WI



Chicago Green Roof Program



Trent University roof
Photo source: www.cityfarmer.org

from our schools,



Council High School Greenhouse



Council Idaho students in their garden



Cooltownstudios.com



Council School Orchard

perhaps from some unusual places.



Greenhouses will produce year round.



Will Allen at Growing Power Farm



Photo: Bill Ward



Remay covering greens in Idaho winter



Chicago Botanic Garden



Chicago Botanic Garden

Abandoned warehouses and big box stores will be retrofitted to grow food and fish.



Step 1: Anaerobic digester jump-starts food waste composting.



Step 2: Waste heat from digester is captured and warms fish tank water.



Step 3: Plant racks are built over the tanks.



Step 4: Plants are kept warm over the fish tanks, and fertilized with the nutrient-rich fish water.

We'll have bees in many places.



Photo: Gary Shilling



Grand Palais museum, Paris Photo Francois Mori/AP



Gold Star Honeybees, Bath, Maine Photo: Christy Hemenway



Photo: Gary Shilling

Livestock will graze new places



Goats grazing on the Google corporate campus



Hillside Farmers Co-op Northside, MN



Glynwood.org



Citycaucus.com



Sheep mowing the lawns of Turin, Italy



We'll eat local food all year long, even in the winter.



- Greens from greenhouses
- Meats
- Stored potatoes, squash, onions
- Protected in the garden cabbage, leeks, & carrots
- Apples, pears from controlled atmosphere storage
- Frozen, canned and dried fruit
- Frozen and canned vegetables
- Bottled fruit and vegetable juices



...Our meat will come from neighborhood shops; our flour from community mills



Palmer's Tavistock Meats, UK



Classic Harvest Bakery, Nampa, ID



Photo credit: Beth Salamanca



1950 Caldwell, Idaho Flour Mill
Russell Lee, Library of Congress Collection

Our food will be delivered using little fossil fuel.



We'll shop differently



London's Unpackaged Grocery Shop



Royal Oak MI

We'll eat differently

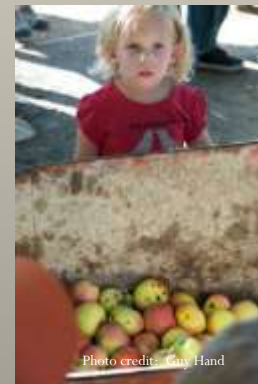


Photo credit: Guy Hand



Photo credit: Guy Hand

Kids will be more involved with food



We'll recycle our food waste and use our water wisely



We'll pay for food in new ways



Odemagazine.com
Photo: Kevin Scanlon



Localcurrency.org



Capeannitimebanks.org

A photograph of the Chicago Board of Trade building, a historic stone structure with a large clock face and the words "CHICAGO BOARD OF TRADE" inscribed on its facade. The image is slightly faded and serves as a background for the text.

*Local food will demand new local economics,
perhaps some radical new thinking.*

- 4 day work week, allowing time and money for raising family food
- Municipal bonds to support community-scale processing centers
- Double food stamp value on locally-grown food at farmers markets
- Local stock exchange will allow local money to be invested in local food businesses
- Food-backed alternative currencies
- Profit and growth will secondary to human and environmental health and the benefit to the community

We'll think about food in our communities differently

- **Department of Food at the city, county, and state level**
- **Subsidies for commodities replaced by incentives for growing local food**
- **All food will have County Of Origin Label**
- **Menus contain nutrition and source of food**
- **Vacant city and state property eligible for food production**
- **Farmland perpetually protected from development**
- **Water will be used for food production first**
- **Free health care for farmers**

Incentives for what we want.

Tax credits for:

- Recycling food waste
- Groceries and restaurants selling local food
- Farmers growing for local markets
- Farmers growing nutrient dense food
- Community Food Enterprises

Taxes on things we don't want:

- Synthetic Pesticides
- GMO seeds
- Synthetic Fertilizer
- Animal growth hormones
- Soda pop
- Fry oil
- Food that could be grown here but comes from other states or countries





20% by 2020

What does that mean?

It could mean:

20 % of people eating 100% of their diet from locally grown foods

100% of the population eating 20% local

20% of the shelf space in grocery stores devoted to local

20% of all restaurant and fast food menu items are local

20% of school lunches are local

20% more farmers and gardeners

20% of our farmland devoted to local production

20% of our food dollars spent on local food

Photo credit: Guy Hand

Better health, more food security, more jobs, a healthier economy

20% by 2020

Small steps that we can all do

- ✓ Budget just \$10 per week to buy local food, increase when you can
- ✓ Choose local instead



Photo credit: Guy Hand

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Water Resources

Presented by...

Liz Paul with Idaho Rivers United



Produced by GreenWorksIdaho.org

IDAHO'S RIVERS



OUR HERITAGE



OUR WATER



OUR RESPONSIBILITY



2020 WATER FOR LIFE



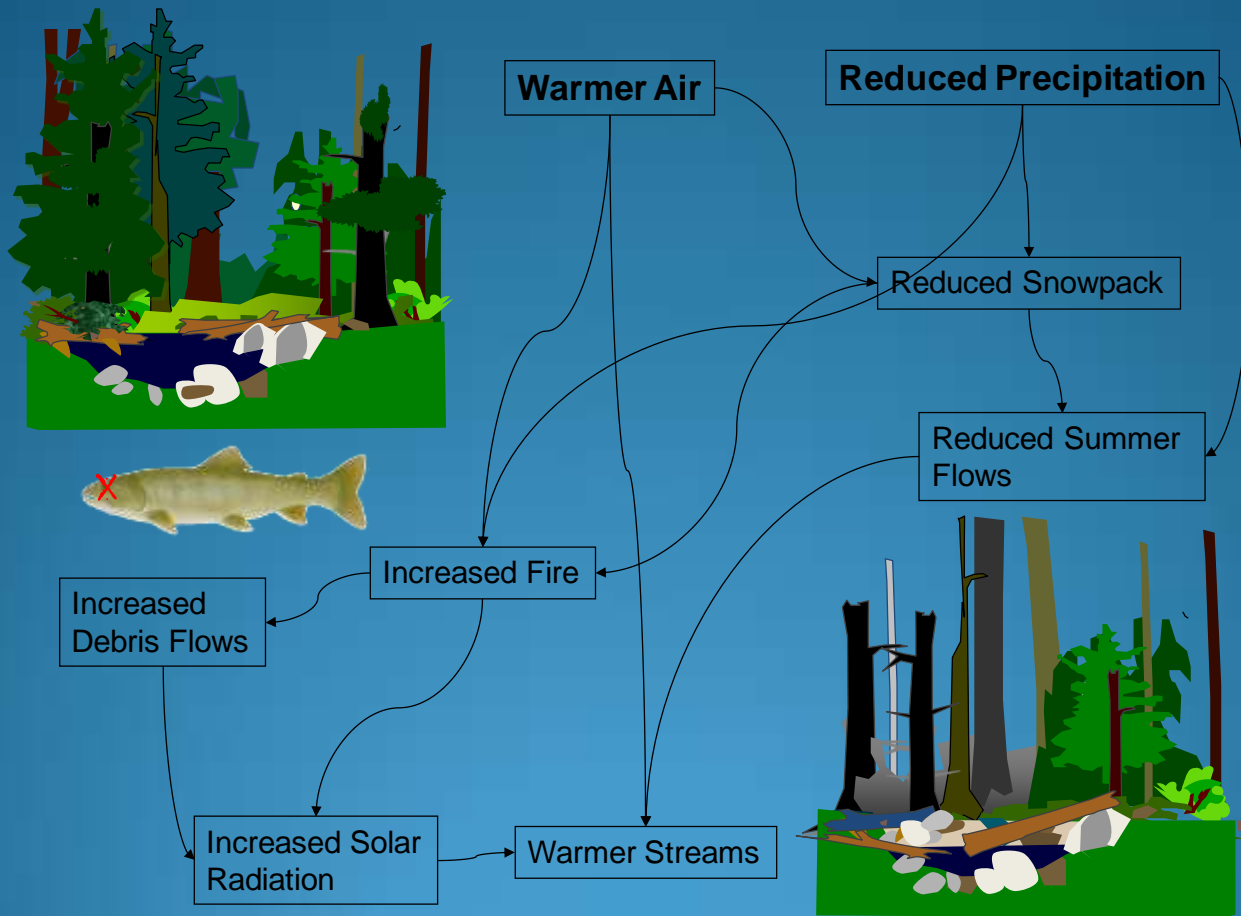
- ✓ *Water Security*
- ✓ *Water Purity*
- ✓ *Water Efficiency*

2020 WATER SECURITY



Safe and reliable sources of water are available for agriculture, homes, industry and the ecosystem.





Rivers Are Ground Zero for Climate Change



Increased fire and debris flows

Reduced or unreliable water supplies



Climate Change = water insecurity

Reduce greenhouse gas emissions to curb climate change

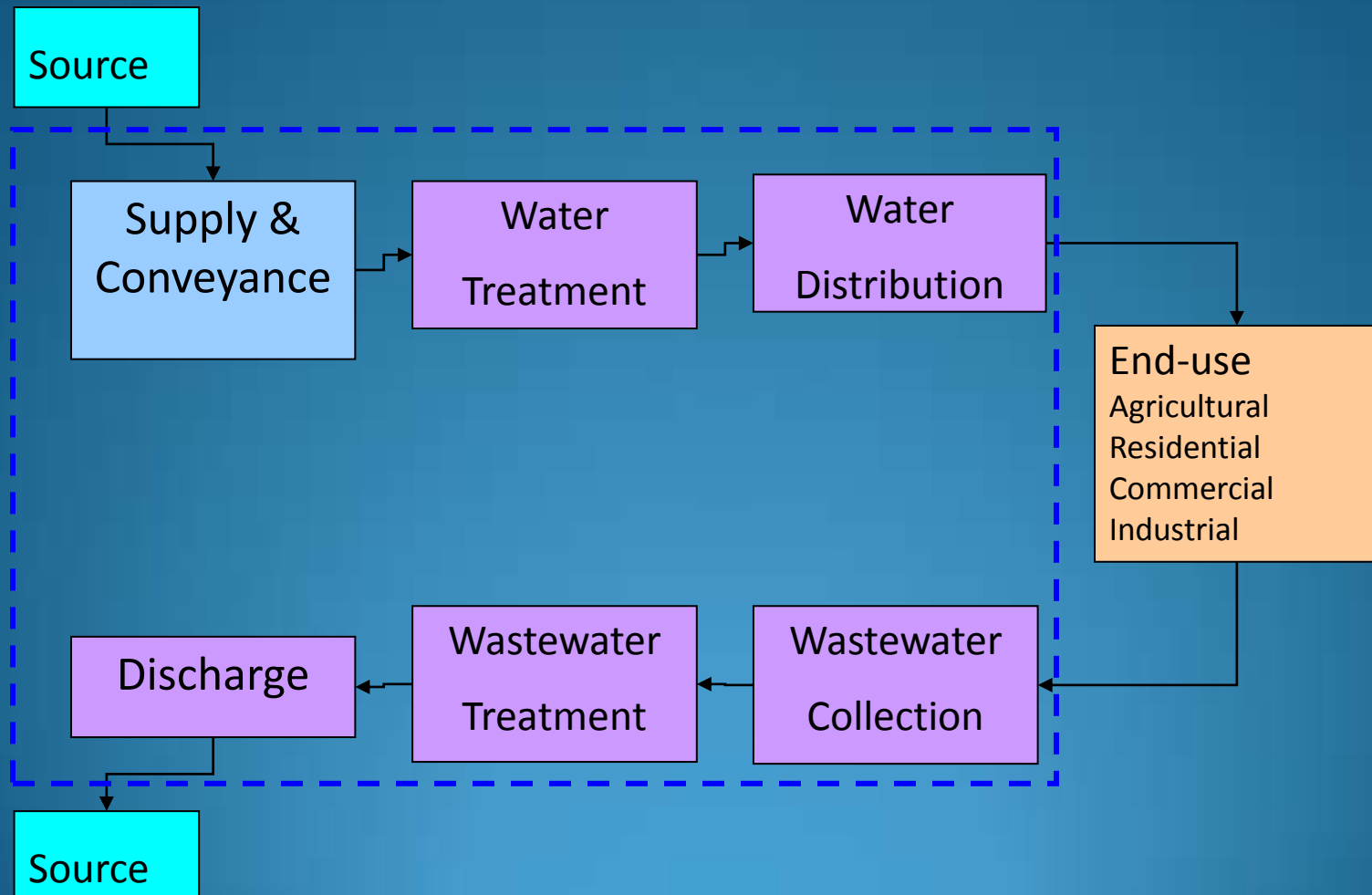
Understand the Carbon Footprint of Water:

Energy is embedded in water. Water is embedded in energy.



In five minutes, a hot water faucet uses as much energy as a 60-watt bulb uses in 14 hours.

ENERGY IN WATER



Source: California Energy Commission, 2005 Integrated Energy Policy Report

Take Action



Educate



Lobby



Measure Use



The Snake River at Shoshone Falls

2020 WATER SECURITY



Keep our rivers flowing

2020 WATER PURITY



Water Quality Monitoring





Protect and restore wetlands



*State-of-the-art
wastewater treatment*



Capture stormwater on site

Best Management Practices keep our water clean



Education and action



Clean Water Starts At Home



2020 WATER PURITY



Keep our rivers clean

2020 WATER EFFICIENCY

Agriculture accounts for 97% of Idaho's total water use



Flood Irrigation - Least Efficient



Photo courtesy of USDA Natural Resources
Conservation Service

Sprinkler Irrigation - More Efficient



Reduce Demand

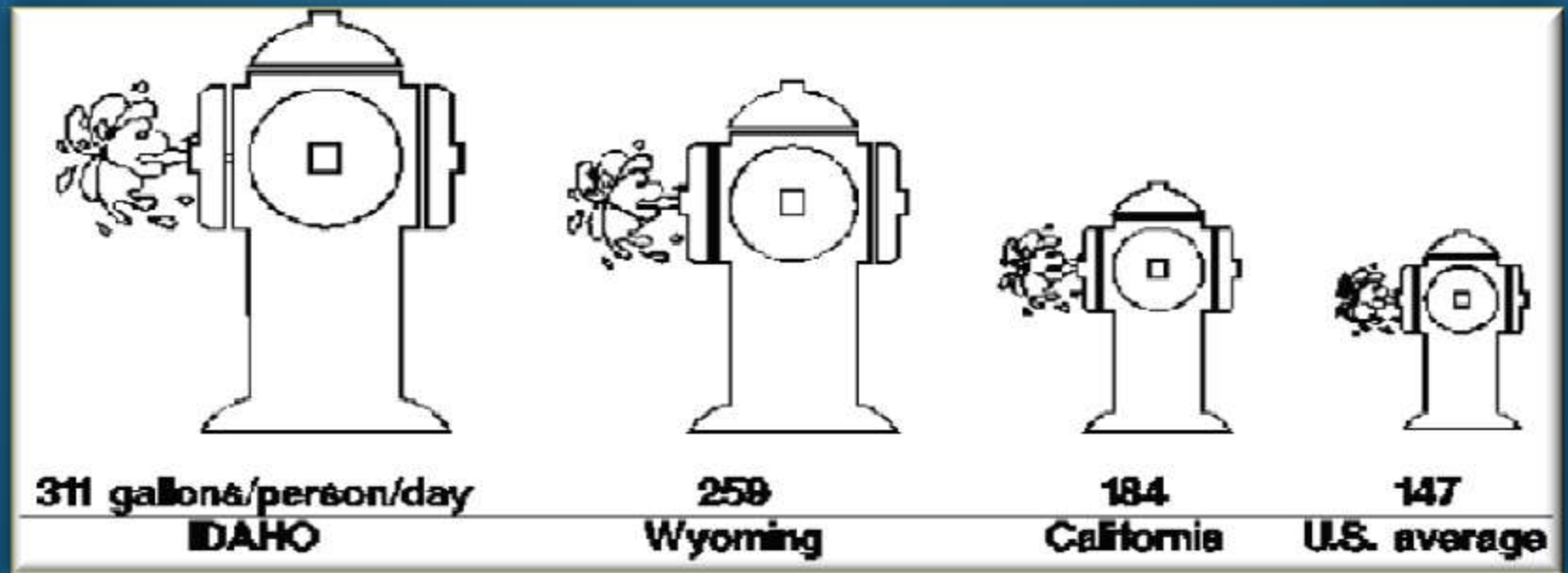
Drip irrigation – most efficient



Drip irrigation combined with real-time soil moisture monitoring, computer-controlled irrigation systems, and improved weather forecasting allows Idaho farmers to reduce water use and adapt to unpredictable water supplies.

Reduce Demand

Domestic and commercial water use comprises about 1% of Idaho's water use, but Idahoans now use nearly 311 gallons per person per day – more than the residents of any other state.

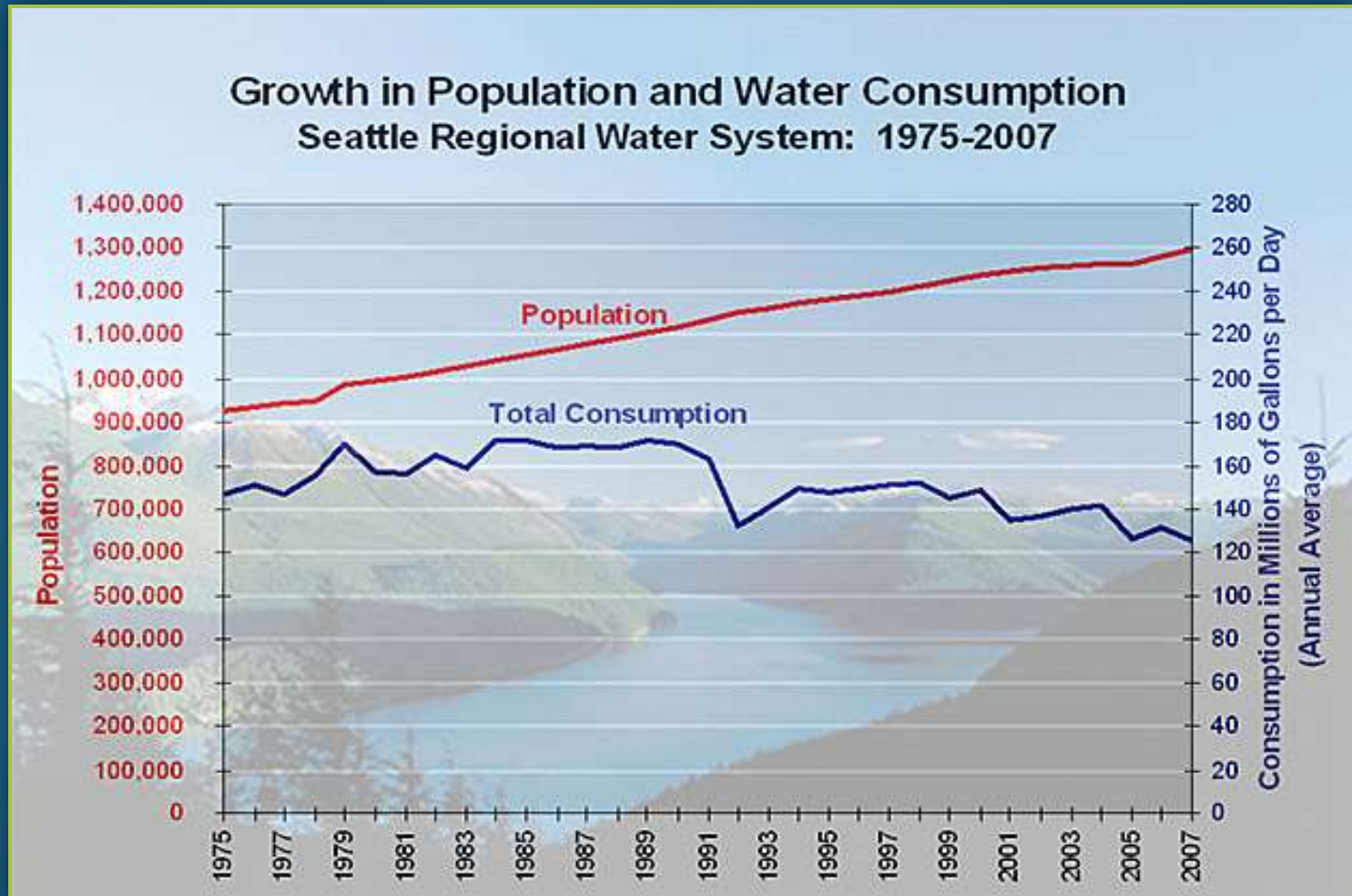


Reduce Demand



Saving water saves energy too!

WATER USE DECLINED 26% SINCE 1990 EVEN WHILE POPULATION INCREASED 16%



Grey Water Recycling



Image credit: [Huber Solutions](#)

Reduce Demand by Recycling



Dust suppression



Fire fighting



Car Washes



Golf courses and parks

Be Waterwise



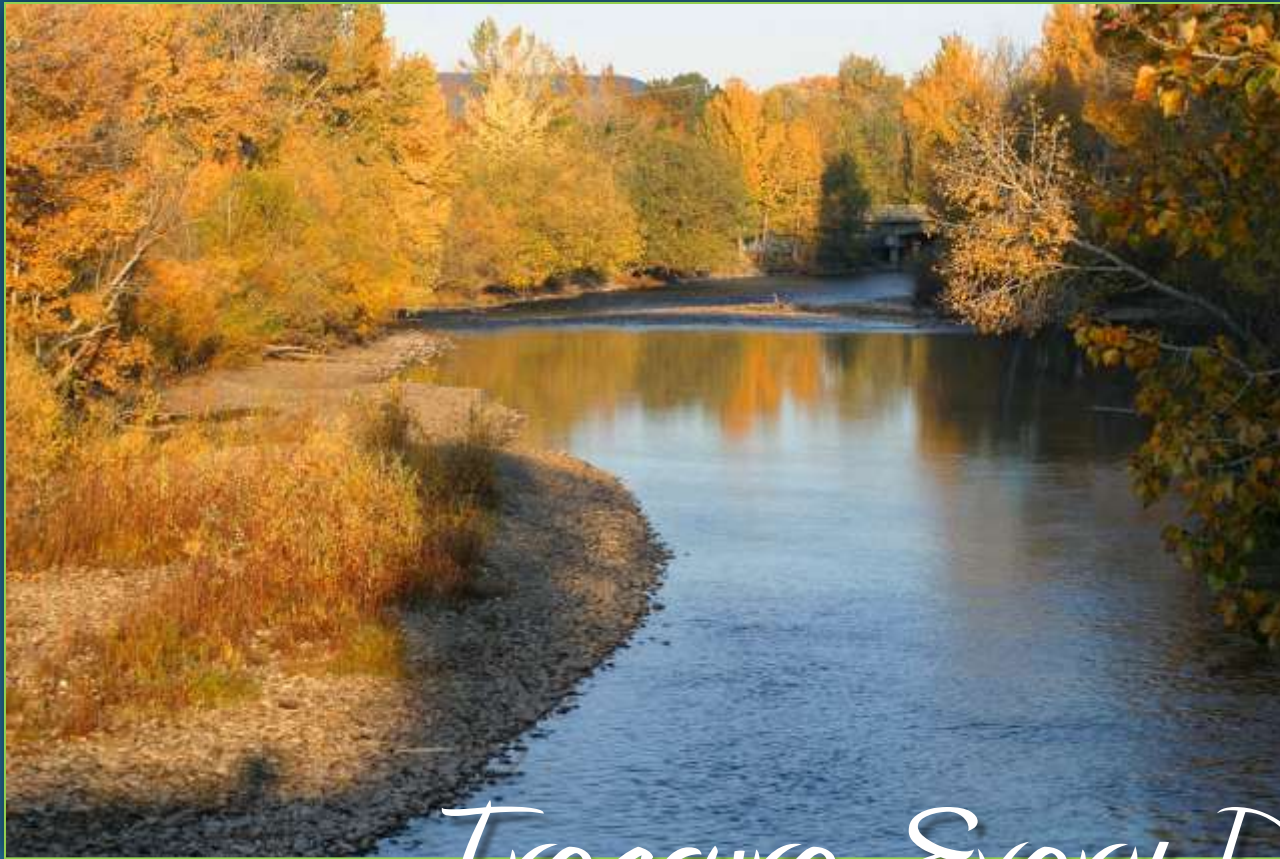
Be Waterwise



Be Waterwise



2020 WATER EFFICIENCY



Treasure Every Drop

2020 RESTORE THE LOWER SNAKE RIVER



Fish ladder



2020 RESTORE THE LOWER SNAKE RIVER





2020 – WATER FOR LIFE

We're all in it together!













A 2020 Vision

Looking Forward Ten Years to a Sustainable Idaho



Energy Use & Production

Presented by...

Kelsey Nunez

with the Idaho Energy Collaborative



Produced by GreenWorksIdaho.org

Energy 2020

*Presented by Kelsey Nunez
And the Idaho Energy Collaborative*

Idaho Green Expo Vision 2020

May 8-9th, 2010

Who We Work With

- Paul Gallender - Office of Energy Resources
- John Gardner - VP, Head of Campus Sustainability BNU
- Jim Kumpson - PUC
- Don Yoon - NWPEC
- State Senator Wendy Jorgensen - Idaho State Legislature
- Larry Packwood - Idaho Department of Commerce
- Jon Watts - Veritas Consultants
- Doctor Sam Mooney - Department of Economics, BNU

Advocate for the West
BNU

BNU Graduate Student
Carmen Kibben

Idaho Sustainable Living Community
John Kibben

City of Idaho
Don Yoon - Energy Efficiency
Wendy Jorgensen - Idaho State

Conservation Values of Idaho
Lee Olson - Idaho Wildlife

Orangefield Idaho
Don Yoon - Idaho State
Lee Olson - Idaho Wildlife

Idaho Association of Cities
Don Yoon

Idaho Conservation League
Don Yoon - Idaho State
Lee Olson - Idaho Wildlife

Idaho Energy Education Project
BNU

Idaho Rivers United
Don Yoon - Idaho State

Idaho Wildlife Federation
Don Yoon

Land Trust of the Treasure Valley
Lee Olson

Northwest Energy Coalition
Don Yoon

Serra Club
Don Yoon - Idaho State

Renewable Northwest Project
Don Yoon

Snake River Alliance
Don Yoon - Idaho State
Lee Olson - Idaho Wildlife

Southwest Idaho Building &
Construction Trades
Don Yoon

Strategic Energy Solutions
Don Yoon

Sustainable Community
Conservation of Idaho
Don Yoon - Idaho State

Snake River Food
Snake River Food Coalition

Western Wildlife Alliance
Don Yoon

U.S. Green Building Council
Lee Olson - Idaho State
Don Yoon - Idaho State

Active Collaborative
Businesses

Altogether Electric, LLC
Don Yoon

Beacon Energy, LLC
Don Yoon

Green Energy, LLC
Don Yoon

Idaho Energy, LLC
Don Yoon

Idaho Architecture, LLC
Don Yoon



Idaho Energy Collaborative

What We Do at the Local Level

* Idaho Energy Efficiency Agreement for Cities and Counties

A local government pledge to:

1. Reduce energy use in city/county buildings measured in terms of targeted percentages or through reductions in a city/county's energy use index
2. Increasing efficiency throughout the community, including in residences and private businesses, through the use of incentives and public education
3. Committing to "Smart Growth" policies in all future city/county development

What We Do at the State Level

* Idaho Energy Plan Petition Drive

- The Idaho Energy Collaborative supports the implementation of the 2007 Idaho Energy Plan. We believe policies that promote energy efficiency and renewable energy development will create economic growth and job growth in Idaho.

* Letter to Gov. Otter requesting State demonstrate preparedness for energy stimulus funds

* Assisted Office of Energy Resources to develop an Idaho Energy Vendor guide

* Legislative Bill Support

- Support for Schools as Energy Producers Bill

- Support for Grow Green Jobs Act

- Shareholder incentives for energy efficiency

- Lending tools for residential and small business Solar/Renewable Energy (PACINOW/OREG)

Find out more about the Idaho Energy Collaborative

www.idahoenergycollaborative.blogspot.com

Facebook - Idaho Energy Collaborative

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Advocate for the West
The West

BNU Graduate Student
Carmen Kistner

Idaho Sustainable Living Community
John Kato

City of Boise
Don Gentry - Assistant Treasurer
Walter DeHaven

Conservation Voters of Idaho
Lee Hays - Checkmate

Greenspace Idaho
Steve Olson - Board President
Jeff Brown - Board Secretary

Idaho Association of Cities
Don Baker

Idaho Conservation League
Amy Miller - Board Member
Paul Johnson - Executive Director

Idaho Energy Institute
Don Gentry - Board President
Walter DeHaven

Idaho Rivers United
Don Gentry - Board President
Walter DeHaven

Idaho Wildlife Federation
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Walter DeHaven

Land Trust of the Snake Valley
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IDAHO ENERGY COLLABORATIVE

Shaping Idaho's Clean Energy Future



We Have The Ability To Meet Our Energy Needs With Clever, Safer, And Cheaper Energy Solutions Now. Through Conservation, Energy Efficiency And Development Of Local Renewable Energy Sources We Will Provide Our State's Future With Abundant Green Jobs And Affordable Energy. Idaho's Natural Beauty, Clean Water And Unique Way Of Life Are A Legacy We Need To Protect.

What We Do at the Local Level

- Idaho Energy Efficiency Agreement for Cities and Counties
- A local government pledge to:
 - Reduce energy use in city/county buildings measured in terms of targeted percentages or through reductions in a city/county's energy use index
 - Increasing efficiency throughout the community, including in residences and private businesses, through the use of incentives and public education
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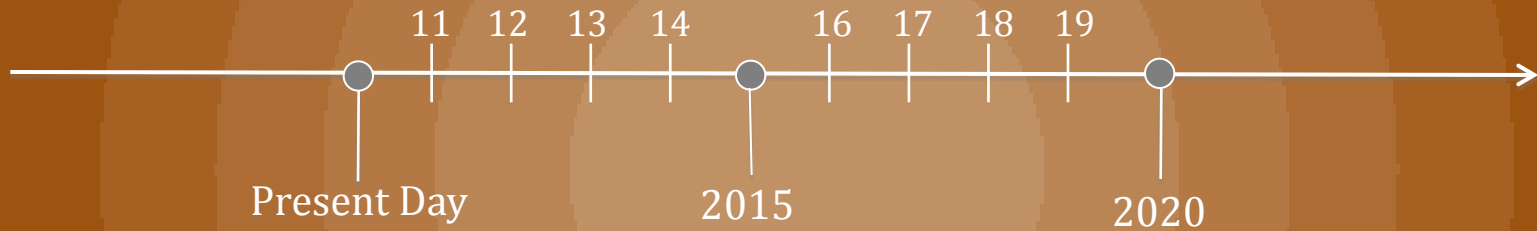
• Over 30 Separate Orgs./Businesses

• Local/State Clean Energy Advocacy

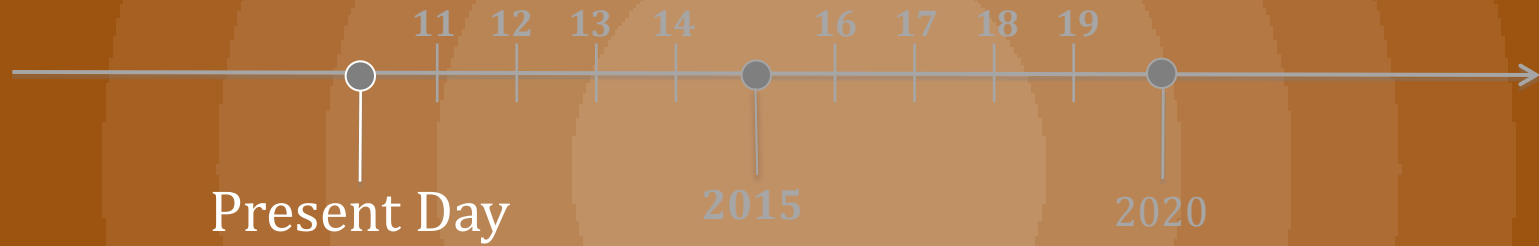
• Action-Oriented Collaboration

Find out more about the Idaho Energy Collaborative
www.idahoenergycollaborative.blogspot.com
 Facebook - Idaho Energy Collaborative

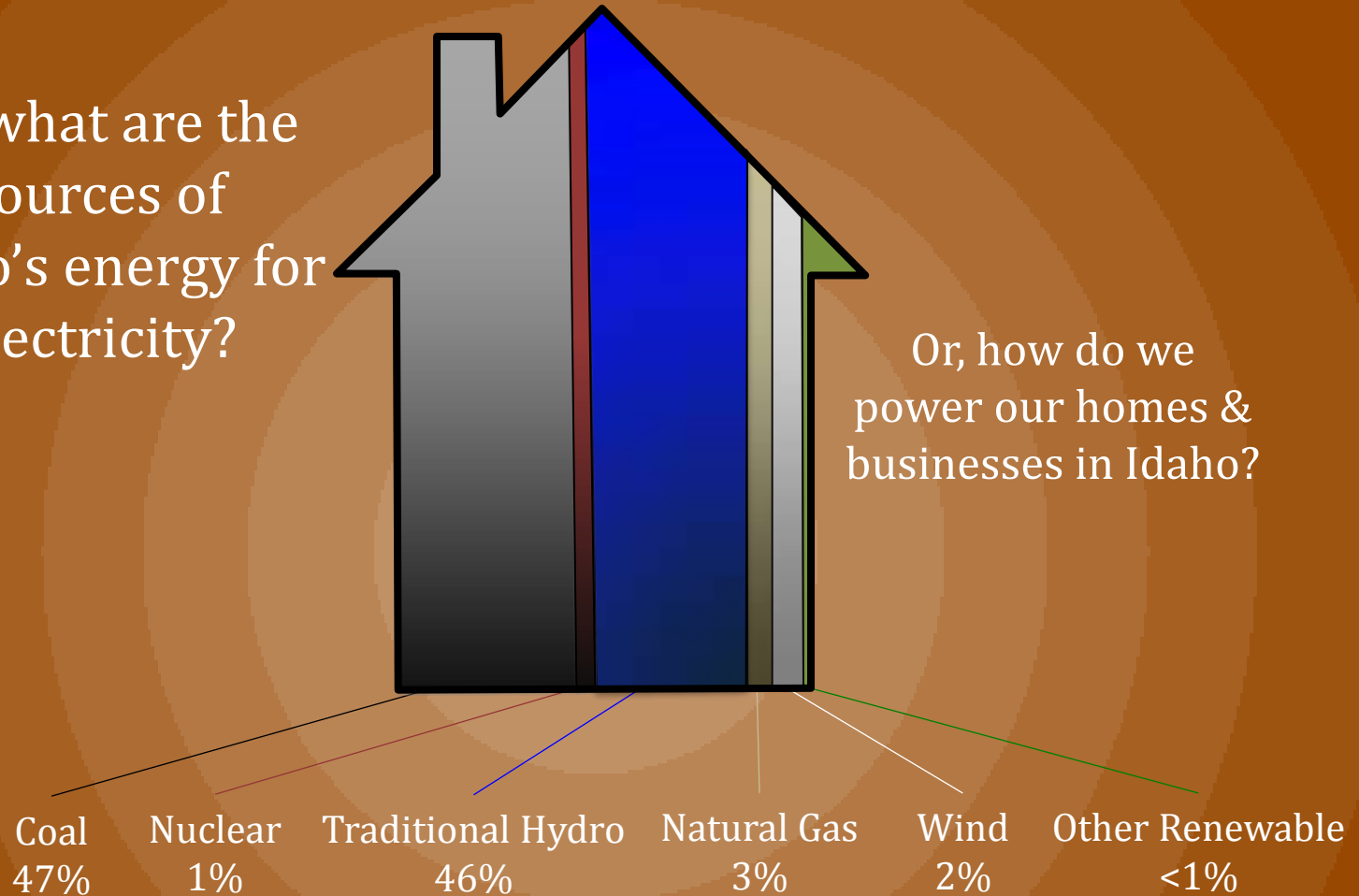
Presentation Timeline



Presentation Timeline

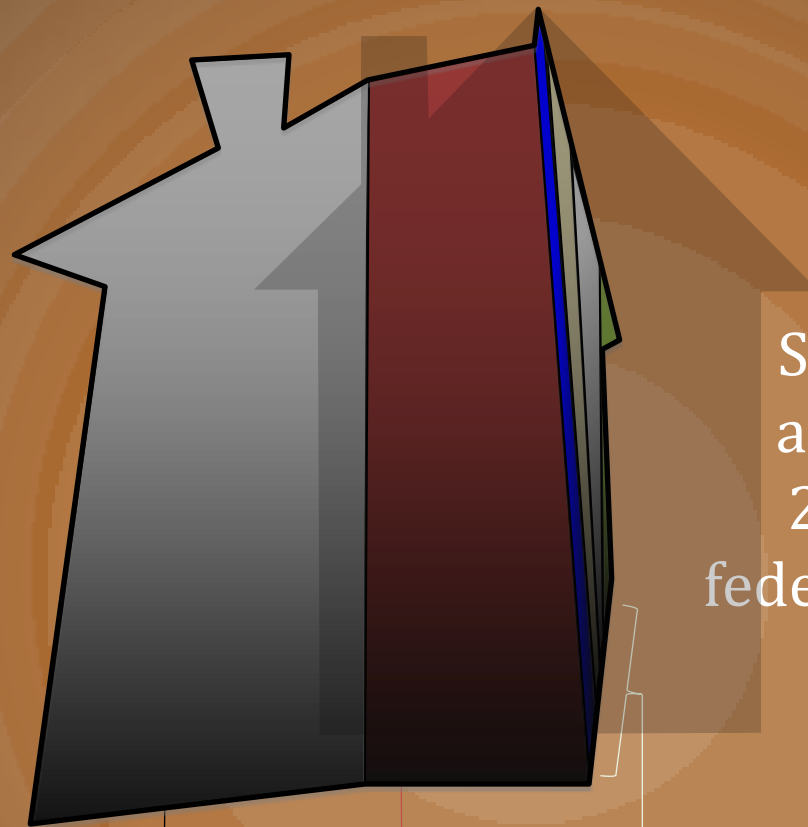


So, what are the
sources of
Idaho's energy for
electricity?



Or, how do we
power our homes &
businesses in Idaho?

How do federal subsidies add up
for our country's energy mix?



Same house
adjusted for
2002-2008
federal subsidies.

\$71 Billion
Oil and Coal
55%

\$48 Billion
Nuclear
33%

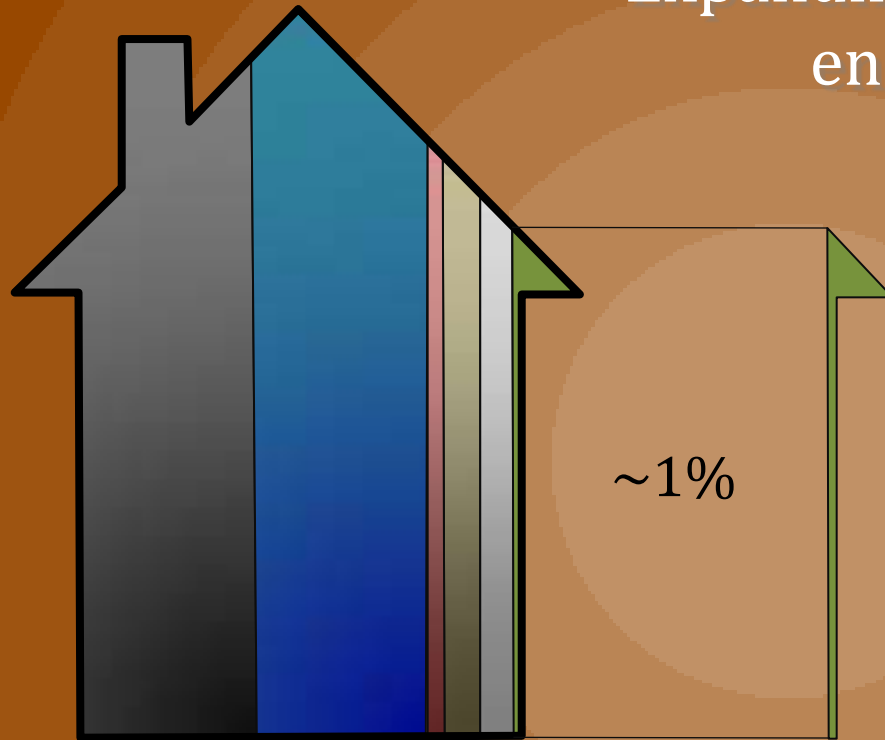
\$12 Billion
All others
*(including hydro, wind,
and renewable tech)*
8%

Data from study conducted by the
Environmental Law Institute

In 2010, almost **half** of Idaho's energy...
...came from coal



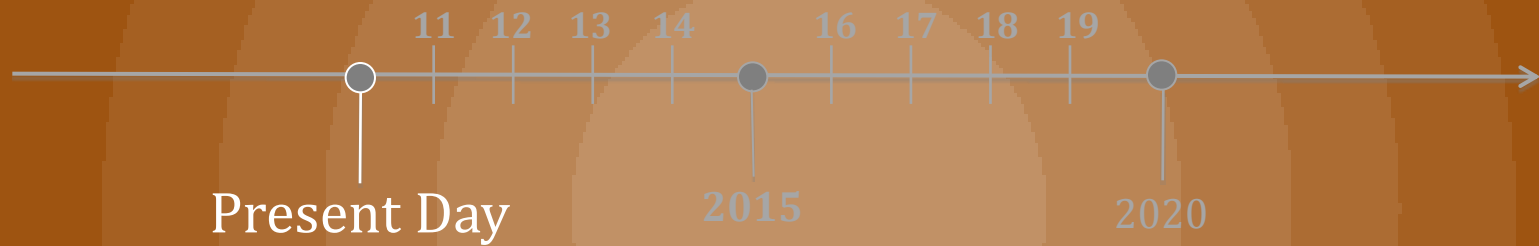
Expanding clean, renewable energy options.



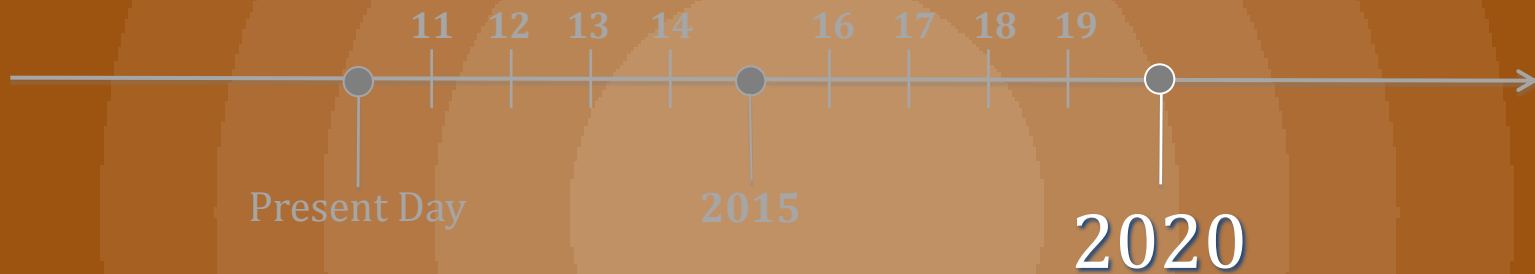
Present day energy mix

- Geothermal
- Solar PV/Solar Thermal
- Biomass
- Micro-hydro

Presentation Timeline



Presentation Timeline



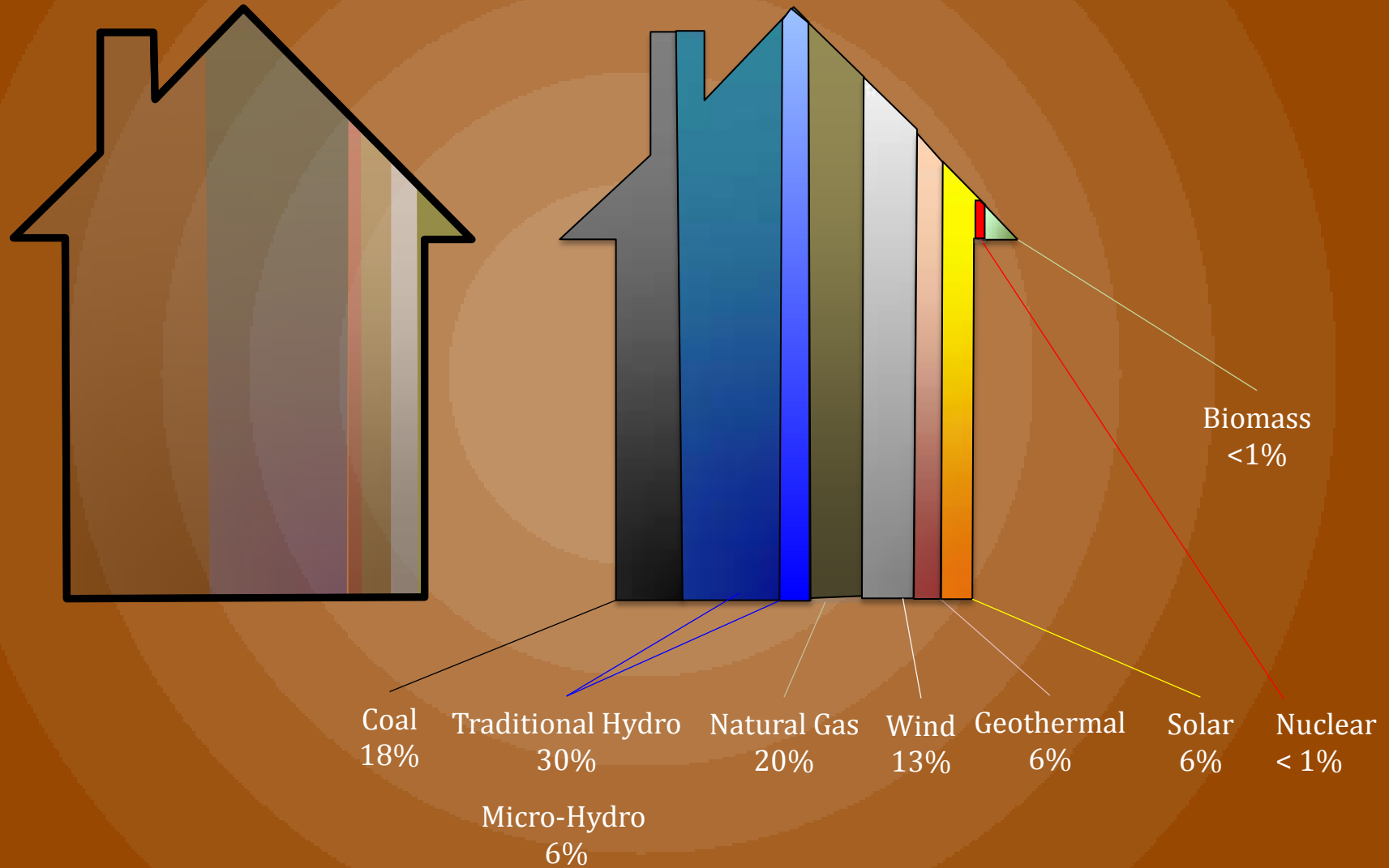
So, what happened in the 10 years
Between 2010 and 2020?

Idaho decided to lead the nation

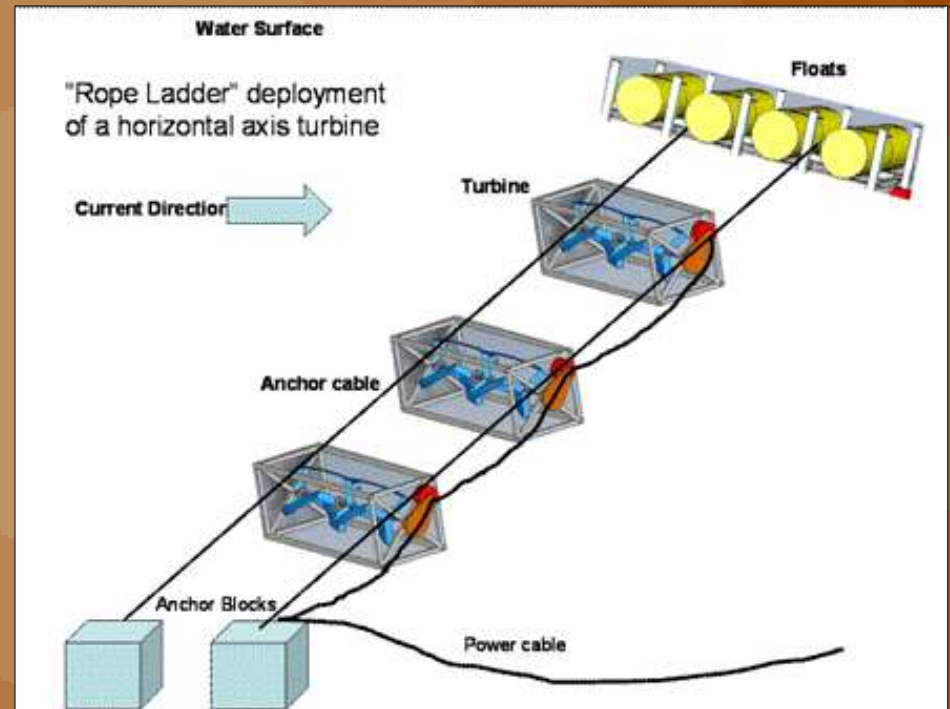
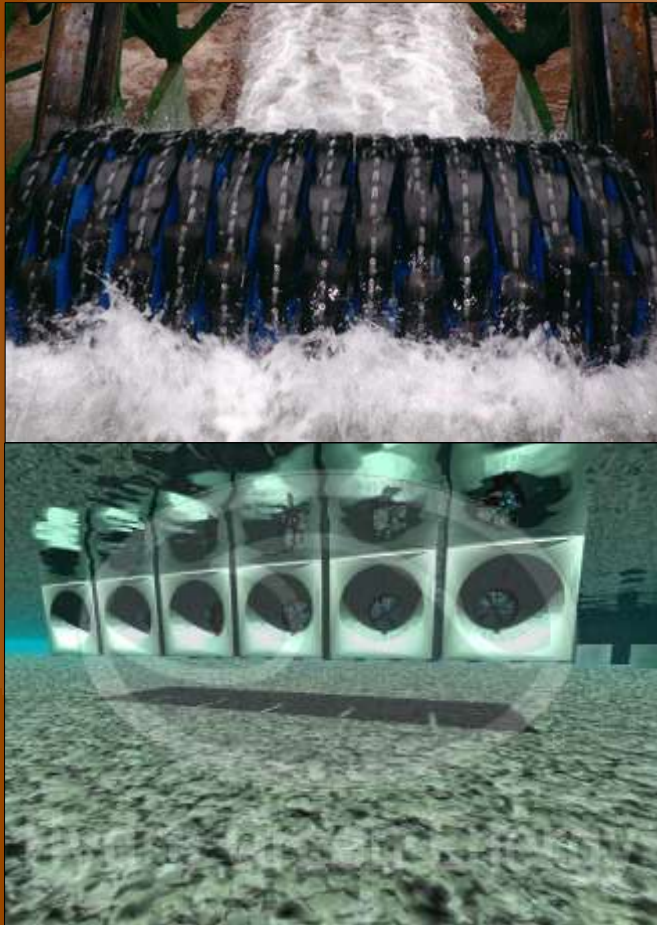


60% Clean Renewable Energy by 2020
100% Clean Renewable Energy by 2030
How?

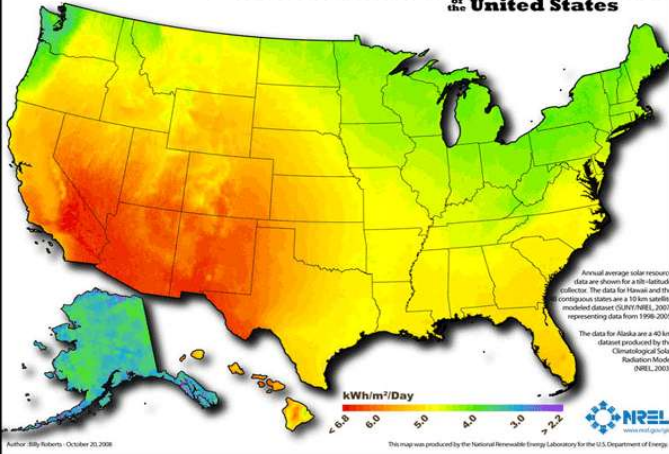
Energy Mix in 2020



Micro-Hydro – Blue Energy



Photovoltaic Solar Resource of the United States



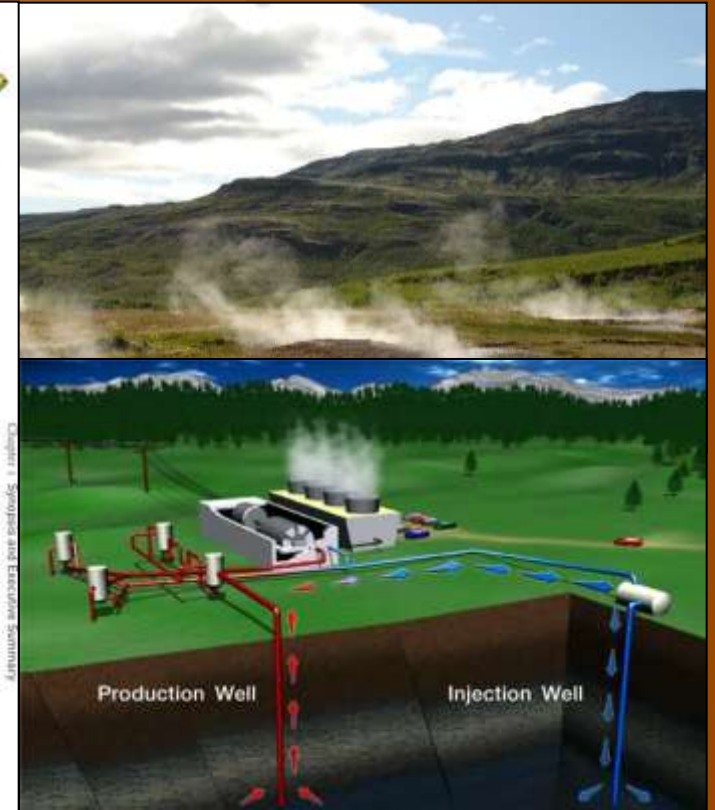
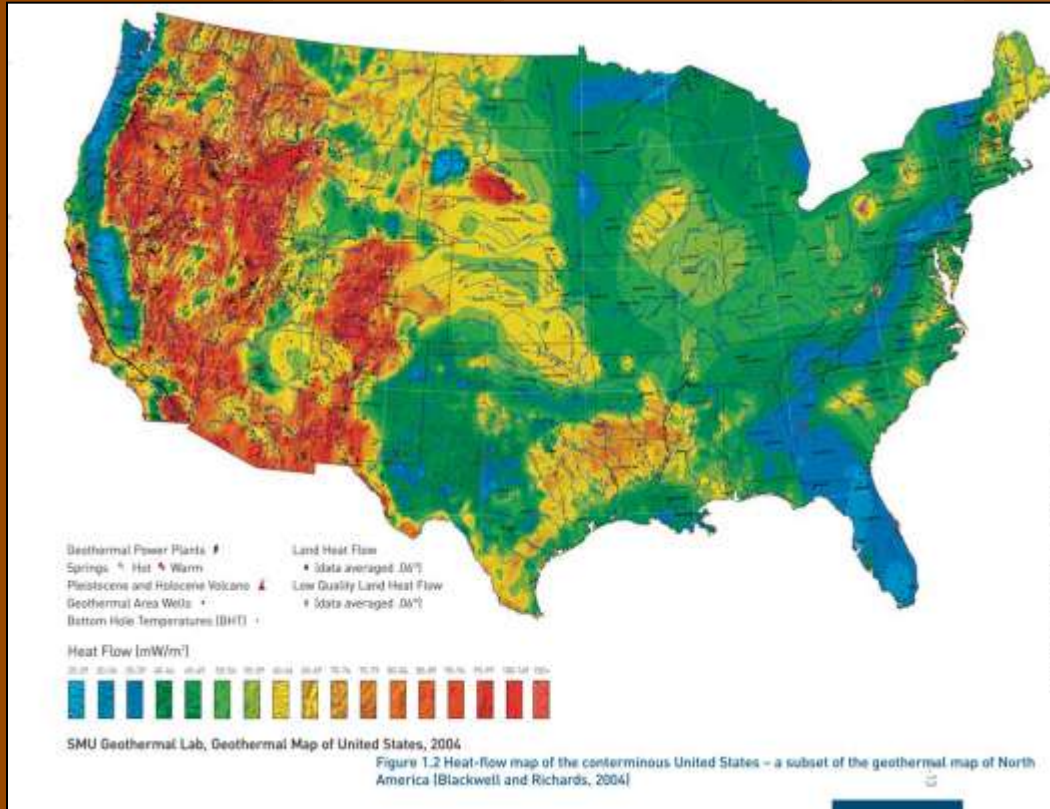
300 Days of Sunshine a year has made Southern Idaho a Solar Leader

- 30,000 Solar Rooftops, two 100MW Solar Thermal Facilities, neighborhood size generators
- 20,000 Idaho Citizens work in Solar Energy Related Fields





Idaho utilizes wind power as the
13th windiest state in the U.S.A.



Idaho is prime for geothermal innovation
We became a hot bed of geothermal leadership,
driving geothermal research for the nation.

Energy Efficiency & Conservation

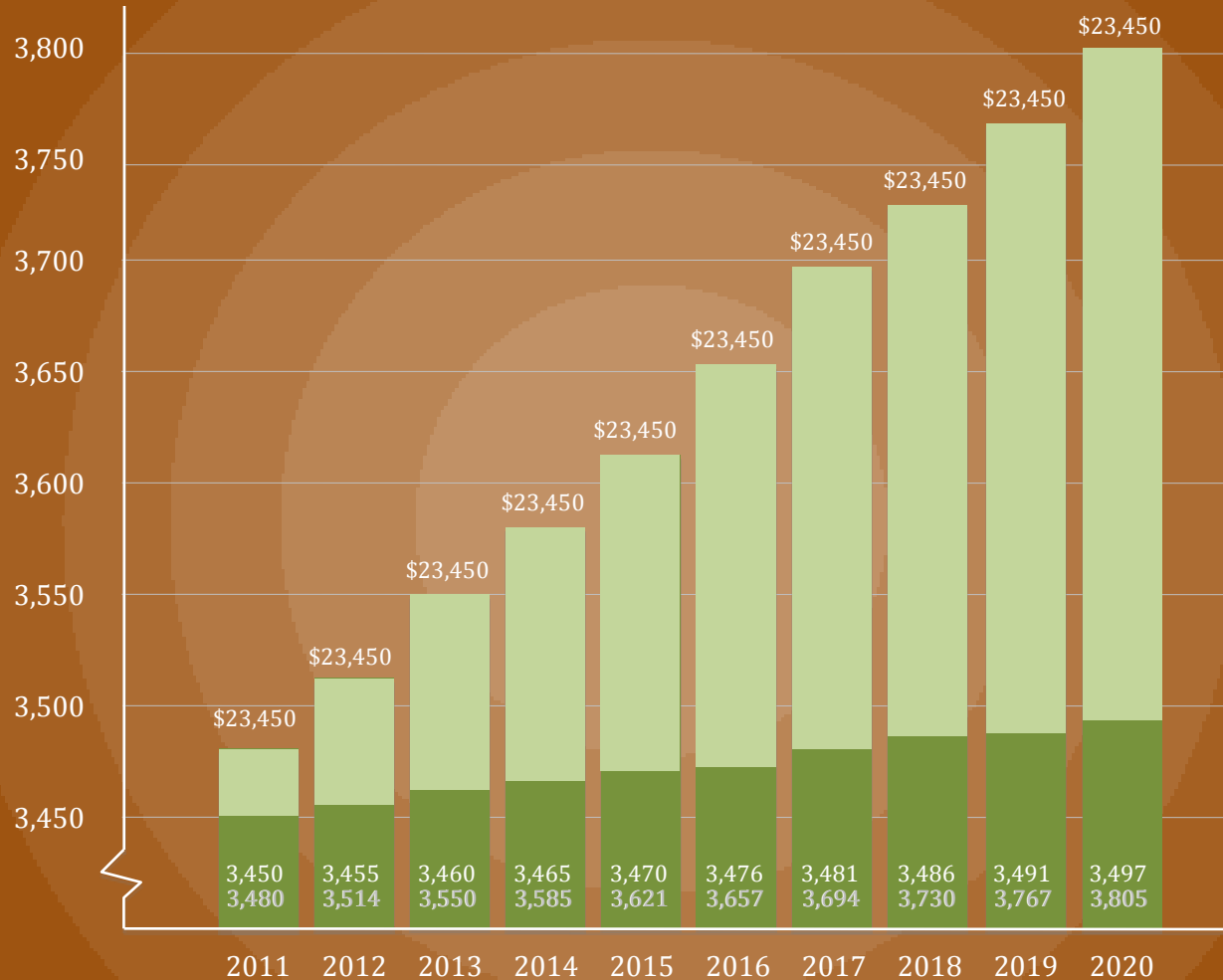
Steven Chu, U.S. Secretary of Energy, 2009:

"If I were emperor of the world, I would put the pedal to the floor on energy efficiency and conservation for the next decade."

Idaho Peak Energy Use, 2011-2020

Growth rate 1%, in megawatt hours demanded

Total Savings, 2010-
2020, through
capturing efficiency:
\$1,250,000



Demand Forecast

Capturing Efficiency/2020

Big Ideas that changed our culture



Monitoring habits at the switch

Transparency from Smart Technology



The Energy Dashboard goes in the kitchen—the brain of household energy waste.

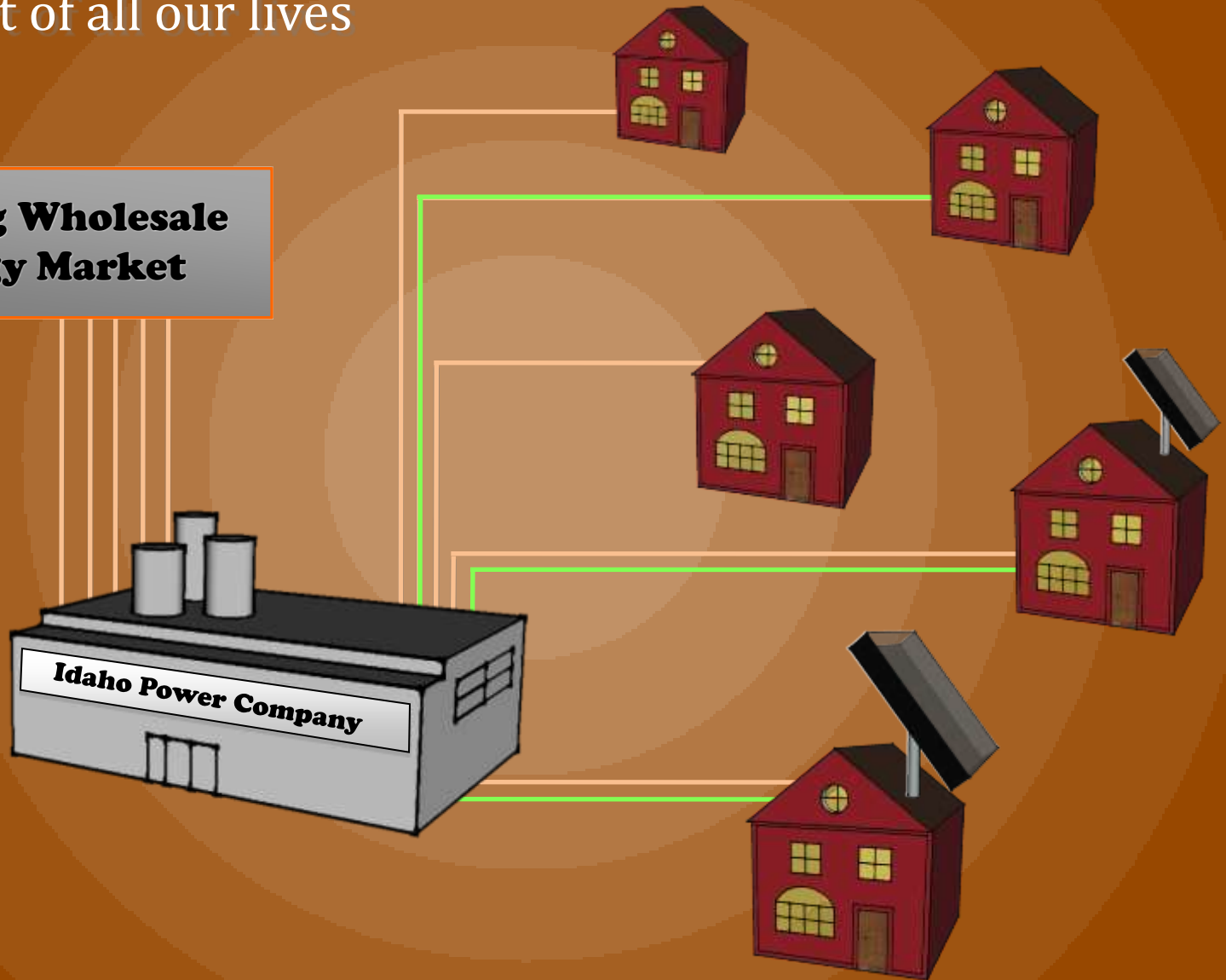
Energy Conservation in 2020

Energy Dashboard



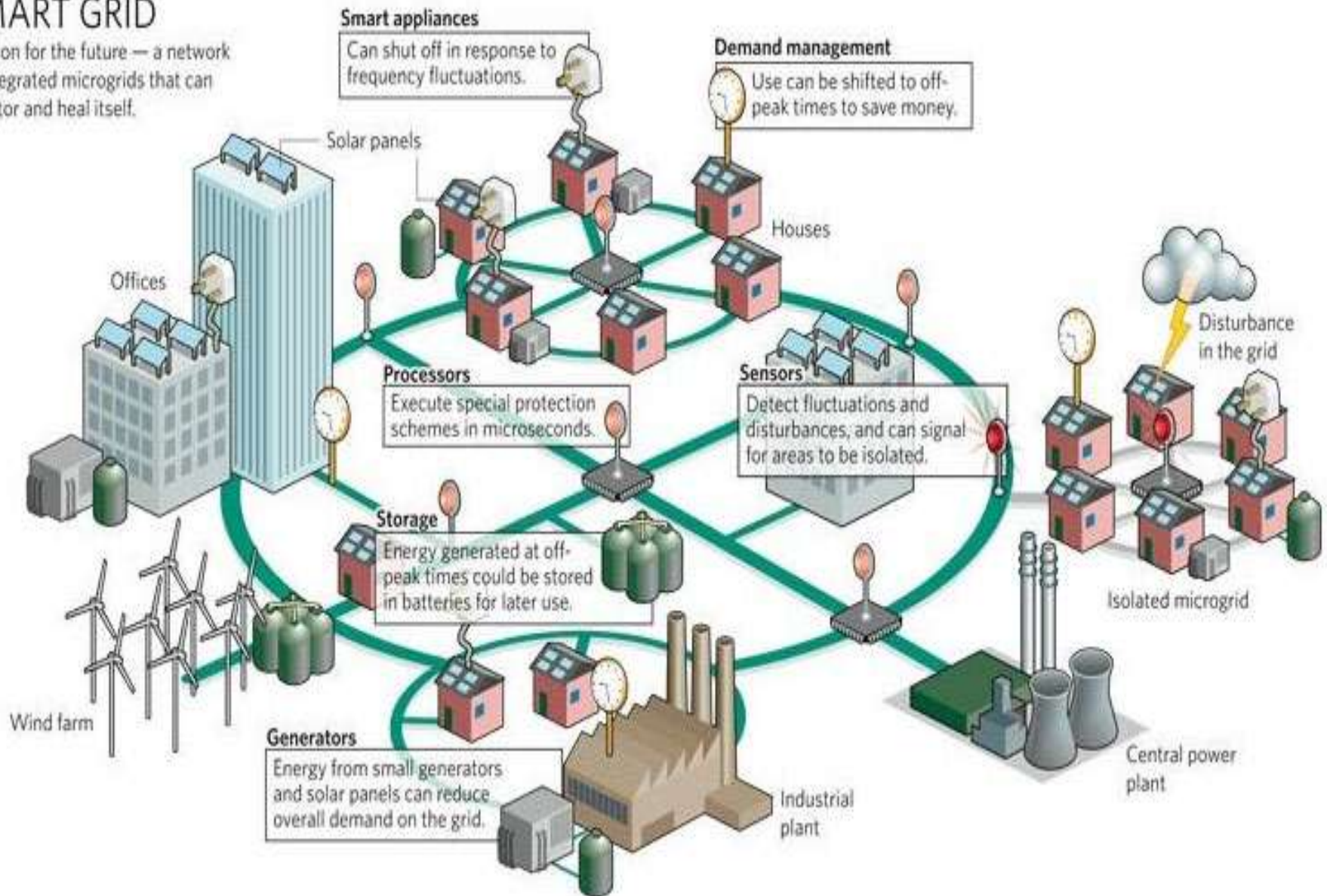
In 2020, Distributed Energy is part of all our lives

**Existing Wholesale
Energy Market**



SMART GRID

A vision for the future — a network of integrated microgrids that can monitor and heal itself.



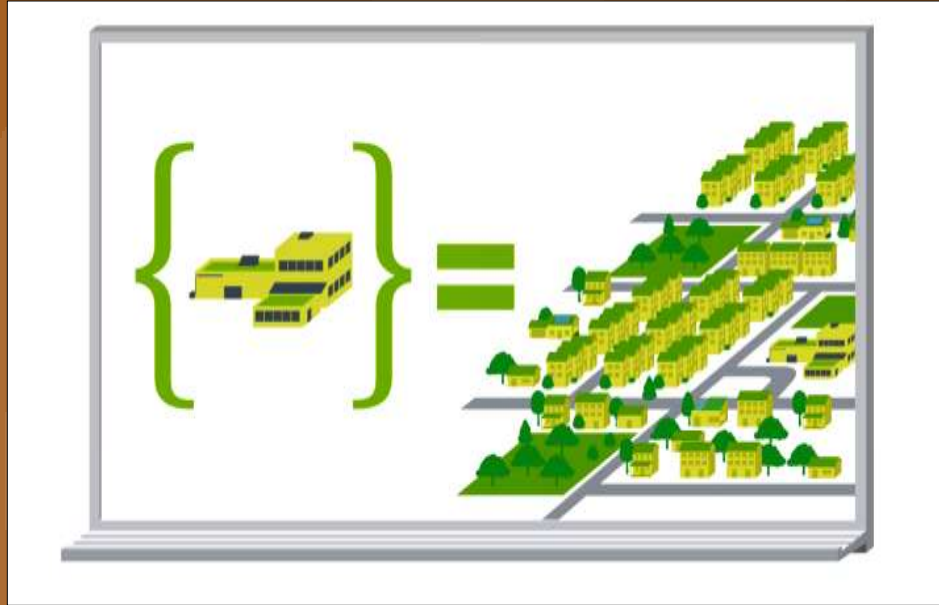


In 2020, Idaho schools are smart about energy education



- 1200 Schools across the State
- 400,000 Students + 35,000 faculty-support

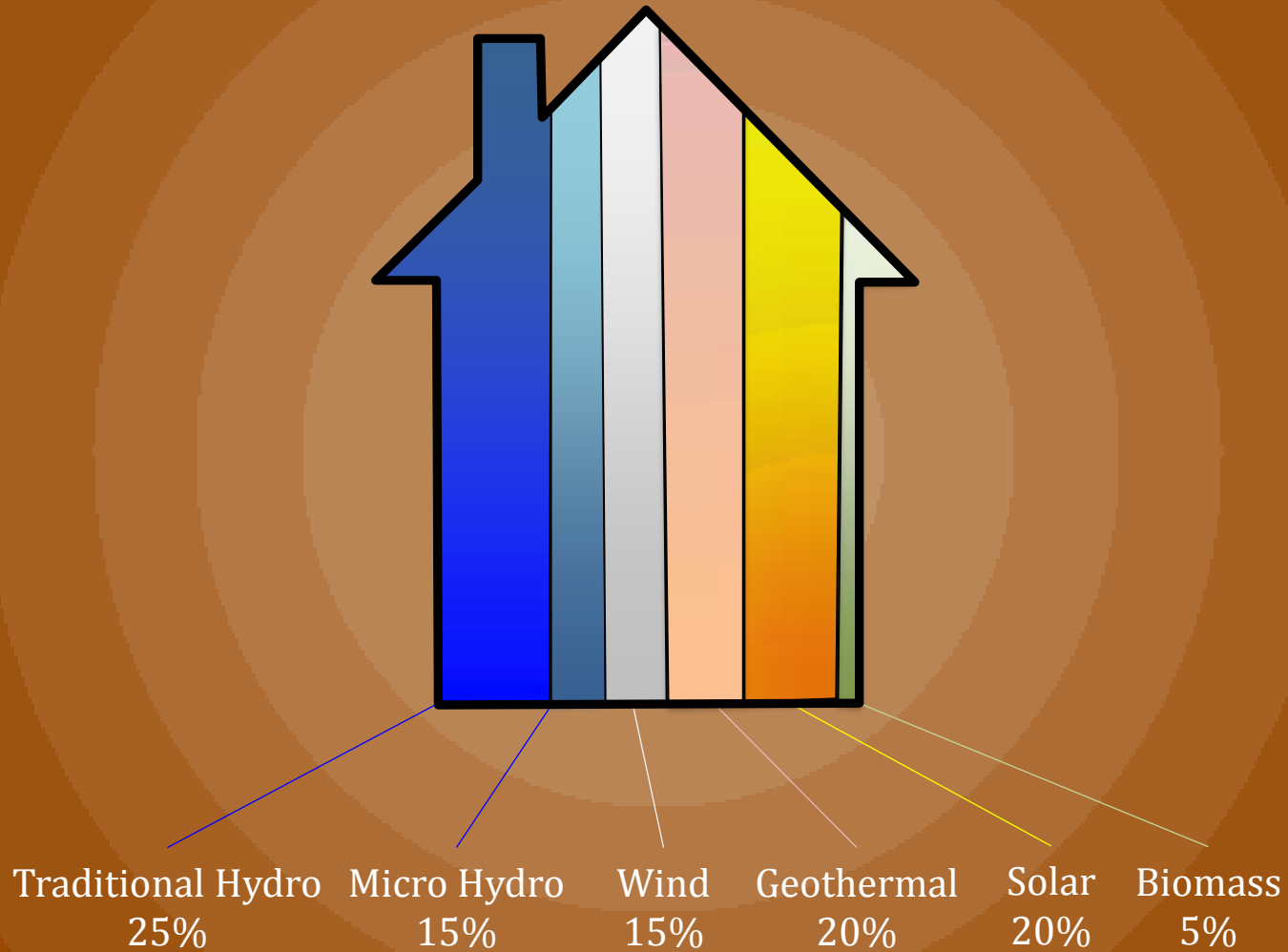
Green Schools = Green Communities



Energy education is continuous and begins early

- Conserve and produce energy, limit waste, and eliminate toxicity
- Research and innovation drives progress and creates a talented work force for the clean energy economy
- Children inspire and lead their communities

Energy Mix in 2030?



Policy changes happen when we give
courage to our elected representatives.

Cultural changes happen when
leaders inspire imagination.



Idaho Energy
Collaborative

A 2020 Vision

Looking Forward Ten Years to a Sustainable Idaho



Green Consumers

Presented by...

Catherine Chertudi with
the City of Boise; Public Works



Produced by GreenWorksIdaho.org

Green Consumer

Embracing the Art of
Reduce, Reuse and
Recycle

A stylized, dark teal silhouette of a mountain range is positioned in the bottom right corner of the slide, adding a naturalistic touch to the design.

Historic Issues

- ◆ Landfill disposal was cheap and easy



Historic Issues

- ◆ Unlimited trash disposal



Historic Issues

- ◆ Illegal disposal –
desert and foothills



1998

- ◆ 54,000 households in Boise
- ◆ 6.215 pounds Trash per household per day
- ◆ 186.45 pounds/HH/Month
- ◆ 17.2 pounds/HH/Month Recycling

8.4% Curbside Diversion Rate



2010

- ◆ 69,000 households
- ◆ 5.04 pounds trash per household per day
- ◆ 151.23 pounds/HH/MO
- ◆ 29.45 pounds Recycling/HH/MO

19.5% Curbside Diversion Rate



2020 Vision

- ◆ Garbage used to generate electricity and biofuels



2020 Vision

- ◆ RE-THINK
- ◆ Reduce
- ◆ Reuse
- ◆ Recycle



2020 Vision

- ◆ Consumers make good choices when they purchase products



2020 Vision



Good Choice

Poor Choice!



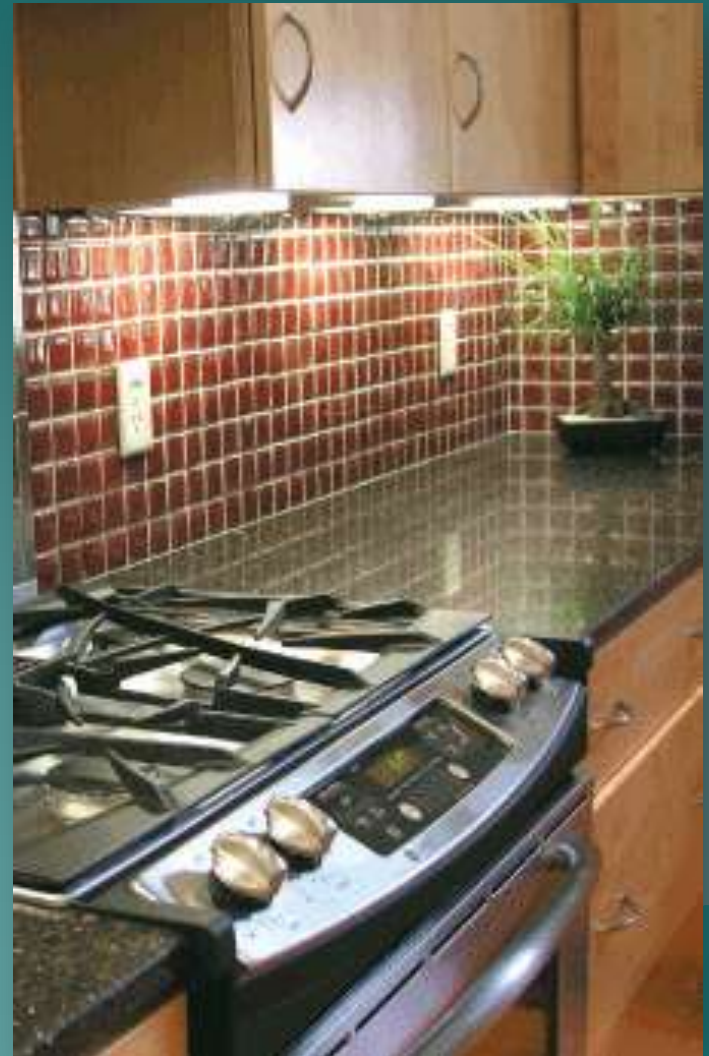
2020 Vision

- ◆ Educated citizens
 - Sustainable practices are well understood



2020 Vision

- ◆ Local industries use recycled materials



2020 Vision

- ◆ Businesses & industries practice
 - ◆ Reduce, Reuse and Recycle
 - ◆ Recognize water and energy conservation are part of the picture too!



2020 Vision

- ◆ A great quality of life depends on a great environment
 - ◆ Clean air
 - ◆ Clean water
 - ◆ Energy efficient
 - ◆ Reduce wastes



2020 Vision

◆ Challenge

Re-think what you buy

Reduce wastes by $>75\%$

Recycle or Donate remainder

Dispose of $<5\%$

Conserve water and energy

Reduce water use by $>50\%$

Reduce energy use by $>50\%$

2020 Vision

- ◆ Create a community of committed people caring for future generations.



A 2020 Vision

Looking Forward Ten Years to a Sustainable Idaho



Transportation & Clean Air

Presented by...

Rachel Winer with Idaho Smart Growth



Produced by GreenWorksIdaho.org



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Transportation and Air Quality

- The United States is the largest emitter worldwide of the greenhouses gases.
- Transportation = 1/3 of CO₂ emissions in the United States (and its going up)

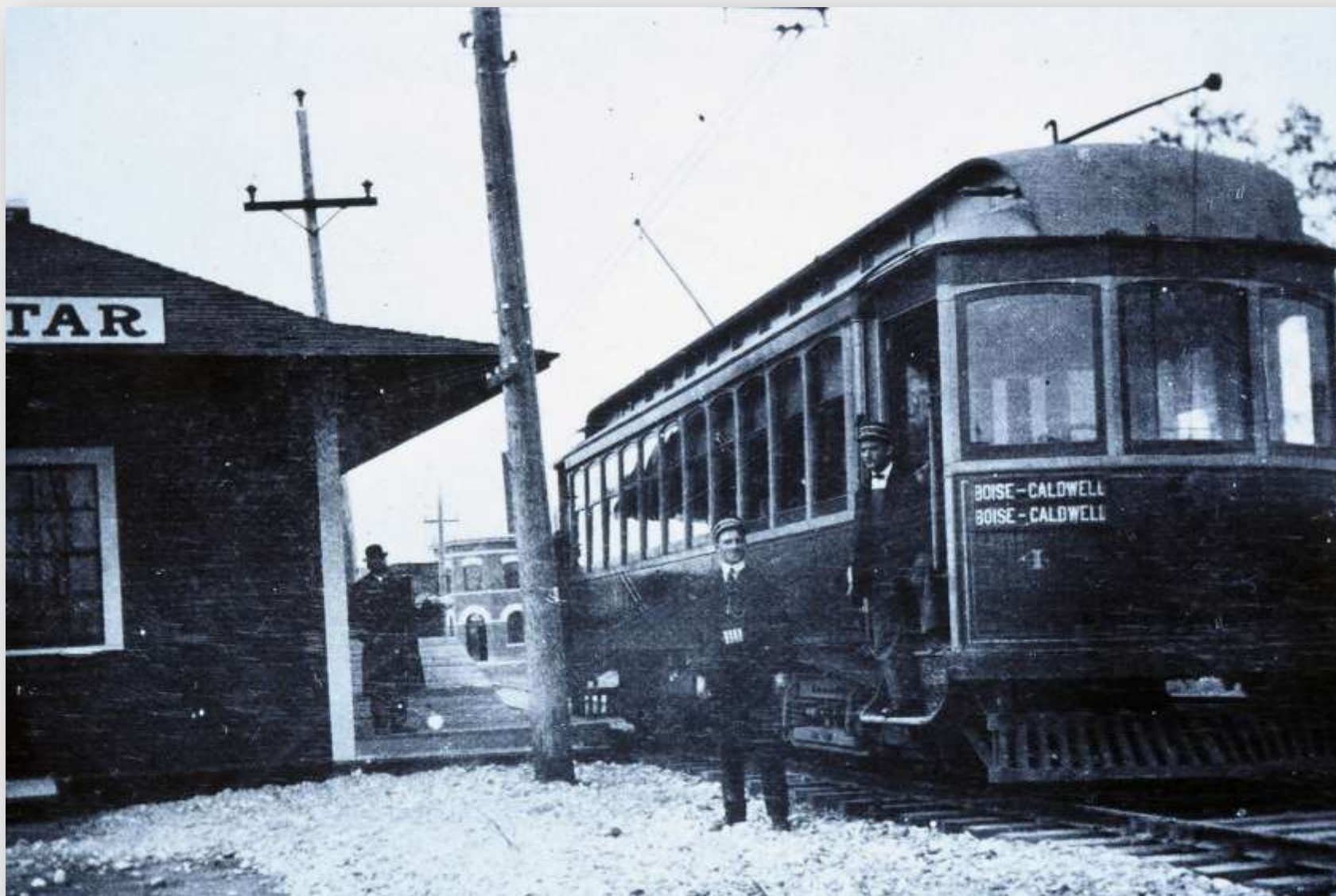
Three-Legged Stool

- *Vehicle Fuel Efficiency*
- *Carbon Content of Fuel*
- *Amount of driving = Vehicle Miles Traveled or VMT*

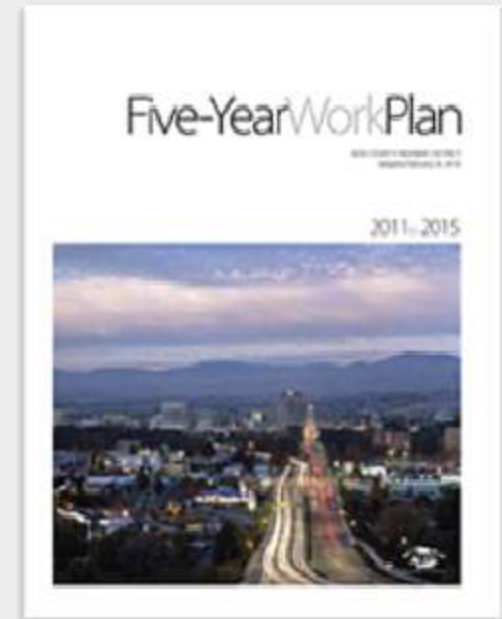
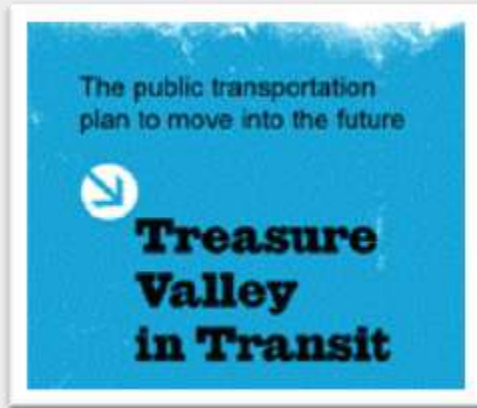
Vehicle Fuel Efficiency and Fuels



Reducing How Much We Drive



Regional plans



What is smart growth?

→ Smart Growth

Mixed land Uses,
Higher Average
Densities, Strong
Centers or nodes,
Interconnected
Streets =
Reduced car trips
and VMT



← Sprawl

Land Uses
Separated,
No center,
Lower
average
densities,
Roads Not
connected =
Drive for
Every Trip



Traffic Circles



- Most common traffic calming device.
- Reduce auto accidents by up to 90%
- When replacing stop signs, increase emergency vehicle response time by 30%



Street painting in
middle of
intersection,
Boise, summer of
2000.

"I'M WALKIN' HERE!" Even, level sidewalks should be at least 20 feet wide to allow ample room for pedestrians and enough space for people to stop and chat or look in shop windows without causing a pileup.

BIKER ALLEY: Creating a safe, welcoming environment for city cyclists begins with bike lanes painted a noticeable color (green in the Manhattan and Brooklyn pilot project) and separated from traffic by parked cars or flexible bollards where possible.

NO PARKING: Free and cheap parking will have to be severely cut back. "You can't essentially store your property in this public space; that could be used so much more productively," says White. Selective removal of on-street parking will discourage car use and recapture space for wider sidewalks, bike lanes, bike parking, plantings, sitting areas, and even tree islands.

THE TEN-SECOND TAKE

"Only New Yorkers know what they need, but every city is going to be looking for innovations like these in the future—whether they want to or not. New York's just getting a jump on things."

—TOM POTTER, mayor of Portland, Oregon, the first city to test a pedestrian-friendly intersection area in the U.S.

GREEN-D-METER ●●●●○

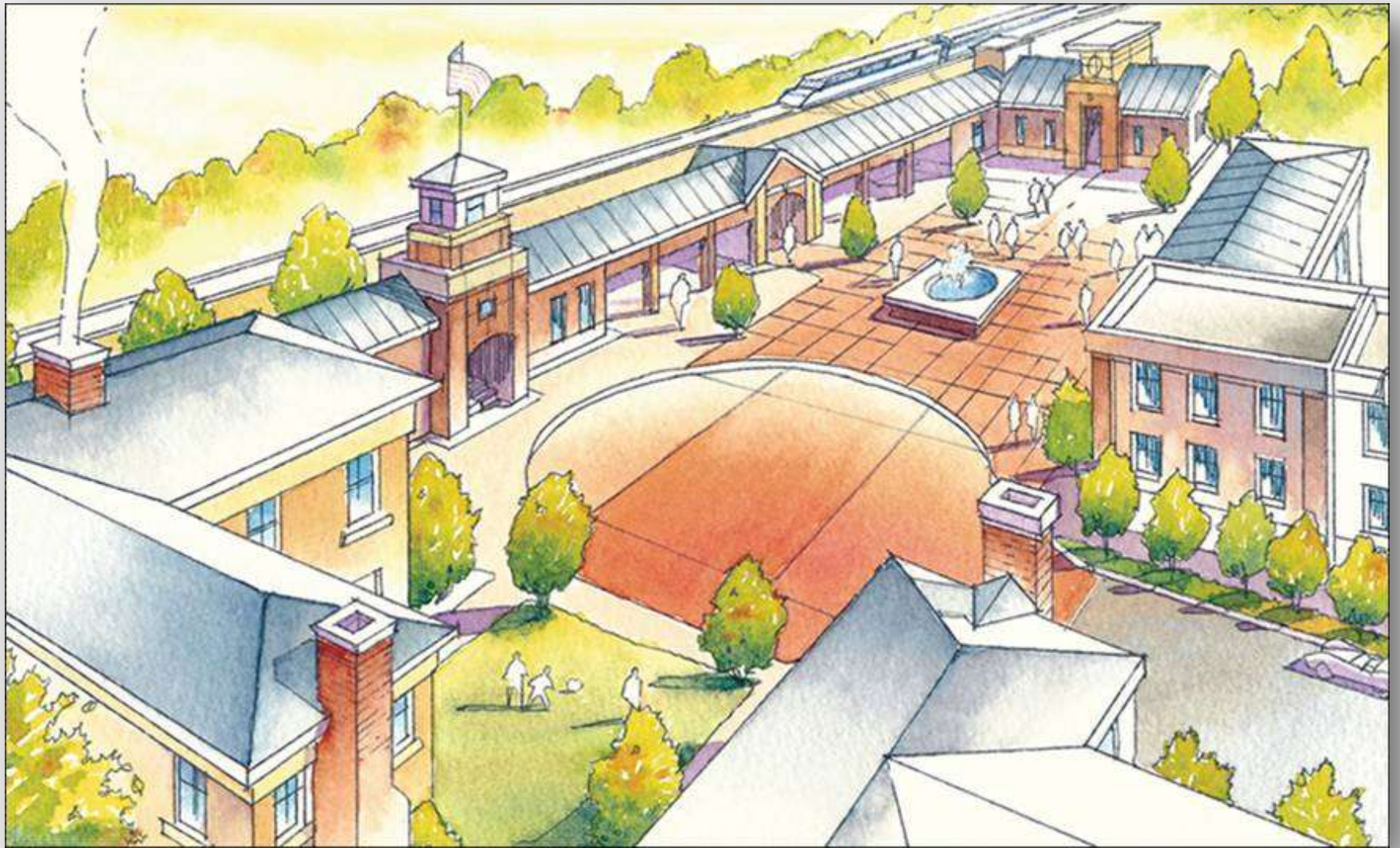
EXTRA PROTECTION: Extending the medians through the crosswalks, in effect creating a protective bracket on the side of the crosswalk exposed to traffic, keeps pedestrians safe, gives them a mid-crossing refuge, and keeps traffic from cutting too close to the medians. Bollards serve as both a visible marker and physical barrier.

CURB ENTHUSIASM: Bumping out intersections with curb extensions and bollards (rigid three-foot posts) means safer streets, narrowing crossing distances, making pedestrians and cars more visible to each other, and keeping traffic in line. They should feature on the corners of high-traffic streets.

REINVENTING THE APPLE

Recently, a New Yorker (let's call him Tim) was forced off a sidewalk by a double-wide stroller, a large dog, and an elderly pedestrian all traveling abreast. So he shimmied between parked cars, nearly collided with a bike messenger going the wrong way up a one-way street, and walked through the exhaust-choked margin of the avenue while fantasizing about a future in which New York City's clogged streets are reconfigured in favor of pedestrians and cyclists. A pipe dream? Nope, and you can thank advocacy/watchdog group Transportation Alternatives. New York is a walker's city, but its streets, which represent 85 percent of its public space, are

monopolized by the fume-spewing, driving minority. "For so many years, the streets have just been for cars, like NASCAR speedways," says Paul Steely White, TA's executive director. "We're trying to reclaim the city for the people." How? Well, thanks in part to TA's dogged pursuit of transportation reform, the city recently took a major step forward by retaining the services of the godfather of anti-automobile urbanism: Copenhagen-based urban designer Jan Gehl, whose Gehl Architects has helped draft plans for Stockholm, Melbourne, and, most famously, London. Gehl is now in the midst of an American invasion, having signed on to consult not only for New York but for Seattle and, possibly, San Francisco. The first step, he says, is getting people to think anew about urban life. "We





CRYSTAL
CASCADE

Pure Drinking Water

NAMPA
BIKE & WALK



MAY 11-16



The public transportation
plan to move into the future



Treasure Valley in Transit



Goal:

Make buses run like subways.

Problem:

Buses take so long to load.

Solution:

Use mass-produced "tube stations" with platform-level loading, multiple doors along vehicles, and payment at station entrance, reducing "dwell time" to 20-40 seconds per stop.



Eugene, OR



THE TEN-SECOND TAKE

It's impressive, its adoption will help to mitigate climate change and urban congestion—and even ensure the roads safer, since you can see around it.

—NATHAN W. L. KAHN, a professor at the U.S. Center of the Future of Transportation at the University of California, Berkeley

GREEN-ID-METER ●●●●●

dia Lab Station
IT

DIAGNOSTIC BOARD: These computers on wheels will "learn" as they go, registering traffic, weather, and so forth. Interior screens will reflect users' preset preferences, recognized via a keypad. And, you'll be able to personalize the handling, display, and possibly even color. For a shared-use system to work, you need sophisticated information technology," says Mitchell. A fully functioning City Car prototype—needing one-eighth the parking space of an SUV—could be finished by next year.

VISIONARY WHEELS: Since the folding car is joystick-controlled and recharges when it stops, there's no need for a steering column or bulky battery bank. Instead, the team created computerized, semi-directional wheel robots—self-contained accelerating, braking, suspension, and four-wheel-independent-steering units with motors powered by lithium-ion batteries and a range of 30 to 75 miles per charge. Mitchell hopes to wrap them with airless, flat-panel Michelin Pirelli, which would feature a homogenous of polyurethane spacers. The motors may be capable of 110 miles per hour, but the plan is to cap the speed at 55.

NO CAR? NO PROBLEM.

If William Mitchell gets his way, the ubiquitous gas guzzler may not be long for this world—or could at least suffer a drastic reduction in numbers worldwide. The director of MIT's Smart Cities interdisciplinary research group says he has the luxury of tackling big stupid problems by "stepping back and asking the big stupid

questions." Exhibit A: He and his team have developed a foldable, stackable, rentable electric car they hope will revolutionize urban transportation. Each joystick-controlled City Car would be part of a system with rental "docks" scattered all over town, specifically near transit hubs like subway and train stations. Just swipe a card and go.

—T.S.



Improvements in funding

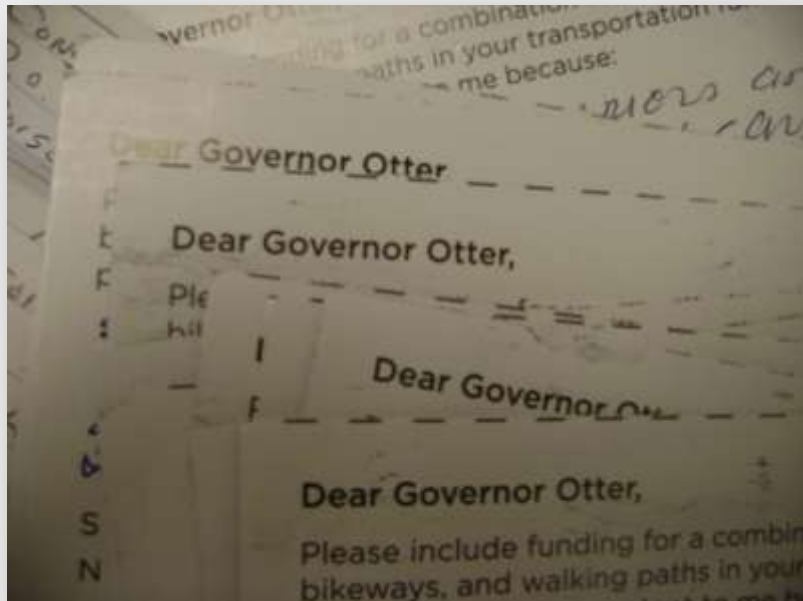




What happens if we don't?



What you can do



www.idahosmartgrowth.org
www.treasurevalleyinmotion.org

Vision

In the next 10 years, Idahoans will see advances in vehicle technology and fuel technology as well as improvements in alternative transportation and increased land use and transportation planning. We'll see more kids walking to school and more communities creating walkable, safe, and healthy neighborhoods.



Thank you!

For more information:

Idaho Smart Growth

(208)333-8066

www.idahosmartgrowth.org

A 2020 Vision

Looking Forward Ten Years to a Sustainable Idaho



Green Homes & Gardens

Presented by...

Lisa Scales with Sustainable Futures



Produced by GreenWorksIdaho.org

VISION 2020

Home

Home – what we want

▣ *Shelter*

▣ *Comfort*

▣ *Security*

▣ *Community*

▣ *Beauty*

And what else?

More...

More....



Space?



More....



...and more



MORE!



More...



Energy

More...



Maintenance

More....



Hassle?

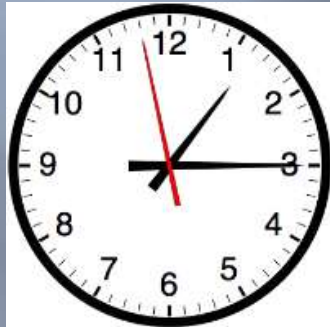
And when the space fills up...



...more



More...



Commute

...more?



More...



More....

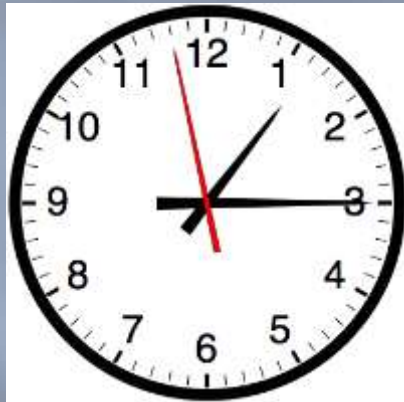


ARA





More....



**LAWN
CHEMICALS
APPLIED**

TRUGREEN ChemLawn®

401-732-

KEEP POSTED FOR 72 HOURS

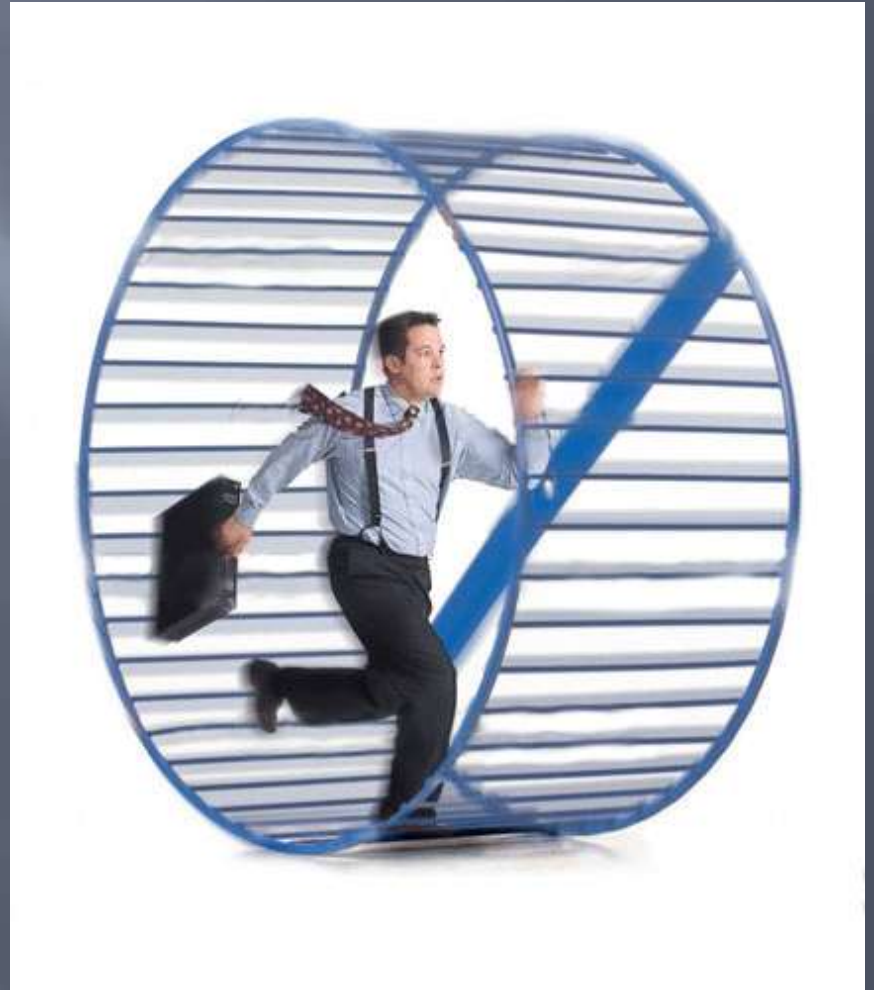
More....

LEGS?



And what does all this cost
us?

MORE!







More?



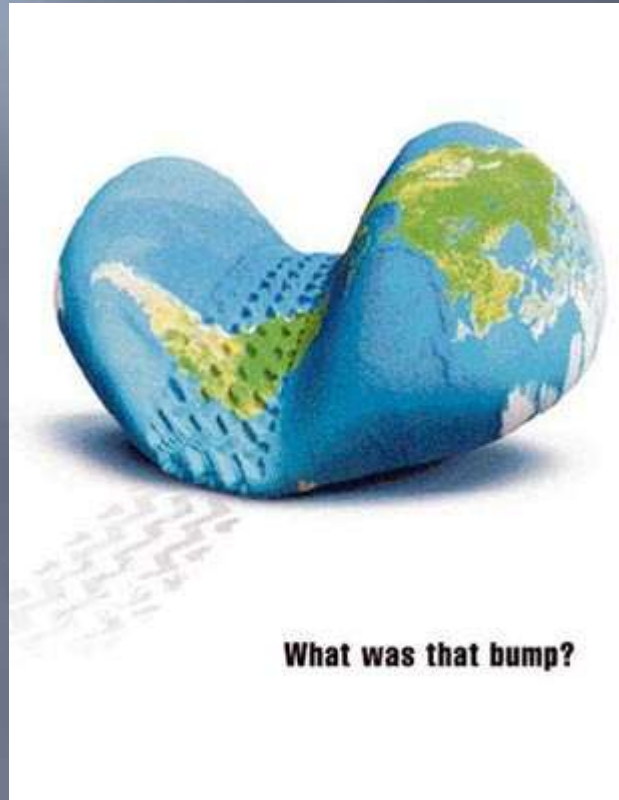
www.polyp.org.uk

animated version- www.foei.org/livemore

...and what do we leave behind?



ENOUGH?



What will we leave for them?



ENOUGH?

MAYBE THE ANSWER IS TO
HAVE

Just enough



Adapted to place and time...







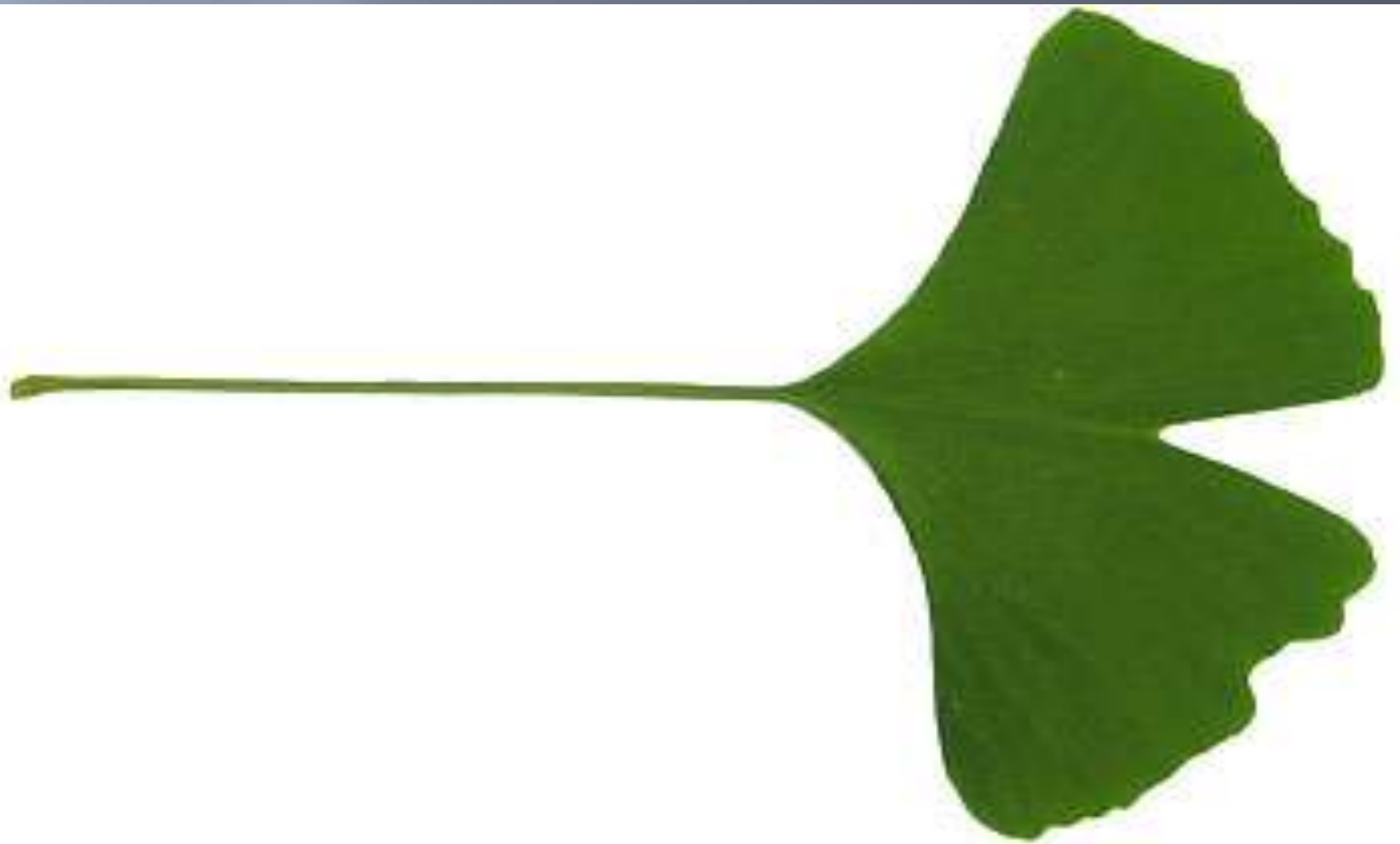


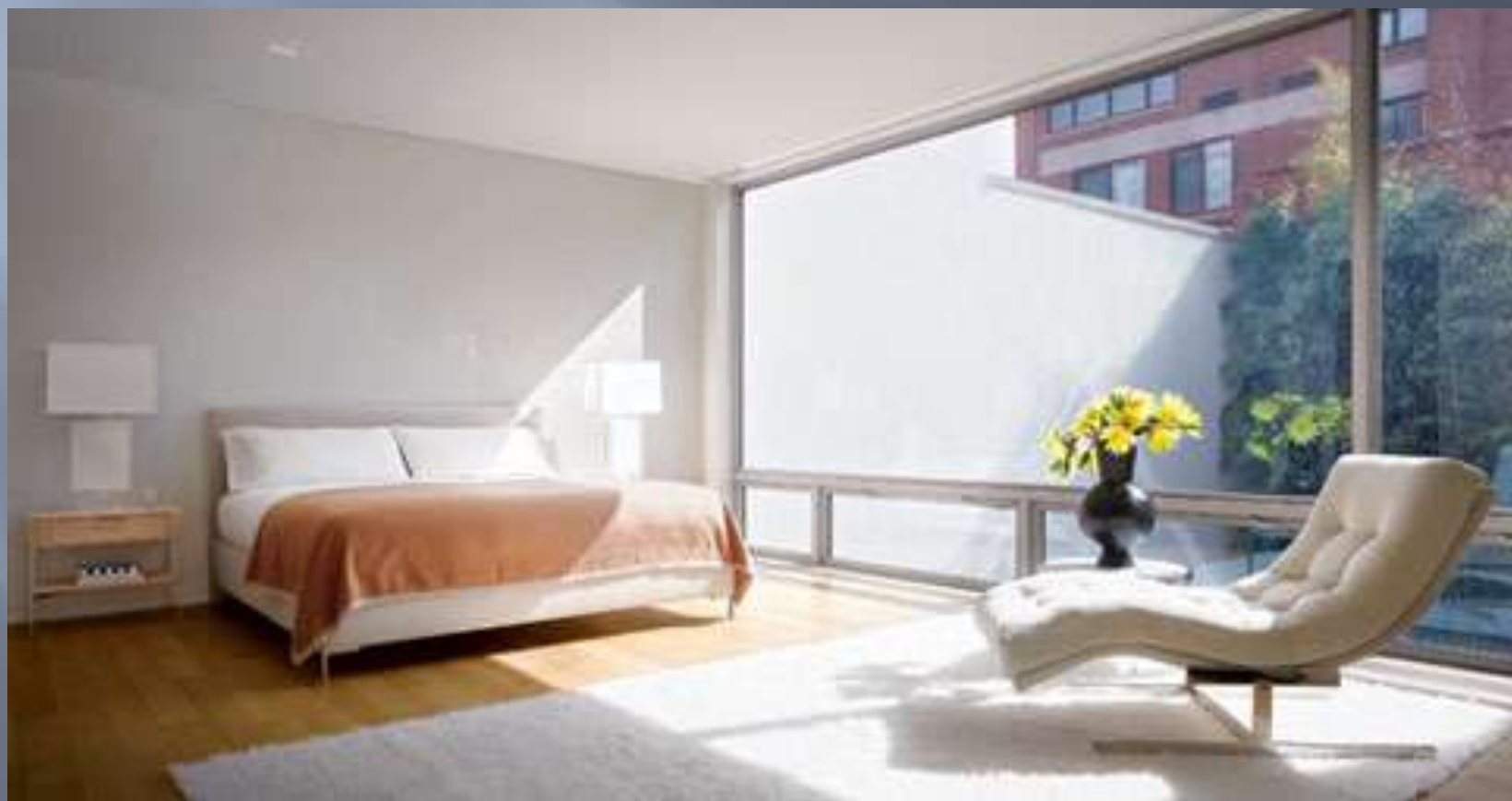
...yet independent



Light











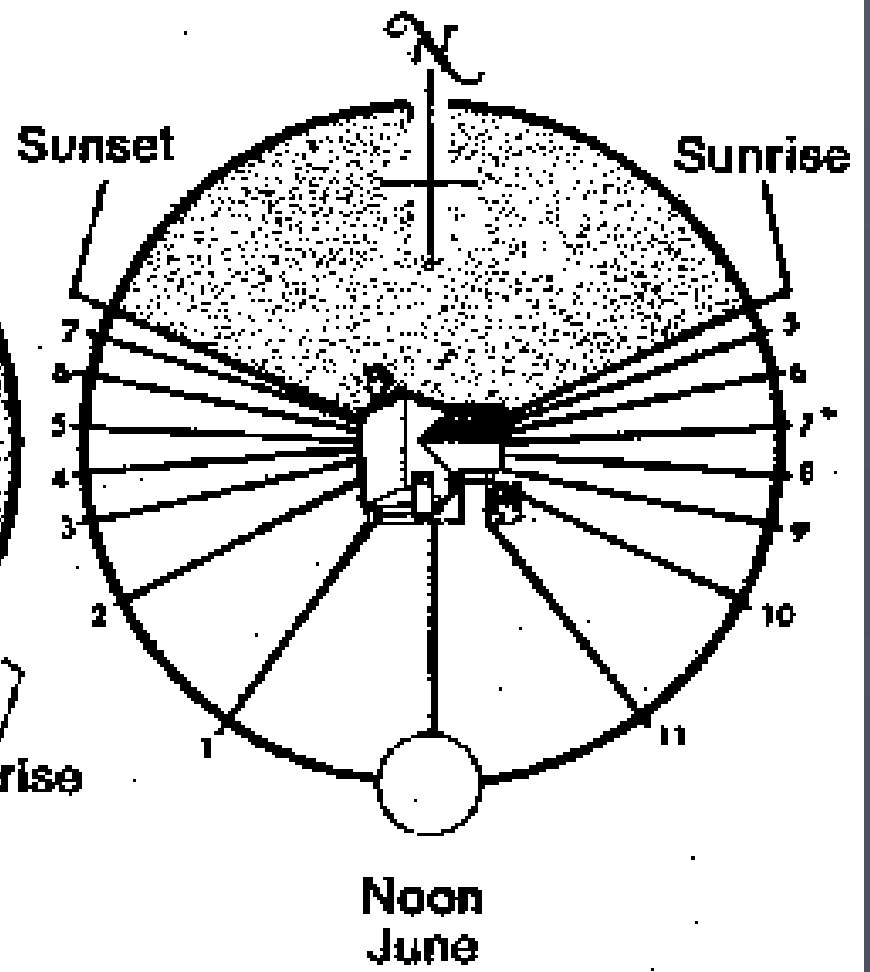
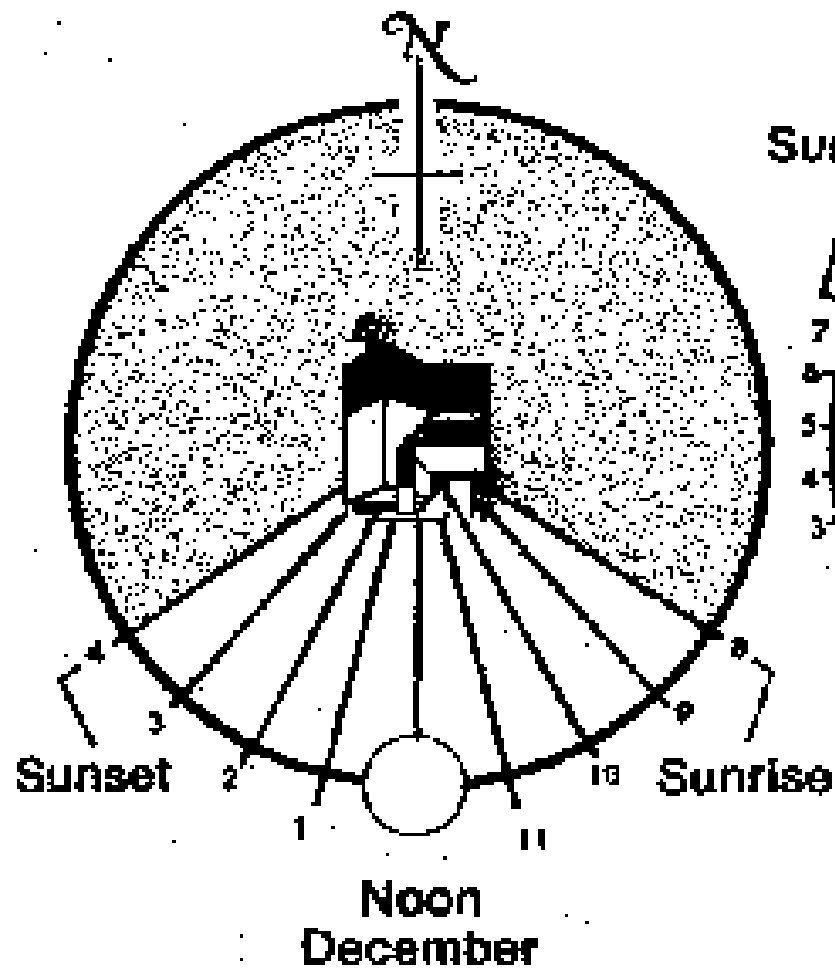
















HORIZON ALIGNMENTS TO THE SEASONAL CYCLES

INTERIM SOLAR CALENDAR
CÉSAR CHÁVEZ PARK
BERKELEY, CALIFORNIA







Energy

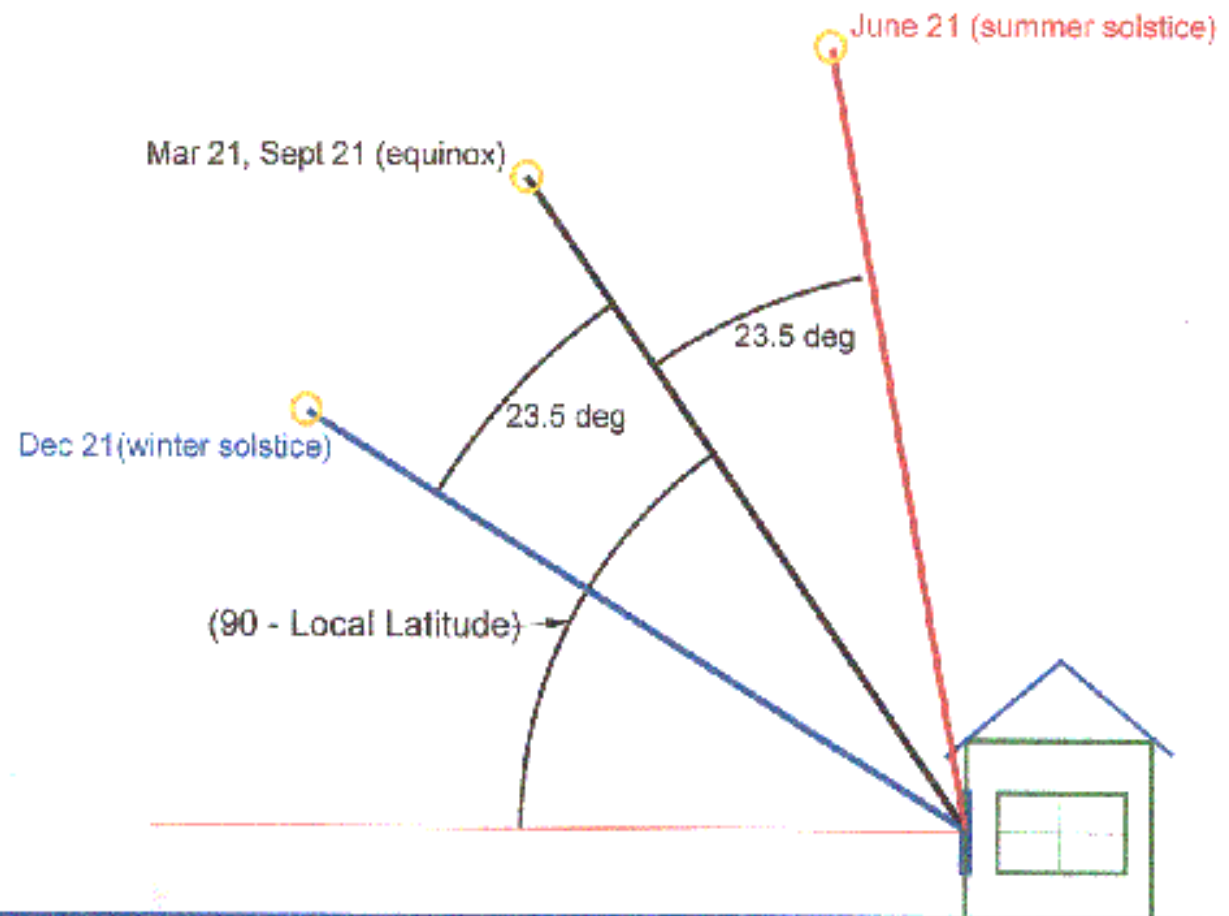








Solar Altitude

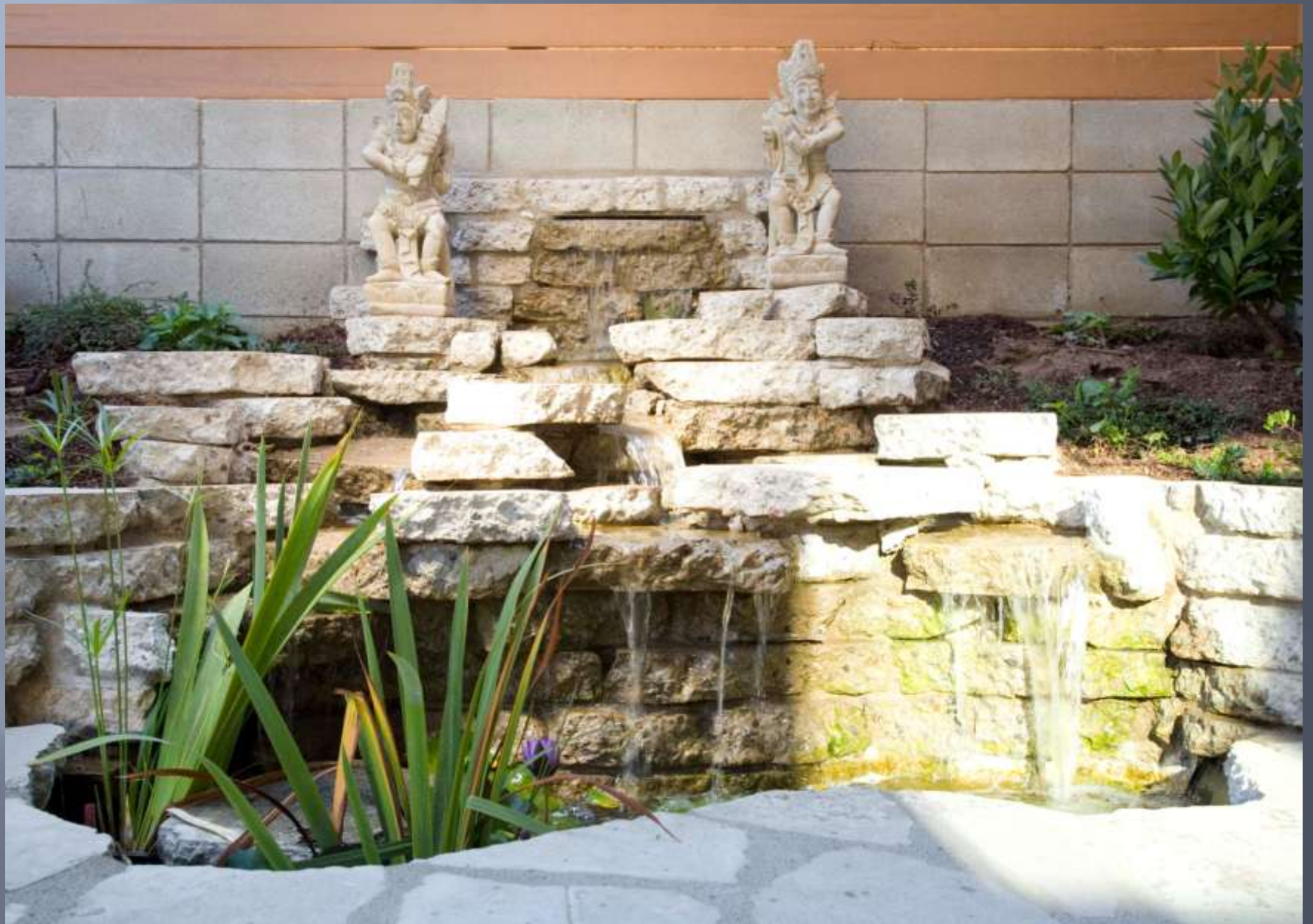






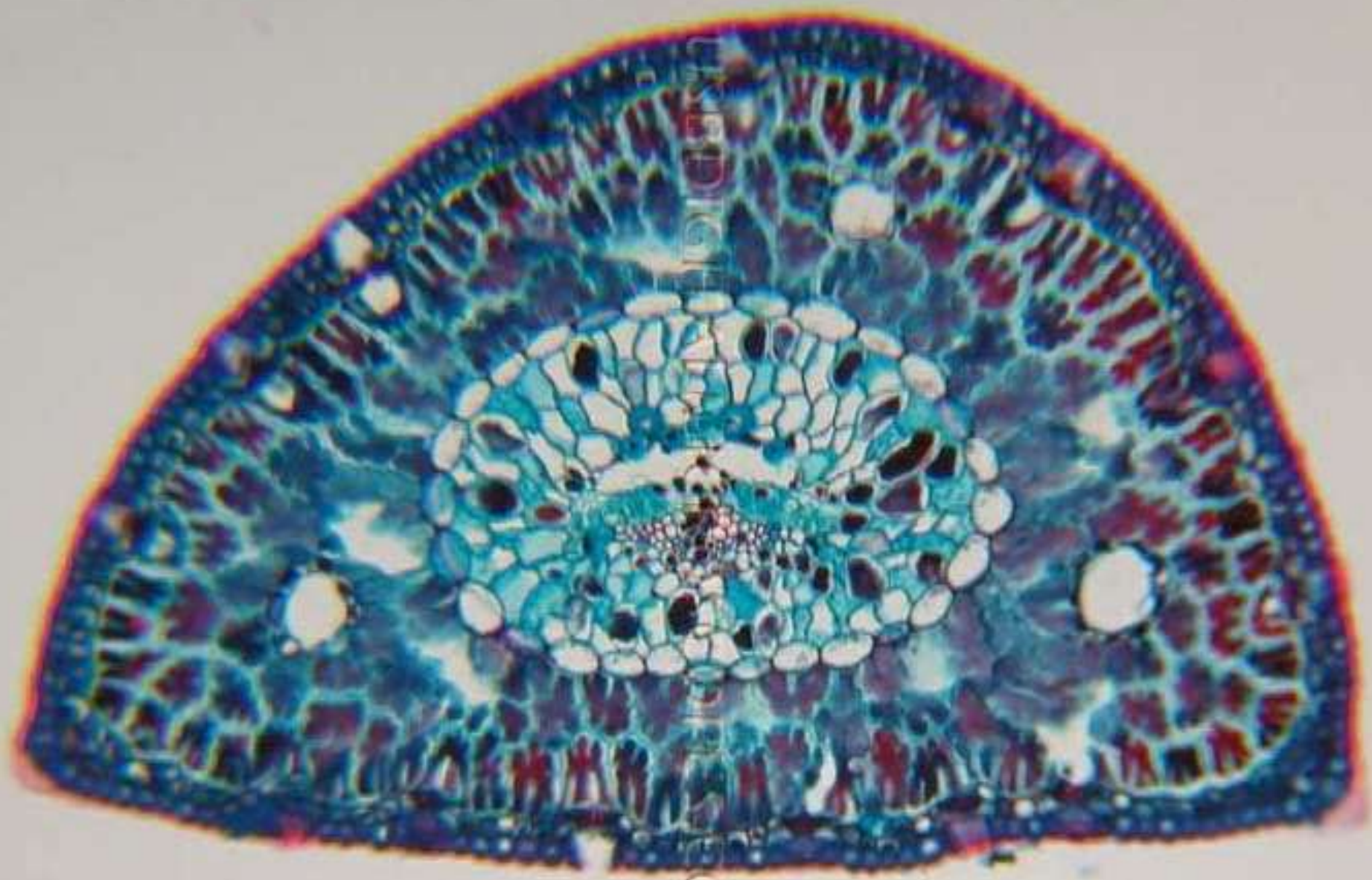
Water







+enlarge

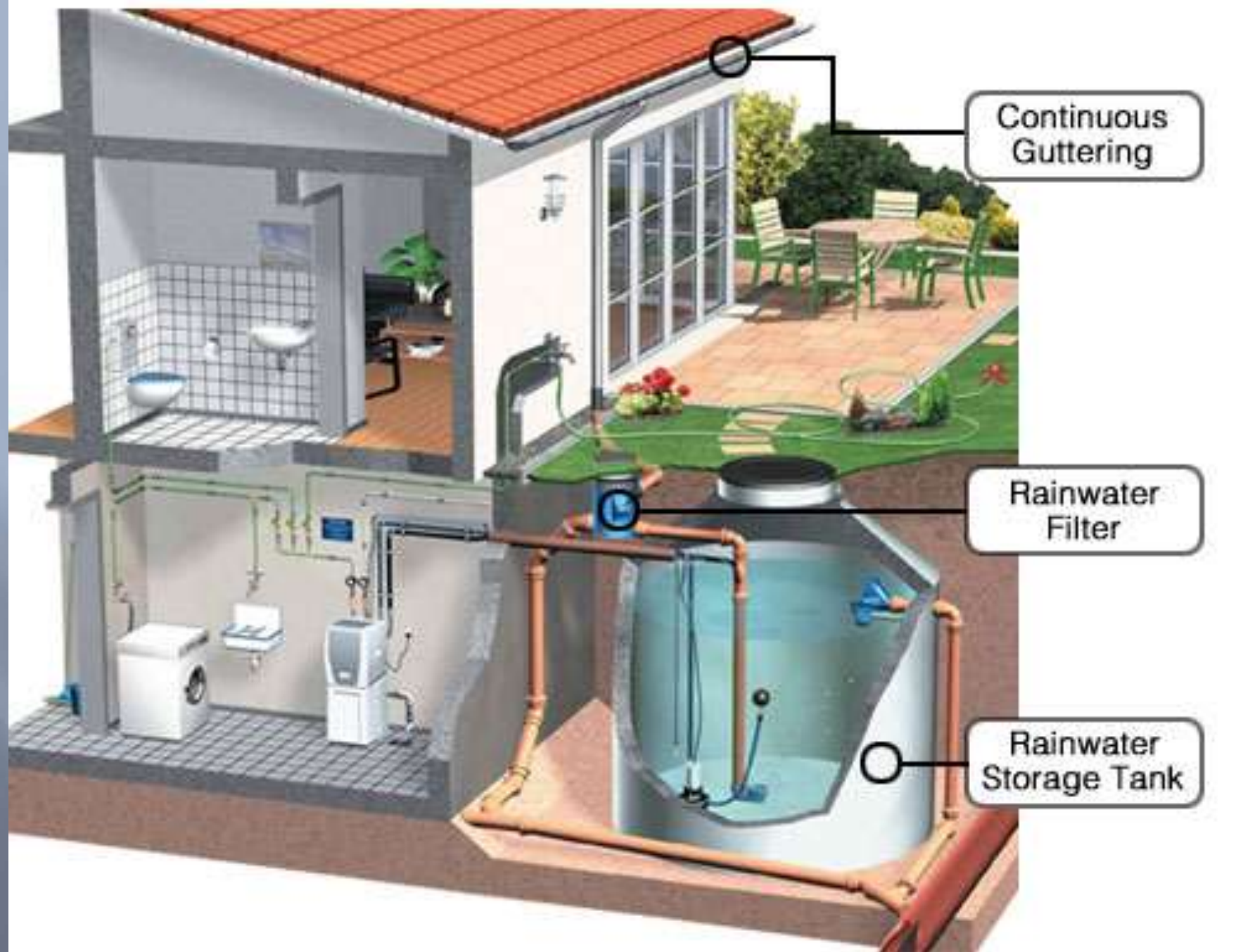


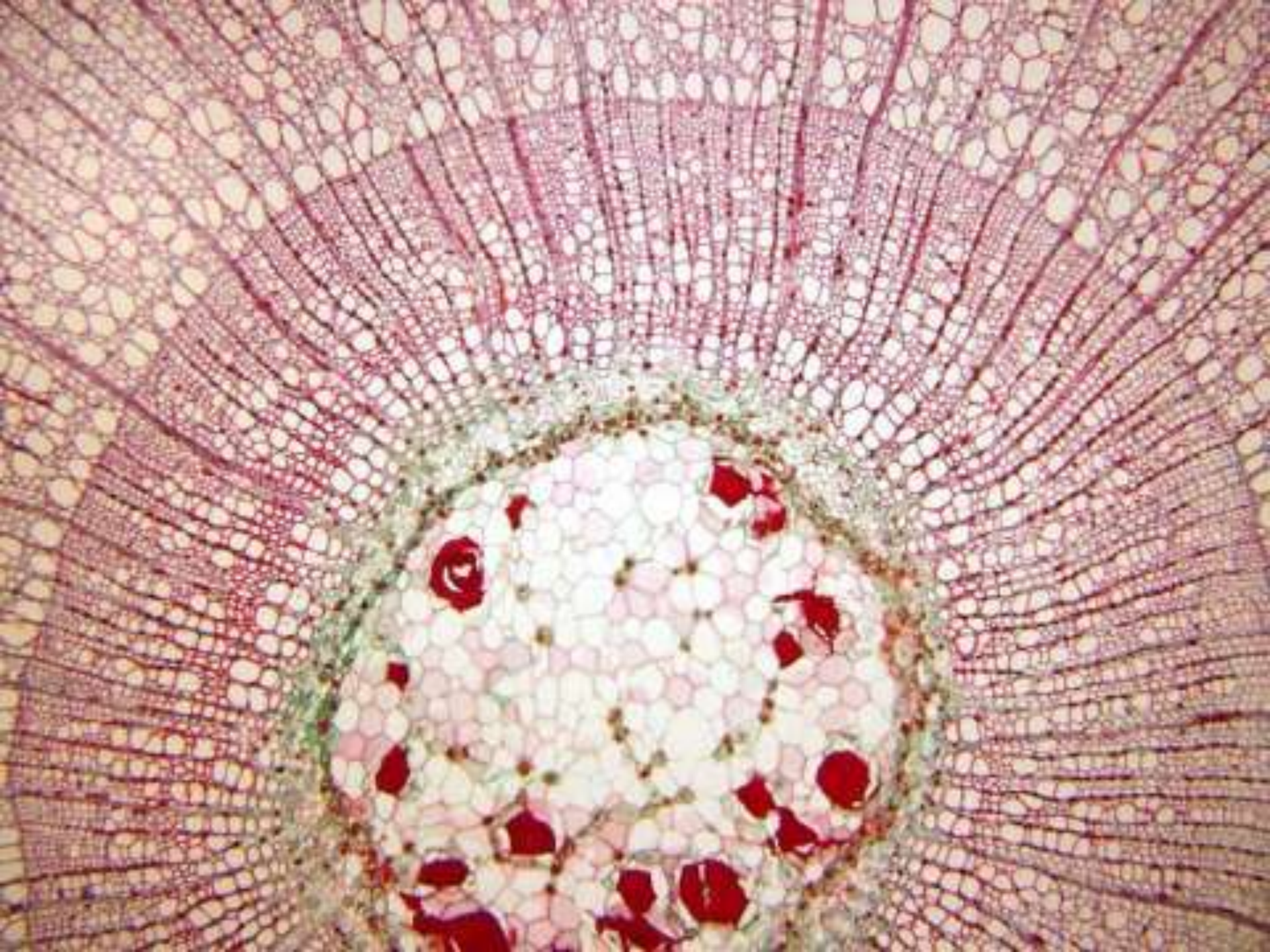












Protection







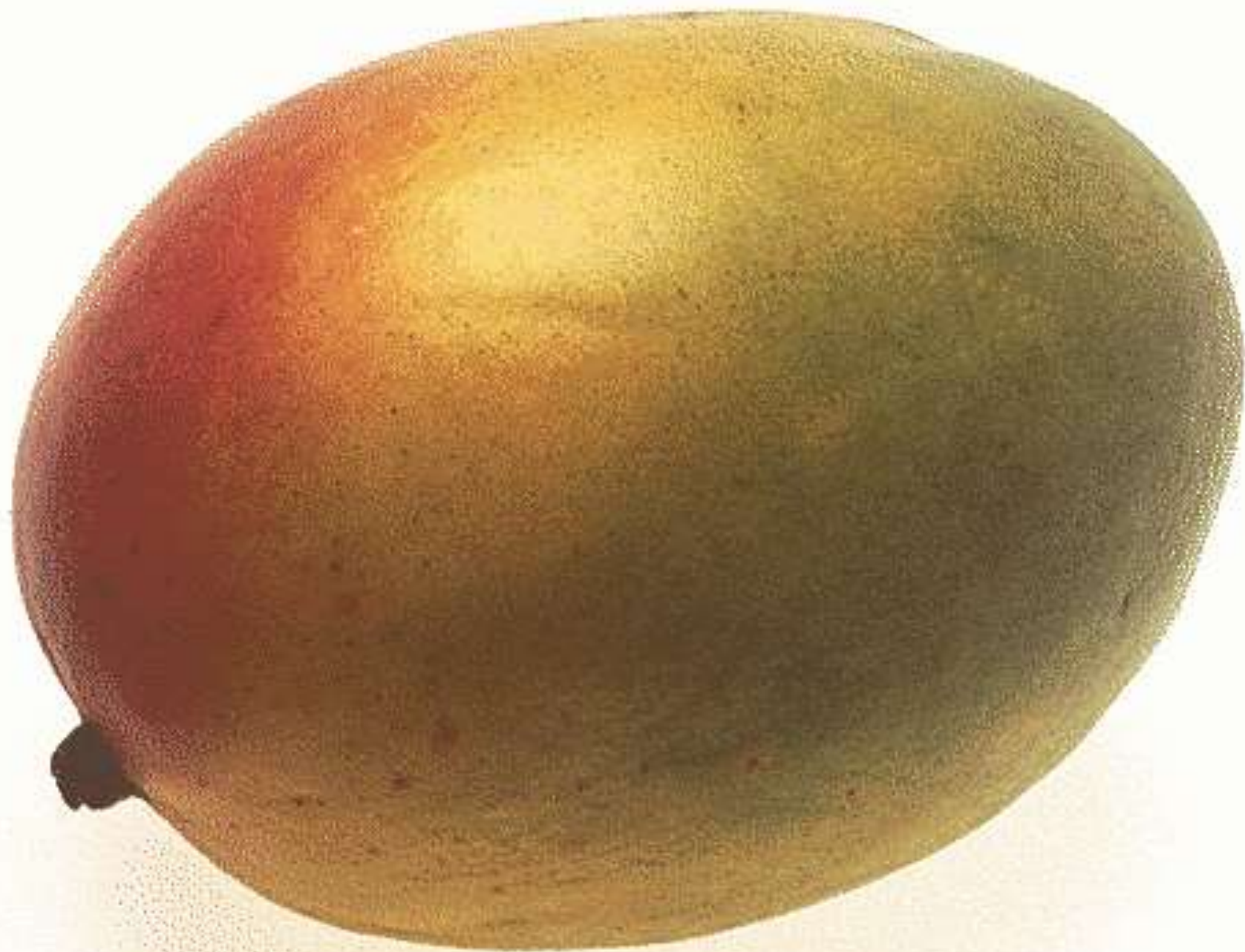




Fruit

















Roots







Balance













SENSE

...of self-sufficiency



SENSE

...of security



SENSE

...of beauty



SENSE

...of place



SENSE

...of abundance



SENSE

..of wonder



SENSE

...of hope





A 2020 Vision

Looking Forward Ten Years to a Sustainable Idaho



We now have a little bit of time for some questions...



A 2020 Vision

Looking Forward Ten Years to a Sustainable Idaho

We hope you found this look into our future inspiring
Set a Realistic Goal What can you do? Use Good Workers
and that you will join with us in working to make this vision become a reality.



Produced by GreenWorksIdaho.org



A 2020 Vision

Looking Forward Ten Years to a Sustainable Idaho

Set a Rate Payable by Employer for Card Workers



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