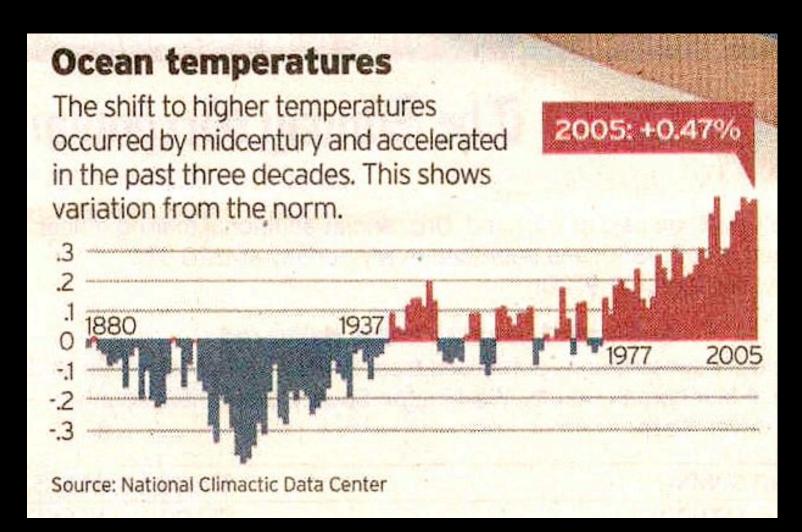
OREGON COAST Impacts of Global Warming



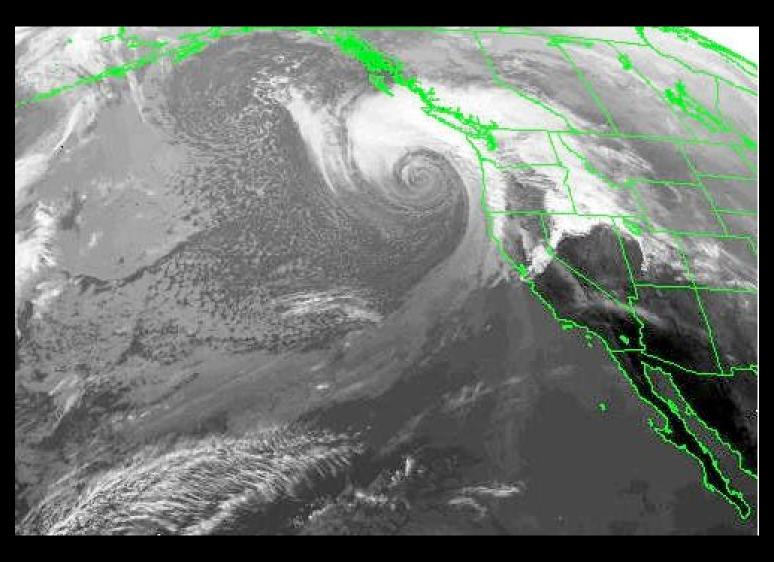
CLIMATE CHANGE IMPACTS ARE HAPPENING HERE NOW

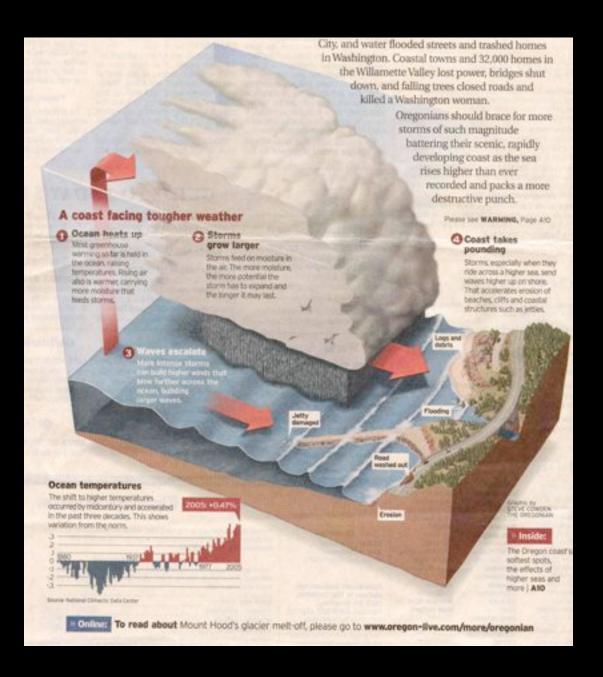


OCEAN TEMPERATURES ARE RISING



WARMER OCEANS GENERATE MORE POWERFUL STORMS





MORE POWERFUL STORMS

- * Higher winds
- * More intense rainfall
- * Higher waves
 - * More beach erosion

LOSING 15,000 ACRES OF FOREST IN ONE NIGHT FROM 159 MPH WINDS IS NOT BUSINESS AS USUAL.



WAVE HEIGHTS HAVE INCREASED 25% SINCE 1976.

Extremes have increased 33%



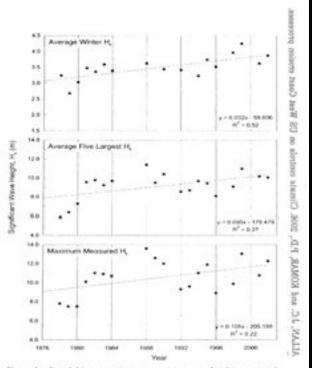
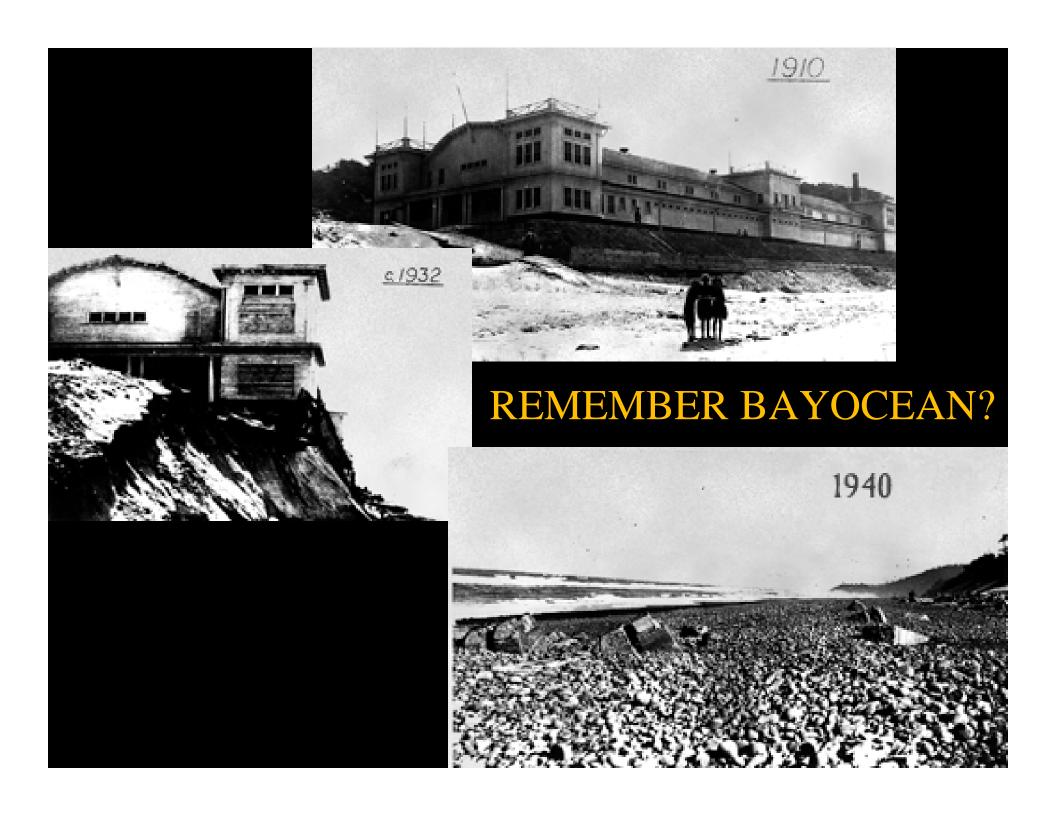


Figure 5. Decadal increases in average winter wave beights measured by the Washington buoy (#46005) and the more extreme storms represented by the fee largest and maximum significant wave heights measured each year. Results from the complete series of analysis are given in Table 3.

MORE POWERFUL STORMS CAUSE GREATER BEACH EROSION

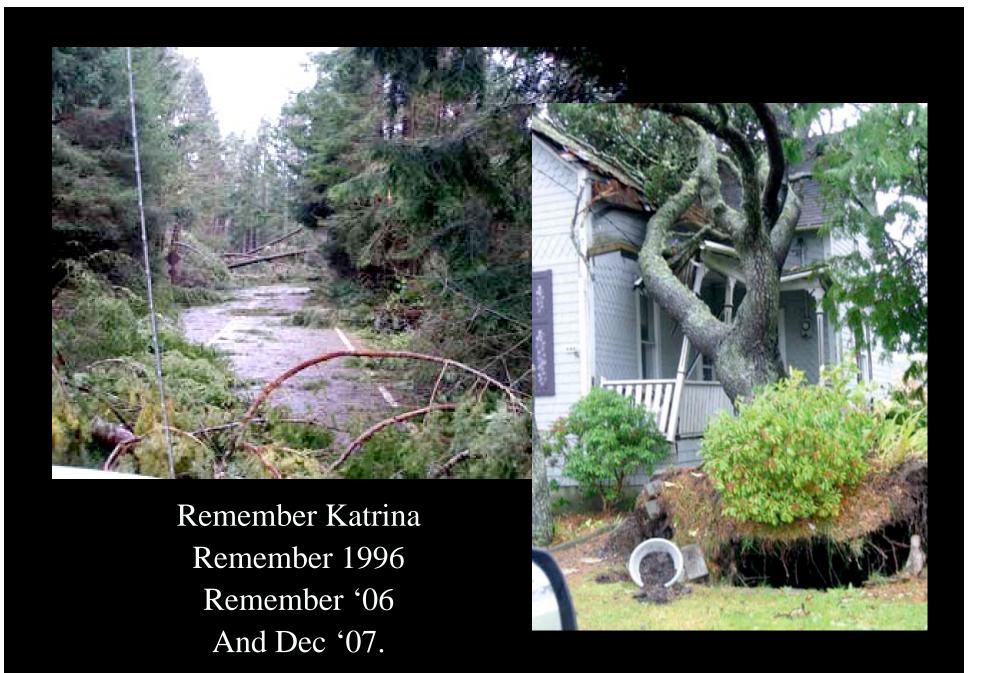




MORE POWERFUL STORMS

- More power outages
- More highway closures
- Business disruption
- School closures
- Floods





THE FLOOD OF '96 WAS BUT A SAMPLE



MORE INTENSE RAINS mean greater landslide impacts



LANDSLIDES CAN HAVE HUGE ECONOMIC IMPACTS



Brighton Beach lost 90% of its value from one landslide.

THE ENTIRE
OREGON
COAST
IS
LANDSLIDE
TERRAIN



OCEAN IMPACTS:

* Impacts on Shipping and Fishing

* Expanded Dead Zones



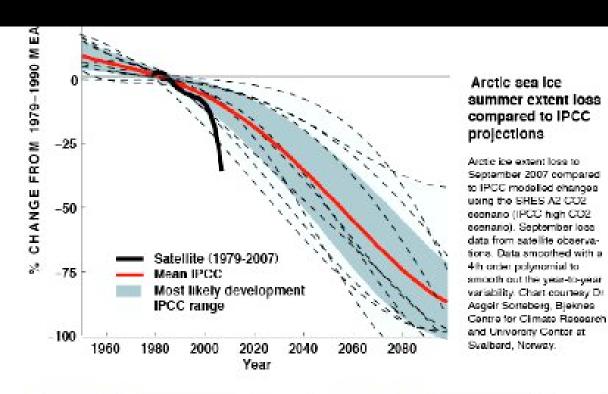
FORESTRY IMPACTS: Changed rainfall patterns, disease resistance, fire frequency

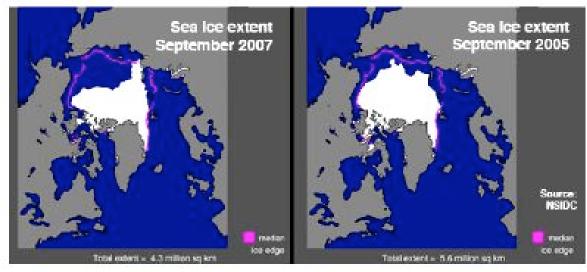


SEA LEVEL RISE can be 47' - up to +60' MSL

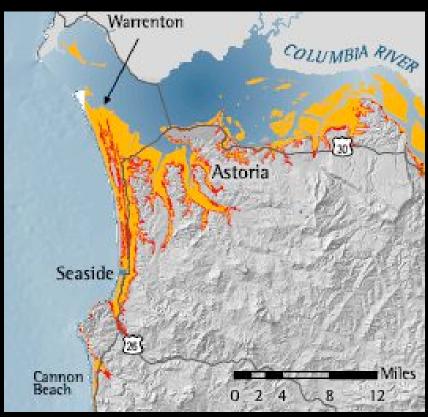


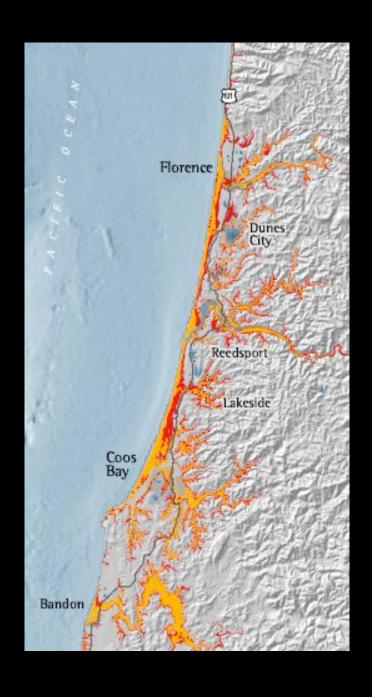
Changes
are
happening
way faster
than
projected.



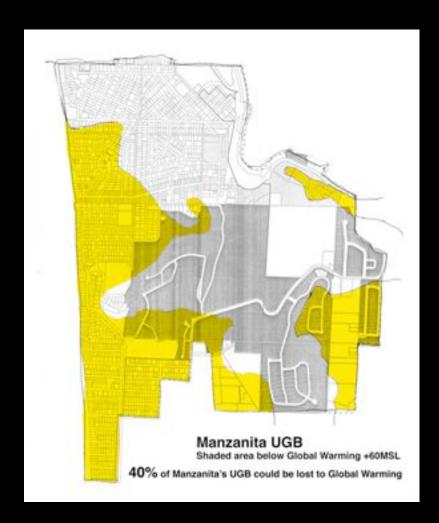


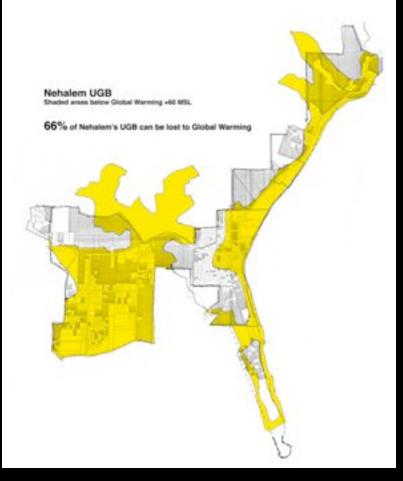
AFFECTED OREGON COAST AREA: 379,000 acres



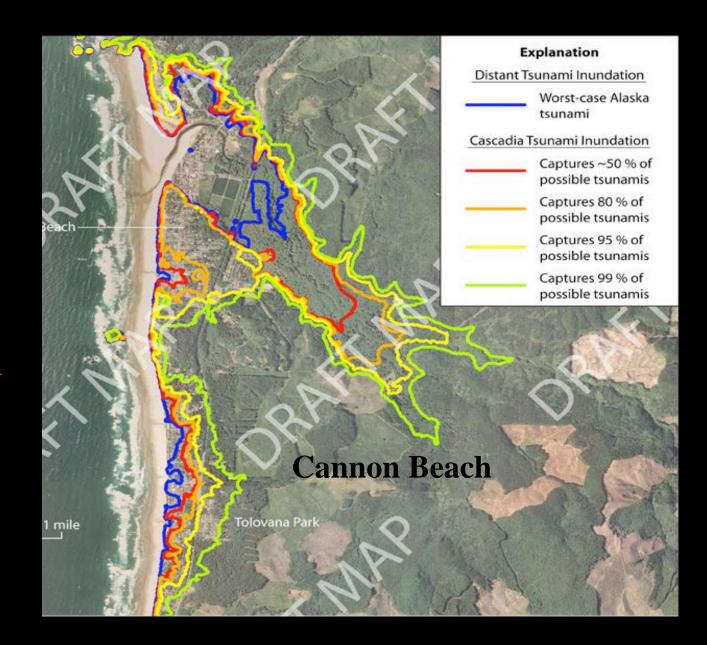


HUGE AREAS OF OUR CITIES will be inundated





New tsunami inundation maps show similar inundation heights - but will be added to sea level rise impacts, along with shoreline regression.



ESTIMATED INUNDATION OF CITIES:



Astoria 10% Warrenton 100% Seaside 90% Cannon Beach 80% Manzanita 40% Nehalem 66% Wheeler 55% Rockaway 80% Bay City 40% Tillamook 100%

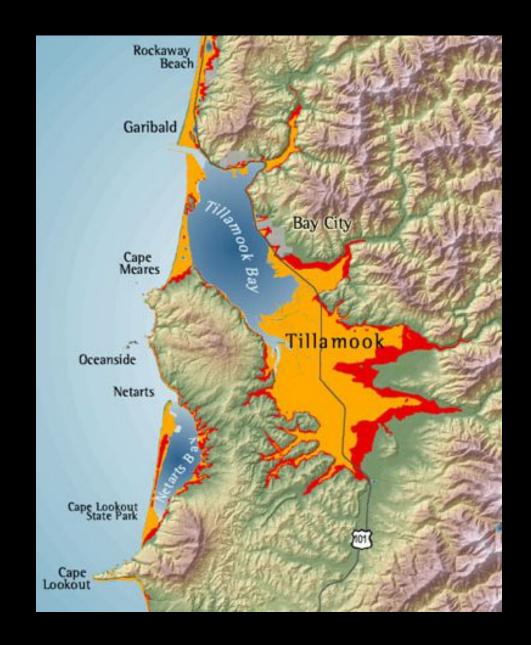
VALUE OF HOMES DESTROYED - \$16 billion



FAMILY LIVLIHOODS LOST:

\$700
million/year
including

most coastal agricultural land



ONE-THIRD OF THE ENTIRE COAST HIGHWAY COULD BE INUNDATED.

MILES OF HWY 101 AFFECTED:

122 miles

Cost of replacing Hwy 101:

\$700 million

Miles of major roads affected:

570 miles

Miles of minor roads affected:

2170 miles

ECONOMIC INFRASTRUCTURE LOST:

520 miles of railways



ECONOMIC INFRASTRUCTURE LOST: Utility Systems



Economic infrastructure lost: Sewage Treatment Plants



Economic Infrastructure Lost: State Parks



ECONOMIC INFRASTRUCTURE LOST:

- * Ports, jetties, harbor facilities
- * Beaches/tourism (\$5 billion/year)
 - * Virtually all transportation
 - * Virtually all utilities
 - * Majority of developed land



CULTURAL LOSS:

Homes, Cemeteries, Churches, History

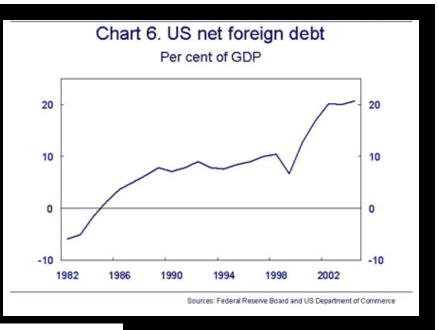


GLOBAL WARMING, PEAK OIL, AND FOREIGN DEBT ARE FLIP SIDES OF THE SAME THING



FOREIGN TRADE DEFICIT \$\$\$\$\$\$

THE HUGE U.S. FOREIGN DEBT INBALANCE IS TIED TO OUR DEPENDENCE ON FOREIGN OIL





"Technical Fixes" are NOT the answer.



THIS REQUIRES LEADERSHIP

THAT MEANS
ACTING NOW!

THIS IS OREGON



WE'VE
DONE IT
BEFORE,
WE CAN
DO IT...
AGAIN!

OREGON'S CURRENT PROPOSALS ARE OUTDATED, TOO SLOW, AND HAVE BEEN ECLIPSED BY THE RATE OF CHANGES.

- "CAP AND TRADE" HAS BEEN DISCREDITED AS AN EFFECTIVE GLOBAL WARMING TOOL.
- ETHANOL HAS BEEN SHOWN TO WORSEN GLOBAL WARMING.
 - ACTIONS ARE NEEDED THAT PEOPLE <u>SEE</u>, <u>FEEL</u>, AND <u>KNOW</u> ARE MAKING THINGS BETTER.
 - •WE NEED ACTIONS NOW, NOT IN 2010 OR 2020.

WE NEED SIGNIFICANT ACTIONS THAT WAKE PEOPLE UP TO THE URGENCY OF FAST RESPONSE AND MAJOR CHANGE.

THERE IS NOTHING WE CAN DO TO STOP GLOBAL WARMING - IF WE DON'T DO ANYTHING.

DECLARE DEVELOPMENT AND BUILDING MORATORIUMS

IN SEA-RISE IMPACTED AREAS - NOW!



The insurance industry has already stopped issuing new residential policies near the Atlantic, Gulf, and Oregon coasts.

BAN INCANDESCENT LIGHT BULBS - NOW!



Australia and Canada already have!

REQUIRE NET-ZERO-ENERGY HOME CONSTRUCTION - NOW!



Great Britain and France have already mandated net-zero-energy construction.

Portland OR is developing NZE" feebates" to implement NZE homes.

RAISE ENERGY-EFFICIENCY STANDARDS - NOW!





THE
"EFFICIENT"
FUTURE IS
ALSO ONE
THAT CAN
HAVE A SOUL

We've already shown
we can create
world-class
efficient buildings
on the Coast.



IMPLEMENT GAS-GUZZLER FEEBATES - NOW!



Canada already has!

FUND EFFICIENT VEHICLES FOR WORKING PEOPLE
- NOT JUST THE RICH.

TAX FOSSIL FUELS NOW!

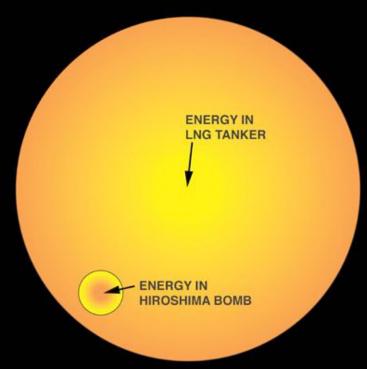
It's way more effective than CAFÉ Standards, and can be done locally.

Use the \$\$ to fund efficiency and renewables, and get us out of debt.



BAN USE OF FOSSIL FUELS





FOR NEW ELECTRICAL GENERATION

75-80% of the energy in LNG is lost in transport and conversion to electricity.

TAX HYDRO-ELECTRICITY

MAKE EXISTING USE MORE EFFICIENT NOW!



REVISE THE STATE FORESTRY ACT

LONGER ROTATIONS = BETTER ECONOMICS + CARBON SEQUESTERING



IMPROVE RECYCLING AND MATERIAL ENERGY USE - NOW!



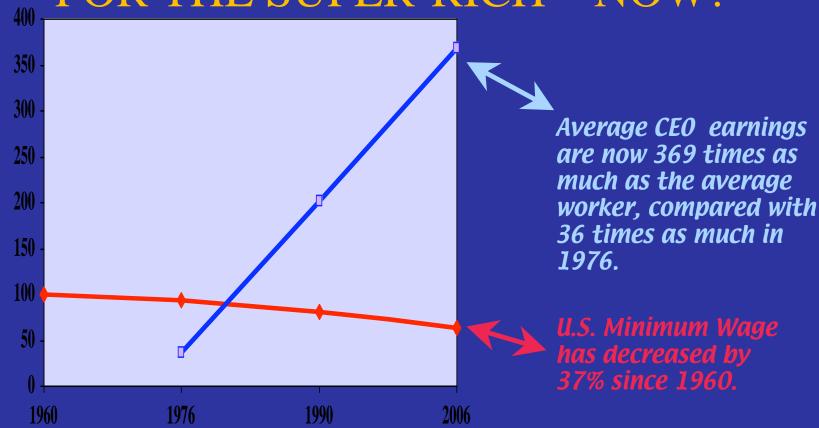
EAT LOCAL FOOD - NOW!



BAN BILLBOARDS, BUY LESS - NOW!



REQUIRE LIVING WAGES, AND ELIMINATE TAXE LOOPHOLES FOR THE SUPER-RICH – NOW!



Skyrocketing income disparity is destroying our communities. Reasonable equity is the foundation of democracy.

OPEN OUR HEARTS - NOW!

Compassion is the heart of true sustainability, and the antidote to terrorism

