

WHATIF...



Sustainable cotton guidelines for farmers



Joins UN-backed sustainability initiatives



75% of packaging recyclable, compostable



25% CO2 reduction across value chain



App ranks materials' sustainability



Saves \$1M in six months in GHG emissions

ALL DURING JULY 2013

THREE ERAS

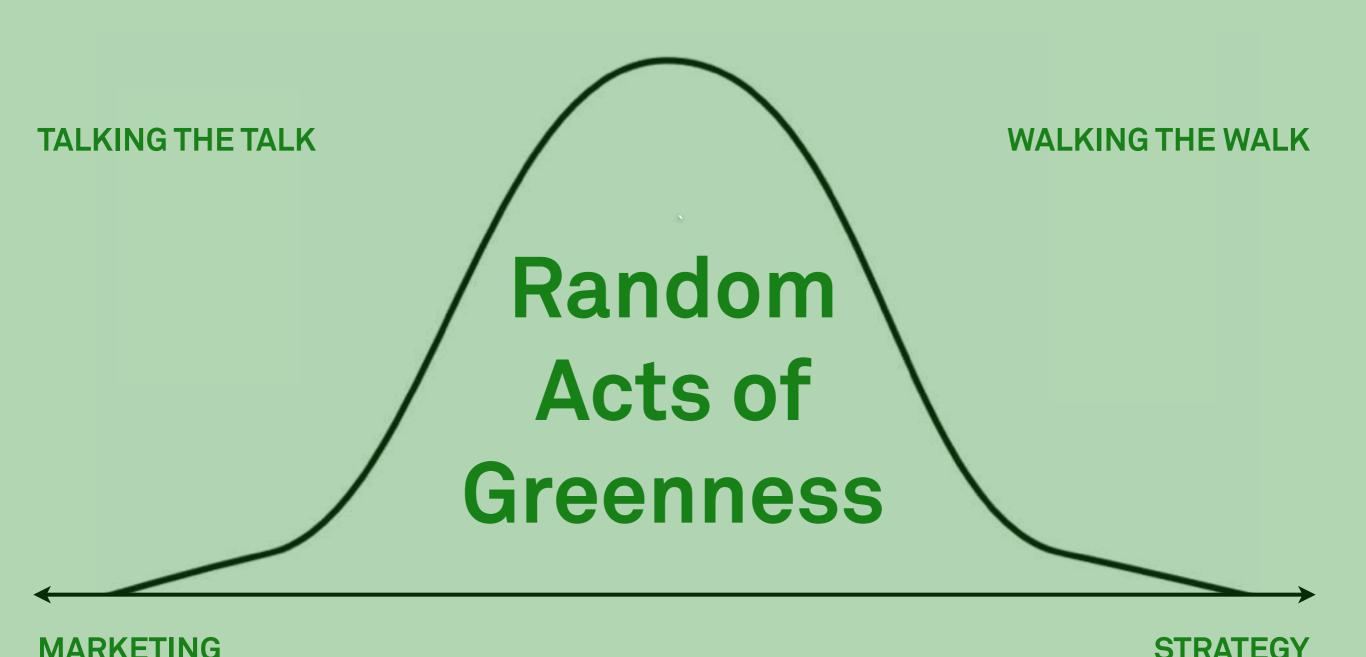
Doing No Harm Doing Well by Doing Good

Creating Value



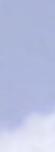


What's Our Sustainability Strategy?















Travel



Buildings



Water



Reporting

Foodservice















Toxics



Waste



Processes 1010101 0070700. Info Tech











"The Business Case"

- ✓ Increased sales
- ✓ Decreased costs
- New products and markets
- ✓ Improved quality
- ✓ Ability to attract and retain talent
- ✓ Preferred supplier
- ✓ Brand value and reputation







Financial

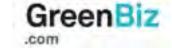
Brand

Supply Chain

Regulatory

Right to Operate























CO.



past two quarters

due to price volatility of

key commodities























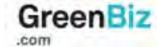




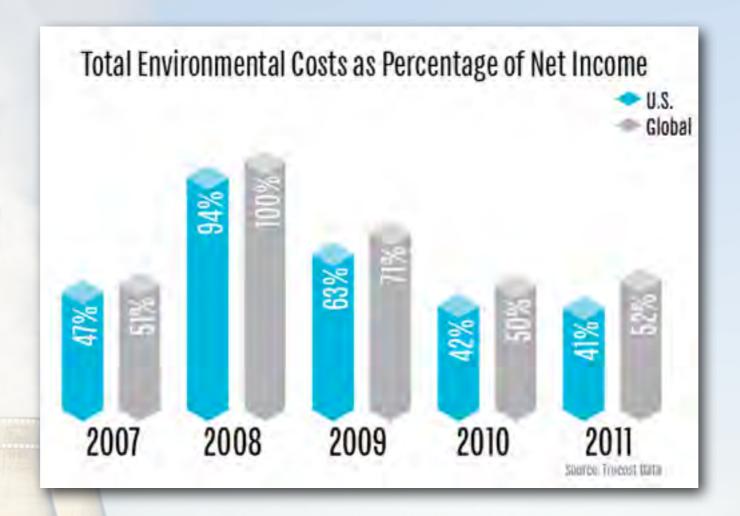








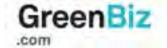




If companies had to pay the full cost of their environmental impacts, it would cut profits

40-50%





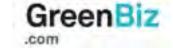
Natural capital costs are significant



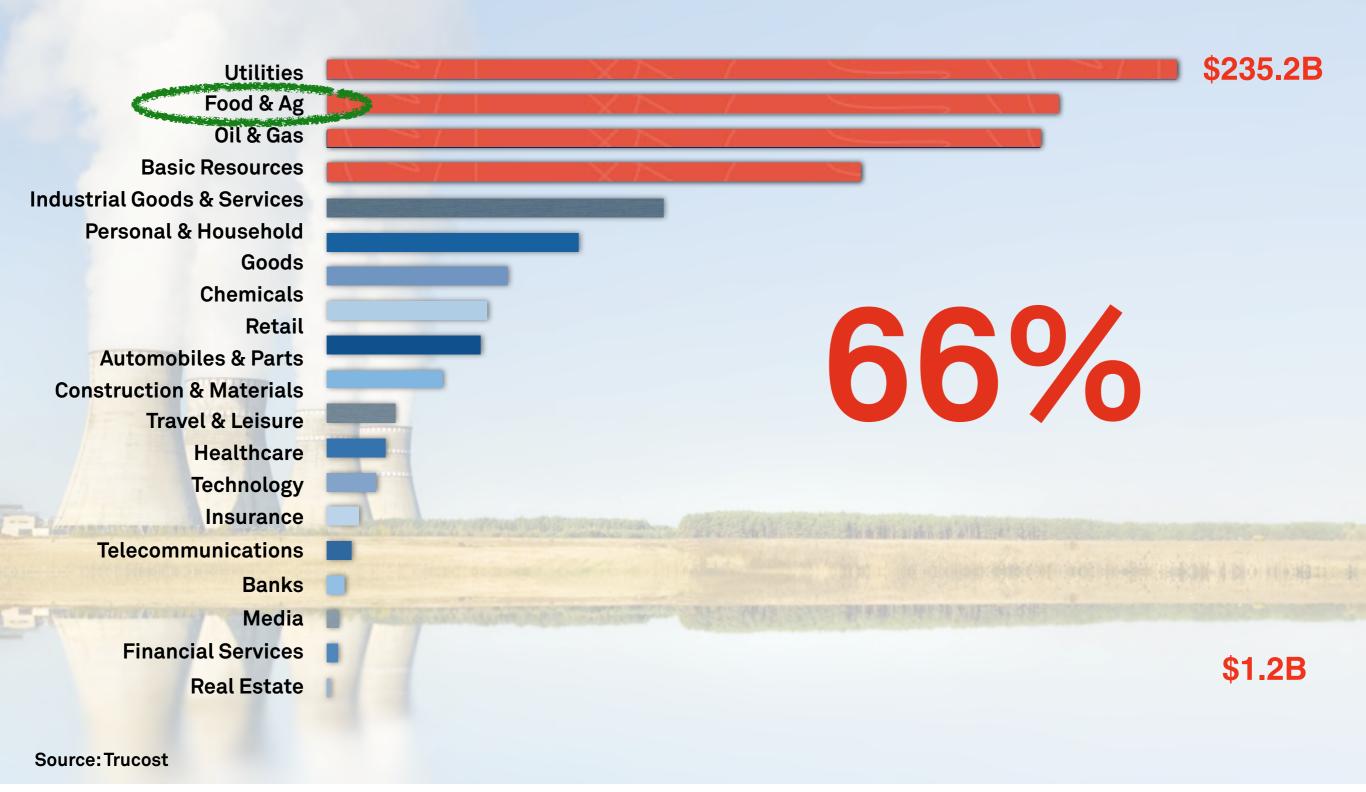
- ~\$7.3 trillion per year in environmental and social costs
- lost ecosystem services
- pollution
- related health costs

Source: Trucost

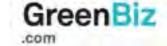




Upstream impacts are huge

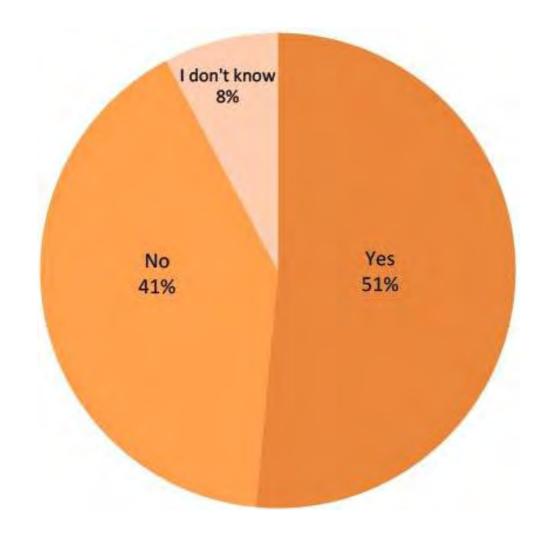






Companies are paying attention...

Do you anticipate your company's core business objectives to be affected by natural resource shortages in the next three to five years?

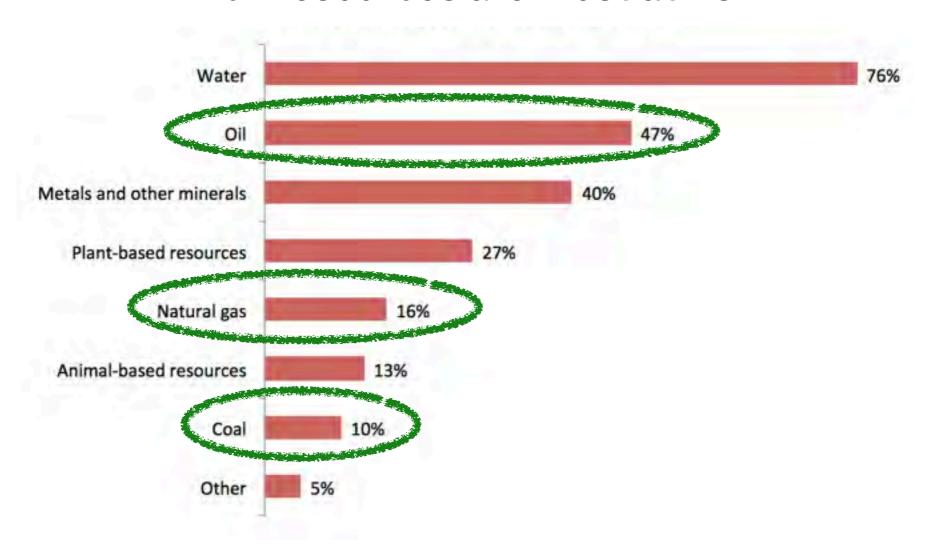


GreenBiz Group and Ernst & Young, 2013



Companies are paying attention...

Which resources are most at risk?



GreenBiz Group and Ernst & Young, 2013



Sustainable Living Plan



- Sourcing 100% of agricultural raw materials sustainably by 2015, including 100% sustainable palm oil.
- Change hygiene habits of 1 billion people to help reduce diarrhea, the second-biggest cause of infant mortality.
- Make drinking water safer in developing countries by extending sales of its Pureit home water purifier.
- Improve standards of living for 500,000 small farmers and distributors to the Unilever supply chain.



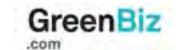


Value of Ecosystems



- \$10 million, 5-year partnership with The Nature Conservancy to "develop tools and demonstrate models for valuing nature in business decisions."
- Working in Bogotá, São Paolo, Quito with bottling plants, hydro facilities, water utilities to help them understand the value of the water: what it would cost to install their own reservoir or filtration plant if they didn't have the quantity and quality they're currently getting.



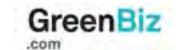


EarthSmart



- Hedging uncertainties about the future of fuels and related carbon impacts
- Partners with OEMs and NGOs to develop more fuel-efficient engines, drivetrains, and technologies
- Large, diverse alt-fuel vehicle fleets, from EVs to fuel cells to biofuels





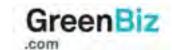
Green Marketing?

























DSM











HALLIBURTON

























































STRESS NEXUS

FOOD

ENERGY

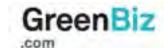
WATER











BY 2030...

FOOD

ENERGY

WATER







...40% more



...30% more

STRESS NEXUS

Food / Water

1,300 liters of water to create 1 kg of wheat

Food / Energy

~7 calories of fossil fuel for every 1 calorie of food in the U.S.

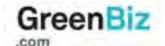
Water / Energy

Moving, heating, treating water is 13% of all energy use

Energy / Water

Power plant cooling uses 3% - 4% of all U.S. water consumption





'NEXUSTHINKING'



Food waste



Drip irrigation

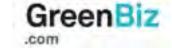


Renewable power

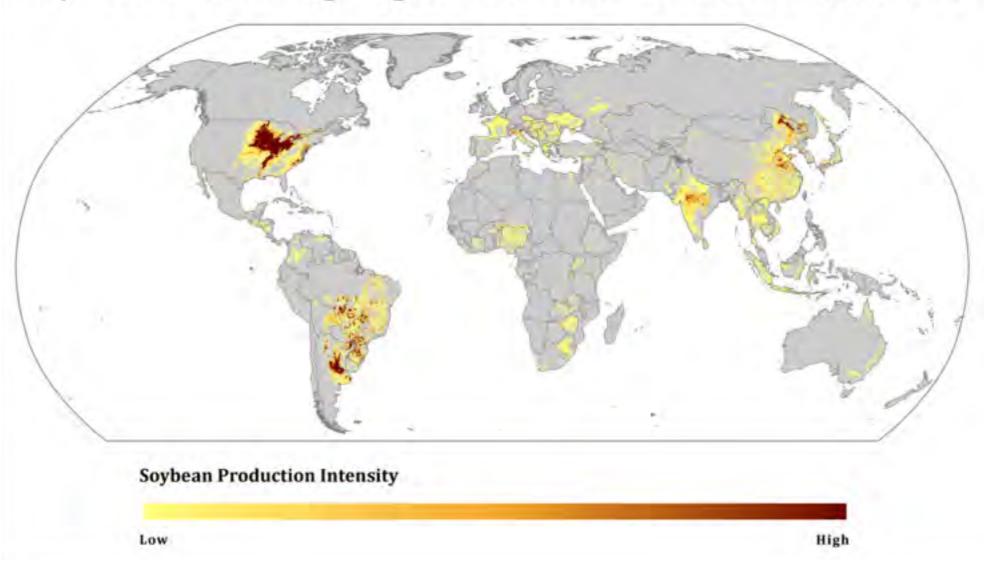


No-till ag

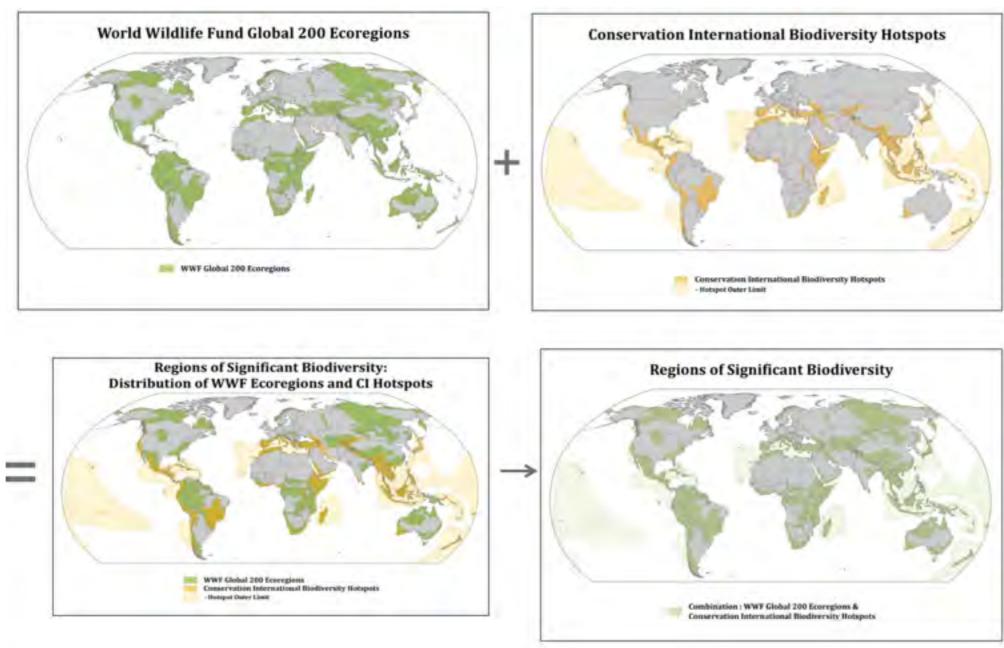




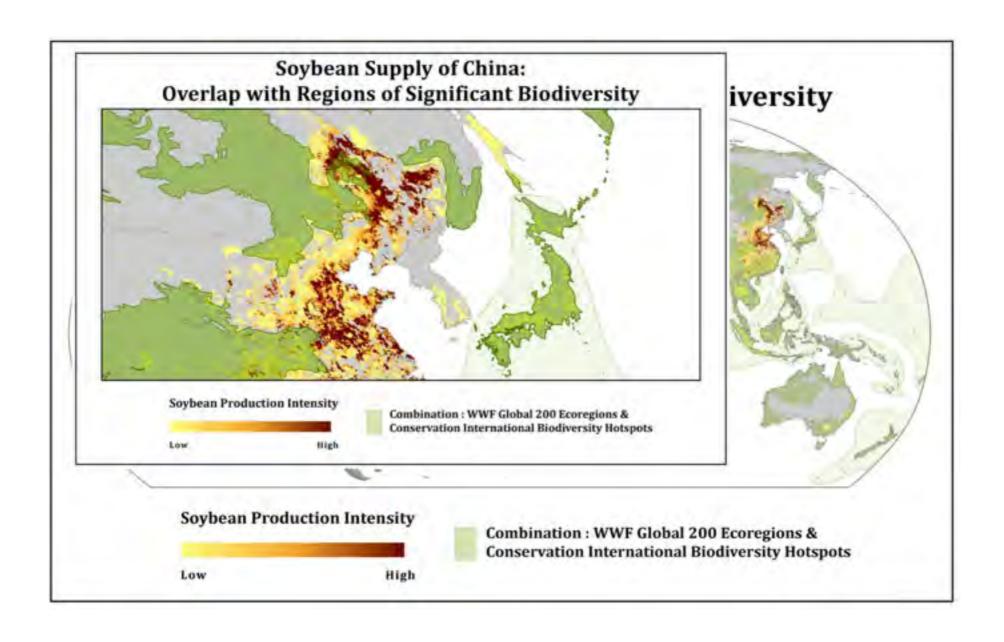
Soybean Producing Regions: Global Production Locations



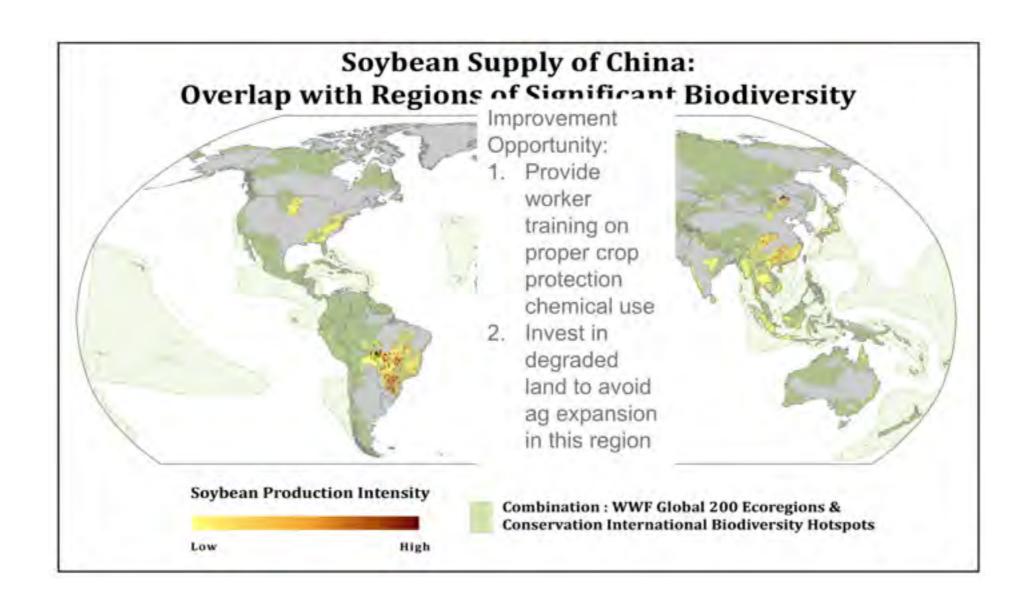




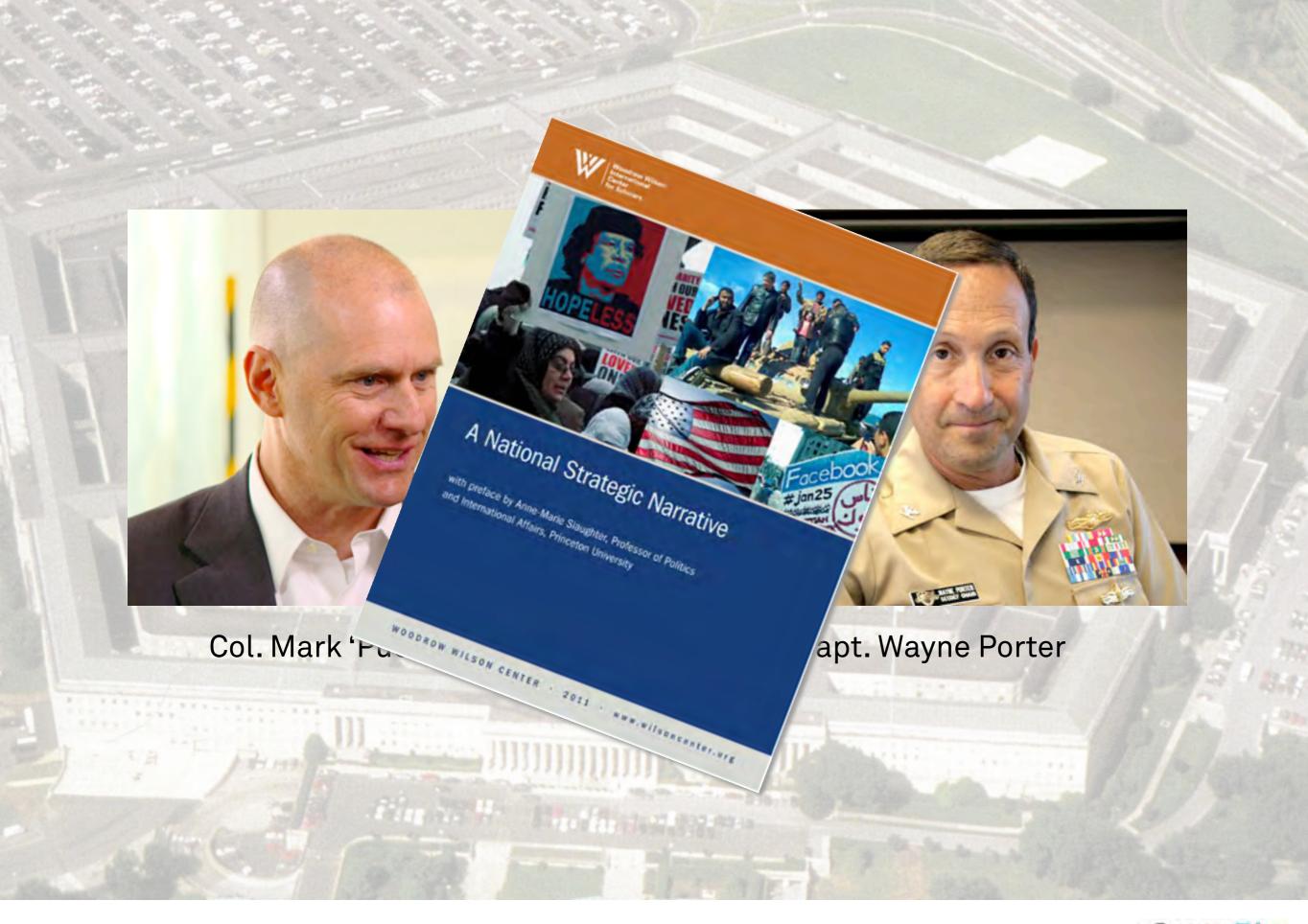




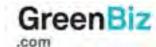












The alignment of:

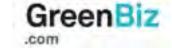
our economic engine,

our governing institutions, and

our foreign policy

to meet the global challenge of the era.





Walkable Communities

Regenerative Agriculture

Resource Productivity









- · U.S. economic house in order (prosperity, tax revenue)
- · U.S. interests aligned with major economies and partners
- Positive narrative of America's role; restored global credibility
- Greater citizen participation and trust in government
- Price signals reshaping global markets toward sustainability
- Reduced tensions over resources
- Ecological depletion slowed
- Reduced vulnerability to geopolitical disruption



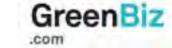


Walkable Communities



- Store location and design
- Transportation and logistics
- Product selection
- Local sourcing





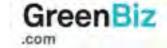
A New U.S. Grand Strategy

Regenerative Agriculture



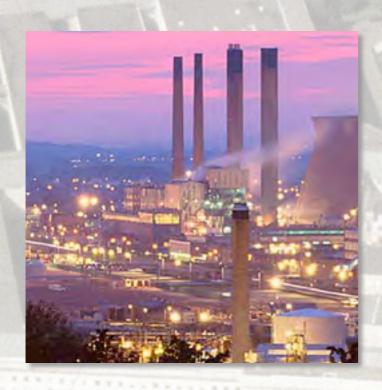
- Supply chain
- Transparency
- Local procurement
- Customer expectations





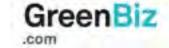
A New U.S. Grand Strategy

Resource Productivity



- Material selection
- Innovation
- Life-cycle thinking
- Closing the loop





CONVERGENCE

SUSTAINABLE BUSINESS

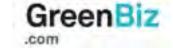
CLEAN TECHNOLOGY

New
Strategies
Policies
Practices

New Technologies Companies Markets







ENERGY

Smart grid • Distried generation

Distributed b ry storage

Zero-carbon ene • Smart meters

Demand respectively like the second respective second respectively.
 Intelligent olar and wind systems
 Dynamic pricing
 Vehicle charging stations



Broadband for buildings and vehicles • GPS • real-time pricing Smar phone apps • Kempte sensing • Distributed computing power • vvice ess mest necepts Cloud computing • Broadband over power lines

CONVERGENCE

BUILDINGS

Networked per management • Zero on the buildings •

DC applie es • Ons energy

gener on nu sto je •

Building ems •

"Respuise struct s" •

Real-time gement

TRANSPORTATION

Personal electric minicars •

Collision avoidance • Micro reptals

• M

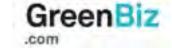
Net orked cle-to-rid

ba ruge e

avo Charging

Battery swapping • Telematics







BOSTON RENAISSANCE WATERFRONT

MAY 13-14, 2013

CONVERGENCE

in partnership with SUSTAINABLE ENERGY
WEEK 24-28 JUNE 2013

a VERGE® Event

PARIS

MICROSOFT FRANCE CONFERENCE CENTER JUNE 26-27, 2013

VERGE where tech meets sustainability

SÃO PAULO NOV 12-13, 2013

VERGE

SAN FRANCISCO PALACE HOTEL

where tech meets sustainability



Tracks

View Edit Revisions

Program

Special Programs

Registration

Speakers

FAQ

Travel

OCT 14-17, 2013



VERGE San Francisco

October 14, 2013 - October 17, 2013

VERGE San Francisco brings together innovators, entrepreneurs, and leading public officials to explore the opportunities for radical efficiencies created through technology advancements in energy, buildings and transportation.

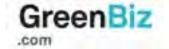
"VERGE is right where sustainability needs to go" Cindy Ortega | MGM Resorts

Early-Bird Rate expires Aug 30th Save over 20%!

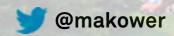
> Register Now!

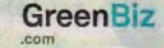






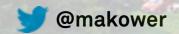
- 145 structures 15mm SF
- 100 megawatt peak demand
- \$70mm annual utility spend
- 30,000 pieces of mechanical equipment
- Spot-checked once/5 years
- · Pilot: 13 bldgs., 2.6mm SF
- 2mm connection points
- 500mm records/day
- Reduced energy cost >\$2mm
- Investment <10% of annual spend
- Existing technology, personnel

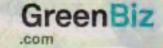




- Lighting/energy/HVAC
- Fire/safety
- Security/access
- Elevators
- Communications
- Weather service
- Transit service
- Traffic data
- Utility data

= PREDICTIVE BUILDINGS





"Things That Spin"

Alternators

CT Scanners

Power Turbines

Ball Mills

Dryer Fans

Propulsion Drives

Blowers

Evaporators

Reboilers

Centrifuges

Generators

Reciprocating Engines

Compressors

Jet Engines

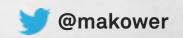
Rotary Vacuums

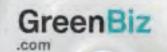
Crystalizers

Locomotives

Turbofans

more than 3 million <u>major</u> things that spin in global industrial asset base





The Power of 1%

43,000 jet engines
3 major rotating components

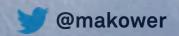
5.2 million barrels a day

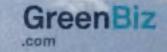
1.9 billion /year

Fuel: \$170B 1% improvement = \$1.7B

Capital expenditures: \$135B 1% reduction = \$1.3B

Engine maintenance: \$25B 1% reduction = \$250M





The Power of 1%

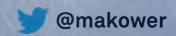
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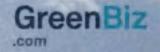
Capital expenditures: \$135B 1% reduction = \$1.3B

Engine maintenance: \$25B 1% reduction = \$250M

\$3.25B

Total global airline profits for 2012: \$4.1B





Carbon Savings from M2M by 2020



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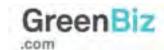
Energy: 2.0 Gt of CO₂e – smart meters and demand-response systems; improving efficiency of energy production and tra

"ICT could save over 9.1 Gt CO2e by 2020 as a result of efficiency gains in the world's key economic sectors."

> — Carbon War Room and AT&T: Machine to Machine Technologies: Unlocking the potential of a \$1 trillion Industry, 2013

Agriculture: 1.0 GL — reducing deforestation, managing livestock, and increasing the efficiency of planting, seeding, harvesting, fertilizer application and water use.



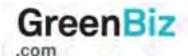


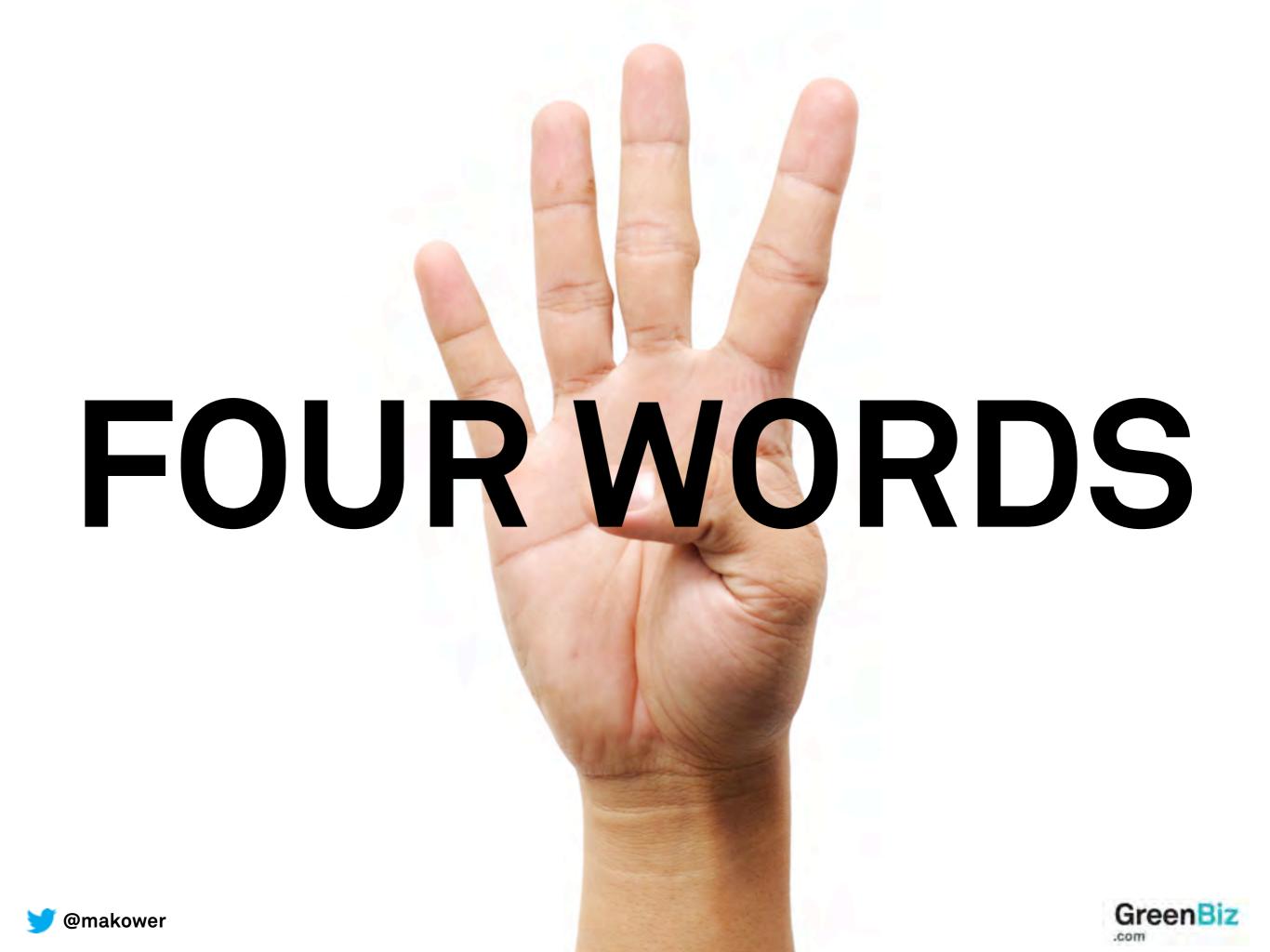
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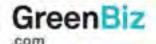
- Systems thinking
- **M** Radical efficiency
- **Innovation**
- Busting silos
- Improving lives
- Moving the needle











ke What Would It Take What Would It Take What Yould It TWhataWould it take hat Would It

- to harness sustainability for innovation?
- ... to think in systems, not components?
- ... to create innovative partnerships? That Would It less that would it Take What Would It Take What
- ou ... to achieve radical efficiency, profitably?
- ke What Would It Take What Would It Take What ... to align with customers' & communites' values?
- ... for sustainability to create business value?

ake What Would It Take What Would It Take Wha **Would It Take What Would It Take What Would It** ake What Would It Take What Would It Take Wha Would It Take What Would It Take What Would It ake What Would It Take What Would It Take What Would It Take What Would It Take What Would It ake What Would It Take What Would It Take Wha Would It Take What Would It Take What Would It ake What Would Diestion? Ould It Take What Would It Take What Would It Take What Would It ake What Would It Take What Would It Take Wha Would It Take What Would It Take What Would It ake What Would It Take What Would It Take Wha

What's the Story You Get to Tell If You Get Things Right?



