Sean Maloney

Executive Vice President Chief Sales and Marketing Officer



Intel Capital Cleantech Investments in 2008

Solar Energy Technology

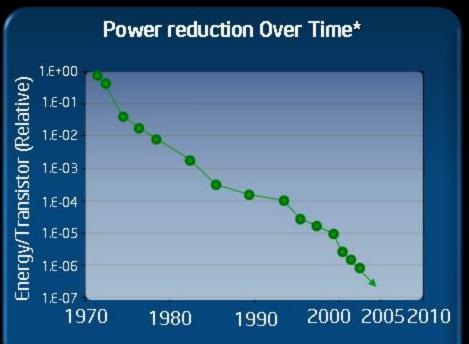
- SpectraWatt
- Sulfurcell
- Voltaix
- Trony Solar
- Smart Electricity Grid
 - Grid Net
 - Applied Green Light
- Advanced Energy Storage
 - Net Power Holdings
 - Cymbet

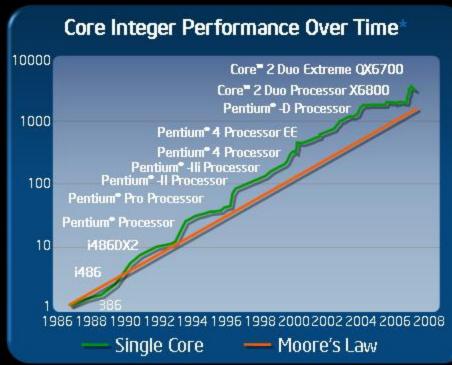






Power Reduction is Our Core Competence





~ 1 Million Factor Reduction In Energy per Transistor Over 30+ Years Delivering



An Unprecedented Challenge



Globale_Abkühlung

地球寒冷化

Raffreddamento globale

גלאבאלע אפקילונג

Enfriamento global

Global Cooling

Ilmaston viileneminen

Глобальное похолодание

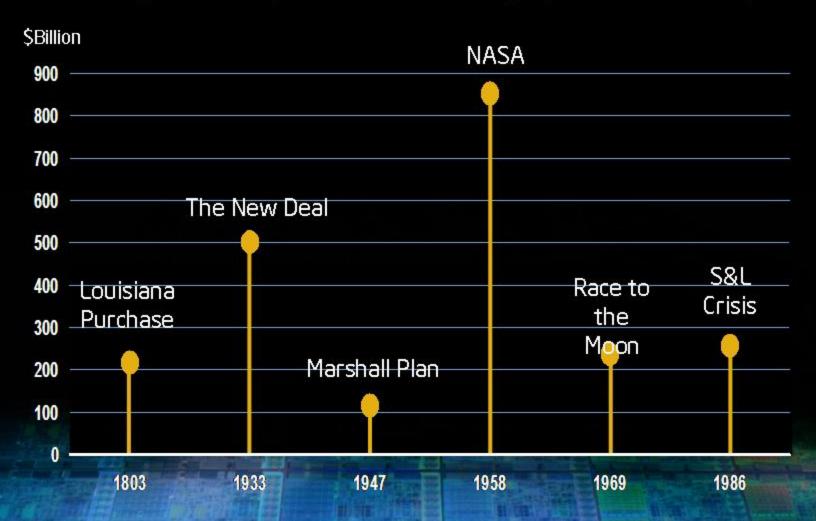
Global uppvärmning

全球寒冷化

Esfriamento global

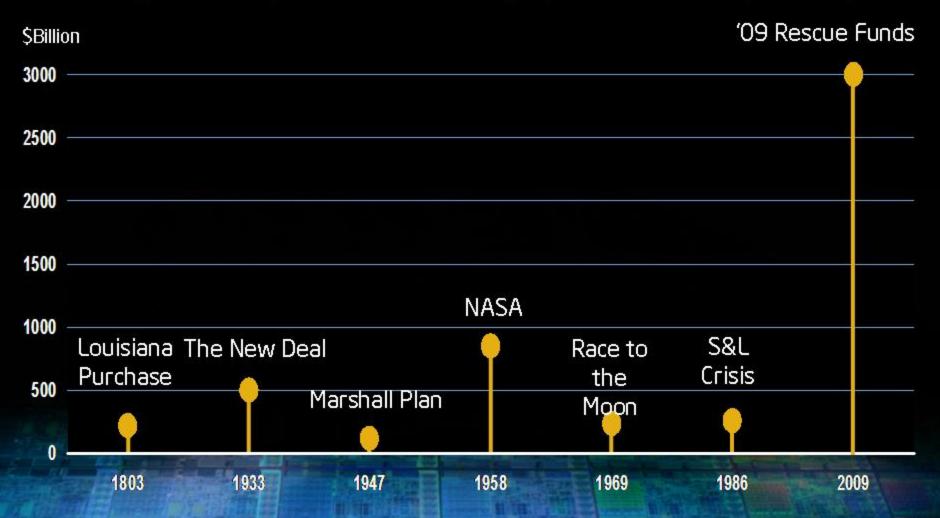


Government Spending Largest Projects In History (Inflation Adjusted)





Government Spending Largest Projects In History (Inflation Adjusted)





+



Spend Smart or Spend Dumb

Manufacturing



Construction



Transportation



Broadband



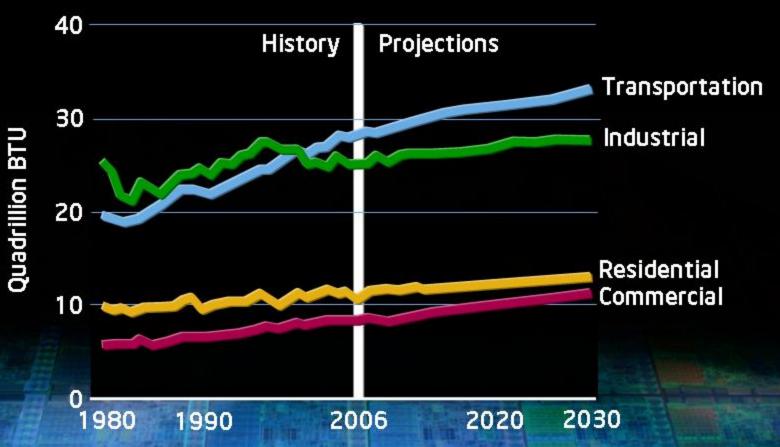
Energy





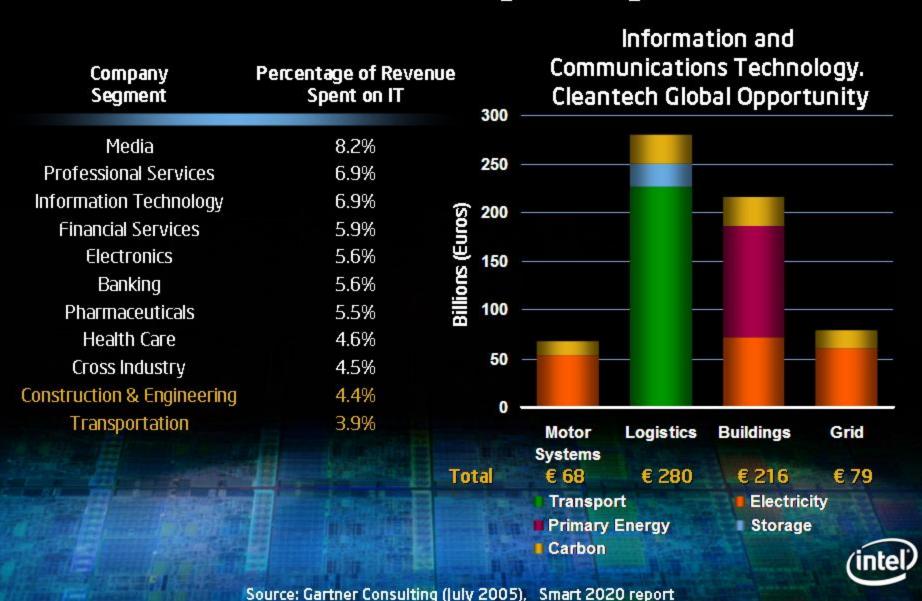
The Most Energy Intensive Sectors...

Delivered Energy Consumption by Sector





... Have Been the Least [Smart] IT-intensive



SMARTer Manufacturing: 3D Simulation Test and Refine the Product Before It's Real

Simulation



Analysis



Top performing manufacturers:

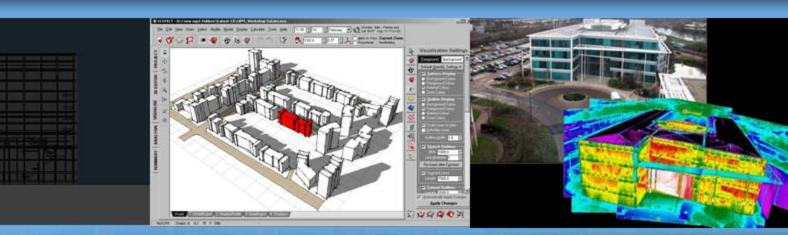
- Build ½ the number of physical prototypes
- Get product to market 58 days faster
- Have 48% lower prototyping costs

3D simulation a big untapped opportunity



Construction: 3D Simulation Building Information Management / Green

- US Buildings: 71% of total electricity consumption
 - Also 39% of energy consumption, 39% CO2 emissions, 36% of Greenhouse gases
- 3D is the big untapped opportunity





What is the world's largest annual movement of People.

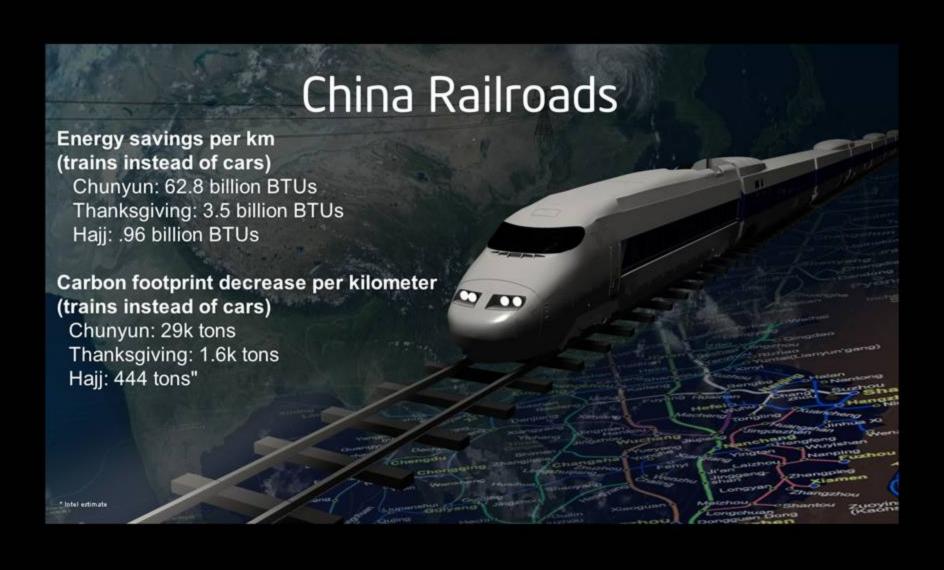




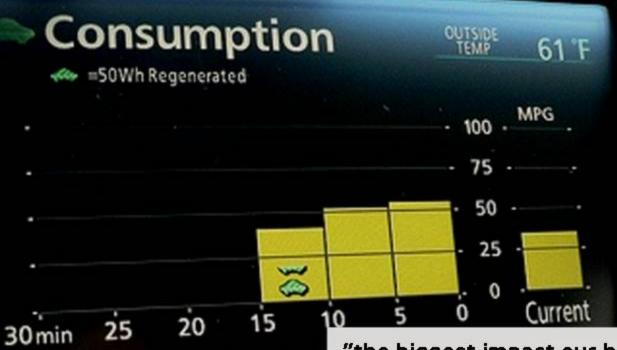








SMARTer Transportation: Consumer Empowerment



"If the EPA would mandate [fuel consumption displays] in every car, this country [USA] would save 20 percent on fuel overnight...."

Wayne Gerdes

"the biggest impact our having a Prius with its MPG feedback has had is to make our son a pretty careful driver. When I was a teenage driver, my focus was acceleration, his is efficiency."

Next Steps On SMARTer Transportation

- All relevant technology already exists
- In-vehicle technology has been extensively tested
- Communications equipment is available from many equipment suppliers
- The communication capability is waiting for government initiatives

Government Action On Regulation Required, It Needs to be a Priority



SMARTer Connectivity: Broadband

21st Century Infrastructure for Everyone

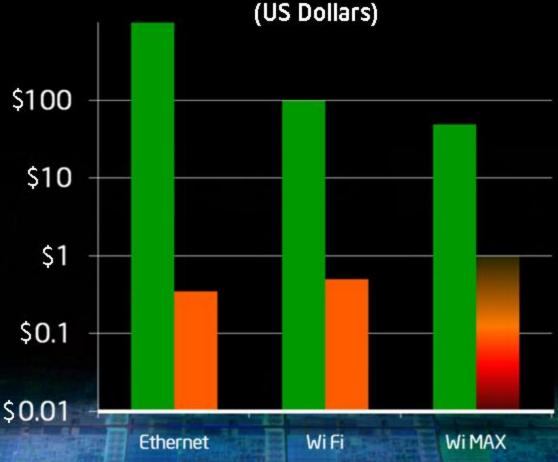
7% increment (US) → \$134B in Economic impact
2.35 million jobs created/saved
3.2 billion lbs of CO₂ / year

400 Million have it. 4B need it



Driving Down Cost and Crossing the Digital Divide

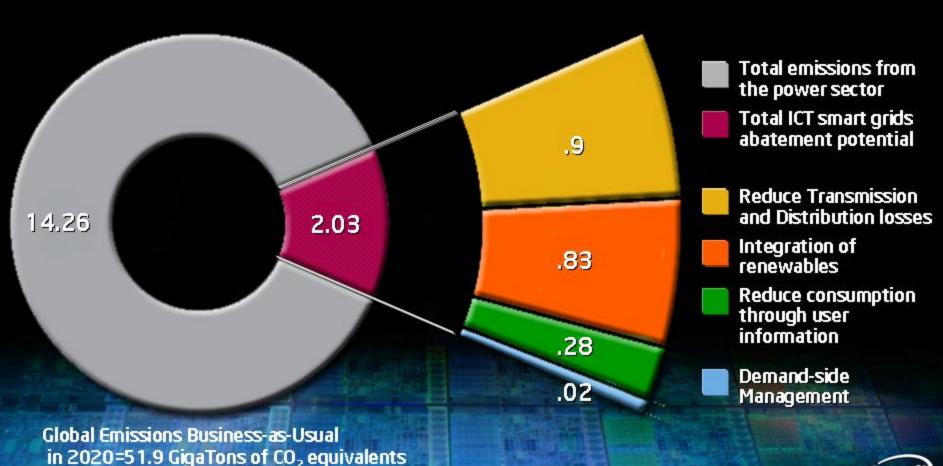
Incremental Cost At Introduction and Now (US Dollars)





What About Smart Energy?

Potential for Information & Communication Technologies to Reduce Carbon Emissions Through SMARTgrid





SMARTer Grids: The Role of ICT

Standardize, Monitor & Account

Rethink

Transform



Money Alone Will Not Solve the Problem... It Will Require Effective National Policy Leadership



Apply Best Practices for Enabling Competition & Innovation

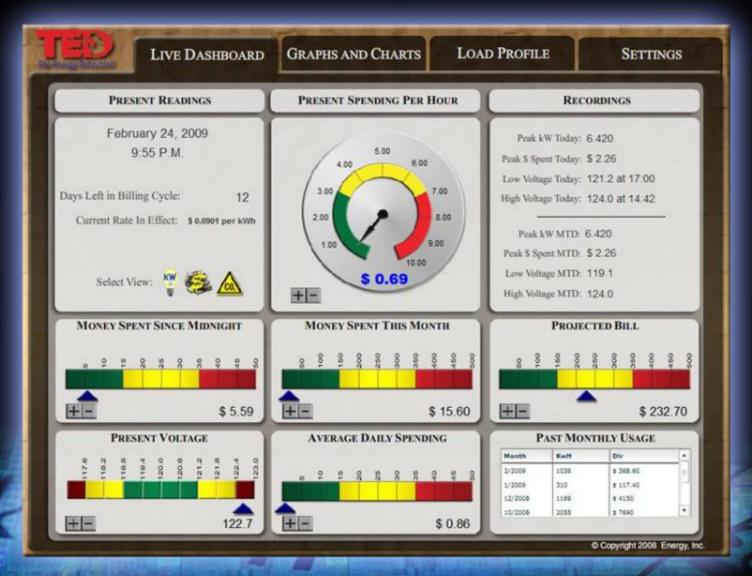
Open Interfaces & Defined Protocols

Examples:

Building Energy Measurement & Management Meter Communication Renewable Integration Modeling



Consumer Empowerment





Going Forward: Monitoring From TV





Intel is a Leader In Renewable Energy

Intel receives Green Power Leadership Award from EPA:



- Largest corporate purchaser of renewable energy in the U.S.
- ~47% of Intel's US purchased electricity comes from renewable sources

Intel site solar installations expanding quickly:



- Bangalore solar water heaters now saving 70,000 kilowatt hours per year
- Oregon office building electricity
- New Mexico solar demonstration on benefits in data centers



Optimism Is A Pre-requisite For Technology Innovation



The Recession Puts Clean and Smart Center Stage

It Is A Requirement, Not An Option



