HP Global Logistics Environment Program

Jaya

xxx
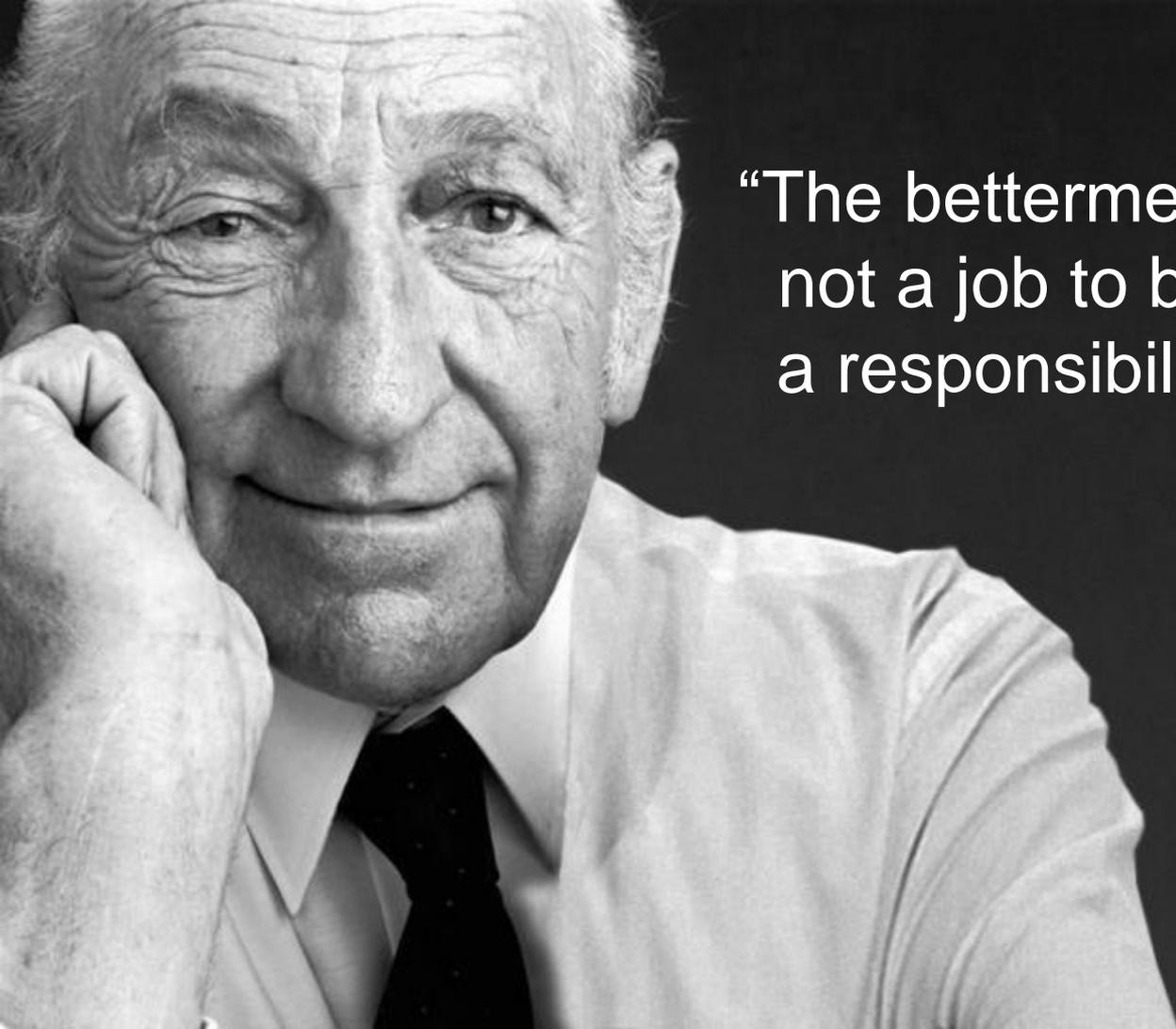
"The betterment of our society is not a job to be left to a few. It is a responsibility to be shared by all"

David Packard

hp

HP Has One Of The Largest IT Supply Chains In The World

HP MicroServer

HP ProLiant ML

HP ProLiant DL

HP ProLiant SL

HP Moonshot

HP ProLiant scale-up

"DragonHawk" HP Integrity blades & Superdome

HP Integrity NonStop

HP BladeSystem

HP Converged System

HP OneView

HP CloudSystem

HP ElitePad

EcoPOD

Every 60 Seconds...

HP delivers to our customers

105 PCs

88 Printers

880 Ink & Toner Cartridges

4 Servers

Every Day…

243
FEUs

533
Tons

288
Tons

Environmental Progress
Making the environment stronger as we grow

Goals: Percent reduction in GHG emissions intensity by 2020 (from 2010 baseline)

Our carbon footprint, 2013

| Supply chain 34% | 20% | Operations 5% | 20% | Products and solutions 61% | 40% | Total emissions **62,055,000** tonnes CO_2e | ↓16% y/y |

Supply chain GHG emissions
tonnes CO_2e

Value	Category
18,500,000	Materials extraction through manufacturing
500,000	Capital goods
300,000	Upstream energy production
2,000,000	Transport

Operations GHG emissions
tonnes CO_2e

Value	Category
1,682,800	Facilities
112,200	Transportation fleet
260,000	Commercial air travel
900,000	Employee commuting
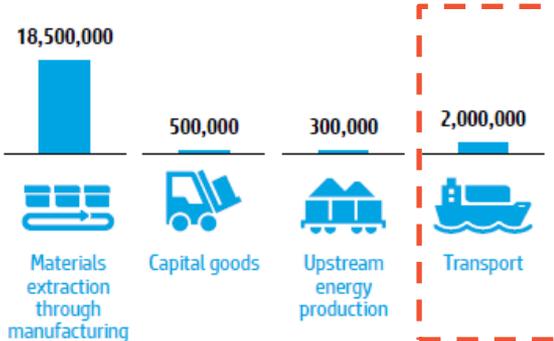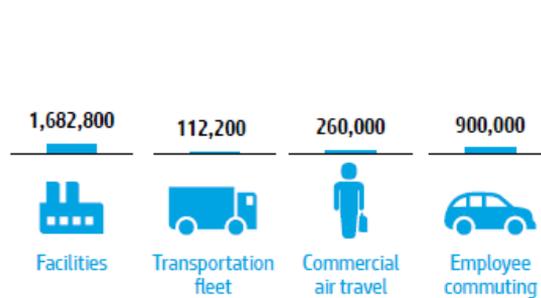
Products and solutions GHG emissions
tonnes CO_2e

Value	Category
37,800,000	Product use
0	Product end of life
0	Buildings leased to others
0	Investments
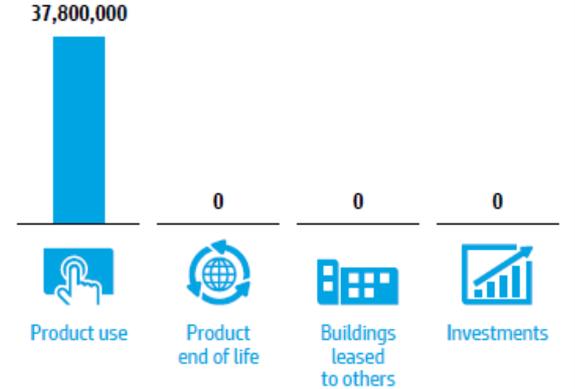
HP Carbon Footprint – Product Transportation Goal

| Supply chain 34% | Operations 5% | Products and solutions 61% | Total emissions 62,055,000 tonnes CO₂e |

Supply chain GHG emissions
tonnes CO_2e

18,500,000	500,000	300,000	2,000,000
Materials extraction through manufacturing	Capital goods	Upstream energy production	Transport
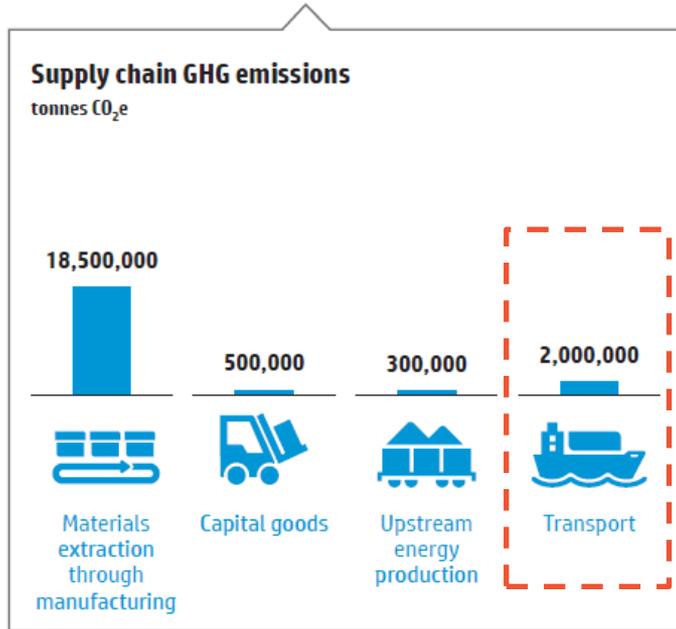
Drive a 20 percent decrease in its first-tier manufacturing and product transportation-related GHG emissions intensity by 2020, compared to 2010

- Increase the efficiency of our product transportation network
(minimize size/weight of shipments, decrease distance products travel, shift towards environmentally friendly transport modes)

HP Logistics Environmental Opportunities…

Cost Savings → CO2 Reductions

Network Enhancement and Optimization Programs Drive CO2 Reductions

Weight / Distance / Mode of Transport CO2 Factor

Logistics CO2 Reduction Programs

Increase the efficiency of our product transportation network

- Minimize size/weight of shipments

- Decrease distance products travel - consolidate shipments

- Shift towards environmentally friendly transport modes
  - Air to Ocean, Truck to Rail, etc.

- Influence our logistics services providers (LSPs) to decrease emissions

- Redesign product packaging to optimize product transportation

Environmental Criteria

Utilize environmental factors in the LSP selection process

Customized services for business

High performance

Security

Cost savings

Timely delivery

CO₂
Carbon footprint

Elite experience

Total Cost of Business
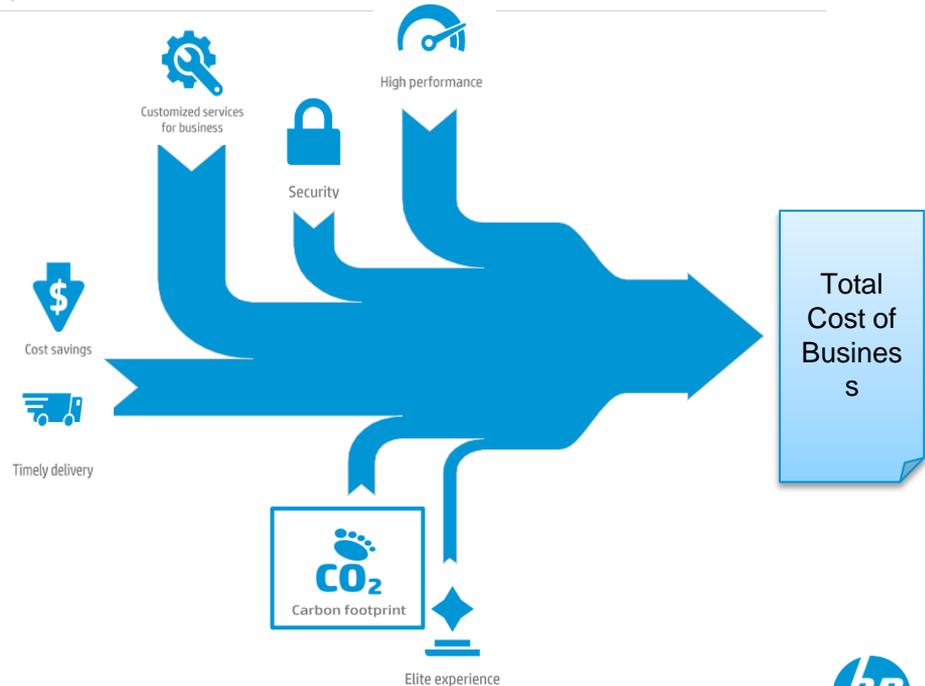
HP's New Logistics Gateways…

Venray-Oostrum
Netherlands

Pardubice
Czech Republic

Chongqing
China

Trans-Eurasian Rail
-Chongqing, China to Western Europe

## Port of Piraeus (Greece)
-Asia to Europe, Middle East and Africa

Panama Canal
-Expansion program completed by end of 2015

Ocean
Ground
Cross-docking Hub

Moscow
Kiev
Vienna
Sofia
Genoa
Barcelona
Piraeus
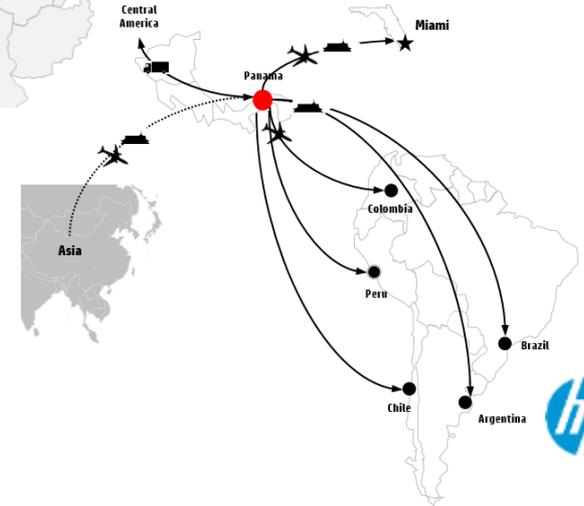
Benefits:
- Simplify Global Network
- Improve End to End Transit Times
- Reduce Inventory Costs
- Decrease CO2 emissions

Central America
Miami
Panama
Colombia
Asia
Peru
Brazil
Chile
Argentina

✓ Mode Conversion   ✓ Decrease Distance

Industry Leadership - Logistics Environment Associations

Clean Cargo Working Group

International Air Transport Assoc.

Global Logistics Emissions Council

Climate and Clean Air Coalition (UN)

Green Freight Europe

Green Freight India **

China Green Freight Initiative

US EPA SmartWay

Green Freight Asia

Green Freight Latin America **

Trucking

Air Freight

Ocean Freight

✓ Industry Leadership

GreenHouse Gas Protocol (World Resource Institute)

** In development