

# **HP Solutions Day 2018**

## **Umwelt Arena Spreitenbach**

### **Sustainability at HP**

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16. Mai 2018



# Facing the challenges of this century

- Global population is on pace to hit 9.4 billion by 2050
- More than 263 million children and youth worldwide are out of school
- Global middle class reached 3.2 billion by 2016 and is expected to grow
- In the next 20+ years, energy use will rise 48%, GHG emissions will rise by 34%, and demand for water will be 40% higher than supply

2.3 

Number of Earths we'll need by 2050

# Overcoming society's greatest challenges





# Reinventing for a better world

## Engineered with integrity

Ensuring all products and operations are based on the highest ethical standards

## Full circle innovation

Improving performance, reducing waste, and powering a circular and low-carbon economy

## Inspiring impact

Creating opportunities and enabling action to achieve a more just and inclusive society



# Engineered with integrity

## Uncompromising ethical behavior

A strong focus on what we put  
into products – and what we don't

Empowering workers, respecting  
privacy, security, and human  
rights

# Every person deserves dignity and respect

We insist that workers in  
our supply chain have fair  
treatment, safe working  
conditions, and freely  
chosen employment



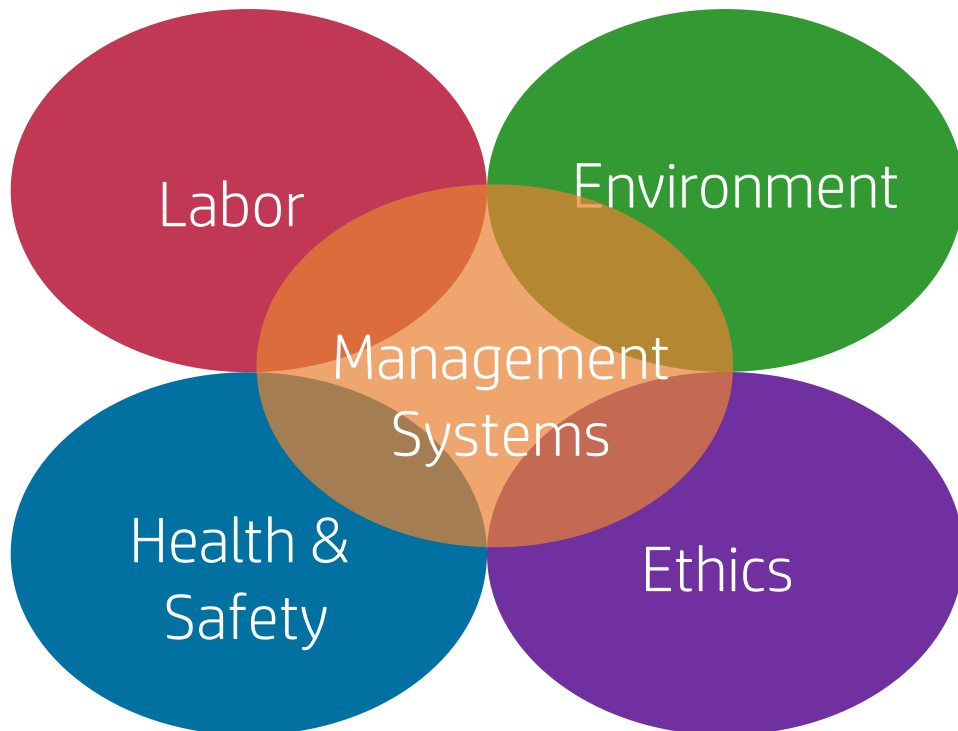




Total members March 2018: 113

# RBA (EICC) Code of Conduct

- HP conforms to a common code of conduct:
  - Creates efficiency and consistency for suppliers
  - Collaborative approach to drive change
  - Highest standards in social and environmental responsibility



## Code of Conduct references:

- ILO Code of Practice in Safety and Health
- National Fire Protection Agency
- ILO International Labor Standards
- OECD Guidelines for Multinational Enterprises
- United Nations Convention Against Corruption
- United Nations Global Compact
- Universal Declaration of Human Rights
- ISO 14001
- SAI / SA 8000
- Ethical Trading Initiative
- OHSAS 18001
- Eco Management & Assessment System
- OECD Due Diligence Guidance
- Dodd-Frank Wall Street Reform and Customer Protection Act



# Details of the RBA (EICC) Code of Conduct

## HP/RBA (EICC) Code of Conduct

- Supplier understanding of Code requirements
- Code applied to site operations

### Labor

- Freely Chosen Employment
- Young Workers
- Working Hours
- Wages and Benefits
- Humane Treatment
- Non-discrimination
- Freedom of Association

### Health and Safety

- Occupational Safety
- Emergency Preparedness
- Occupational Injury and Illness
- Industrial Hygiene
- Physically Demanding Work
- Machine Safeguarding
- Sanitation, Food and Housing
- Health & Safety Communication

### Environment

- Environmental Permits and Reporting
- Pollution Prevention and Resource Reduction
- Hazardous Substances
- Wastewater and Solid Waste
- Air Emissions
- Materials Restrictions (HP's GSE)
- Storm Water Mngmt.
- Energy Cons. & GHG

### Ethics

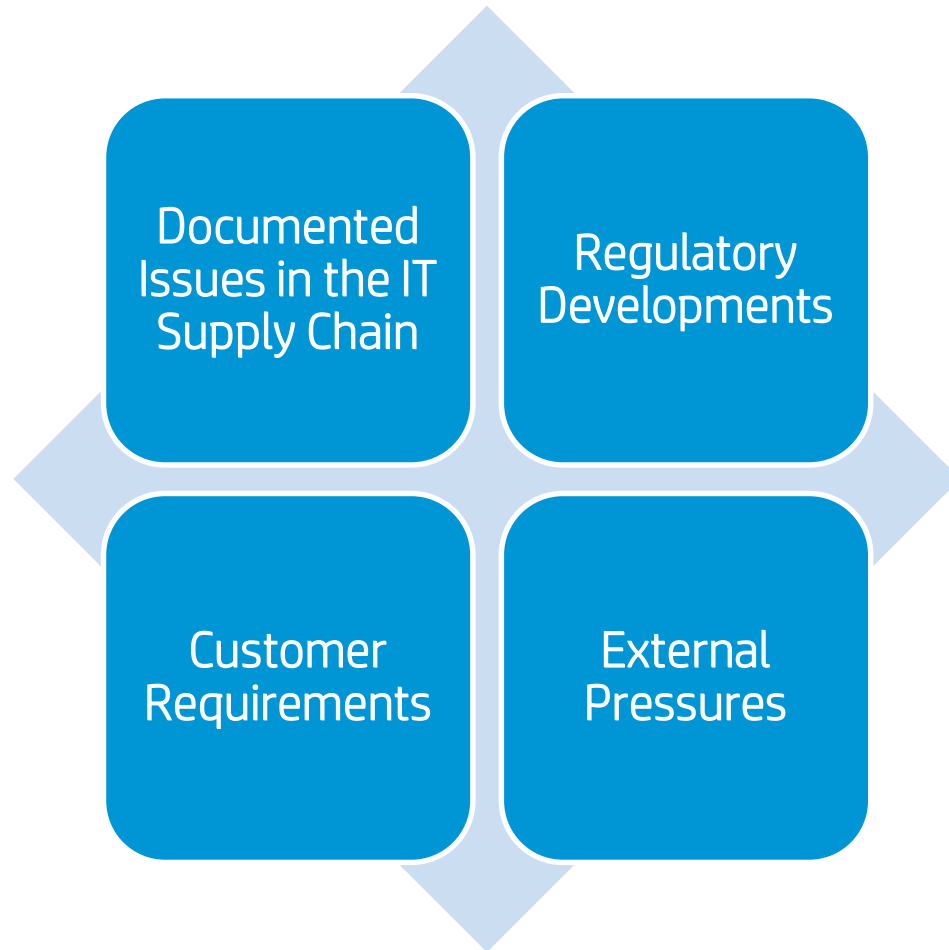
- Business Integrity
- No Improper Advantage
- Disclosure of Information
- Intellectual Property
- Fair Business, Advertising and Competition
- Protection of Identity and Non-Retaliation
- Responsible Sourcing of Minerals
- Privacy

### Management Systems

- Company Commitment
- Management Accountability & Responsibility
- Legal and Customer Requirements
- Risk Assessment and Risk Management
- Improvement Objectives
- Training
- Communication
- Worker Feedback & Participation
- Audits and Assessments
- Corrective Action Process
- Documentation and Records
- Supplier Responsibility

# Key Drivers for Foreign Migrant Worker Protections

## *Growing Urgency to Address Risks of Forced Labor in the Supply Chain*



**The New York Times**

INTERNATIONAL BUSINESS

### ***Report Cites Forced Labor in Malaysia's Electronics Industry***

By STEVEN GREENHOUSE SEPT. 17, 2014

**1 in 3**

Foreign migrant workers in forced labor situations in Malaysia IT factories

**85%**

Foreign migrant workers felt it was impossible to leave their job before paying off their debt

**71%**

Foreign migrant workers reporting it was impossible or difficult to get their passports back



# HP Supply Chain Foreign Migrant Worker Standard

HP mandates better protection for vulnerable worker group

No recruitment fees paid by workers



No document retention by suppliers or agents



Direct employment relationships with suppliers  
(industry first)



Capacity Building

Assurance Program  
Development

Monitoring

Industry / Stakeholder  
Collaboration

# HP ranks top company to mitigate forced labor in its supply chain

KnowTheChain released its first benchmark findings on the efforts of Information and Communications Technology (ICT) companies to mitigate forced labor in their supply chains. HP ranked the highest in this benchmark which evaluated the following items:

- Commitment and governance
- Traceability and impact assessment
- Purchasing practices
- Recruitment
- Worker voice
- Monitoring
- Remedy



## ICT Benchmark Findings Report

June 2016





We have strict policies in place to protect workers:

Supplier Code of Conduct	Student and Dispatch Worker Standard
<ul style="list-style-type: none"><li>⊘ forced labor</li><li>⊘ child labor</li><li>⊘ discrimination</li><li>⊘ inhumane treatment</li><li>⊘ health and safety hazards</li><li>⊘ use of hazardous substances</li><li>⊘ environmental damage</li><li>⊘ corruption</li></ul>	<ul style="list-style-type: none"><li>⊘ work that does not match student's education</li><li>⊘ forced labor</li><li>⊘ workers under minimum legal requirement</li><li>⊘ more than 20% student workers on HP lines</li><li>⊘ fees of any kind</li><li>⊘ unequal pay</li></ul>
Foreign Migrant Worker Standard	General Specification of the Environment
<ul style="list-style-type: none"><li>⊘ hiring through recruitment agencies</li><li>⊘ withholding of passport or personal documentation</li><li>⊘ recruitment fees of any kind</li></ul>	<ul style="list-style-type: none"><li>⊘ illegal substances or materials</li><li>⊘ hazardous chemicals</li></ul>

A close-up photograph of a person's hand, wearing a blue long-sleeved shirt and a yellow and white checkered wristband, holding a pile of dark, irregularly shaped mineral rocks. The background is blurred, showing more of the person's clothing and a hint of an outdoor setting.

# Mining responsibly

HP works to ensure metals used in our supply chain are not associated with conflict in the DRC

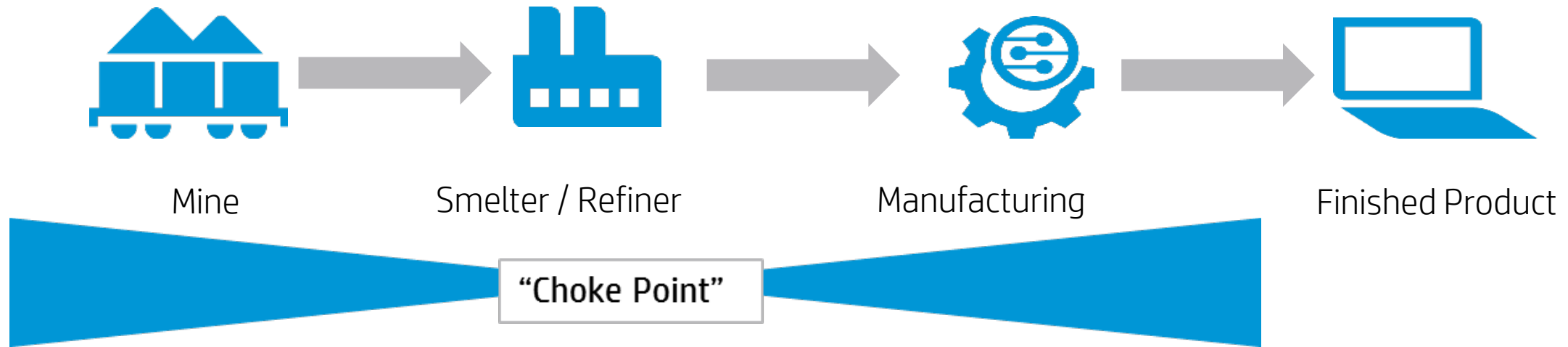
Production suppliers required to adopt conflict minerals policies and report out on smelters they use

Collaboration with businesses, NGOs, governments, and suppliers advances use of responsibly sourced minerals

90% of smelters are conflict free or on the way to becoming conflict free



# Overview of Conflict Free Sourcing



## In-Region Programs

- Traceability Schemes

## Responsible Minerals Assurance Process (RMAP)

- Audit protocol
- Engage smelters
- 3rd party audit
- Website

## Company Due Diligence

- Common Reporting
- Dashboard
- Training & White Papers

# Mining responsibly

## Visualization of HP's 3TG Supply Chain



# Full circle innovation

Powering a circular and  
low-carbon economy

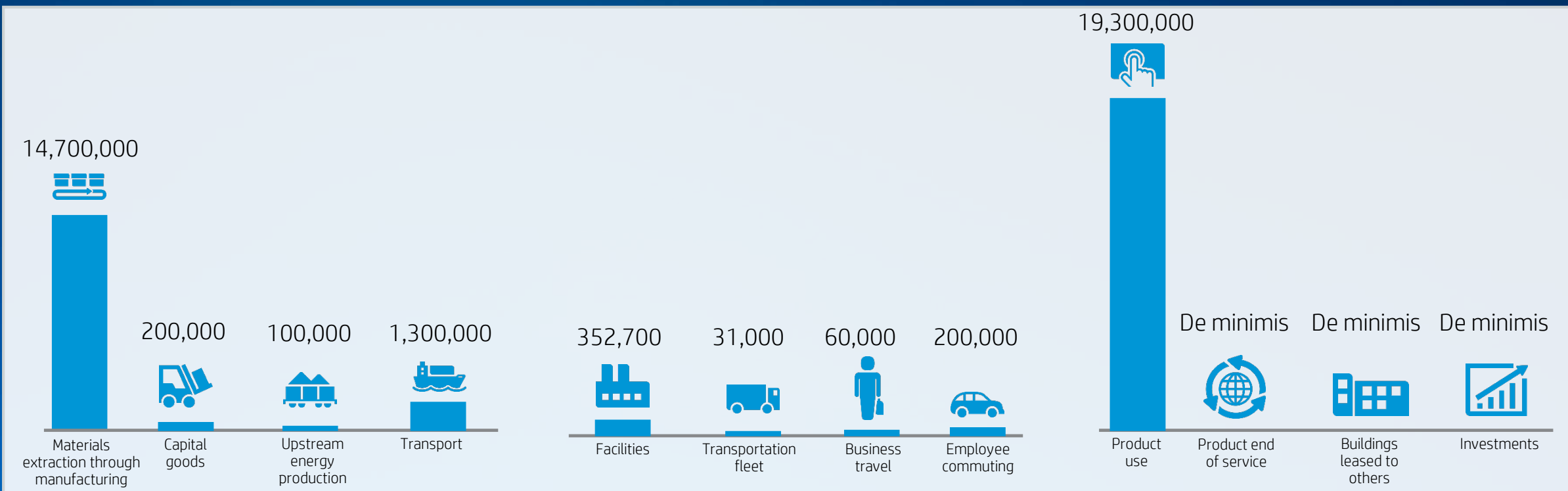
Reducing cost, waste,  
and environmental impact

Improving performance through  
material and energy-efficient  
products





# HP's global emissions impact and goals



## Supply chain (45%)

Reduce first-tier production supplier and product transportation-related GHG emissions intensity 10% by 2025, compared to 2015

Achieve zero deforestation associated with HP paper and paper-based product packaging

Help suppliers cut 2 million tonnes of CO2e emissions between 2010 and 2025

## Operations (2%)

Reduce Scope 1 and Scope 2 GHG emissions from global operations by 25% by 2025, compared to 2015

Committed to 100% renewable electricity in global operations with 40% by 2020

## Products and solutions (53%)

Reduce the GHG emissions intensity of our product portfolio by 25% by 2020, compared to 2010



# Materials reductions

Creating products that have less environmental impact

Transitioning to smaller desktop products and notebooks that use less materials

HP Elite Slice is up to 70% lighter than older desktop PCs



# Energy Efficiency Program

Engaged more than 200 supplier sites in China and Southeast Asia

More than 576 million kilowatt hours (kWh) of electricity saved

More than 940,000 tones of CO<sub>2</sub>e emissions prevented

Suppliers have saved an estimated \$73 million through participation in program



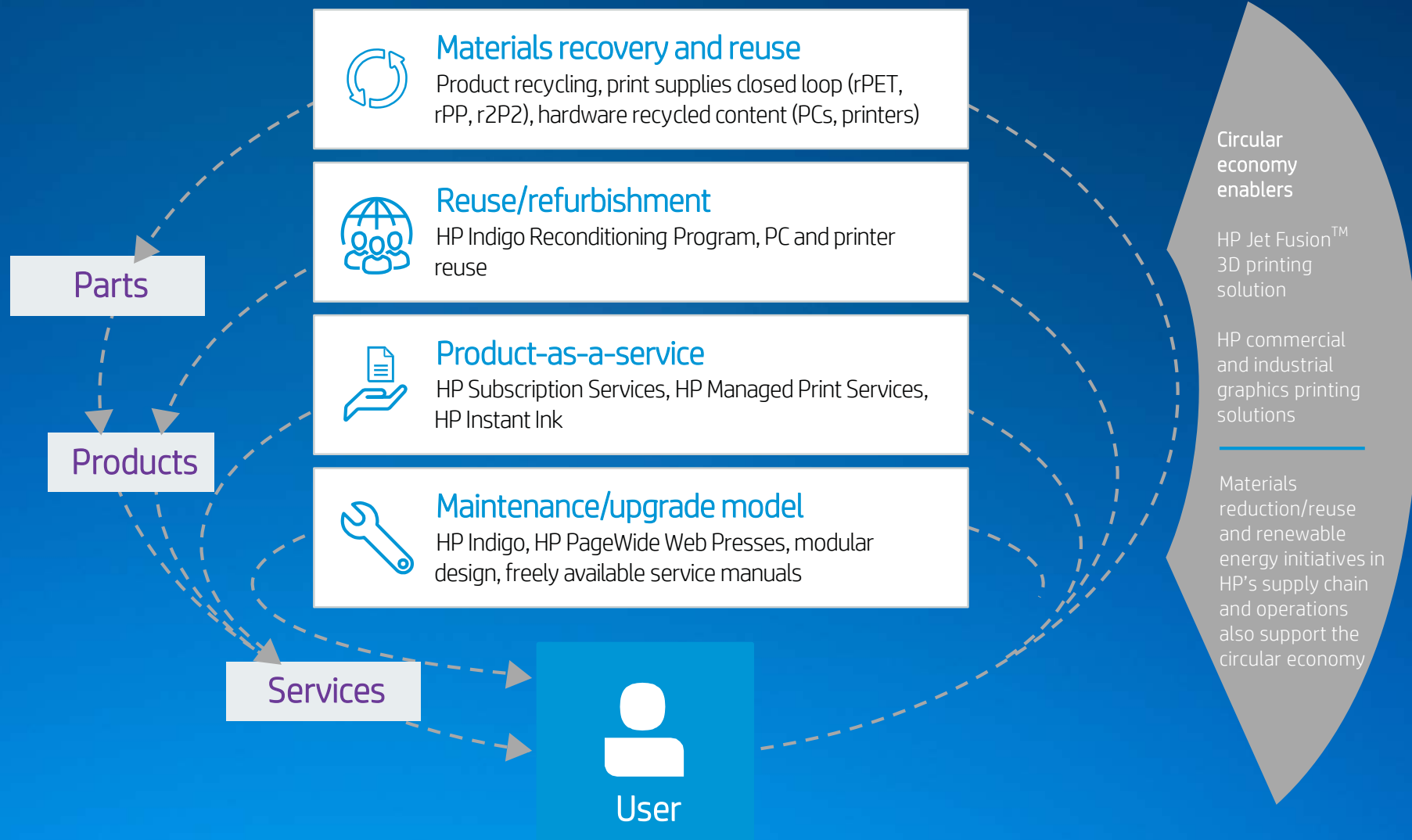
# HP PageWide technology

Uses up to 71% less energy while printing than lasers in its class

Reduces carbon footprint of printing up to 80% per printer

Generates up to 95% less supplies and packaging waste than comparable laser printers

# HP's circular economy





A woman with dark hair tied back, wearing a tan blazer over a white top and white pants, is sitting on a dark stone ledge. She is holding a tablet computer in her hands and looking at the screen. A black bag is resting on the ledge next to her. The background is a dark, textured stone wall.

# Design for repairability

Modular designs make it easy to maintain and repair products, helping eliminate costly replacements

Free online service manuals available for most products

HP Elite x2 among HP products to earn highest marks for serviceability





# HP Managed Print Services

Helps organizations create and deploy print and workflow strategies

Reduces energy usage up to 40%

Decreases imaging and printing costs up to 30%

Reduces paper waste 25% or more

Minimizes device downtime

# HP Instant Ink

IoT strategy ensures customers never run out of ink when they need it

Customers can choose a monthly service plan based on pages printed

Used cartridges returned directly to HP's closed-loop recycling program

Customers can save up to 50% on ink

Reduces materials consumption by 57% on average per printed page



# 3D print

Streamline prototyping process

Reduce materials needed to make finished parts

Improve economics of short-run manufacturing

Better match supply with demand

Reduce waste by shifting from physical to digital inventories





## HP Planet Partners

Partnering for the planet for more than 25 years



HP provides easy, secure, and responsible ways to retire your IT products.

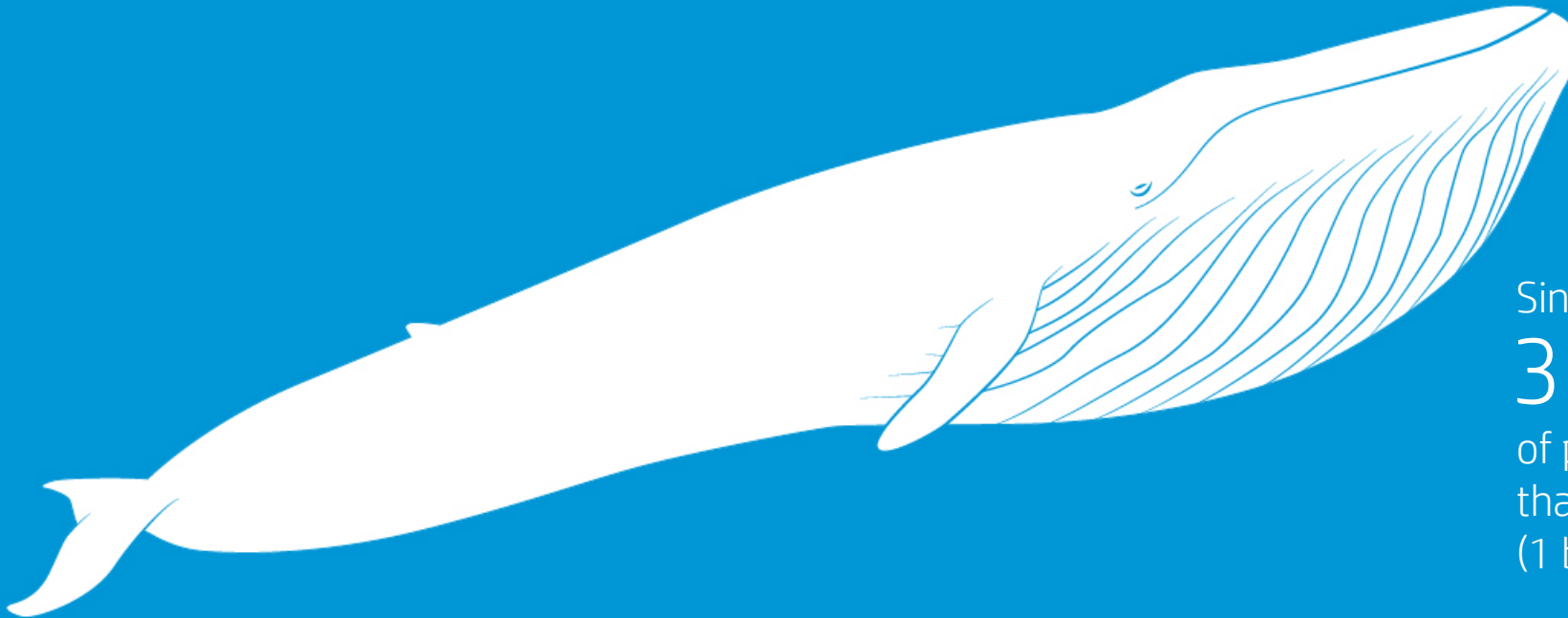
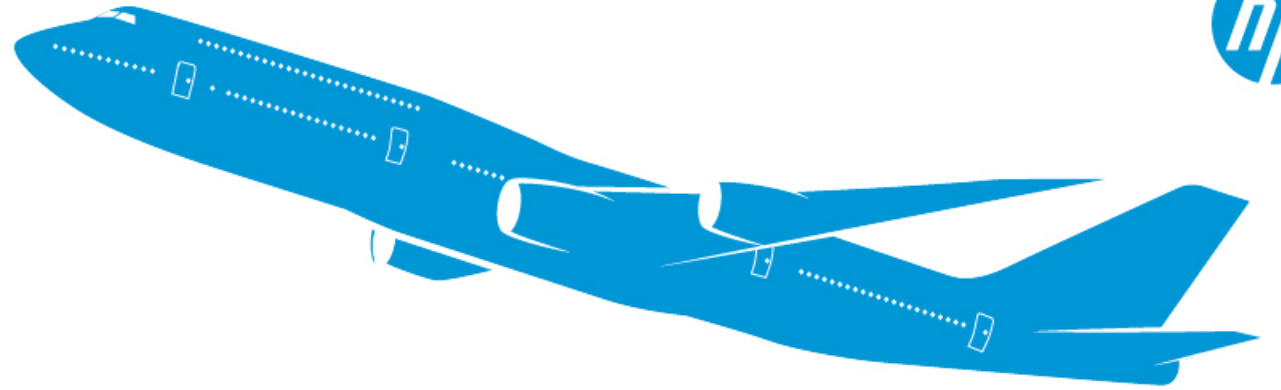


In 2016, we recycled around

**119.900 tons**

of hardware (including HP and non-HP products) and HP cartridges—the equivalent weight of 267 Boeing 747s.

(1 Boeing 747 8I : 448 tons)



Since 1987, HP has recycled more than  
**3.5 billion pounds**  
of products, equaling the weight of more  
than 8 thousand whales  
(1 blue whale : 400,000 pounds)



# HP Planet Partners celebrates 25 years of supplies recycling ...making a difference together

735 million

recycled HP cartridges  
from 60 countries



3.5 billion

recycled plastic bottles



70 million

recycled hangers



3.1 billion

new print cartridges



Used cartridges and other plastics you recycle are combined to make new HP print cartridges—3.1 billion of them.





## HP Planet Partners

Partnering for the planet, one cartridge at a time



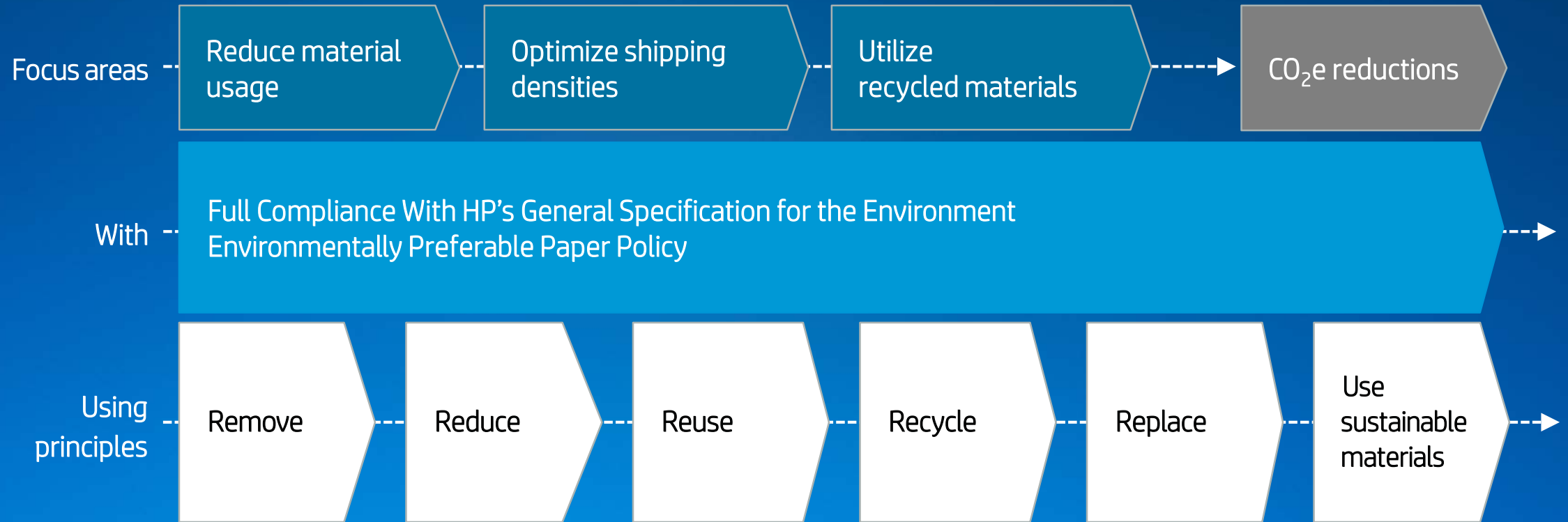
80% of Original HP ink cartridges contain recycled content.



100% of Original HP toner cartridges contain recycled content.

# HP environmental packaging strategy

Deliver our industry's most efficient and sustainable packaging designs





# Straw pallet program

Systematic burning is significant source of air pollution

First IT company to replace wood pallets with straw pallets

More than 36,000 pallets made from over 2,500 tons of straw used since 2017

Program helps reduce environmental impact, improve economic opportunities, and enhance quality of life

Illustrates HP's shift to a more efficient, circular and low-carbon economy





# HP Straw Pallet Initiative

## Implemented in February 2017

- HP is the first IT company to ship product on pallets made from straw-harvested rather than burned.
- 36,000 pallets shipped, using 2500 tons of straw
- Eliminating the CO<sub>2</sub>e associated with burning the straw
- Eliminated demand for 36,000 traditional pallets, equal to 720 tonnes of traditional pallet material



Reduce material usage

Optimize shipping densities

✓ Utilize recycled materials





# Printing with sustainability in mind

World's first in-class printers made with closed-loop recycled plastic

Use Original HP ink cartridges made with 48-73% recycled plastic

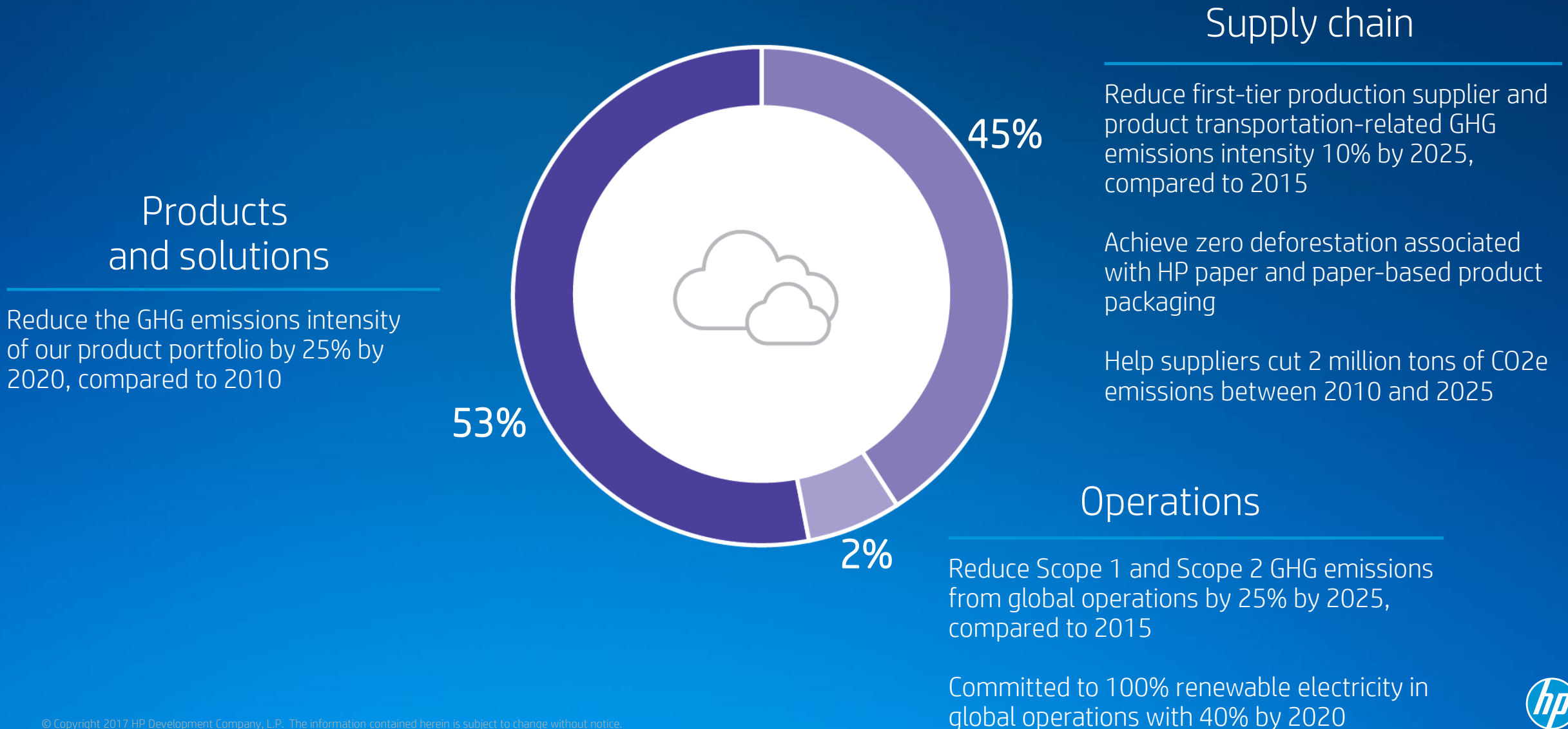
Print on HP paper made with 100% certified fiber or recycled content

Take advantage of HP Instant Ink

Easily recycle printers and cartridges

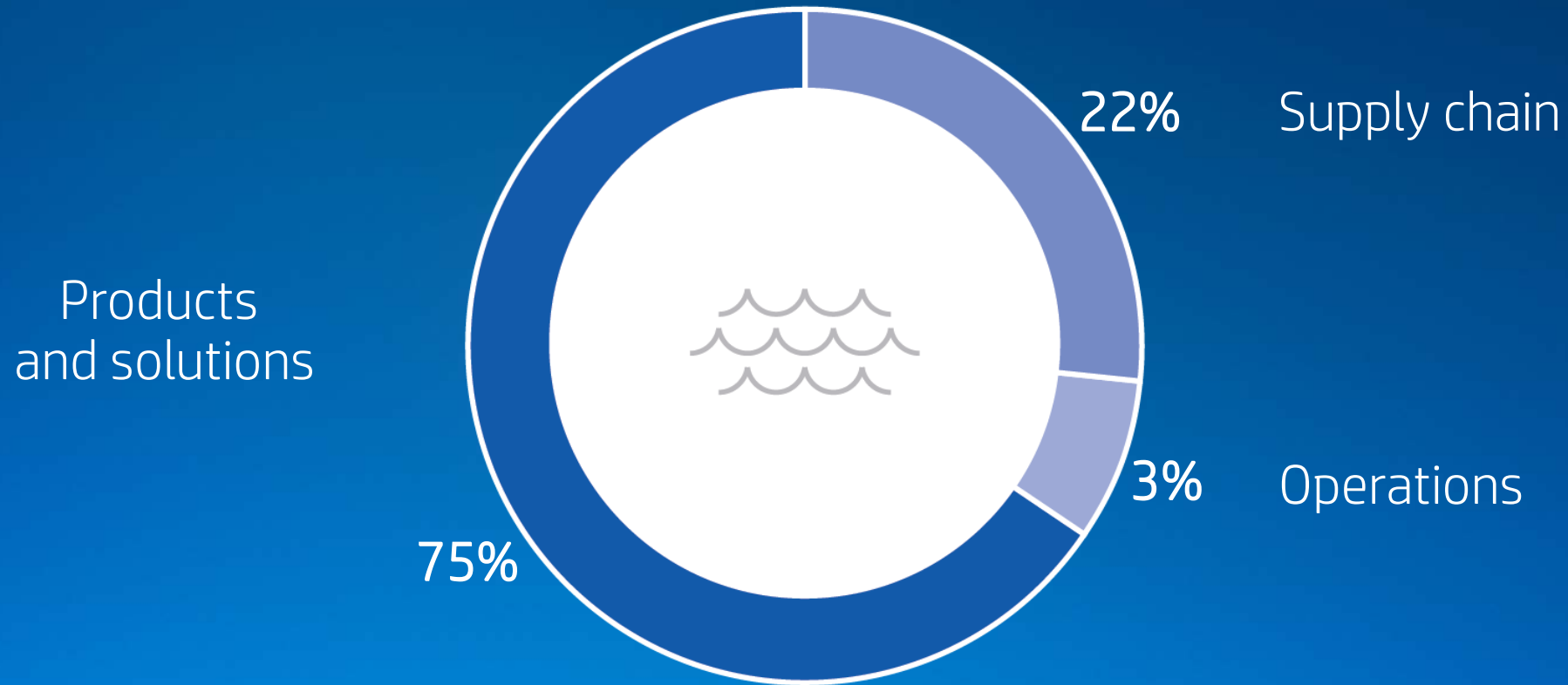


# HP's global emissions impact and goals





# HP's global water footprint and goal



Water goal

Reduce potable water consumption in global operations by 15% by 2025, compared to 2015

# Recognized as one of the world's most sustainable companies



One of only 25 companies named to both 2017 Climate and Water "A" Lists; achieved a spot on 2018 Supplier Engagement Leader Board



Recognized as the industry leader for commitment to address human trafficking and forced labor in supply chain



Earned 19th spot on Gartner Supply Chain Top 25 list with perfect 10 for efforts in corporate social responsibility



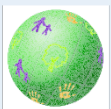
With 2017 rankings, listed on the World Index for the 6<sup>th</sup> time in a row



Received Gold Medal Award for International Corporate Achievement in Sustainable Development



Named one of the 100 Most Sustainable Corporations in the World



FTSE4Good

Included on the FTSE4Good Index since 2003



Received Excellence Award for 6<sup>th</sup> time



Received 100% on Corporate Equality Index for 2003-2018



Rated among the top technology companies for corporate social responsibility efforts



HP Brazil recognized for sustainability efforts in 2013, 2014, 2016, and 2017



Named one of Canada's Greenest Employers for 10<sup>th</sup> year in a row



# 2016 Sustainability Report

Highlights achievements in areas of  
environment, society, and integrity

Illustrates solutions to address many  
of society's greatest challenges

Outlines HP's social and  
environmental goals

[www.hp.com/sustainability](http://www.hp.com/sustainability)







keep reinventing