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## Global Aerospace Industry

- health, safety, sustainability

# We Campaign for Safer Workplaces:

Occupational accidents (diced, sliced, crushed, burned)

Cancer (chemicals, radiation)

Respiratory diseases (fibres e.g. asbestos, dusts e.g. silica and coal, corrosive chemicals, sensitizers, allergens)

Circulatory diseases (chemicals, stress, shiftwork)

Skin diseases (corrosive chemicals, sensitizers/allergens, sunlight)

Diseases of internal organs/systems such as liver, kidneys, nervous system, digestive system, blood-forming (chemicals)

Musculo-skeletal disorders (e.g. back problems, occupational overuse syndrome - tendons, joints)

Chronic fatigue (shiftwork, excessive hours of work)

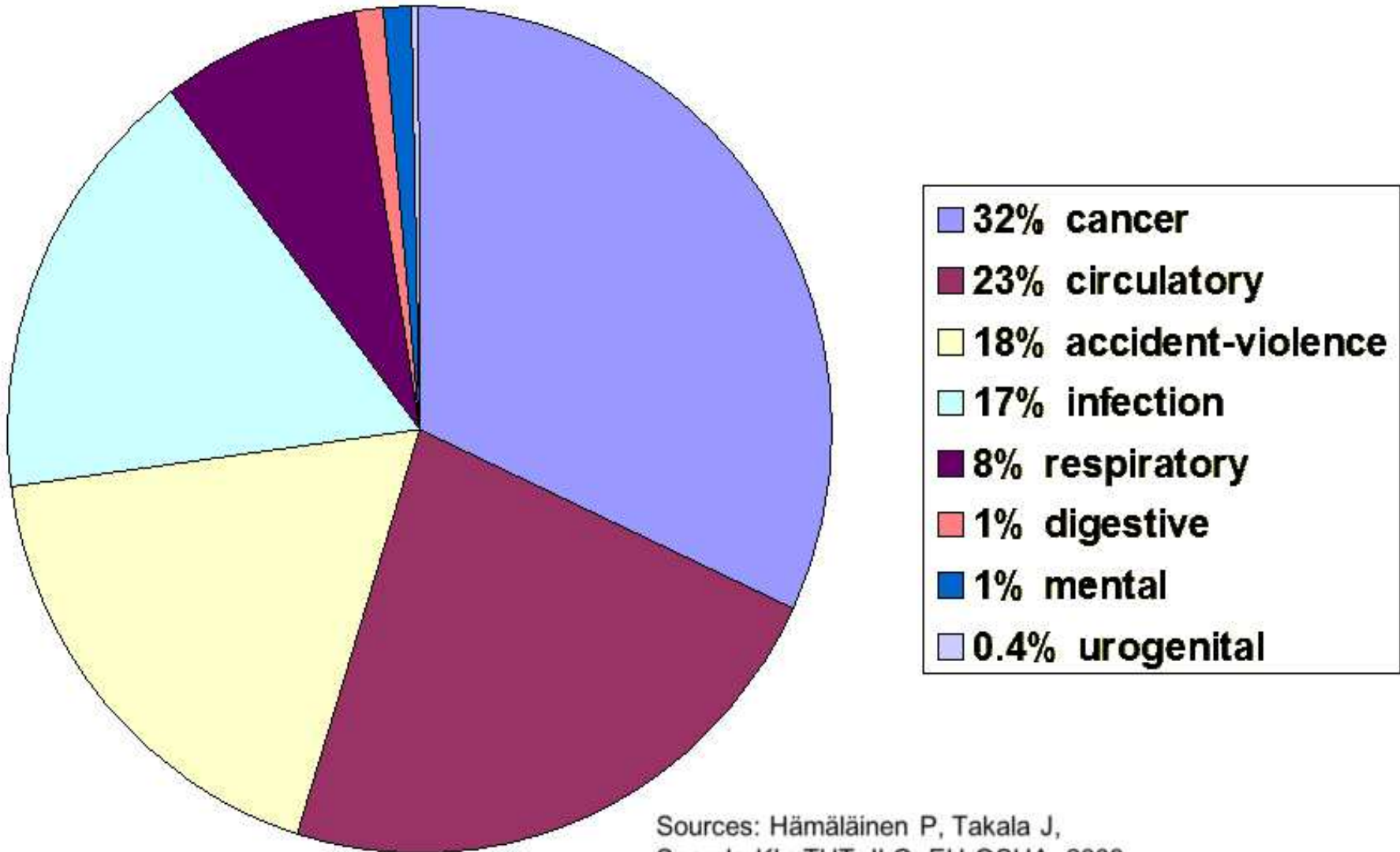
Infectious diseases

Noise and vibration

Heat and/or ventilation problems

Physical / psychological threats (bullying, violence, racism, sexism)

# World Occupational Deaths: 2.3 million per year



Sources: Hämäläinen P, Takala J, Saarela KL; TUT, ILO, EU-OSHA, 2008

# Work-related diseases worldwide, estimated: 198–242 million work-related illnesses

## Cancer alone:

region	total cancer deaths		occupation related		occupational cancer deaths		
	men	women	men	women	men	women	total
EU 27	623,709	481,307	13.6%	2.1%	85,106	10,177	95,581
world	3,872,766	3,062,008	9.6%				665,738

Source: presentation by Takala J, ILO, 2008



# Underestimates

These statistics, shocking as they are, are gross underestimates:

- record only nationally accepted statistics, usually from workers' compensation
- occupational diseases under-diagnosed
- widespread suppression of accident reporting, or outright concealment

# OHS is a matter of 3 RIGHTS:

## 1. Right to Refuse or Shut Down ...

*all unsafe work.*

## 2. Right to Participate ...

*fully and effectively, in all OHS policies, programmes and procedures, with the JHSC as the centrepiece of the OHS system.*

## 3. Right to Know ...

*completely, wall-to-wall, about work hazards and receive the necessary education and training on how to do it safely.*

# SYSTEMS

Materials  
Tools  
Equipment  
Process Integrity

Job / Task Design  
Process Risk Management

Work Environment  
Process Knowledge  
Regulations  
Standards / Codes

Management  
Authority  
Accountability  
e.g. Capital Review

People  
Human Factors  
Training and Performance

*Problem: management culture historically rewards risk-taking!*





# Health and Safety: Present Experiences and Lessons

Continued drift from a rights-based and systems-based approach, towards a blame-the-worker behaviorist approach.

Worker behavior matters, but it's not the main thing.

Campaigning for Safer Workplaces:  
it is simple: the bottom line...

- Workers have rights ...  
Employers have responsibilities !
- The Stronger the Union...  
The Safer the Workplace !

# Sustainability is our issue

## IndustriALL's Five Strategic Goals:

1. Build union power throughout the world
2. Confront global capital
3. Defend workers' rights
4. Fight precarious work
5. Ensure sustainable industrial employment

.. sustainability is not just about Goal 5 !!  
A couple of issues as examples...



# Weaknesses / Threats

1. Responding to increasing demand
2. Economic results
3. Greenhouse gas emissions
4. Air pollution (local air quality)
5. Fuel costs
6. Noise
7. Safety / accidents
8. Business model / customer satisfaction
9. Air security
10. Social, employee, and community issues
11. Failure to take a long-term view, a failure to create a sustainable industrial policy

# Short-Sighted Thinking

- These pressures will result in questions being asked of the global aerospace industry
- Will it be seen as part of the solution, or only part of the problem?
- The industry must consider what role it will play
- A new global regulatory framework is emerging



Yes, it's a pie-chart.

13,950 peer-reviewed climate articles  
1991-2012

24 reject global warming



# One meter sea level rise by 2100 ... what does this mean?

- Selected Impacts
  - 15% loss of agricultural production in Egypt
  - 20% loss of agricultural production in Bangladesh
  - 10 Million people directly affected by flooding in Bangladesh
  - \$650 Billion property loss in USA (today's dollars)
- Selected Protection Costs
  - \$100 B/yr for US resorts/urban centers
  - \$20 B/yr for Japan
  - 34% of the GNP for Maldives

# Sustainable Industrial Policies:

Just  
Transition:  
Who  
benefits?  
Who  
pays?



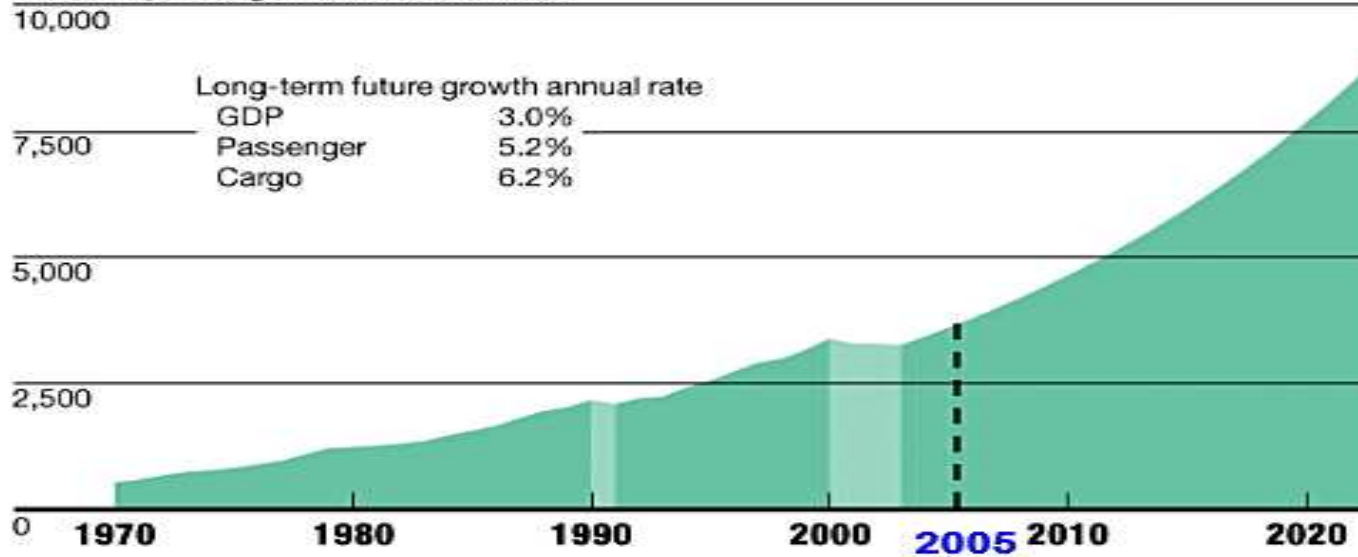
Discussions: if  
changes are  
coming they  
must be  
managed  
in a socially  
responsible  
manner



# Growing demand

## World Air Travel Continues to Grow

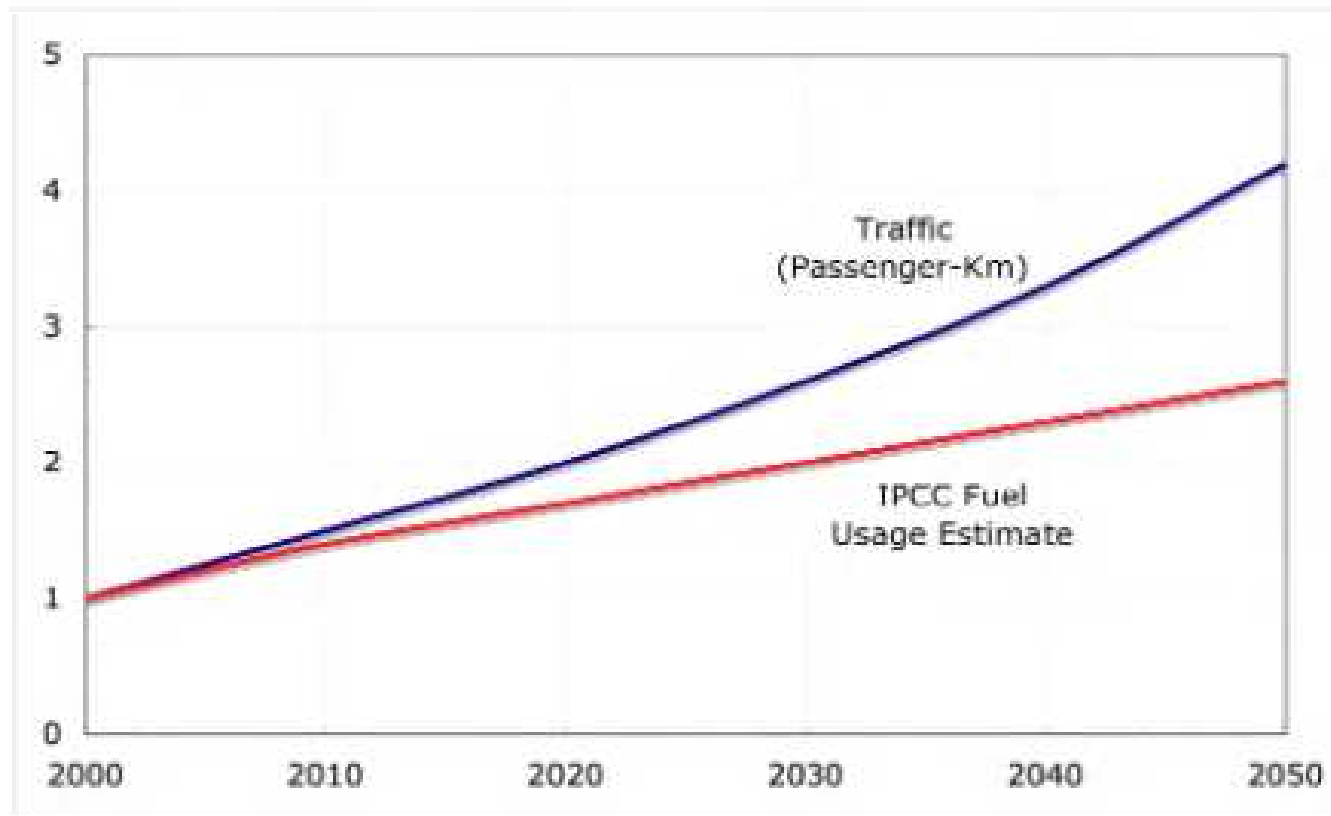
Revenue passenger kilometers, billions



Boeing Current Market Outlook 2004,  
Demand for Air Travel

- Source: Reefear Eapear; Shahril Redzwan, Masweera Mahadi, Noor Faiziana, Umami Sakinah: "Sustainability of Air Transportation" 2013

# Expect 3-fold jump in air travel over next 3 decades; sustainability issues will be critical

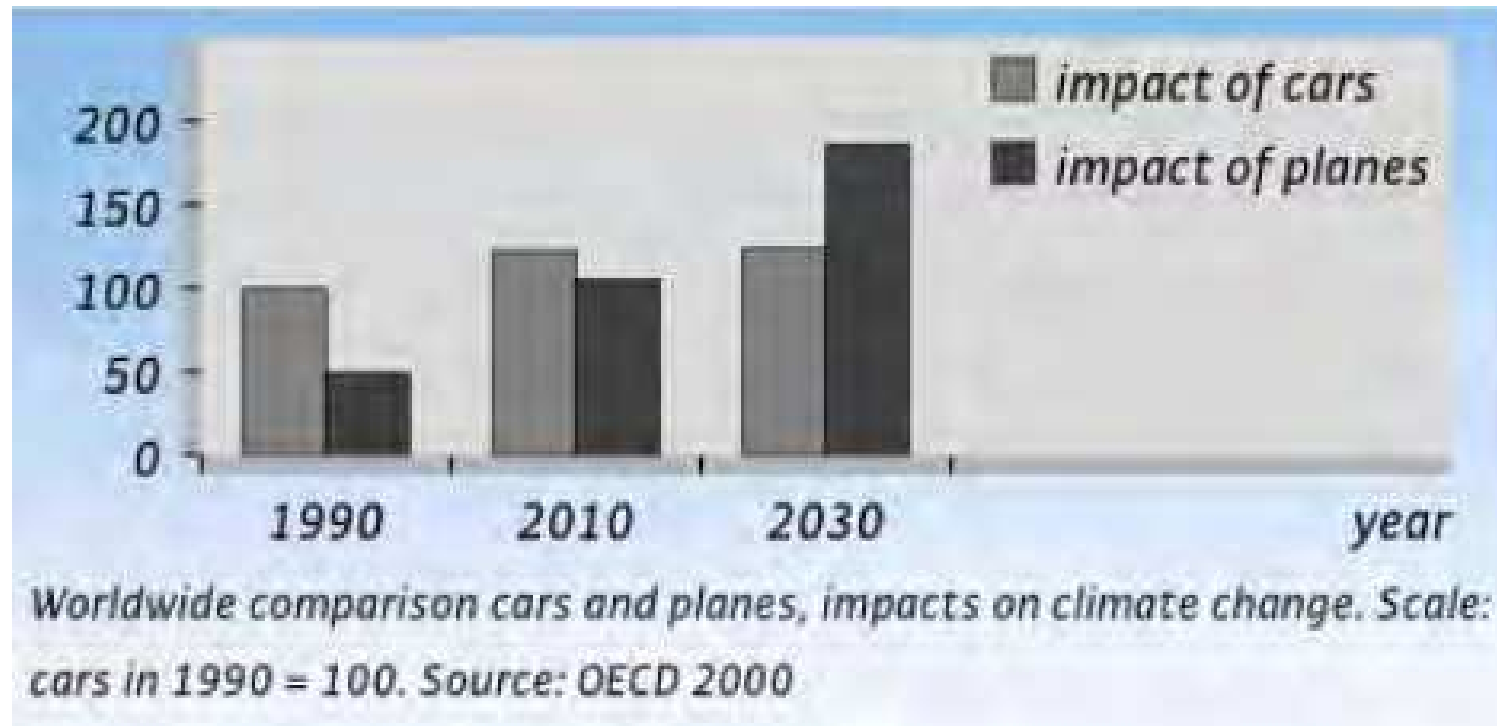


- Source: Reefear Eapear; Shahril Redzwan, Masweera Mahadi, Noor Faiziana, Umami Sakinah: "Sustainability of Air Transportation" 2013

# A Major Contributor to Greenhouse Gases

“Air travel is the world's fastest growing source of greenhouse gases.” - CNN Nov 6, 2007 and Friends of the Earth. Public and political pressure is mounting.

Each long distance flight of a B747 adds approximately 400 tons of Co2 to the atmosphere.

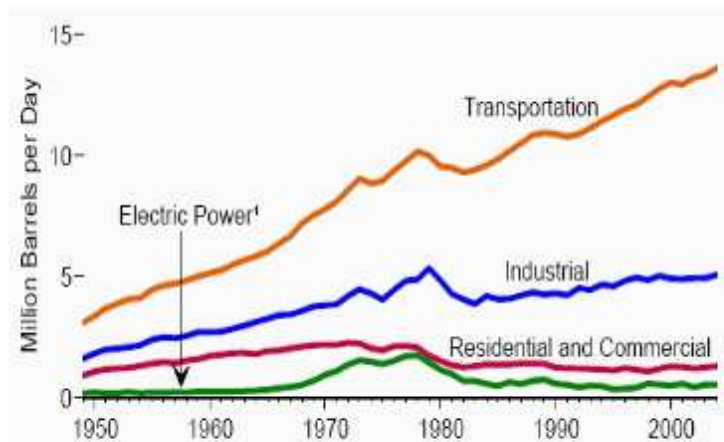


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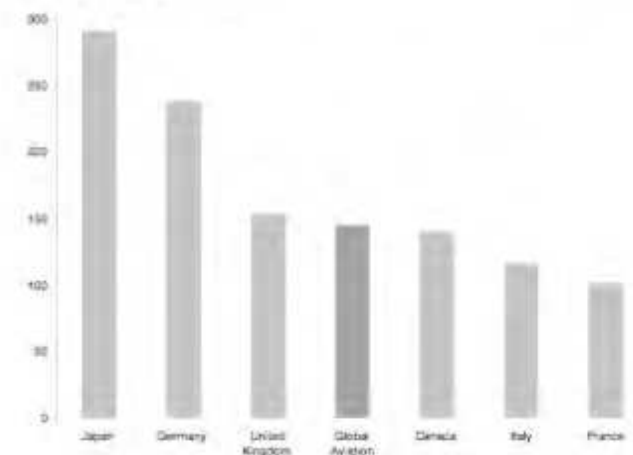
# Aviation Contribution to CO2

Transportation sector leads in petroleum use

Carbon emissions from global aviation exceed the total output of many countries



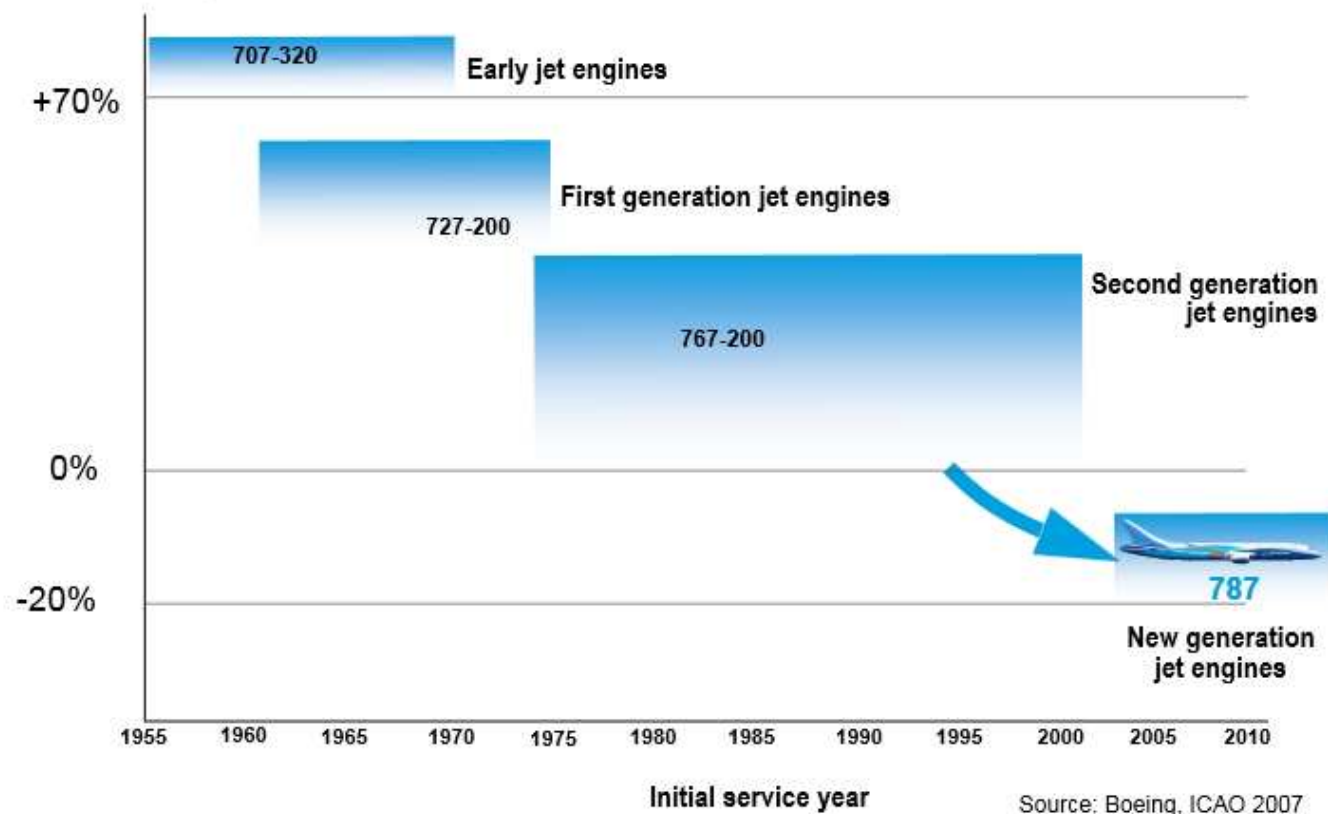
Total Carbon Emissions from Global Aviation and Selected Countries:  
Million metric tonnes



- Source: Reefear Eapear; Shahril Redzwan, Masweera Mahadi, Noor Faiziana, Umami Sakinah: "Sustainability of Air Transportation" 2013

# Modern Aircraft Fuel Efficiency

Relative fuel use per seat-km



- Source: Reefear Eapear; Shahril Redzwan, Masweera Mahadi, Noor Faiziana, Umami Sakinah: "Sustainability of Air Transportation" 2013

# Collaborative climate action

## **International Civil Aviation Organization (ICAO) Assembly**

- collective global aspirational goals for the international aviation sector: to improve fuel efficiency by **2% per year** and keeping net CO<sub>2</sub> emissions from 2020 at the same levels

Means:

- **1.5% per year improvement in fuel efficiency (to 2020)**;
- stabilizing net emissions 2020 + through carbon-neutral growth
- reducing net aviation CO<sub>2</sub> **50% by 2050**, relative to 2005 level
- 15 billion USD in R&D per year in these areas

LET'S TALK ABOUT YOUR ATTITUDE ON JOBS VERSUS THE ENVIRONMENT.

VERSUS?



# market-driven adaptation solution?





Two great, related, expectations for the coming year are:

- (1) agreement on post-2015 development goals in New York in September.
- (2) a climate agreement in Paris in December;

Many preparatory and related meetings will precede these.

IndustriALL has asked its affiliates to make a statement this year for strong climate change measures and a Just Transition; to build as much coherence as possible, to reach our respective governments, and to deliver the strongest possible message in the run-up to Paris.

**... Thank You!**



**Brian Kohler**  
**Director - Health, Safety and Sustainability**  
**IndustriALL Global Union**



## March 2015

23-27 (tentative) Intergovernmental Negotiations on Post-2015 Development Agenda - 3rd Session, NY USA

24-28 World Social Forum (this is where the form of People's Climate Rallies (I) and (II) will be decided), Tunisia

31 National Emissions Reductions Pledges to be announced

## April 2015

16-19 Spring Meetings of G20 Finance Ministers, World Bank Group and IMF, Washington DC USA

24-25 Arctic Council Ministerial Meeting, Iqaluit Nunavut Canada

Draft text of Paris Agreement now available to National Governments for examination preparatory to COP-21

## May 2015

01 Expo 2015: Feeding the Planet, Energy for Life, Milan Italy

04-15 UN Forum on Forests Eleventh Session (UNFF11), New York City USA

15 HLTD on Strengthening Cooperation between the UN and regional and sub-national organizations, NY USA

18-22 2nd Annual Sustainable Energy for All (SE4ALL) Forum, New York City USA

27-29 G7 Meeting - Finance Ministers and Central Bank Governors, Dresden Germany

31-Jun03 First International Symposium on Sustainable Aviation (ISSA-I), Istanbul Turkey

National Governments to examine Draft text of Paris Agreement

Trade Union Climate Pledges requested

## June 2015

01-07 Trade Union Climate Justice Action Week organized by ITUC: demands - (1) Just Transition (2) Ambition

01-13 ILO Conference, Geneva: demands - Guy Rider sign declaration climate & jobs

02-04 48th Meeting of the Global Environmental Facility Council, Washington DC USA

03-14 UNFCCC 40th Inter-sessional of Subsidiary Bodies, Bonn Germany

07-08 G7- Heads of State meeting, Bavaria Germany

08-10 Resilient Cities 2015: 6th Global Forum on Urban Resilience and Adaptation, Bonn Germany

29 UN General Assembly High-Level Event on Climate, NY City USA

National Governments to signal willingness to sign Paris Agreement (non-binding)

HLTD = High Level Thematic Debate

## July 2015

07-10 Our Common Future Under Climate Change, Paris France

09-10 7th Brics Summit, Ufa Russia

13-16 Third UN Conference on Financing for Development, Addis Ababa Ethiopia

## September 2015

14-15 Trade Union Climate Summit, Paris France

15-28 70th Session of the UN General Assembly (UNGA 70), New York City USA

18-20 U.S. Women's Earth and Climate Summit 2015, Washington DC USA

25-27 UN Summit for Adoption of Post-2015 Development Agenda, New York City USA

## October 2015

04-07 South Africa International Renewable Energy Conference 2015, South Africa

05-09 ILO Tripartite Expert Meeting on Just Transition, Geneva Switzerland

07-09 2015 Annual Meetings of the World Bank Group and the International Monetary Fund, Lima Peru

Trade Union Climate Pledges (IndustriALL to bring some of its important affiliates willing to take a stand)

ITUC Dorje Khatri Award for Climate Justice

## November 2015

01-13 ILO Governing Body, Geneva Switzerland 15-16 G20 Summit, Antalya Turkey

28 People's Climate Rally (I), Peoples' Place, Paris France

30-Dec12 UNFCCC COP 21, Paris France

## December 2015

05 4th Globe Climate & Forest Legislation Summit, National Assembly & COP21/CMP11, Paris France

13 People's Climate Rally (II), Peoples' Place, Paris France

13 Global Climate Agreement announced?