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# **“A Tale of Two Industries” - Building the Bridge Between Business Aviation and Academia**

**Dr Ivan Sikora, PhD MRAeS**

**Programme Director ASM MSc**

ZONE





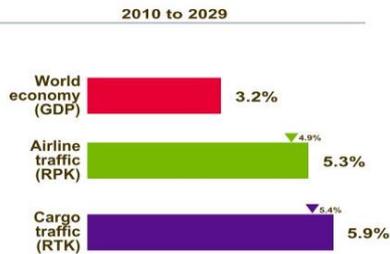
# What is in the air transport industry that it is making so much the subject of global attention?



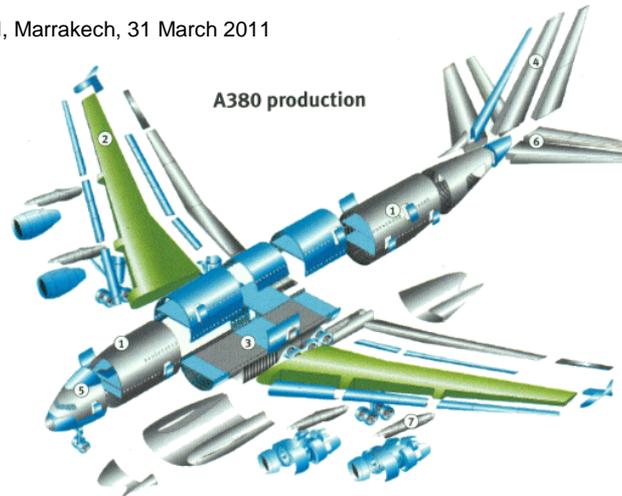


# BUSINESS AVIATION - GLOBAL IN ITS OPERATIONS AND ITS ESSENCE

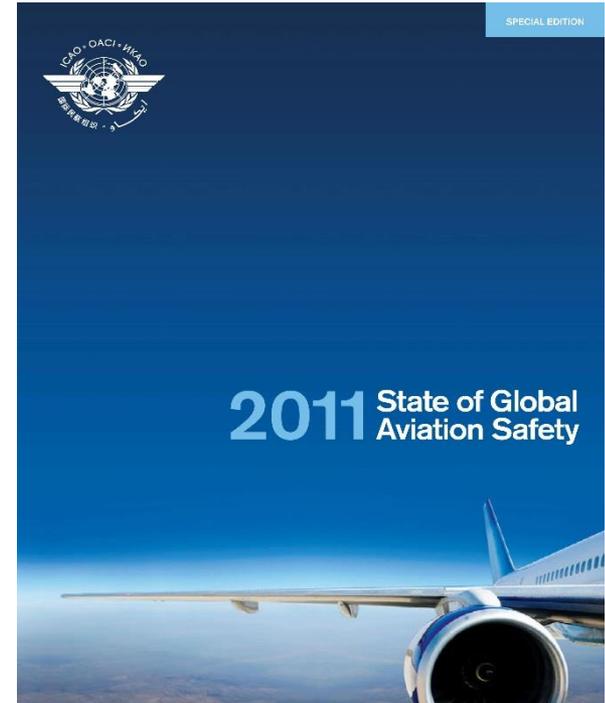
20-year forecast: strong long-term growth



Chamsou Andjorin, Aviation Safety in Africa, ACI, Marrakech, 31 March 2011



- ① Hamburg (All.)
  - ② Broughton (UK)
  - ③ St. Nazaire/Nantes (France)
  - ④ Stade (All.)
  - ⑤ St. Nazaire/Méaulte (France)
  - ⑥ Getafe/Puerto Real (Esp.)
  - ⑦ Toulouse (France)
- AIC manufacturing units
  - Risk-Sharing Partners
  - Risk-Sharing Partners sub-assemblies



ICAO State of Global Safety, Montreal, 2011.





# BUSINESS AVIATION – SHAPING FUTURE





# BUSINESS AVIATION – A GREAT PLACE TO WORK IN BECAUSE OF DIFFERENT ASPECTS

- 1 Fly, navigate and communicate:  
In this order and with appropriate tasksharing
- 2 Use the appropriate level of automation at all times
- 3 Understand the FMA at all times
- 4 Take action if things do not go as expected





**"To invent an airplane is nothing. To build one is something.  
To fly is everything. — Otto Lilienthal"**





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# DNA OF UNIVERSITY EDUCATION



Teleporting of Knowledge



License to Think

25/02/2015



Dr Sikora – A Tale of Two Industries



Tool Box/ Safety Net <sup>7</sup>



# Communities of Practice (CoP)

## “No man is an island”



- Common understanding practices, values, behaviours,
- Joining in common activities,
- Learning through mutual engagement in activities. (Smith 2003)



- Social Learning Theory, Lave and Wenger (1991)
- CoP have lifecycles: they emerge, they grow, and they have life spans, Cambridge et al. (2005)
- The art and practice of the learning organization, Senge (1990)

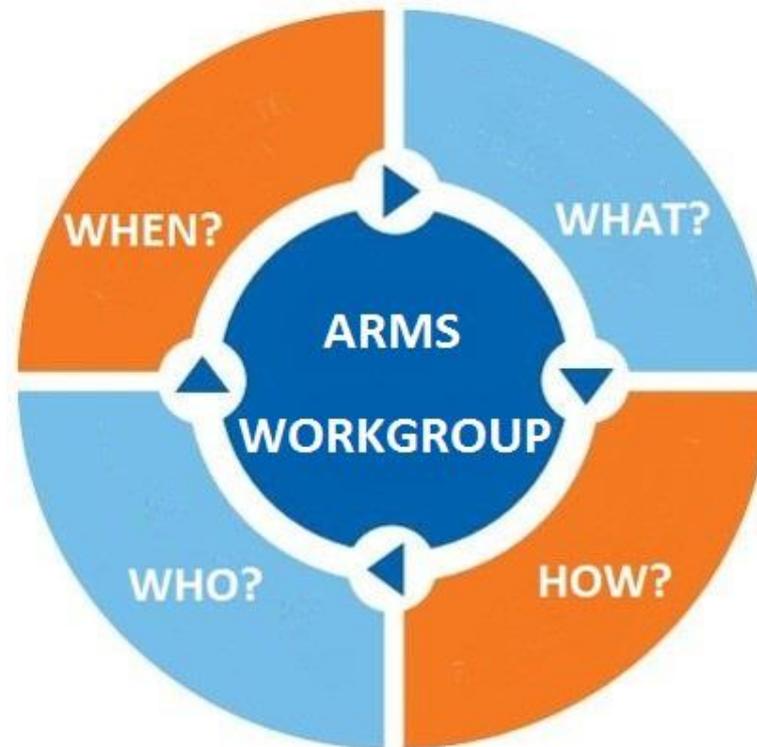


Dr Sikora – A Tale of Two Industries

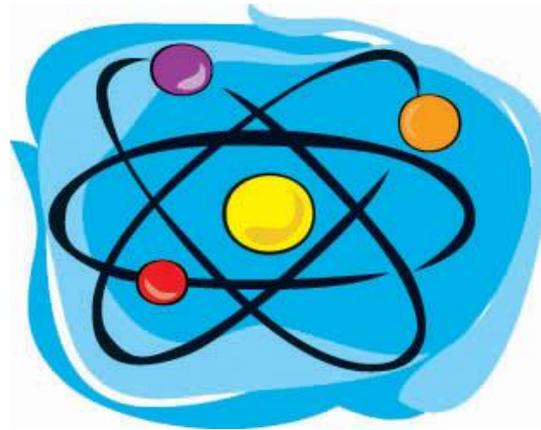
- Video conferencing of students and academics in compressor projects,
- Civil engineering students visiting construction sites,
- Lawyers visiting and observing court proceedings.
- The Professional Pilots Rumour Network (PPRuNe).



# WITH APPROPRIATE KNOWLEDGE AND APPROACH SKY IS THE ONLY LIMIT!

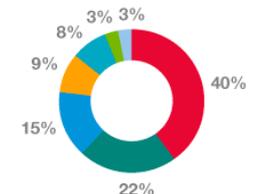


# EDUCATION AND COOPERATION A CHANCE TO MOVE TO THE NEXT LEVEL



## Pilot & Technician Outlook New pilots by region 2012–2031

Region	Pilots
● Asia Pacific	185,600
● Europe	100,900
● North America	69,000
● Latin America	42,000
● Middle East	36,100
● CIS	11,900
● Africa	14,500
<b>Total</b>	<b>460,000</b>



2012 to 2031  
Pilots  
460,000

## Current Market Outlook 2012–2031



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[online] available from <http://stengelangle.com/tagairlines-2>  
[06 December 2012]



# 1966



WHEREAS We did, on the sixth day of April 1966, grant a Charter constituting and founding a University within Greater London by the name of "The City University":

AND WHEREAS the Charter incorporating the City University provided for the constitution and government of the University and the management of its affairs:

AND WHEREAS Articles 1 and 2 of the Charter provided as follows:—

- "1. There shall be and there is hereby constituted and founded in Greater London a University with the name and style of "The City University" (hereinafter called "the University").



## Introduction

- City University London – a cosmopolitan University in the heart of London
- Founded in 1894 with University charter issued 1966. by Her Majesty the Queen
- Its Chancellor is the Lord Mayor of London
- The university's degree ceremonies are held at the historic Guildhall





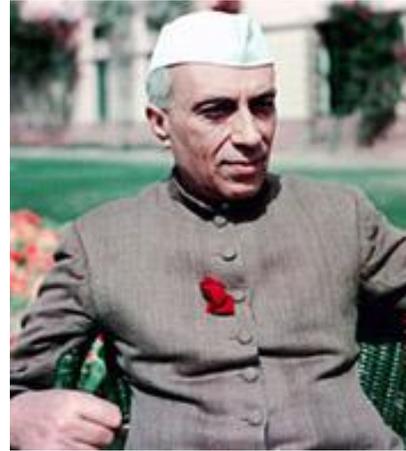
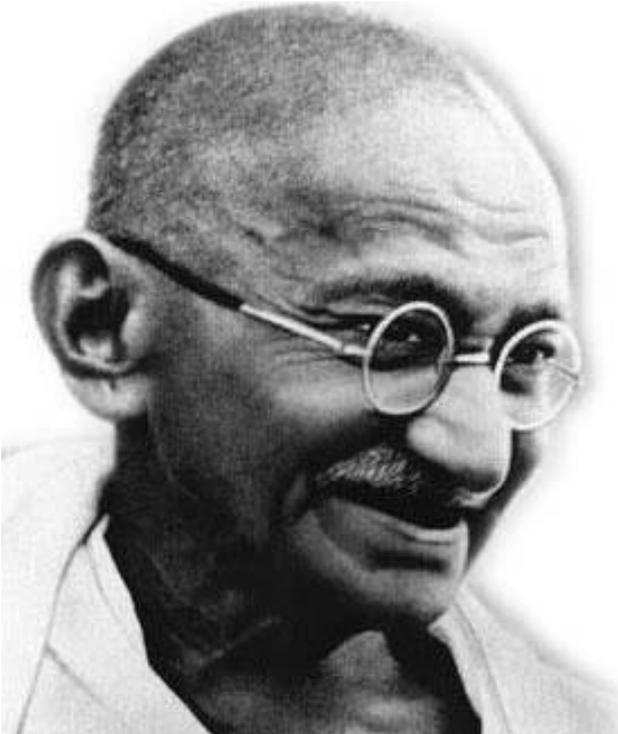
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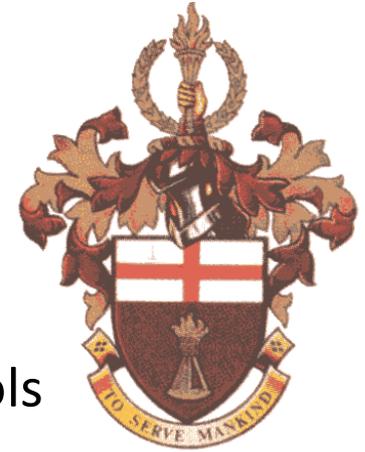
- Mahatma Gandhi
- Jawaharlal Nehru
- Margaret Thatcher
- Tony Blair

## City's Alumni



## City University London - Today

- The University's motto – 'to serve mankind'
- 16500 students (13000 full-time equivalents) in 5 Schools (17500 FTEs including validated students)
- 42% students from over 150 countries (majority from outside EU – 27%); 28% staff from nearly 50 countries outside the UK
- 40% students are postgraduates – one of UK's foremost providers of postgraduate education
- City plays an active role in the business and professional life of London





## City Students' and Academics Say...

City is popular...

- ...good employability,
- ...high proportion of international students and staff.

Student respect their educators...

- ...committed to our students,
- ...feel valued and feel abilities well-used.



## Academic Structure

5 schools representing academic areas

- School of Arts Social Sciences
- Cass Business School
- **School Mathematics, Computer Science and Engineering**
- School of Health Sciences
- The City Law School



## Information on City Programmes and Research (e.g. SMCSE)

Supportive environment for research and development:

CHECK <http://www.city.ac.uk/research>

Current Research Activities in SMCSE:

- Computer Aided Modelling and Design

CHECK <http://www.city.ac.uk/people/academics/sanowar-khan>

- Aeronautical Engineering - Wind Tunnel Facilities (one of 7 in UK)

CHECK <http://www.city.ac.uk/people/academics/christopher-atkin>

- Automotive and Mechanical

CHECK <http://www.city.ac.uk/people/academics/jamshid-nouri>



**"Excellence - the result of continuously trying to be better."**



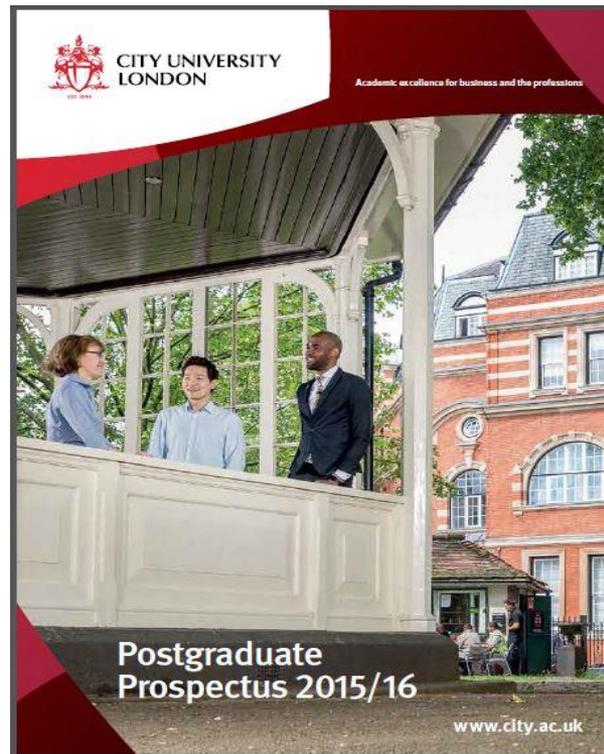


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# City University London Welcomes You





## Selected References

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- Smith, M.K. (2003, 2009) Communities of practice. [online] Available from: <[http://www.infed.org/biblio/communities\\_of\\_practice.htm](http://www.infed.org/biblio/communities_of_practice.htm)> (accessed: 29.03. 2014)
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# Thank You!

# Your Turn 😊

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