Josef KASPAR
Chairman of EREA / VZLU
EREA is a non-profit association with the objectives:

- to promote and represent the joint interests of its members
- to intensify the co-operation between its members
- to improve and intensify the co-operation between EREA and third parties
- to facilitate integrated management of joint activities

CONTRIBUTING TO EUROPE’S ROLE AS A GLOBAL PLAYER IN AERONAUTICS
Multi-disciplinary Research

Aerodynamics

Flight Mechanics

Materials & Structures

Ground Testing

Acoustics
Multi-disciplinary Research

Simulation

Flight Tests

Propulsion

Avionics

Human Factors
Multi-disciplinary Research

Aircraft Operations

Air/Airport Traffic Management

Safety

Environment

Security

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Research Infrastructures

T-1500 WT

IWT

TOWER SIMULATION

DNW

CRASH TOWER

LISA

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EREA in numbers

4,527
Employees in Aeronautics

211
Number of PhD Thesis

15,151
Number of Publications

342
New Patents
The position of EREA

Development & Integration of technologies

Transfer to industry

Production & commercialisation

Industrial partners, Spin-offs, Start-ups

Research

Universities
Growth of Air Traffic

Asia-Pacific airlines to lead in world traffic by 2031

World Traffic by airline domicile (RPK billions)

<table>
<thead>
<tr>
<th>Region</th>
<th>2011 traffic</th>
<th>2012-2031 traffic</th>
<th>% of 2011 world RPK</th>
<th>20-year growth</th>
<th>% of 2031 world RPK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asia-Pacific</td>
<td></td>
<td></td>
<td>28%</td>
<td>5.4%</td>
<td>32%</td>
</tr>
<tr>
<td>Europe</td>
<td></td>
<td></td>
<td>27%</td>
<td>4.1%</td>
<td>24%</td>
</tr>
<tr>
<td>North America</td>
<td></td>
<td></td>
<td>27%</td>
<td>3.3%</td>
<td>20%</td>
</tr>
<tr>
<td>Middle East</td>
<td></td>
<td></td>
<td>7%</td>
<td>7.3%</td>
<td>11%</td>
</tr>
<tr>
<td>Latin America</td>
<td></td>
<td></td>
<td>5%</td>
<td>5.9%</td>
<td>6%</td>
</tr>
<tr>
<td>CIS</td>
<td></td>
<td></td>
<td>3%</td>
<td>5.4%</td>
<td>4%</td>
</tr>
<tr>
<td>Africa</td>
<td></td>
<td></td>
<td>3%</td>
<td>5.0%</td>
<td>3%</td>
</tr>
</tbody>
</table>

20-year world annual traffic growth 4.7%

Source: Airbus
Vision & Strategy
Future Sky goals

**Vision**
Definition of technologies and systems, processes of Flightpath 2050

**Knowledge**
Develop the knowledge for the next ATS generation including complex testing and validation capabilities
Contribute to the education of future engineers

**Attraction**
Make aviation fascinating for the public and attracting the young generation

**Competitiveness**
Analyse and prepare the scientific technological ground for future ATS beyond Clean Sky and SESAR
Programmatic outline
Enablers and Support Projects for 24/7 ATS

TSE 1
SAFE AT

TSE 2
QUIET AT

TSE 3
INTEGRATED AT

TSE 4
LOW ENERGY AT

Research Infrastructures

SP 1 Landside Interfaces
SP 2 The Value of Speed
SP 3 Special Transport

SP = Support Project
TSE = 24/7 Enablers

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