AERONAUTICAL RESEARCH NICHE AREAS – OPPORTUNITIES FOR THE SMALL

Prof. Antonín Kazda
SLOVAKIA BEFORE
THE SECOND WORLD WAR

AGRICULTURAL COUNTRY
AFTER THE II. WW - INDUSTRIALISATION PROGRAMME
MILITARY AEROSPACE SECTOR
POLITICAL DECISIONS:

HAVEL – FACTORIES CLOSURE

MEČIAR – „WILD“ PRIVATISATION

DZURINDA – POLITICAL „MANAGERS“
AEROSPACE EDUCATION

NARROW SPECIALISTS

BROAD OVERVIEW CONCEPT
Public expenditure on education in 2002 as % of GDP

Source: UNESCO Institute for Statistics 2005
EU EU goal –– 3 % in 2010 (2/3 from business sector)

UNIVERSITY OF ŽILINA -- SLOVAKIA

R&D INTENSITY IN 2002:

EU 25 -- 1,93 %
Slovakia -- 0,57 %
US -- 2,76 % (2003)
JAPAN -- 3,12 %

Aerospool, Ltd.

WT 9 Dynamic - two-seat light airplane
VIRTUAL REALITY MEDIA –
Simulations & VR Technologies
ALES inc. –
Automated Aviation Systems

- civil/military applications
- SW trade mark \text{LETVIS}®
- customer specified configuration
Norsonic Slovensko Ltd.

Monitoring of a/c noise at Bratislava Airport

Aircraft radar tracing and noise predictions

Reduction of noise and vibrations
Air Transport Department

- Operation of airports, airlines and ATM
- After 1993 - grants - Scientific Grant Agency
- Applied research for industry
- 5th and 6th Framework Programme
RECENT RESEARCH

- Air Transport Safety Enhancement
- Increasing ATC Systems Safety
- Bratislava ATC assessment in line with ESARR Requirements
- Weather prediction modelling
- Airport Benchmarking
- Bratislava Airport CDM System
FP 5 - 6 RESEARCH

→ MAEVA

→ ASSTAR

→ SWIM-SUIT

→ AirTN - Aeronautics ERA - Net
PROJECT PARTNERSHIP

✈ New EU member?

✈ Research project profile?

✈ Expertise?
UNIVERSITY PARTNERS

- Loughborough University
- Glasgow University
- Universita of Trieste
- Eurocontrol Research Centre Bretigny
- Eurocontrol Research Centre Budapest
- Helios Technology
PROBLEMS AND EXPECTATIONS

→ ARE WE DIFFERENT?

→ ARE THE OLD RULES ADEQUATE?

→ NEW MEMBER STATES INVOLVEMENT

→ POSITIVE DISCRIMINATION – NO!

→ BRAIN DRAIN
When you go out into the world, watch out for traffic, hold hands, and stick together.

Robert Fulghum