



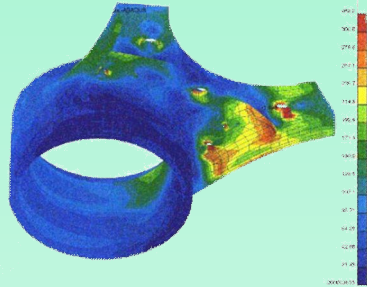
PZL-Świdnik in European Projects Challenges and Opportunities for Polish Industry and Science

Aeronet – Aviation Valley – Rzeszów, 2-3 March 2009

M.Sc. Eng. Paweł Chojnacki – Chief Expert for European Projects

M.Sc. Eng. Zenon Witkowski – Chief of Design Departments, R&D Centre

PZL-Swidnik capabilities



Design ~ 100 designers

Analysis ~20 engineers

Manufacturing – light alloys and composite „clean” structures >3000 employees (~500 engineers)

Testing ~40 engineers/employees (ground) and ~70 pilots/engineers/mechanics (flight)

Trening Center





PZL-Swidnik International Co-operations





Cessna
Textron Company

Messier Buagatti

Fokker

RATIER FIGEAC

ATR

SMITHS Aerospace

STORK[®]

DASSAULT AVIATION

eurocopter
an EADS Company

LATECOER

AIRBUS

AGUSTA

BOEING

Bell Helicopter
A Textron Company

Messier Dowty

Aerospace Services

groupe snecma

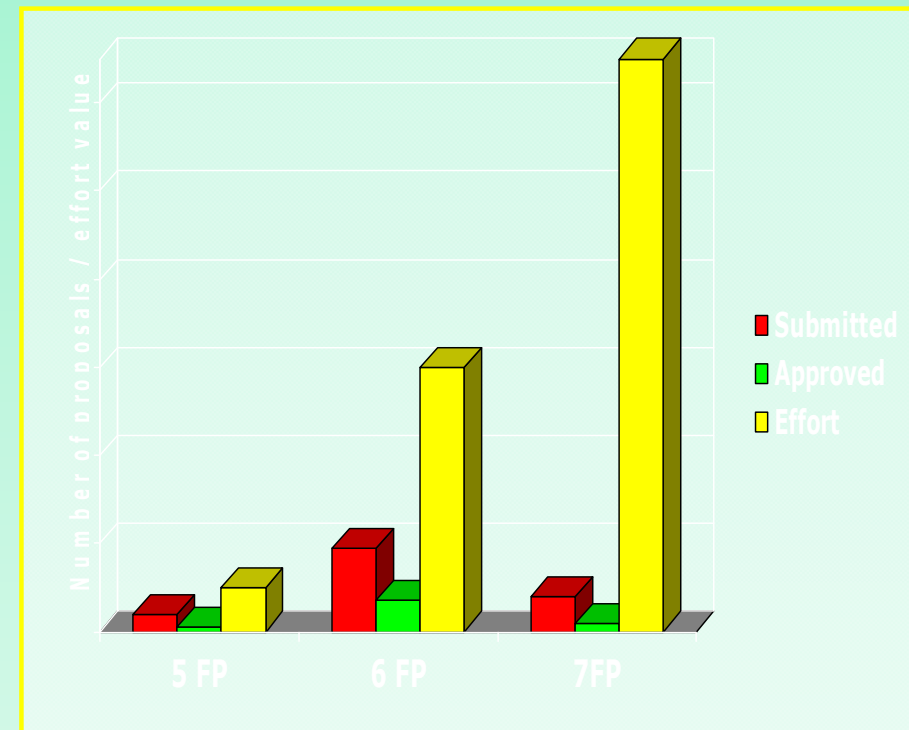


PZL-Swidnik Effort in Framework Programmes

5-th FP - 3 submitted, 1 realised project (1999-2001) [MALVINA]

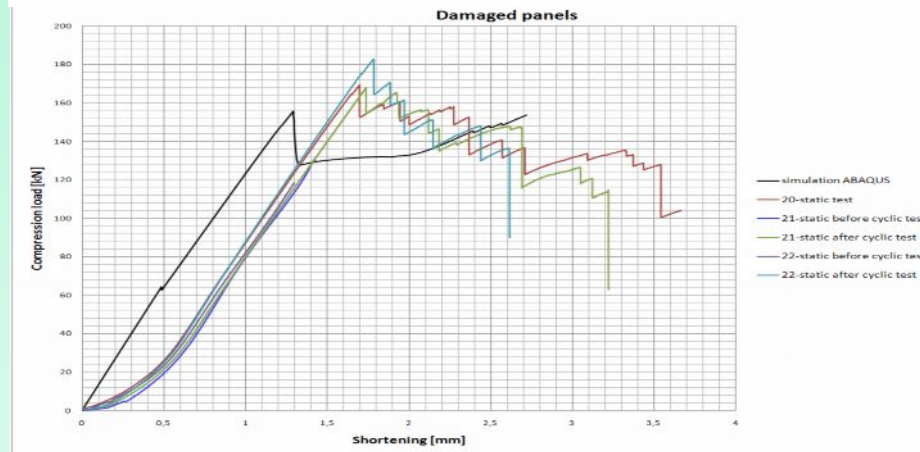
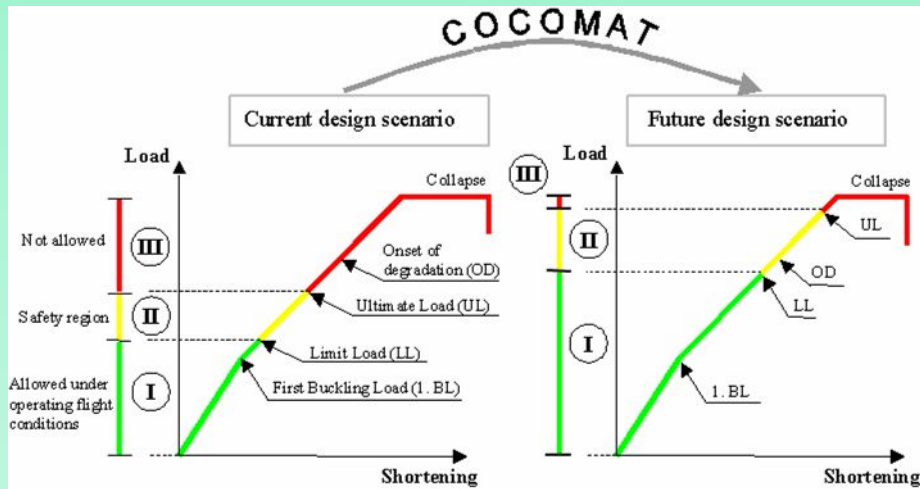
6-th FP – 19 submitted, 7 realised (2002-) [COCOMAT, FOREMAT, FRIENDCOPTER, HELISAFE TA, ADVICE, KMM-NoE, AVALON]

7-th FP – 8 submitted, 2 realised [JTI CleanSky, TRIADE], 3 new expected in 2009





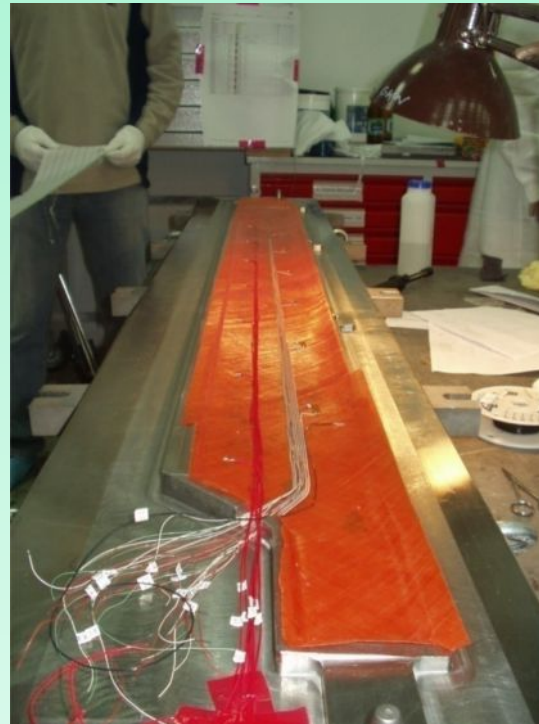
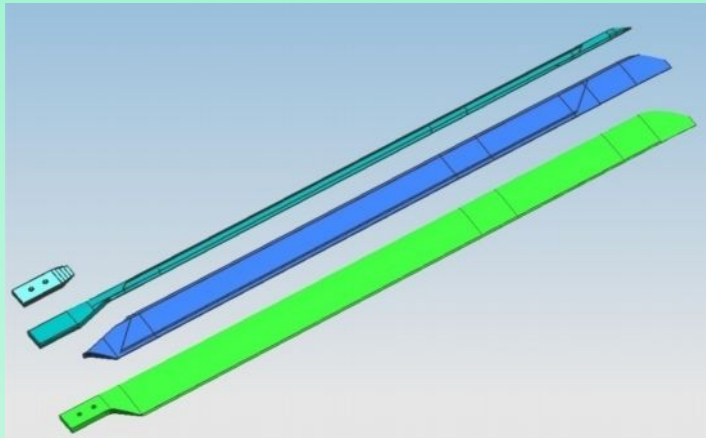
PZL-Swidnik in European Programmes - examples





PZL-Swidnik in European Programmes - examples

FRIENDCOPTER





PZL-Swidnik in European Programmes - examples



“Multifunctional textile structures driving new production and organizational paradigms by textile SME interoperation Across high-added-VALUE sectors for knowledge-based product service creation”



On the basis of Smart Materials – HOPPER SM



PZL-Swidnik in European Programmes - examples



TRIADE

„Development of technology building blocks for structural health monitoring sensing devices in aeronautics”

GRC1 „Innovative Rotor Blades”

GRC2 „Drag Reduction”

GRC3 „Innovative Electrical System”

GRC4 „Installation of a Diesel Engine on a LH”

GRC5 „Friendly Flight Paths”

GRC6 „Eco-Design”

GRC7 „Technology Evaluator for Rotorcraft”

Total budget: >8M€





PZL-Swidnik in EP - Challenges & Opportunities

- ❖ New materials (including smart materials) application on aircrafts
- ❖ Application of new advanced numerical simulation methods allowing to increase part fatigue life and critical surface determination more efficiently
- ❖ Advanced structure monitoring system application on aircrafts
- ❖ Ecological product life managing and its utilization
- ❖ Application of new materials changing the aerodynamical surfaces
- ❖ Application of new advanced technologies of overhauls and repairs
- ❖ Number of European projects focused on composite and smart structures very quick increase to meet new challenges in safety, environmental and performance areas



PZL-ŚWIDNIK S.A.



PZL-Swidnik Challenges & Opportunities





PZL-Swidnik takes part in National Projects – FORESIGHT Poland 2020 and FOREMAT

**PZL-Swidnik is open to international
cooperation and collaboration
in European projects**



Thank you for your attention

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