CHARLIE - Research to revitalization European GA

moderator: Catalin Nae (INCAS)
Topics for discussions

- Novel technologies – transfer/synergy with advanced RTD aerospace achievements
- Structural safety; Life Cycle Extension; Structural Health Monitoring for GA
- Potential concept of CS 23 PLUS - for ATS based on small a/c
- Technology Evaluator of Small Air Transport Aircraft
• Novel technologies – transfer/synergy with advanced RTD aerospace achievements (1)

Can we do the same for GA?
Topics for discussions

• Manufacturing technologies
  • Composite vs “traditional” structure for GA

• Flight control systems for GA
  • Handling qualities
  • Gust alleviation systems for GA

• Avionics for GA
  • Enhanced pilot support

• Certification issues
  • CS-23 regulations
Topics for discussions

- On-condition maintenance
  - HUMS: introduction of a global monitoring system on small aircraft
- Predictive maintenance
  - Pro-active maintenance
- Prognosis and diagnosis
  - on-board monitoring system on aircraft
  - at ground level with industrial expert - all fleet monitoring
- Maintenance on-demand
  - Maintenance-free equipment
  - Disposable electronic
• Potential concept of CS 23 PLUS - for ATS based on small a/c
• Potential concept of CS 23 PLUS - for ATS based on small a/c

Topics for discussions

• SATS in Europe
  • EPATS project
  • CNTAR experience

• New generation of small a/c
  • CESAR project

• ATS based on small a/c
  • International cooperation
  • SESAR JTI

• CS-23 PLUS
Workshop
IoA Warsaw, July 7-8, 2009

• Technology Evaluator of Small Air Transport Aircraft

Integration with partners from PL, CZ and RO:

- Product development from design specifications to certification and testing
- Specific industrial technology development
- Extensive/virtual enterprise organization
- New supply chain
- Joint testing procedures
- Certification issues
- Fleet monitoring and customer support