

CALL 3 TOPICS

| Identification            | ITD - AREA - TOPIC  | topics            | VALUE            | MAX FUND          |
|---------------------------|---|-------------------|------------------|-------------------|
| <b>JTI-CS-ECO</b>         | <b>Clean Sky - EcoDesign</b>  | <b>2</b>          | <b>1.046.000</b> | <b>784.500</b>    |
| JTI-CS-ECO-01             | Area-01 - EDA (Eco-Design for Airframe)   |                   | 400.000          |                   |
| JTI-CS-2010-1-ECO-01-003  | Development of Chromium free dense and thin micro-arc coatings for corrosion protection of light alloys (Al and Mg)   |                   | 400.000          |                   |
| JTI-CS-ECO-02             | Area-02 - EDS (Eco-Design for Systems)  |                   | 646.000          |                   |
| JTI-CS-2010-1-ECO-02-004  | Electrical test bench drive systems: mechanical interfaces  |                   | 646.000          |                   |
| <b>JTI-CS-GRA</b>         | <b>Clean Sky - Green Regional Aircraft</b>  | <b>12</b>         | <b>2.025.000</b> | <b>1.518.750</b>  |
| JTI-CS-GRA-01             | Area-01 - Low weight configurations   |                   | 1.075.000        |                   |
| JTI-CS-2010-1-GRA-01-026  | Reliability Oriented Optimisation of Structural Replacement Strategies  |                   | 150.000          |                   |
| JTI-CS-2010-1-GRA-01-027  | Design and manufacturing of smart composite panels for wing applications and development of structural health monitoring techniques                                     |                   | 120.000          |                   |
| JTI-CS-2010-1-GRA-01-028  | Nano Modification of CFRP Resin   |                   | 80.000           |                   |
| JTI-CS-2010-1-GRA-01-029  | Definition of requirements and tests of practicability  |                   | 75.000           |                   |
| JTI-CS-2010-1-GRA-01-030  | Advanced Lightning tests on a few material types for aviation   |                   | 150.000          |                   |
| JTI-CS-2010-1-GRA-01-031  | Functional laminates development. Components compatibility and feasibility assessment. Industrialization  |                   | 200.000          |                   |
| JTI-CS-2010-1-GRA-01-032  | Resin, Laminate and Industrial Nanoparticles Concept and Application. Industrialization   |                   | 180.000          |                   |
| JTI-CS-2010-1-GRA-01-033  | Trade-off study for the ranking of new technologies best fitting wing   |                   | 120.000          |                   |
| JTI-CS-GRA-02             | Area-02 - Low noise configurations  |                   | 800.000          |                   |
| JTI-CS-2010-1-GRA-02-007  | Wing/pylon/nacelle/HLD for advanced regional TF A/C configuration by multidisciplinary design with aero-elastic constrains  |                   | 450.000          |                   |
| JTI-CS-2010-1-GRA-02-008  | Efficient CFD multiphysics programming research   |                   | 150.000          |                   |
| JTI-CS-2010-1-GRA-02-009  | Adaptive wing structure concept for load matching   |                   | 200.000          |                   |
| JTI-CS-GRA-03             | Area-03 - All electric aircraft   |                   |                  |                   |
| JTI-CS-GRA-04             | Area-04 - Mission and trajectory Management   |                   | 150.000          |                   |
| JTI-CS-2010-1-GRA-04-002  | ATM operational requirements (collection of information regarding ATM operational requirements, available regulation, safety requirements and future expected features) |                   | 150.000          |                   |
| JTI-CS-GRA-05             | Area-05 - New configurations  |                   |                  |                   |
| <b>JTI-CS-GRC</b>         | <b>Clean Sky - Green Rotorcraft</b>   | <b>4</b>          | <b>4.844.000</b> | <b>3.633.000</b>  |
| JTI-CS-GRC-01             | Area-01 - Innovative Rotor Blades   |                   | 400.000          |                   |
| JTI-CS-2010-1-GRC-01-004  | Performance/benefit assessment of advanced rotor configurations including active and passive blades   |                   | 400.000          |                   |
| JTI-CS-GRC-02             | Area-02 - Reduced Drag of rotorcraft  |                   | 1.725.000        |                   |
| JTI-CS-2010-1-GRC-02-004  | Contribution to design optimisation of tiltrotor for drag (fuselage/wing junction, nose, landing gear, empennage)   |                   | 898.000          |                   |
| JTI-CS-2010-1-GRC-02-005  | Contribution to the aerodynamic design optimisation of a helicopter fuselage including its rotating rotor head.   |                   | 827.000          |                   |
| JTI-CS-GRC-03             | Area-03 - Integration of innovative electrical systems  |                   |                  |                   |
| JTI-CS-GRC-04             | Area-04 - Installation of diesel engines on light helicopters   |                   | 497.000          |                   |
| JTI-CS-2010-1-GRC-04-002  | Participation to the definition of optimal helicopter architecture for Diesel engine  |                   | 497.000          |                   |
| JTI-CS-GRC-05             | Area-05 - Environmentally friendly flight paths   |                   |                  |                   |
| <b>JTI-CS-SAGE</b>        | <b>Clean Sky - Sustainable and Green Engines</b>  | <b>1</b>          | <b>1.000.000</b> | <b>750.000</b>    |
| JTI-CS-SAGE-01            | Area-01 - Geared Open Rotor   |                   |                  |                   |
| JTI-CS-SAGE-02            | Area-02 - Direct Drive Open Rotor   |                   |                  |                   |
| JTI-CS-SAGE-03            | Area-03 - Large 3-shaft turbofan  |                   |                  |                   |
| JTI-CS-2010-1-SAGE-03-001 | Fan annulus filler development  |                   | 1.000.000        |                   |
| JTI-CS-SAGE-04            | Area-04 - Geared Turbofan   |                   |                  |                   |
| JTI-CS-SAGE-05            | Area-05 - Turboshaft  |                   |                  |                   |
| <b>JTI-CS-SFWA</b>        | <b>Clean Sky - Smart Fixed Wing Aircraft</b>  | <b>18</b>         | <b>6.350.000</b> | <b>4.762.500</b>  |
| JTI-CS-SFWA-01            | Area01 – Smart Wing Technology  |                   | 5.850.000        |                   |
| JTI-CS-2010-1-SFWA-01-004 | Support of icing-tests (runback-ice behaviour of surfaces) and icing mechanisms   |                   | 230.000          |                   |
| JTI-CS-2010-1-SFWA-01-005 | Support of development of riblet-application device   |                   | 260.000          |                   |
| JTI-CS-2010-1-SFWA-01-006 | Concept for automated riblet-application (robot-concept)  |                   | 260.000          |                   |
| JTI-CS-2010-1-SFWA-01-007 | In field surface inspection tool (for bonded repair)  |                   | 150.000          |                   |
| JTI-CS-2010-1-SFWA-01-008 | Construction and assembly of a prototype surface pre-treatment tool for in-field use  |                   | 150.000          |                   |
| JTI-CS-2010-1-SFWA-01-009 | Prototype of curing tool  |                   | 150.000          |                   |
| JTI-CS-2010-1-SFWA-01-010 | Phased array ultrasound and NDT measurements  |                   | 150.000          |                   |
| JTI-CS-2010-1-SFWA-01-011 | Prefabricated CFRP Parts  |                   | 150.000          |                   |
| JTI-CS-2010-1-SFWA-01-012 | Concept study: Cleaning device for wing leading edge  |                   | 40.000           |                   |
| JTI-CS-2010-1-SFWA-01-013 | Active Flow Control (AFC) techniques on trailing edge shroud for improved high lift configurations - design, manufacture and tests                                      |                   | 460.000          |                   |
| JTI-CS-2010-1-SFWA-01-014 | Manufacturing of the test set up for gust load alleviation in the Onera S3Ch WT facility  |                   | 400.000          |                   |
| JTI-CS-2010-1-SFWA-01-015 | Development and test of a fluidic actuator prototype (MEMS type) on aircraft level  |                   | 190.000          |                   |
| JTI-CS-2010-1-SFWA-01-016 | Ultra low power autonomous wireless stain gauge data acquisition unit   |                   | 800.000          |                   |
| JTI-CS-2010-1-SFWA-01-017 | Fluidic sensor for separation detection in flight – development, design, C&M, and tests   |                   | 610.000          |                   |
| JTI-CS-2010-1-SFWA-01-018 | Development and test of subsystem of active flow control actuator based on pneumatic principles   |                   | 290.000          |                   |
| JTI-CS-2010-1-SFWA-01-019 | Flow Control Actuator System development, manufacture and demonstration for high lift   |                   | 620.000          |                   |
| JTI-CS-2010-1-SFWA-01-020 | Structural designs and tests for integration of active flow control concepts on trailing edge high lift device  |                   | 940.000          |                   |
| JTI-CS-SFWA-02            | Area02 – New Configuration  |                   | 500.000          |                   |
| JTI-CS-2010-1-SFWA-02-006 | Design and manufacture of a ground-based structural/systems demonstrator  |                   | 500.000          |                   |
| JTI-CS-SFWA-03            | Area03 – Flight Demonstrators   |                   |                  |                   |
| <b>JTI-CS-SGO</b>         | <b>Clean Sky - Systems for Green Operations</b>   | <b>8</b>          | <b>3.545.000</b> | <b>2.658.750</b>  |
| JTI-CS-SGO-01             | Area-01 - Definition of Aircraft Solutions and exploitation strategies  |                   |                  |                   |
| JTI-CS-SGO-02             | Area-02 - Management of Aircraft Energy   |                   | 3.245.000        |                   |
| JTI-CS-2010-1-SGO-02-012  | Saber Electrical Benchmark  |                   | 200.000          |                   |
| JTI-CS-2010-1-SGO-02-013  | Test Bench for global cooling solutions validation  |                   | 500.000          |                   |
| JTI-CS-2010-1-SGO-02-014  | Construction of evaluation Power Modules (10) to a given design   |                   | 175.000          |                   |
| JTI-CS-2010-1-SGO-02-015  | Current return simulation (methodology & tool)  |                   | 300.000          |                   |
| JTI-CS-2010-1-SGO-02-016  | Thermal exchange modeling and power optimization  |                   | 500.000          |                   |
| JTI-CS-2010-1-SGO-02-017  | Integration study of Electro-thermal and Electro-mechanical Ice Protection devices in an A320 slat.   |                   | 370.000          |                   |
| JTI-CS-2010-1-SGO-02-018  | Design, manufacturing, integration and validation of AFD function   |                   | 1.200.000        |                   |
| JTI-CS-SGO-03             | Area-03 - Management of Trajectory and Mission  |                   | 300.000          |                   |
| JTI-CS-2010-1-SGO-03-007  | Parametric optimisation techniques for on-board trajectory shaping under constraints  |                   | 300.000          |                   |
| JTI-CS-SGO-04             | Area-04 - Aircraft Demonstrators  |                   |                  |                   |
| JTI-CS-SGO-05             | Area-05 - Aircraft-level assessment and exploitation  |                   |                  |                   |
| <b>JTI-CS-TEV</b>         | <b>Clean Sky - Technology Evaluator</b>   | <b>0</b>          |                  |                   |
|                           |   | <b>topics</b>     | <b>VALUE</b>     | <b>FUND</b>       |
|                           |   | <b>totals (€)</b> | <b>45</b>        | <b>18.810.000</b> |
|                           |   |                   |                  | <b>14.107.500</b> |