# Aviation Safety and Certification of new Operations and Systems

## Fact Sheet

<table>
<thead>
<tr>
<th>Project Information</th>
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<tbody>
<tr>
<td>ASCOS</td>
<td>Funded under FP7-TRANSPORT</td>
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<tr>
<td>Grant agreement ID: 314299</td>
<td>Overall budget € 4 618 591,40</td>
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<td>Project website [🔗]</td>
<td>EU contribution € 3 365 884</td>
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<td>Status</td>
<td>Coordinated by STICHTING NATIONAAL LUCHT-EN RUIMTEVAARTLABORATORIUM Netherlands</td>
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<td>Closed project</td>
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<tr>
<td>Start date</td>
<td>End date</td>
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<tr>
<td>1 July 2012</td>
<td>30 September 2015</td>
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## Objective

"Fundamental changes in the institutional arrangements for aviation regulation in Europe, the introduction of new technologies and operations, and demands for higher levels of safety performance call for the adaptation of existing certification processes. Therefore, the main objective of ASCOS is to develop novel certification process adaptations and supporting safety driven design methods and tools to ease the certification of safety enhancement systems and operations, thereby increasing safety. The proposed project will follow a total system approach, dealing with all aviation system elements in an integrated way over the complete life-cycle. To investigate how dealing with all safety and certification aspects in an integrated manner may be made possible using a new process, new methods and new tools, ASCOS contains work packages on Certification processes, Continuous Safety Monitoring, and Safety Risk Management. Four case studies will be conducted to validate the processes, methods and tools proposed. The case studies include the..."
certification of aircraft failure management systems, a future ATM/CNS system for improved surveillance, aircraft systems for improved controllability in flight, and aircraft ground handling operations. A very strong already established User Group will keep the project focused and facilitate the uptake of project results. ASCOS will provide efficient and affordable certification process adaptations for new aeronautical systems and operations. ASCOS provides safety based design systems and tools that better account for the human element, already from the early stages of the certification process, thereby reducing consequences of human error and increasing safety."

Field of science

/social sciences/sociology/governance/crisis management
/engineering and technology/mechanical engineering/vehicle engineering/aerospace engineering/aircraft

Programme(s)

Topic(s)

Call for proposal

FP7-AAT-2012-RTD-1

Funding Scheme

CP-FP - Small or medium-scale focused research project

Coordinator

STICHTING NATIONAAL LUCHT- EN RUIMTEVAARTLABORATORIUM

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Anthony Fokkerweg 2
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Activity type

Research Organisations

EU contribution

€ 994 700

Website

Contact the organisation

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Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation
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CIVIL AVIATION AUTHORITY
United Kingdom
EU contribution
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Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

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INGENIERIA DE SISTEMAS PARA LA DEFENSA DE ESPANA SA-SME MP
Spain
EU contribution
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Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

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CERTIFLYER BV
Netherlands
EU contribution

EU contribution

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Activity type

Private for-profit entities
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Website

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AVANSSA LDA

Portugal

EU contribution

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Activity type

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(excluding Higher or Secondary Education Establishments)

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United Kingdom

EU contribution

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Activity type

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(excluding Higher or Secondary Education Establishments)

Website

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Jason Denness (Mr.)

DEEP BLUE SRL

Italy

EU contribution
EU contribution

**EU contribution**

€ 291 600

**Address**

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**Activity type**

Private for-profit entities (excluding Higher or Secondary Education Establishments)

**Website**

Contact the organisation

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**JRC - JOINT RESEARCH CENTRE - EUROPEAN COMMISSION**

Belgium

**EU contribution**

€ 145 510

**Address**

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**Activity type**

Research Organisations

**Website**

Contact the organisation

---

**JEAN-PIERRE CLAUDE MAGNY**

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**EU contribution**

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**Activity type**

Private for-profit entities (excluding Higher or Secondary Education Establishments)

**Contact the organisation**

**Administrative Contact**

Jean Pierre Magny (Dr.)

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**TECHNISCHE UNIVERSITEIT DELFT**

Netherlands

**EU contribution**

€ 139 575
SIEC BADAWCZA LUKASIEWICZ-INSTYTUTLOTNICTWA

Poland
EU contribution
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