

ESAC

ESkişehir Aviation Cluster



ESAC

ESkişehir Aviation Cluster



A single source center for your aviation needs

- Electrical - Electronics
- Sheet Metal forming
- Tool and jigs manufacturing
- Precision Turning
- engine parts manufacturing
- Composite part design and manufacturing
- Precision Milling
- Wing and Body Structural parts
- Cable and wiring harness
- Special processes and NADCAP certified surface treatments
- Assembly and Integration

Havacılıkta çözüm Eskişehir’de...

Look no further. The answer is in Eskişehir...



Eskişehir Aviation Cluster

established in March 2011

- By companies who serves in the aviation sector,
- Representatives of institutions that provides training and education for Aviation
- Experts in the sector who will contribute to the development of the sector





Cluster's Vision

To be able to rank among the best aviation clusters of the world for our advance production, design, R&D, innovation among the members in addition to qualified work force and supply chain system.

Cluster's Mission

To provide solutions to aviation market by ensuring sustainable growth of the members based on value-added design, quality, R&D, innovation, production and procurement processes that can compete globally.



Why Clustering in Eskişehir?

To join forces in aviation sector by using :

- Long Aviation History of Region,
- Experience of companies,
- Capabilities,
- Infrastructure of Industry
- Universities,
- Geographical advantages,
- Experienced and Trained labor,





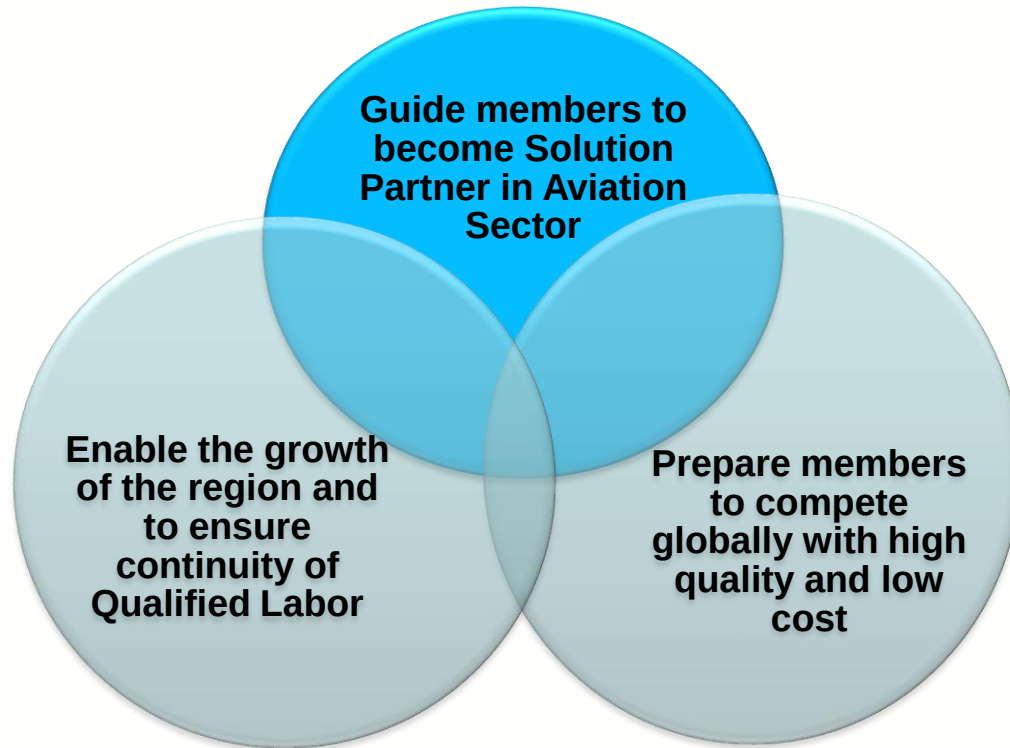
Goals of Cluster

Establish network of cooperation among the companies in aviation industry and lead to the creation of national and international ties for all members

- To encourage R & D work, innovation and entrepreneurship,
- To establish commercial, cultural and professional relationships among partners,
- Coordinated Management of Knowledge and Resources,
- Common Advanced Technology Infrastructure



Primary Tasks of Our Cluster





Services and Products from our Members:

- Design and Development
- Electrical - Electronics
- Simulation and test facilities
- Composite Material
- Advanced bench infrastructure
- Metal engine parts
- Sheet Metal forming
- Structural parts
- Plastics - rubber
- Engine and engine components
- Special processes
- Cable and wiring harness
- System integration
- Assembly

Member Profile



Havacılıkta çözüm Eskişehir’de...

Look no further. The answer is in Eskişehir...



Company Information: Tusaş Motor Sanayi A.Ş.

Foundation Year: 1985

Number of Employees: 1100

Field of Activity: Manufacturing of aircraft engine parts, engine installation and test, engineering and technical services, research and development, procurement and sales of aircraft engine parts

Area(m2): Open space: 580.500 m² , closed space: 68.290 m²

Quality Certifications: AS 9100,ISO 9001:2008, ISO14001:2004,OHSAS18001:2007,ISO 27001

References: GE,Snecma, Techspace Aero, ITP, Thales, Rolls Royce, THY, Namsa, MTU, Samsung

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Web: www.tei.com.tr



Geleceęe uçuyoruz ...
Fly to the future ...



Alp Havacılık

Company Information : Alp Havacılık

Foundation Year: 1998

Number of Employees : 352

Field of Activity : Helicopter engine parts, aircraft engine parts, machining

Space(m2): 22500

Quality Certifications : AS 9100, ASQR-01, NADCAP

References: Sikorsky, Boeing, Airbus, Pratt&Whitney, Lockheed Martin, Goodrich, TAI, Hamilton Sundstrand

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Web: www.alp.com.tr



Aviation solution provider ...

Havacılıkta çözüm sağlayıcı ...



Savronik

Company Information : Savronik

Foundation Year : 1986

Number of Employees : 370

Field of Activity: Fire control Systems, Secure Communications Systems, Automatic Train Stopping Systems, Data Collection Control Systems, Monitoring Systems, Power Control Systems

Space(m2): Open Space 30.000 m² , closed space 3.500 m²

Quality Certifications : AQAP 2110, ISO 9001:2001, ISO 14001, ISO 18001

References: TCDD, TÜLOMSAŞ, CAF, THALES, TAI, ASELSAN, TEI

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Web: www.savronik.com.tr



ESAC Gökyüzünün kanatları ...

ESAC Wings of the sky ...



Company Information: Coşkunöz Savunma ve Havacılık

Foundation Year: 2007

Number of Employees: 85

Field of Activity : Aircraft parts, manufacturing of aircraft structural parts, fixture designs and light assembly

Space(m2): 18.000

Quality Certifications: AS 9100, ISO 9001, ISO 14001, OHSAS 18001

References: TAI, KMWE, Boeing, Airbus, LM, TEI, Premium Aerotec, Diehl

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Web: www.csh.com.tr





Company Information : Aycan Havacılık

Foundation Year : 1997

Number of Employees : 48

Field of Activity : Manufacturing of precise aircraft engine parts, assembly

Space(m2): 1.500

Quality Certifications : AS 9100 Rev.C, ISO 9001:2008, NADCAP

References: : TEI, GEAE, FNSS, ALP Aviation, ITP, TAI

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Fax: +90 222 236 2032

E-mail: info@aycanaviation.com

Web: www.aycanaviation.com



Kaliteli ve Sertifikalı ...

Qualified and Certified ...



Company Information : Turbomak

Foundation Year : 2004

Number of Employees : 27

Field of Activity : Motor vehicles , parts and other manufacturing industry

Space(m2): 2000

Quality Certifications : AS 9100, ISO 9001:2000, TAI Supplier Certification, TEI Supplier Certification, Aubert & Duval, Supplier Certification

References: TEI, TAI , Aubert & Duval France, FNSS

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Web: www.ejs.com.tr



Havacılıkta çözüm Eskişehir’de...

Look no further. The answer is in Eskişehir...



Company Information : Nümerik

Foundation Year : 2002

Number of Employees : 30

Field of Activity : Manufacturing of aircraft engine parts, freeze works, manufacturing of mold, design of model and mold, coupling fixtures

Space(m2): 1500

Quality Certifications : AS 9100, ISO 9001:2000

References: TEI, TAI, ASELSAN, ROKETSAN

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Web: www.numerik.com.tr



Geleceęe uęuyoruz ...
Fly to the future ...



Company Information : Hisarlar

Foundation Year : 1973

Number of Employees : 800

Field of Activity : Agricultural machinery, chassis, metal components, operator containers

Space(m2): 45.000 m²

Quality Certifications : TS EN ISO 9001:2008, TS EN ISO 14001, TS 18001:2008, DIN 18800-7/DIN 15018, EN 15085, DIN EN ISO3834-2

References: Agco, Atlas, Bombardier, ukurova, TEI, Caterpillar

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ESAC Gökyüzünün kanatları ...

ESAC Wings of the sky ...



ARIKAN

KRİKO ve MAK. SAN. TİC. A.Ş.

Company Information : Arıkan

Foundation Year : 1975

Number of Employees : 360

Field of Activity : Car lifting jacks, automotive metal sheet parts, metal sheet parts mold, vehicle door hinge, truck sun roofs

Space(m2): 40.000

Quality Certifications : ISO / TS 16949, ISO 14001, Ford Q1

References: TEI, FNSS, Ford, Toyota, Volvo, Renault, Dacia, Fiat

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Web: www.arikanautomotive.com - www.arikanaviation.com



Aviation solution provider ...
Havacılıkta çözüm sağlayıcı ...



Company Information : Aydingör

Foundation Year : 1965

Number of Employees : 44

Field of Activity: Engine parts, gear, flange, blade, aircraft engine parts

Space(m2): 5740

Quality Certifications: ISO 9001:2000, TEI Approved Supplier

References : TEI, Alp Aviation, Coşkunöz

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Web: www.aydingormakina.com.tr





Company Information : Karcan

Foundation Year : 1996

Number of Employees : 55

Field of Activity : Cutting tool manufacturing

Space(m2): 1000

Quality Certifications : ISO 9001:2000

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Web: www.karcan.com



Kaliteli ve Sertifikalı ...

Qualified and Certified ...



Company Information : Derin Makina

Foundation Year : 2007

Number of Employees : 12

Number of Employees : Aircraft engine parts manufacturing

Space(m2): 380 m2

Quality Certifications: ISO 9001

References : TEI, Kale Kalıp, Kale Aviation

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Fax: +90 222 246 0022

E-mail: info@derinmakina.com.tr

Web: www.derinmakina.com.tr



Havacılıkta çözüm Eskişehir’de...

Look no further. The answer is in Eskişehir...



Company Information : Busel Makina

Foundation Year : 2005

Number of Employees : 20

Field of Activity : Machine parts, spare parts, lathe and freeze works, cutting tool manufacturing

Space(m2) : 800

Quality Certifications : ISO 9001:2008

References : TEI, Alp Aviation, Coşkunöz, Aycan Makina, Turbomak

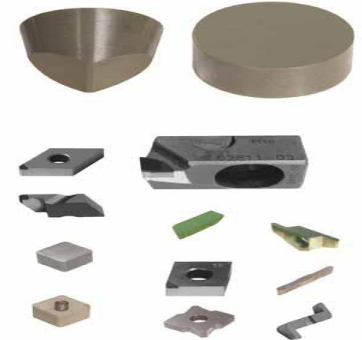
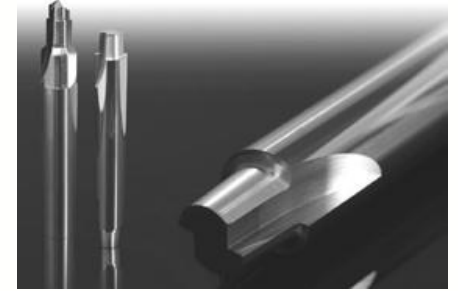
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Fax : +90.222.236.91.41

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Web : www.buselmakina.com.tr



Geleceęe uçuyoruz ...
Fly to the future ...



AKBEY

Company Information : Akbey Mühendislik

Foundation Year : 2008

Number of Employees : 13

Field of Activity : Design and engineering of Aviation systems, parts and fixtures

Space(m2): 650

Quality Certifications : AS9100 (in processing)

References : TEI

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E-mail: akselozturk@akbeymuhendislik.com

Web: www.akbeymuhendislik.com



ESAC Gökyüzünün kanatları ...

ESAC Wings of the sky ...



Company Information : Tomris Makina Sanayi ve Ticaret Ltd. Şti.

Foundation Year : 1965

Number of Employees : 20

Field of Activity: Aircraft engine part manufacturing, fixture, mold manufacturing, machine manufacturing

Space(m2): 2000

Quality Certifications : ISO 9001:2000 pending request

References : TEI, GEAE, COSKUNÖZ, TAI, ALP Havacılık

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Web: www.tomrismakina.com



ESAC Gökyüzünün kanatları ...

ESAC Wings of the sky ...



Company Information : Mikron Mühendislik

Foundation Year : 1985

Number of Employees : 35

Field of Activity: Special processes

Space(m2): 2000

Quality Certifications : AS 9100, Rev.C, ISO-9001, NADCAP

References : TAI, ALP Havacılık, GE, Boeing, Airbus, KAI, Coskunoz, Kucukpazarlı

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Fax: +90 312 394 91 22

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Web: www. mikronmuhendislik.com



Aviation solution provider ...
Havacılıkta çözüm sağlayıcı ...



Company Information : Lider Teknoloji Geliştirme

Foundation Year : 2005

Number of Employees : 5

Field of Activity: R&D, production, integration, business and support services at software and hardware levels in the field of electrical, electronics, machine, computer and all communication systems

Space(m2): 110

References TÜBİTAK

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Web: www.liderteknoloji.com



ESAC Gökyüzünün kanatları ...

ESAC Wings of the sky ...



Company Information: Zet Redüktör

Foundation Year : 1977

Number of Employees : 41

Field of Activity : Gear and gear box manufacturing

Space (m2): 8.500

Quality Certifications : ISO 9000:2008

References : Alp Aviation, CAF

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web: www.zetreduktor.com



Havacılıkta çözüm Eskişehir’de...

Look no further. The answer is in Eskişehir...



Company Information : Öz Makine Sanayi

Foundation Year : 1998

Number of Employees : 5

Field of Activity : Machining for aviation sector on 4X, 5X machining centers. Primarily bushings.

Space(m2): 240

Quality Certifications: ISO 9001-2008

References: Alp Havacılık Sanayi A.Ş.

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Telephone: 0222 228 06 06

Fax: 0222 228 06 07

E-mail: ozmakinasanayi@ttnet.com



Geleceğe uçuyoruz ...
Fly to the future ...



Company Information : Alfatec İleri Teknoloji Savunma ve Havacılık Sanayi

Foundation Year : 2005

Number of Employees : 10

Field of Activity : Aircraft engine part manufacturing, fixture, mold manufacturing, machine manufacturing

Space(m2): 5000

Quality Certifications: As9100 Rev C, ISO 9001:2008

References: TEI

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Web: www.alfatec.com.tr



Geleceğe uçuyoruz ...
Fly to the future ...



Company Information : ENDEL Endüstri Elektrik San ve Tic. A.Ş.

Foundation year: 1978

Number of Employees : 1352

Field of Activity : Cable grouping activities, the production of condenser and wire baskets, wire and tube bending, welding operations, machine design and manufacture of special machines

Space(m2): 33352

References: Arçelik,Vestel,B/S/H Group, Fagor Group,Candy, Dometic,UK SNAB,Baymak

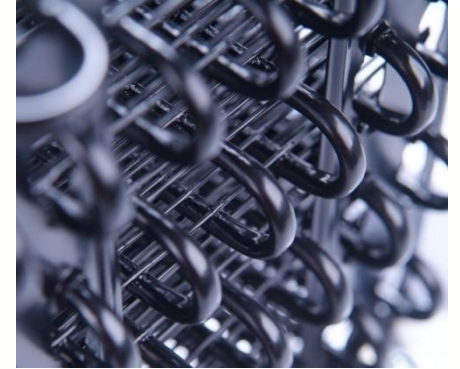
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Web: www.endel.com



Havacılıkta çözüm Eskişehir’de...

Look no further. The answer is in Eskişehir...



Company Information : Atard Savunma Ve Havacılık Sanayi İleri Teknoloji Uygulamaları Araştırma Ve Geliştirme A.Ş.

Foundation year:2010

Number of Employees 36

Field of Activity : Composite parts manufacturing, engineering services, aerospace and defense industry applications for the manufacture of composite and metal structures design and analysis

Space(m2): 3500

References: Airbus,Alenia,Roketsan ,TAI, Aselsan, Meteksan, MKEK, THY Technic, Korea Aerospace Industry, Turkish Cabin Interior,TSI,Otokar,Arçelik, Demirdöküm

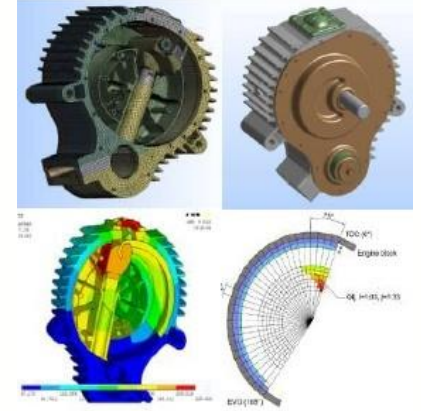
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Web: www.atard.com.tr



ESAC Gökyüzünün kanatları ...

ESAC Wings of the sky ...



Company Information: Gate Elektronik Sanayi ve Ticaret A.Ş.

Foundation Year: 1989

Number of Employees: 244

Field of Activity: Electronic combat systems, unmanned systems, air traffic management systems, test systems and equipment, simulation systems, security and tracking systems, communications, and command and control systems

Spacem2): 13.000

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Web: www.gateelektronik.com.tr



Geleceęe uçuyoruz ...
Fly to the future ...



Company Information: Figes A.Ş.

Foundation Year 1990

Number of Employees: 61

Field of Activity: Mechanical design, prototyping, manufacturing, structural analysis, fluid dynamics, electromagnetics, acoustics, motion control systems, system modeling

Space(m2): 2000

References: Mercedes Benz, Tofaş, Ford, BMV, Otokar, Renault, MAN, THY, MAKO, TIRSAN, Aselsan, Roketsan, TEI, TAI, Havelsan

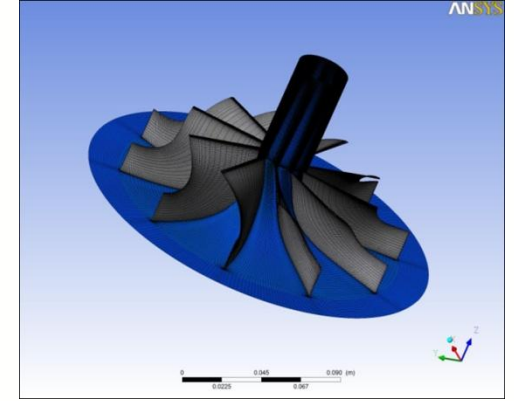
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Web: www.figes.com.tr



Havacılıkta çözüm Eskişehir’de...

Look no further. The answer is in Eskişehir...



Company Information: STM Savunma Teknolojileri Mühendislik ve Ticaret A.Ş.

Foundation Year 1991

Number of Employees: 476

Field of Activity: STM was established in 1991 by the decree of the Defence Industry Executive Committee to provide system engineering, technical support, project management, technology transfer and logistics support services for Turkish Armed Forces (TAF) and Undersecretariat for Defence Industries (SSM).

Space(m2):9000

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Aviation solution provider ...
Havacılıkta çözüm sağlayıcı ...



Kuruluş Bilgileri: Tayyar Tasarım ve İmalat

Kuruluş Yılı: 2014

Çalışan Sayısı: 5

Faaliyet Alanı: Savunma, havacılık, raylı sistemler ve diğer sanayi alanlarında kullanılan mekanik sistemlerin tasarımı, geliştirilmesi, imalatı ve projelendirmesini yapmak, Ar-Ge çalışmaları yürütmek, bu doğrultuda diğer firma, üniversite veya araştırma kurumları ile işbirliği yapmak, türbinli havacılık motorları başta olmak üzere tasarım ve imalat konularında danışmanlık hizmetleri sunmak.

Alan(m2): 320

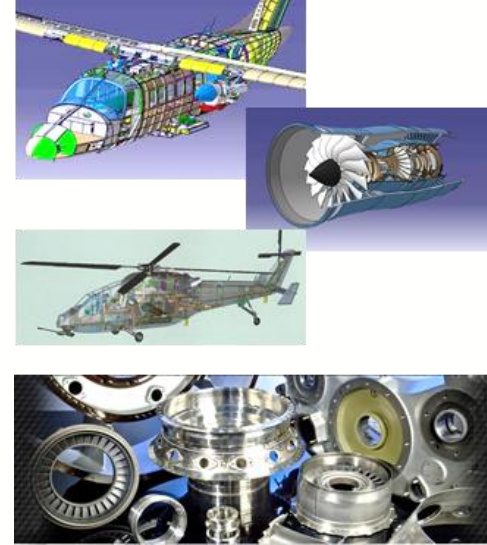
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Havacılıkta çözüm Eskişehir'de...

Look no further. The answer is in Eskişehir...



Have access to more resources via building

AVIATION VALLEY

Ankara- Eskişehir-İzmir

Cooperation – Alliance

**Goal: Create a single stop resource for all
aviation needs**



ESAC Gökyüzünün kanatları ...

ESAC Wings of the sky ...





Aviation Valley;

To improve aviation sector in the region and become one of the primary component of regional growth in the future



- To create awareness in aviation sector,
- To train workforce to be qualified in industry,
- To encourage cooperation between manufacturers and educational institutions,
- To get prime manufacturers' and prime contractors' attention,
- To get local and national investors' attention,
- To gather cluster development studies in different regions in common ground.



EUROPEAN UNION, THE SEVENTH
FRAMEWORK PROGRAMME (FP7)
CARE PROJECT



(Clear Aerospace REgions)

ESAC has been the project partner of CARE Project carried out by Eskişehir Chamber of Industry (ESO) since 2008.

Havacılıkta çözüm Eskişehir'de...

Look no further. The answer is in Eskişehir...



CARE Project is a special project between the 10 important active clusters in Europe.

Eskişehir is included with ESAC, aiming:

- improving collaboration opportunities,
- increasing the awareness of manufacturers and research institutions active in green plane manufacturing,
- supporting the investments in this field





Many topics covered by this CARE project including:

- energy efficiency (greener motor, lighter airplane structures),
- eco-design (Manufacturing, maintenance and recycling of airplanes compliant with REACH regulations),
- green air traffic management and combined green transportation systems.





ESAC

ESkişehir Aviation Cluster



ESAC

Eskişehir Aviation Cluster



Thank you



ESAC
Eskişehir Aviation Cluster