



QUESTIONNAIRE

In the frame of the AirTN FP7 ERA-Net project, it is proposed to make a survey of all European civil aeronautic facilities and to introduce them in a "wiki" like web site. The result will be a unique inventory of all relevant research facilities which will be accessible to the European Commission and ACARE stakeholders.

The practices with respect of access, investments and support will help to upgrade existing key facilities, to avoid duplication for future facilities and to identify the domains where European community has a lack of facilities.

Identification of the installation/facility:

Country: Spain

Location (city): Seville Name of the facility:

Date of construction or of acquisition or of main refurbishment: 2009 Owner: ANDALUSIAN FOUNDATION FOR AEROSPACE DEVELOPEMENT

Contact point: Silvia de los Santos Trigo

Internet site: www.catec.aerpo

Technical characteristics:

1 - Type of infrastructure	
Wind tunnel	
Propulsion bench	
Structures facility	\boxtimes
Material facility	\boxtimes
Simulator (ex. Flight simulator, tower,)	\boxtimes
Flight test bed (aircraft, embedded facilities,)	\boxtimes
Supercomputers	
Other:UAV platforms,	\boxtimes

2 - Main technical characteristics:

See document attached.

3 - Research domains which can be addressed (refer to ACARE taxonomy http://www.acare4europe.com/docs/ASD-Annex-final-211004-out-asd.pdf):





- 1.Flight physics
 - Composites Materials and basic processes
 - Metallic Materials and basic processes
 - Non-Metallic Materials and basic processes
 - Structural Analysis and Design
- 4. Aircraft Avionics, Systems & Equipment
 - Navigation/Fight Management/Autoland
 - Identification
 - Electronics and Microelectronics for on-board systems
 - Sensor integration
 - Comunications systems
 - Identification
 - Avionics integration
 - Optics- Optronics-Lasers-Image processing and data fusion?
 - Aircraft security
- 6. Integrated Design & Validation
 - Collaborative Decision Making
 - Simulator environments and Virtual reality
 - Decision Support Systems
 - Autonomous operation
 - Development of synthetic environment and virtual reality tools
 - Real time simulators
 - Numerical Models
 - Methods and IT tools for Collaborative Product and Process Engineering
- 7. ATM
 - Overall ATM
 - Airspace management
 - Communication Systems
 - Navigation Systems
 - ATC Automation/DSS Decision Support Systems
 - Avionics
- 9.Human Factors
 - Human factors Integration, machine interface
 - Human Information Processing
- 10. Innovative Concepts & scenarios
 - Breakthrough Technologies
- 4 Main (or specific) associated measurement techniques:
 - Non Destructive Testing:
 - Laser Shearography
 - Ultrasonic Phase Array
 - o Infra-red Termography
 - X-Ray Tomography
 - Universal Testing Machine for large composite panels (4MN max.)
 - Hall-Hass Testing
 - Rapid Manufacturing Facilities
 - 2D/3D displacement & strain analysis
 - Drop tower for impact testing
 - Environmental Testing





5 - Operational status

Fully operational (1750 h/e	equip. available	e in 2010)		
6 - picture available ? See document attached				
Financial elements:				
Replacement cost (M€uros)				
Less than 10				
10 to 30	\boxtimes			
30 to 60				
60 to 100				
More than 100				
Practices concerning:				
Access policy: contract, free	e access for re	search under collaboi	ration agreement.	
Support: Regional, National	and European			
ATLAS Laboratory: Atlas is an Exportance located in Jaen, which will provide superior facilities and an airspace goal is to offer manufacturers, regiscenario for research and technolo CEUS: The Center of Excellence of air tests on unmanned systems with Kg. Nowadays, CATEC is carrying this project.	e the international s, suitable for Unnulation authorities by development con Unmanned Sysh by great MTOW (1)	aeronautics community wanned Aircraft Systems (Ua, Academia and technolog of UAS and air traffic contitems, would to be a centernaximum mass authorized	with an airfield with UAS) testing. Its main by centers, a unique rol. r exclusively dedicated to for taking off), over 500	
Origin of information ('signature'): Juan Pedro Vela Martínez- January 2011				
The information will be incolored	atani in the - A!	TN web site		
The information will be implement Do you agree to publish the information				
In the protected part of the	e site	⊠ YES	□NO	





In the pu	ublic web site	⊠ YES	□ NO
This questionnal December 201	,	P7 team and must be	returned the latest by 31
ONERA	(domin	ique.nouailhas@oner	a.fr)
DLR	☐ (nicole	e.ewinger@dlr.de)	
NLR	☐ (kos@r	nir.ni)	
CIRA	☐ (m.ama	nto@cira.it)	