

Air Châteaudun

Project opportunity analysis

F Verdier & D Harriet October 2016

Relevance of the project

The EAR Châteaudun is:

- A tarmac runway 2.3 km long (45 meters wide) bit used (98 ° / 278 °)
- Quality infrastructure o Infrastructures (hangars, aircraft parking ...) available
- A controlled traffic (1-2 days / week)
- Existing services (ARFF ...)
- Spaces available runway edge
- A high speed broadband service



APPROCHE A VUE
Visual approach

Ouvert à la CAP
Public air traffic
15 SEP 2016

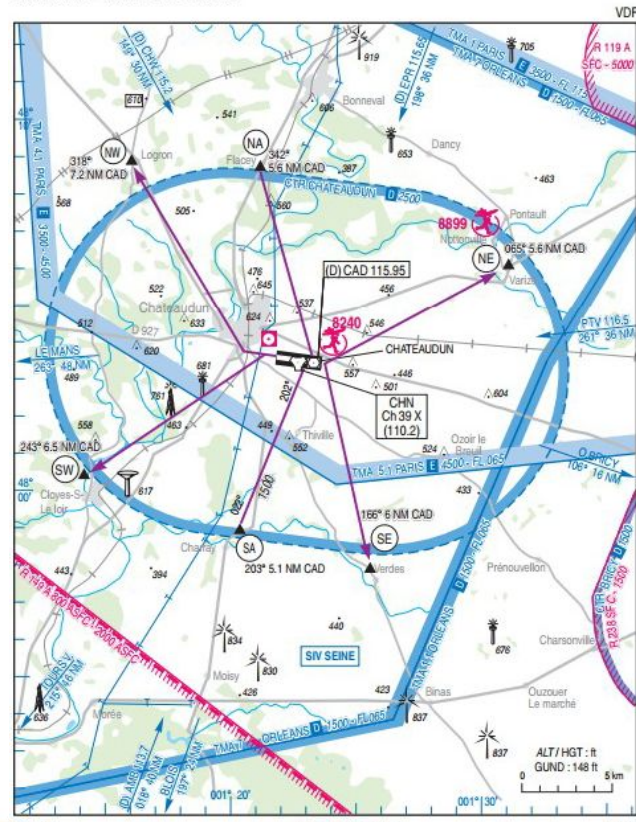
CHATEAUDUN
AD 2 LFOC APP 01



ALT AD : 433 (15 hPa)
LAT : 48 03 28 N
LONG : 001 22 46 E

LFOC
VAR : 0° (15)

APP : BRICY Approche/Approach 122.7 - 138.750 - 142.450 - 373.575 - 362.3
TWR : 121.750 - 125.625 - 257.8 - 342.175



Relevance of the project

Strengths

- Tradition, both civil and military, aviation in the Dunois (for more than a century);
- Geography: Near Paris, Loire Castles ... good for economic development, tourism and recreation;
- Geography: Near Paris, Orleans, Blois and Chartres (business aviation customers);
- Regional Expertise in aerospace (cluster); Quality of the EAR infrastructure and traffic controlled;
- Political will.

Opportunities

- Proximity Paris airports (Maintenance and parking), with a low cost of land;
- Businesses in aeronautics in Châteaudun area (Zodiac, Paulstra, Lachant Spring 28 ...);
- A high expectation of the local Dunoise population: more of 90% pros in southern Eure-et-Loir
- At the heart of POLE PHARMA and COSMETIC VALLEY;
- Smart Base» program of the French Air Force

Relevance of the project

The geographical location of Châteaudun and the presence of the EAR are key success factors for creating an open platform for the Civil Air Traffic (CAP): over 10 500 jobs in the Cosmetic Valley are in a radius of 50 kms around Châteaudun

And in the heart of Cosmetic Valley companies (in less than an hour from all the major decision makers)



Development scenario

Our experience with different territories and airports / airfields shows us that there are "macro-scenarios" of development based on the presence of an aerial platform and a dedicated business area:

Economic positioning / Strengths	infra and equipment future airfield (runway accessibility ...)	local tissue business (Courses, crafts, alliances ...)	Specifics territory (location, Expertise, sectors activities, incentives ...)
Aerodrome, air traffic	X	X	X
Flying activities (business aviation, cargo specific, training flights ...)	X	X	
aeronautical activities support (small maintenance ...)	X	X	
aviation-oriented business area	X	X	
transport hub linked to the dynamism economic department of tourism +	X	X	X
leisure center related to aeronautics	X		X
Area of non-aeronautical activities		X	X

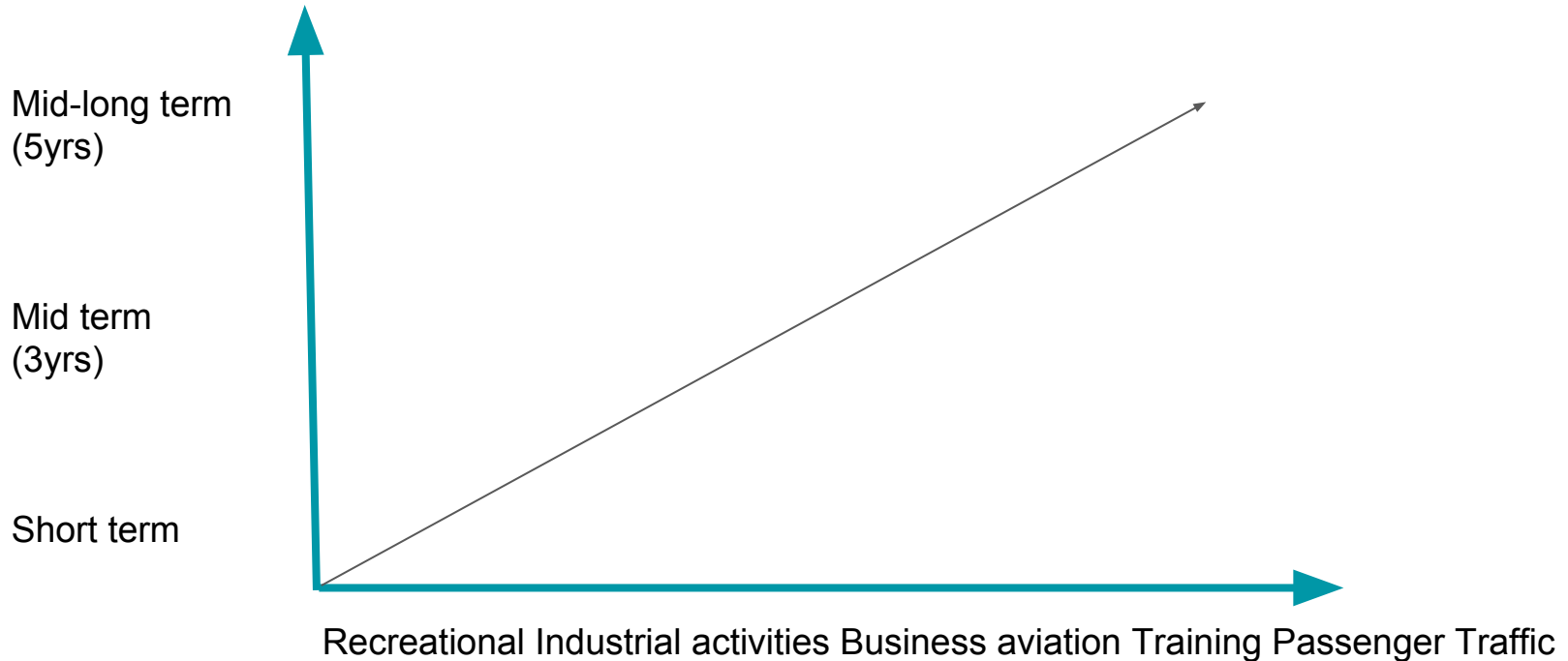
Development scenario

The pole of aeronautical activities "Air Châteaudun" is therefore relevant. It can bring together various activities:

Activities	Region strengths	Project strengths
Recreational Activities	Near the castles of the Loire, UNESCO ranking ...	Length and runway conditions
general aviation	the heart of a dense area, degree of economic equipment	Control Tower capacity hangars
Business Aviation	Near a network of companies (Cosmetic Valley cluster pharma ...)	Length and runway conditions Control Tower capacity hangars SSLIA
passenger traffic	Near Paris area, Loire castles, UNESCO....	Length and runway conditions Control Tower capacity hangars SSLIA
Industrial activities: maintenance, storage	Near Paris area	Length and runway conditions Control Tower capacity hangars SSLIA
Other aeronautical industrial activity (repair)	Near Paris area	Length and runway conditions capacity hangars aircraft parking

Evolution of civil aviation activities

The proposed scenario is based on an incremental approach with a gradual ramp-up involving EAR resources



Evolution of civil aviation activities

Caractéristiques	Types d'appareils les plus contraignants (codes)	Fréquence ou total mouvements/an	Longueur de piste nécessaire	AFIS (ou contrôle)	Besoins spécifiques
Evolution des activités Loisirs (avions basés) Aéromodélisme	A	2 jours semaine (week end) au départ 7J/7 à terme	1 000	Autocontrôle	1 hangar (200 m ²) Station carburant aviation
Aviation d'affaires (petits modules basés)	A-B	12 000	1 500	AFIS (ou contrôle)	1 hangar supplémentaire Parking aéronef de 5 000 m ² Station carburant aviation (Jet A1 et Avgas – 24h/24) Parking automobiles Aide à l'atterrissage pour visibilité réduite et balisage de nuit SSLIA
Activités industrielles au sol, travail aérien	A-B	15 000	1 500	AFIS (ou contrôle)	1 hangar-atelier supplémentaire (500 m ²) Parking aéronef de 5 000 m ² Station carburant aviation (Jet A1 et Avgas – 24h/24) Parking automobiles
Aviation d'affaires (aéronefs basés + accueil)	B	15 000	1 500	AFIS (ou contrôle)	2 ^e hangar affaires ou extension Capacité d'accueil passagers affaires Parking aéronefs de 7 000 m ² Station carburant aviation (Jet A1 et Avgas – 24h/24) Parking automobiles Aide à l'atterrissage pour visibilité réduite et balisage de nuit SSLIA
Aviation générale, aviation d'affaires, formation, trafic passagers	C	20 000	1 800	Contrôle	Aérogare de petite capacité (50 passagers) Parking aéronefs de 7 000 m ² Station carburant aviation (Jet A1 et Avgas – 24h/24) Parking automobiles Aide à l'atterrissage pour visibilité réduite et balisage de nuit SSLIA

Link with Air Force & “Smart Base” project

- Smart Base is defined by the air force as "the laboratory of the digital transition to a Service innovative approach. "
- The project was approved by the Minister of Defense, allowing greater involvement of all Other major players in the ministry concerned.
- Smart Base is based on 3 aspects and aims to improve the efficiency and performance of the institution as well as for
- support in operational matters, improve working conditions and living environment staff and develop partnerships.
- Smart Base is testing in Evreux since summer 2015. As part of the flap 3 "Partnerships", the Grand Evreux Agglomeration, ICC doors of Normandy and the air base 105 of Evreux-Fauville signed a convention. One of the emblematic achievement is Smart'Up, digital nursery, located both in Evreux and the Air Base.
- Senior officials of the Air Force announced that Smart Base will be implemented on other bases Airlines in 2016. Each base however is intended to develop its own projects, its own partnerships.
- Smart Base thus creates the conditions for a positive momentum to develop relations between Châteaudun and EAR.

Link with Air Force & “Smart Base” project

Cooperation axes within a "Smart Base" device could be the following:

- Creating a business incubator (on the site of the former clinic Sorbiers to Jallans) dedicated to optimization of land vehicles, including airport and air together with Polytech Orleans;
- training School for airport business ;
- Pole experimental / test / heavy drones testing and training school with flying unmanned aircraft;
- Training for careers in maintenance / repair / deconstruction in connection with the dismantling of military aircraft activity and cooperation with Aerocampus Aquitaine.

Events

- A military airshow year;
- CANOPEE (Conservatoire d'Aéronefs non Opérationnels Préservés et Exposés);
- Repetition July 14 Châteaudun for 20 years (it takes place around June 20);
- military and civilian Drone Festival (annual)

Potential services that EAR could bring:

- Provision of 1 hangar storage devices (the HM3 (or HM4), for example)
- mounted power activities of the Aero Club of Châteaudun;
- Provision 1 workshop hangar
- Passenger Capacity (10 people initially)
- Provision of aircraft parking areas (5000 m² and 7000 m²)
- Air Control
- Support for landing low visibility and night lighting
- SSLIA (level 2 and level 4)
- aviation fuel station (Jet A1 and Avgas - 24/24)
- Car Parking

Example of a successful Civil Military Co-activity: Merignac airport

Airbase 106 Bordeaux-Merignac French Air Force is located a few kilometers west of Bordeaux, in the town of Merignac. It shares the tracks of Civil Airport Bordeaux - Merignac.

Merignac Airport combines **three activities**:

- civil transport 5.3 million passengers last year, the fifth french highest airport growth (countryside)
- Aircraft Manufacturing: A factory Dassault Aviation where are assembled Rafale.
- Military activities: The presence of 3,000 military Command of Air Forces

Fabien Verdier

Economist

Conseiller municipal de Châteaudun, Conseiller régional

9, rue de Varize, 28200 Châteaudun

Cell : 06 29 92 98 19

fabienverdier.eureetloir@gmail.com

SARL Convergences Public Privé Dominique HARRIET

20, rue de Belfort - 31330 Grenade sur Garonne

SIRET: 538 570 631 00027

Phone: 05 61 35 11 96 / 06 71 89 73 97

Mail: public-privé@orange.fr

www.convergences-public-privé.com