

SUSTAINABLE AIRPORTS



LIFE DESIGNERS

AIA LIFE DESIGNERS MUTUAL ARCHITECTURE

For fifty years, AIA Life Designers has been championing a culture of collective and collaborative understanding to meet the new conditions of complexity, especially for major health facilities and airports. It approaches every architectural project by deciphering all the logics of effective situations to provide the most valid intervention and transformation arrangements. AIA Life Designers tries to involve the contracting authority very early on to go further, deepening the responses, encouraging future appropriation and therefore the sustainability of buildings.

The group has been expanding internationally for the last ten years, with branches in Shanghai, Geneva and Luxembourg. It is also involved in many projects on all continents, in support of its main partners.

AIA Life Designers is currently working on four airport projects:

- the first large-scale airport with 100% natural ventilation in St Denis de la Réunion ;
- the extensive restructuring on an occupied site at Nantes Atlantique Airport ;
- the extension to Aimé Césaire de la Martinique Airport in Fort de France blending in with the natural site and its Mount Pelée ;
- the extension to Toulouse-Blagnac Airport and its "industrial" architecture.

The BIM numerical mock-up has been in use since 2012 and is one of the main factors for success in cross-disciplinary design. AIA Ingénierie received the BIM d'Or 2015 for the ENS Cachan at Paris Scalay (architect : RPBW), the BIM d'Argent 2016 for the PSO Hospital at Saint-Paul La Réunion and the BIM d'Argent 2018 for the MAAF headquarters in Niort (architect : HOB0 Architecture)

The urban and societal commitment resonates also through the AIA Foundation "Architecture, Health, Environment" created in 2012, which in 2018 published Volume 2 "Bien vivre la ville" Editions Archibooks.
www.aiafondation.fr

"We believe in collective ability and agility to meet the new conditions of complexity. We believe in the power of joining forces and in the project adventure!"

67
MILLION EUROS (EXCL. VAT)

650
EMPLOYEES

14
BRANCHES

22
ASSOCIATES


ARCHITECTES


INGENIERIE


MANAGEMENT


ENVIRONNEMENT


TERRITOIRES





**3.2 M PAX
IN 2022**



First international airport with natural ventilation

ROLAND GARROS INTERNATIONAL AIRPORT- SAINT DENIS - LA RÉUNION

A HIGHLY-EFFICIENT AIRPORT

Short-circuits : Kiss and fly/security control duty free/departure lounge/walkway/ passport control/baggage claim,

A new baggage sorting system, standard 3-compliant,

Additional shops.

AN AIRPORT WITH STRONG RÉUNION ROOTS

Natural ventilation, wooden structure, biosourced materials, tropical vegetation, panoramic views, the future terminal blends with the splendours of the island and puts them centre stage. The architectural design takes its inspiration from the distant mountains and their verdant canyons.

Contracting authority

Roland Garros international Airport
Guillaume Branlat, Chairman of the Management Board

Architect

AIA Architectes

Associate architect

Olivier Brabant (St-Pierre)

Engineering and economics

AIA Ingénierie

Structure roads and utilities engineering

Incom

Fluids engineering

Inset (St-Denis)

Environmental expertise

AIA Environnement

Project Management

Baggage handling system

ADET (Switzerland)

Runway design, works monitoring assistance

CEREMA

(AIA Ingénierie sub-contractor)

Acoustics

Tysseire + Associés

(AIA Environnement sub-contractor)

Landscape

ATEA

Regulatory studies

ENVIROTECH

(AIA Environnement sub-contractor)

Aerodynamics, aerualics, etc.

Jacques Gandemer

(AIA Environnement sub-contractor)

Mission

Full project management

Surface area

33,500 m²

Amount of works

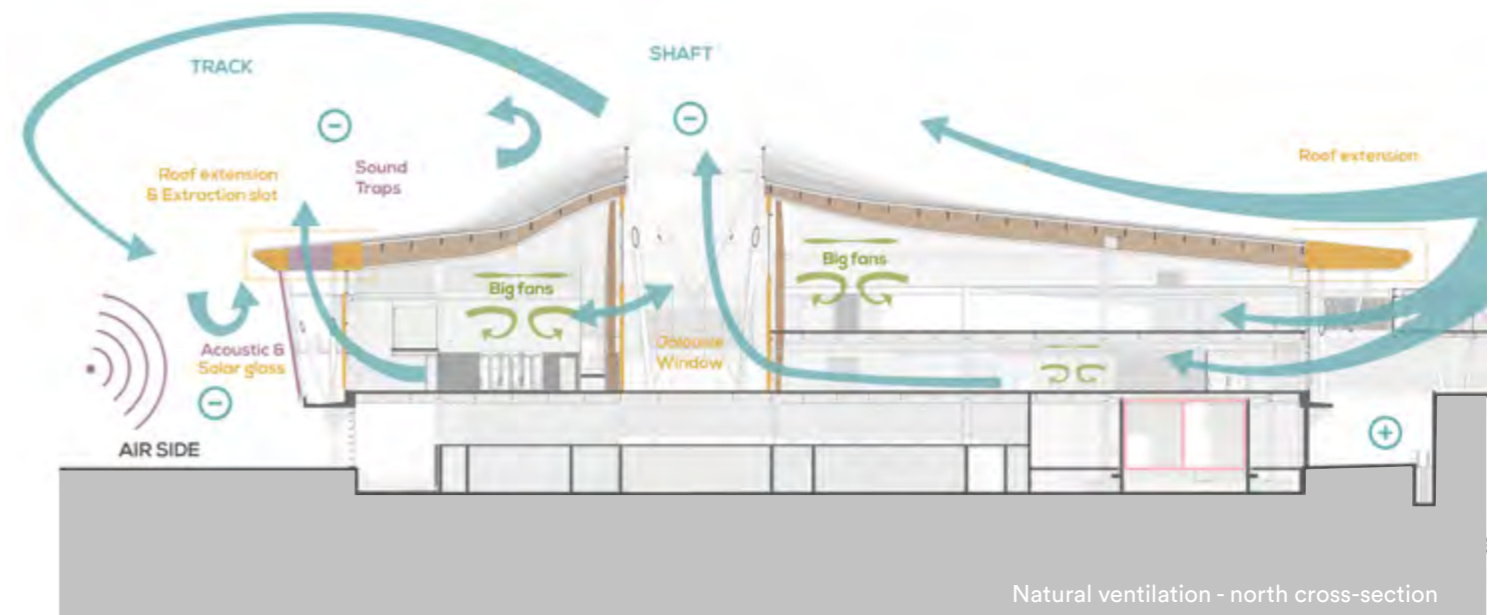
€76M excl. VAT

Competition

June 2018

Completion

End 2022



Natural ventilation - north cross-section

 **2.0 M PAX**
IN 2020



A strong identity

AIMÉ CÉSAIRE INTERNATIONAL AIRPORT FORT DE FRANCE - MARTINIQUE

East Extension of the passenger terminal at the Aimé Césaire International Airport in Martinique for the creation of a Regional Terminal and in the West Extension of the building with baggage control systems made compliant with standard 3 - ERP 1st category.



Prime Contractor
SAMAC (Société par actions de l'aéroport Martinique Aimé Césaire)
Frantz Thodiard, Chairman of the Management Board

Representative
Inso and Condotte d'Acqua

Architect
AIA Architectes

All trades engineering
AIA Ingénierie

Environmental expertise
AIA Environnement

Scheduling, overseeing and coordination
CRX Management

Fluids-servicing-maintenance
I dex Energie Antilles Guyane

Local technical design office
CETE ingénierie,

Technical needs specification advice (preliminary design phase)
ADET

Mission
Design-execution with technical equipment maintenance

Additional missions
Indoor architecture/GED/SEDI/
BIM Management/BIM Modelling/
SYN/Steering B/ICPE/ESSP/EISA/
updating 3D film/QUANT/EXE
structure/Scheduling, overseeing
and coordination/HQE/CSSI

Surface area
24,000 m²

Amount of works
€43M excl. VAT

Competition
Winner July 2017

Site commencement
July 2018

Completion
February 2020

"Mount Pelée is there! The volcano is a builder, we are born from the volcano, I always thought that it would be reborn."

AIMÉ CÉSAIRE



Security control



6.2 M PAX
IN 2018



Extensive restructuring on an occupied site

NANTES ATLANTIQUE INTERNATIONAL AIRPORT - FRANCE

1984 : extension for 0.5 M Pax

1989 : extension for 1,5 M Pax (new domestic departure hall, boarding lounges, arrivals hall, etc.)

1994 : boarding-landing gallery and extension of the CBS area

1997 : extension for 2.5 M Pax (international departures)

2000 : extension of airline offices

2001 : full CBS implementation, raising of CCI offices

2003 : delivery of Hall 4 (hub designed for 0.5 M Pax), extension of the Arrivals Hall

2008 : centralisation of flows (security control) and shops in reserved area, extension of Hall 3

2012 : extension of passenger flows in the connecting gallery

2016 : AIA was commissioned by Vinci Airports to carry out a diagnostics study of the existing airport with a view to transferring it to the NDDL site

2017 : AIA was commissioned by Vinci Airports to study a transient project (new centralised security control, new shopping areas in restricted area and new boarding lounges)

2018 : AIA carried out several projects on the existing site (security control, Tour Operators, walkway Hall 4)

ERP 1st category - works on occupied site

14% increase in passenger numbers in 2018.

Contracting authority

Aéroport Nantes Atlantique
Vinci Airports

Architect

AIA Architectes

All trades engineering + economy

AIA Ingénierie

Works execution supervision and scheduling, overseeing and coordination

AIA Management

Mission

Basic MOP

Surface area

40,000 m²

Amount of works

€ 54M excl. VAT (all extensions)

Dates

1982 - 2018

Program

Tour operators, BIP personnel, restructuring boarding lounges, baggage registration and modular office buildings.
ERP building/site in operation.



Extensions
Halls 3 and 4

 **9.6 M PAX**
IN 2018



An easy-to-follow, fast-moving passenger route

TOULOUSE-BLAGNAC INTERNATIONAL AIRPORT - FRANCE

Extension Hall A - Restructuring and extension to build a new pier for low cost companies.

The Toulouse-Blagnac Airport extension project is a chance to offer airlines a high-performing, appropriate solution for passenger flows. Creating an additional pier proposes nine gates giving access to five WIWO aircraft stands and four bus departures.

ERP 1st category
Works on occupied site - HQE

5th largest French airport

Contracting authority
Aéroport Toulouse-Blagnac

Architect
AIA Architectes

All trades engineering + economy
AIA Ingénierie

Environmental expertise
AIA Environnement

Project Management Asbestos removal
CDB

Acoustics engineer
SerdB

Indoor air quality diagnostics
APAVE

Surface areas
2,500 m² new - 2,000 m² restructuring

Amount of works
€ 8M excl. VAT

Completion
September 2018



Departures Hall



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