

LASA

*L'ingénierie
acoustique et vibratoire
depuis 1975*

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Acoustics of Unconventional Spaces

LASA : Acoustic and Vibration Engineering since 1975



4.9

million euros

revenue in 2024

5000

clients

trusting us since 1975

25

software tools

developed in-house by LASA

5



OPQIBI qualifications

Professional Qualification Organization for Engineering, Construction and Industry

10

sites

Paris – Lyon – Bordeaux – Marseille
Rennes – Nantes – Toulouse – Annecy
Antilles – Guyana

6

partners

all actively involved in the firm

90

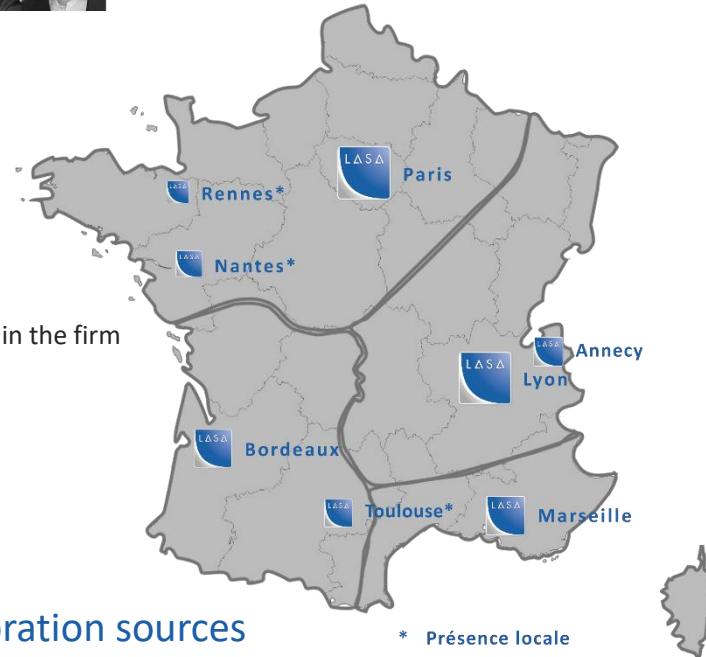
sound level meters

vibration analysers, single or multichannel

20

noise and vibration sources

omnidirectional, directional, standalone,
low frequencies, shock machines



Understanding
of architectural and client requirement

Feasibility
of solutions

Advanced optimisation
of proposed solutions

Satisfaction
of our clients

50

team members
experts and passionate about their craft

10 000

completed projects

Halle Freyssinet — Station F — Paris (75)

L'ingénierie
acoustique et vibratoire
depuis 1978



Completion : 2012-2016
Cost of works : €70 million
Architects : Wilmotte & Associés

Description : Renovation of the Freyssinet Hall, a listed historic monument, to host the world's largest start-up incubator. The campus includes La Felicità by Big Mamma Group (5 kitchens, 3 bars, cafeteria, terrace).

LASA's scope : Full assistance to the project management team throughout the design development and construction supervision phases.

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Les Grandes Serres de Pantin – Pantin (93)

L'ingénierie
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depuis 1978



Completion : 2018-2026

Architects : LECLERCQ / ECDM / MOATTI-RIVIERE

Description : Redevelopment of a former industrial brownfield site into a mixed-use campus comprising office buildings and a refurbished hall housing a music academy (282-seat auditorium), co-working spaces, training facilities, dining areas, artists' studios, sports facilities, and various services.

LASA's scope : Full consultancy services as part of the design team, covering all design stages and construction supervision.



Les Grandes Serres de Pantin – Pantin (93)

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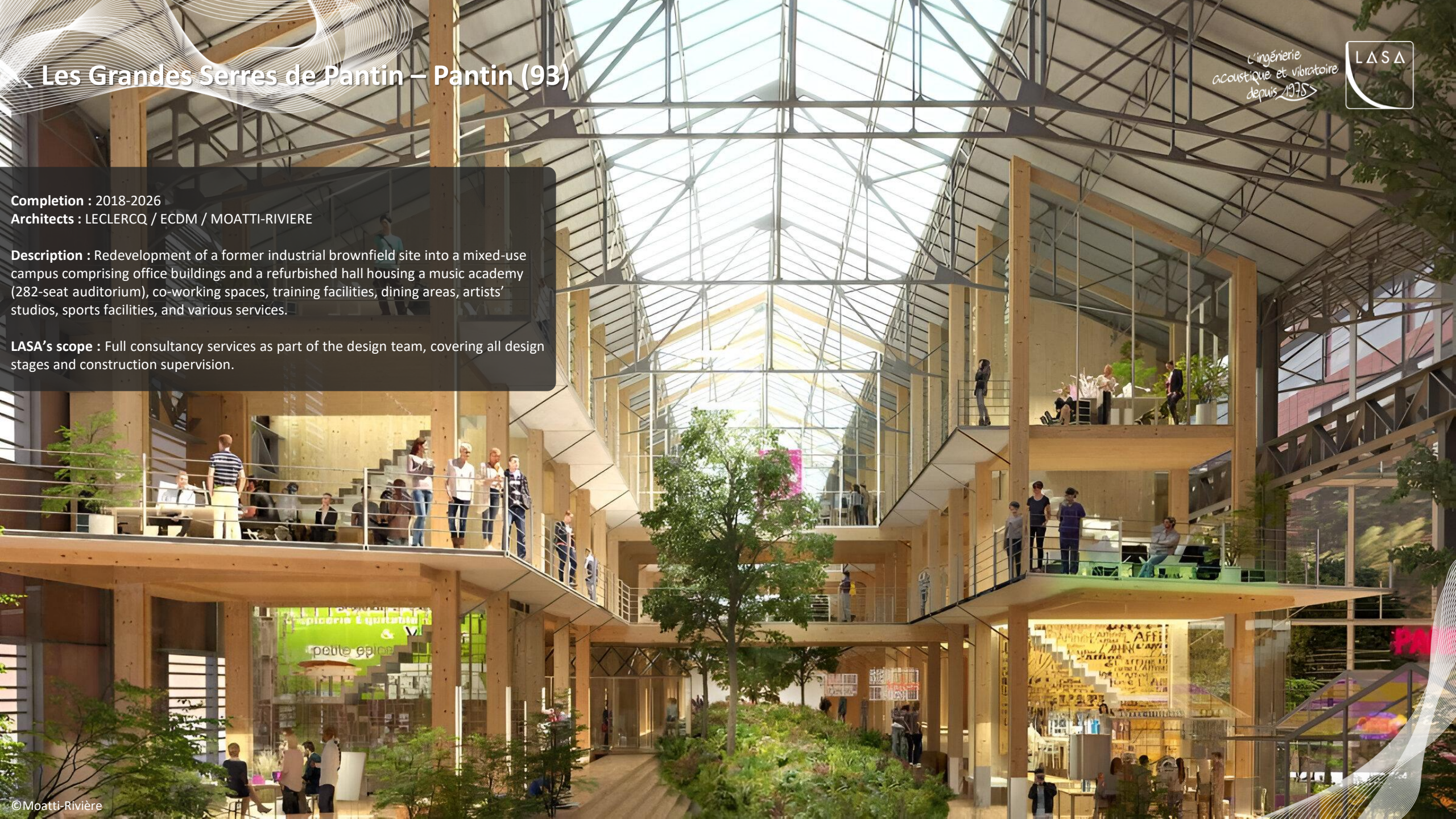


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Grand Siècle Museum – Saint-Cloud (92)

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Completion : 2020-2026
Architect : Rudy RICCIOTTI

Description : Renovation of the Caserne de Sully into the Musée du Grand Siècle, including exhibition spaces, an auditorium, offices, a restaurant, immersive rooms, and more.

LASA's scope : Technical assistance in acoustics during the design development and construction phases – 3D numerical modelling for internal acoustic prediction.

Engie Campus – La Garenne-Colombes (92)

Completion : 2018 - 2023
Cost of works : > €100 million
Architects : Chaix & Morel / SCAU / Art & Built / Base

Description : Construction of ENGIE's new headquarters in CLT timber structure, including office spaces, restaurants, auditoriums with interpretation booths, a trading room, retail areas, a daycare facility, and more.

LASA's scope : Full assistance to the project management team during design development and construction phases.



Rue Intérieure Palais du Festival de Cannes – Cannes (06)

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Completion : 2023 - 2027
Cost of works : €11 million
Architect : ARCHIDEV

Description : Renovation, enhancement, and improvement of acoustic comfort in the internal street providing access to all functional spaces (including screening rooms, etc.), as well as enabling its use for events. Works carried out in an occupied site.

LASA's scope : Full assistance to the project management team throughout the design development, construction, and handover phases..



Rue Intérieure Palais du Festival de Cannes — Cannes (06)

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Pôle Multimodal Marengo – Halle des Mobilités – Toulouse (31)

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La Fleuriste

Completion : 2023 – 2028
Cost of works : €65 million
Architectes : BIG / A+ Architecture

Description : Multimodal transport hub (trains, metro, buses, bicycles, pedestrians) integrating cultural spaces, office areas, and a 1,000-space bicycle station, located in close proximity to active railway tracks.

LASA's scope : Full acoustics and vibration engineering services as part of the project management team, in joint consultancy. Covering design development, construction, and handover phases. Site vibration diagnostics and vibration studies.

Pôle Multimodal Marengo – Halle des Mobilités – Toulouse (31)

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Palais de la Bourse : Salle de la Corbeille – Lyon (69)

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Completion : 2019 - 2021

Architect : Looking For Architecture

Description : Scenographic and acoustic fit-out project aimed at optimizing the event use of the Corbeille Hall. Project currently on hold.

LASA's scope : Technical assistance to the project management team during the design development phase. 3D modelling for the optimisation of acoustic absorption solutions, while preserving the building's heritage character. Sound system design studies and auralisation models.

Champigny-sur-Marne Media Library– Champigny-sur-Marne (94)

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Completion : 2022-2025

Cost of works : €13,4 million

Architect : MOATTI-RIVIERE

Description : Construction of a new open-plan media library using bio-based materials, including study rooms, open-access reading areas (literature and youth collections), a digital creation space, an auditorium, exhibition spaces, a café, and a rooftop terrace, all organized around a central agora. Stone-clad façades, timber post-and-beam structure, and composite timber floors in the superstructure.

LASA's Assignment : Full assistance to the project management team throughout the design development, construction, and handover phases.

Champigny-sur-Marne Media Library– Champigny-sur-Marne (94)

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Saint-Alexis Digital Chapel – Le Puy-en-Velay (43)

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Completion : 2018 - 2021
Cost of works : €2,2 million
Architect : ZUO Architecture

Description : Renovation of the Saint-Alexis Chapel (a listed historic monument dating from 1752) into an innovative and interactive museum space showcasing the heritage and secrets of the Haute-Loire region. The project includes a 4D immersive cinema hall designed around an aircraft concept, a visitor trail, a shop, and a snack area.

LASA's scope : Full assistance to the project management team. Existing building diagnosis, 3D acoustic modelling, optimisation of the building envelope and internal acoustics, sound system design, and preparation of the overall acoustic design report.

Saint-Alexis Digital Chapel – Le Puy-en-Velay (43)

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Russian Orthodox Spiritual and Cultural Centre – Paris (75)

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Completion : 2013 - 2016

Cost of works : €150 million

Architects : Wilmotte & Associés

Description : The complex includes two exhibition halls, the Holy Trinity Orthodox Cathedral, a 210-seat auditorium, offices for the cultural department of the Embassy, residential apartments for centre staff, and an educational hub comprising classrooms, workshops, and a library.

LASA's scope : Technical assistance to the project management team during the design development and construction phases.

Russian Orthodox Spiritual and Cultural Centre – Paris (75)

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Saint Gobain Tower – La Défense (92)

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Completion : 2014 - 2019
Architects : Valode & Pistré

Description : Construction of a high-rise office building (IGH) certified HQE, BREEAM, and LEED, including office floorplates, an auditorium, an employee restaurant, a cafeteria, meeting rooms, VIP floors, and a showroom.

LASA's scope : Design and construction-phase services in support of the client and project management team. Construction noise management.

Saint-Gobain Tower – La Défense (92)



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Summit New York – One Vanderbilt – Manhattan

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Study period : 2024 -2025

Client : SL GREEN Realty

Architects : KPF / Snohetta / Kenzo Digital

Description : Immersive visual, sonic, and artistic experience located within an observation deck (viewing platform) at high elevation (330 m) in the Manhattan skyscraper One Vanderbilt.

LASA's scope : Acoustic diagnosis of internal spaces and sound reinforcement systems, with a view to their design review and optimisation as part of a future development project.

Summit New York – One Vanderbilt – Manhattan

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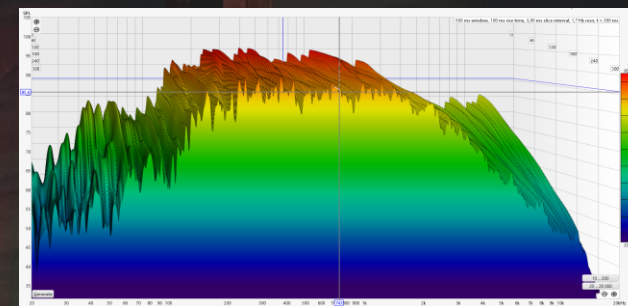
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Grand Paris Express L15 – Vitry Centre Station – Vitry-sur-Seine (94)

L'ingénierie
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depuis 1978



Completion : 2017-2025
Architects : King Kong / Systra

Description : Construction of a three-level underground station with an above-ground emergence at Vitry Centre. Platforms located 25 meters below ground level, designed to accommodate approximately 50,000 passengers per day. Large passenger circulation spaces with a “cave-like” architectural concept.

LASA's scope : Detailed design and execution studies for sound reinforcement systems in passenger areas. 3D acoustic modelling of the entire station. Loudspeaker system design and mapping of acoustic performance criteria.



La Part-Dieu Shopping Centre – Lyon (69)

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Completion : 2016-2021
Cost of works : €170 million
Architects : MVRDV / SUD Architectes

Detailed description : Renovation and extension of a shopping centre (3rd district), across the three existing levels, including the addition of 80 new retail units, a food court area (kiosks, bar, etc.) with terrace/rooftop, and an extension of the cinema complex.

LASA's scope : Full acoustic technical assistance during design and construction phases, as a subcontractor to Artelia. 3D acoustic modelling of façades and external HVAC installations, and preparation of the complete acoustic design report.

La Part-Dieu Shopping Centre – Lyon (69)

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Maison du Patrimoine Sourdin – Villedieu-les-Poêles (50)

L'ingénierie
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Completion : 2017 – 2024
Cost of works : €1,3 million
Architect : ARTENE

Description : Renovation of a former secular community hall of notable architectural value to host the Sourdin Heritage House, an interpretation centre dedicated to the history of the “Cité Sourdin”. Located in the emblematic Normandy town of Villedieu-les-Poêles, the building includes several exhibition spaces.

LASA's scope : Acoustic technical assistance to the project management team, including diagnostics, design, construction supervision, and handover phases.

LE MOBILIER NORMAND DU COFFRE À L'ARMOIRE

Norman Furniture - From the chest to the wardrobe.

In Norman furniture, the chest is a symbol of wealth and a place of refuge. It is a piece of furniture that has been used for centuries and is still used today. The chest is a piece of furniture that is made of wood and is decorated with carvings. It is a piece of furniture that is made of wood and is decorated with carvings. It is a piece of furniture that is made of wood and is decorated with carvings.

LE TRAVAIL DU CUIVRE ET DE SES ALLIAGES

The work of copper and its alloys.

The work of copper and its alloys is a craft that has been passed down from generation to generation. It is a craft that is made of copper and its alloys and is decorated with carvings. It is a craft that is made of copper and its alloys and is decorated with carvings.

An architectural rendering of the Brie Museum interior, showing a large, modern museum space with a high ceiling and large windows. The space features a prominent wooden staircase and a large circular wooden table in the foreground. Visitors are seen interacting with the exhibits, including a large wall-mounted text panel and a circular display case. The rendering is credited to Artene.

Brie Museum – Coulommiers (77)

Completion : 2019-2026
Cost of works : €6,8 million
Architect : ARTENE

Description: Rehabilitation of the former Capuchin church and convent into a municipal museum and the Musée du Brie, including the transformation of the nave, exhibition spaces, a bistronomic restaurant, and an auditorium. Works carried out in an occupied site.

LASA's scope : Acoustic technical assistance to the project management team during design and construction phases. 3D numerical modelling for internal acoustic prediction.

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depuis 1975

©Artene

Architect : ARTENE

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General Store – Saint-Pierre-des-Corps (37)

Completion : 2022-2025
Architect : B&B Architectes

Description : Rehabilitation of an existing hall on a former industrial site into modular clean rooms, office spaces, a cafeteria, a fitness area, accommodation units, a brasserie, and an auditorium.

LASA's scope : Acoustic and vibration technical assistance to the project management team during design and construction phases. Initial acoustic diagnosis and 3D numerical modelling for internal acoustic prediction.

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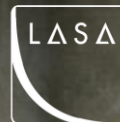
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La Fabrique du Métro – Exhibition Hall – Saint-Ouen (93)

L'ingénierie
acoustique et vibratoire
depuis 1978

L A S A

Completion : 2017 - 2018
Architect : BGC STUDIO

Description : Fit-out of a large exhibition hall dedicated to the presentation and experimentation of the Grand Paris Express project, including an immersive room, reconstructed station environments, and exhibition areas.

LASA's scope : Acoustic technical assistance to the project management team during the design development phase. Initial acoustic diagnosis. Optimisation of internal acoustic treatments, building envelope acoustic performance with respect to external noise, and noise mitigation measures.

©Plaine Commune



©Plaine Commune

Grand Paris Express L15 – Les Ardoines Station – Vitry-sur-Seine (94)

L'ingénierie
acoustique et vibratoire
depuis 1978



Completion : 2017-2025

Architects : Valode et Pistre / Systra

Description : Construction of a three-level underground station with an above-ground emergence at Les Ardoines. Platforms located 28 meters below ground level, designed to accommodate approximately 95,000 passengers per day. Large passenger circulation volumes with extensive concourse spaces.

LASA's scope : Detailed design and execution studies for sound reinforcement and emergency voice alarm systems (SSI (Safety and Fire Safety System)) in passenger areas. 3D acoustic modelling of the entire station. Loudspeaker system studies and mapping of performance criteria (coverage, STI, etc.).

Grand Paris Express L15 – Les Ardoines Station – Vitry-sur-Seine (94)

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Centrale Supélec – Breguet Building – Gif-sur-Yvette (91)

L'ingénierie
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depuis 1978



Completion : 2022-2026

Cost of works : €92 million

Architects : PATRIARCHE DB / ATELIER KEMP THILL

Description : Design-build contract (MPGP) for the transformation of the Breguet building on the Paris-Saclay campus. The project includes vibration-sensitive laboratories (VCG level) and vibration-emitting laboratories (classes 2 and 3).

LASA's scope : Acoustic and vibration engineering support throughout all design phases (DIAG, ESQ, APS, APD, PRO, SYNTH, VISA, AOR), including site monitoring (SAWL). Vibration measurements and 3D FEM vibration modelling.

BUILDERS École d'Ingénieurs – Vaulx-en-Velin (69)

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Completion : 2024 - 2027
Cost of works : €9,85 million
Architect : PATRIARCHE

Description : Three-storey building comprising 19 classrooms, laboratories, recreational spaces, meeting rooms, IT facilities, and a sports hall. A demonstrator and educational building featuring multiple construction systems (concrete, timber, bio-based and geo-based materials).

LASA's scope : Full project management team services during design development and construction phases, within a design-build delivery framework.

Builders
ÉCOLE D'INGÉNIEURS
Campus
Auvergne-Rhône-Alpes

ENSEIGNEMENT
INFORMATIQUE
UNITÉ DE RECHERCHE
TP

Gare du Nord (2024) – Paris (75)

L'ingénierie
acoustique et vibratoire
depuis 1978



Completion : 2019-2024
Cost of works : €600 million
Architects : Valode et Pistre / AREP

Description : Transformation of Gare du Nord to improve passenger services and streamline circulation flows, including new departure and arrival terminals and pedestrian walkways. The project also adds new services such as retail spaces, co-working areas, an event hall, a library, sports facilities, and restaurants.

LASA's scope : Initial measurements, 3D modelling, and sound reinforcement studies for large halls (existing historic and new areas) to improve speech intelligibility of public address systems. STI and SPL mapping. Preliminary design of the sound system. Design drawings for loudspeaker distribution systems.

Gare du Nord 2024 – Paris (75)

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Terminal MP1 – Marseille Provence Airport : Phase 1 – Marignane (13)

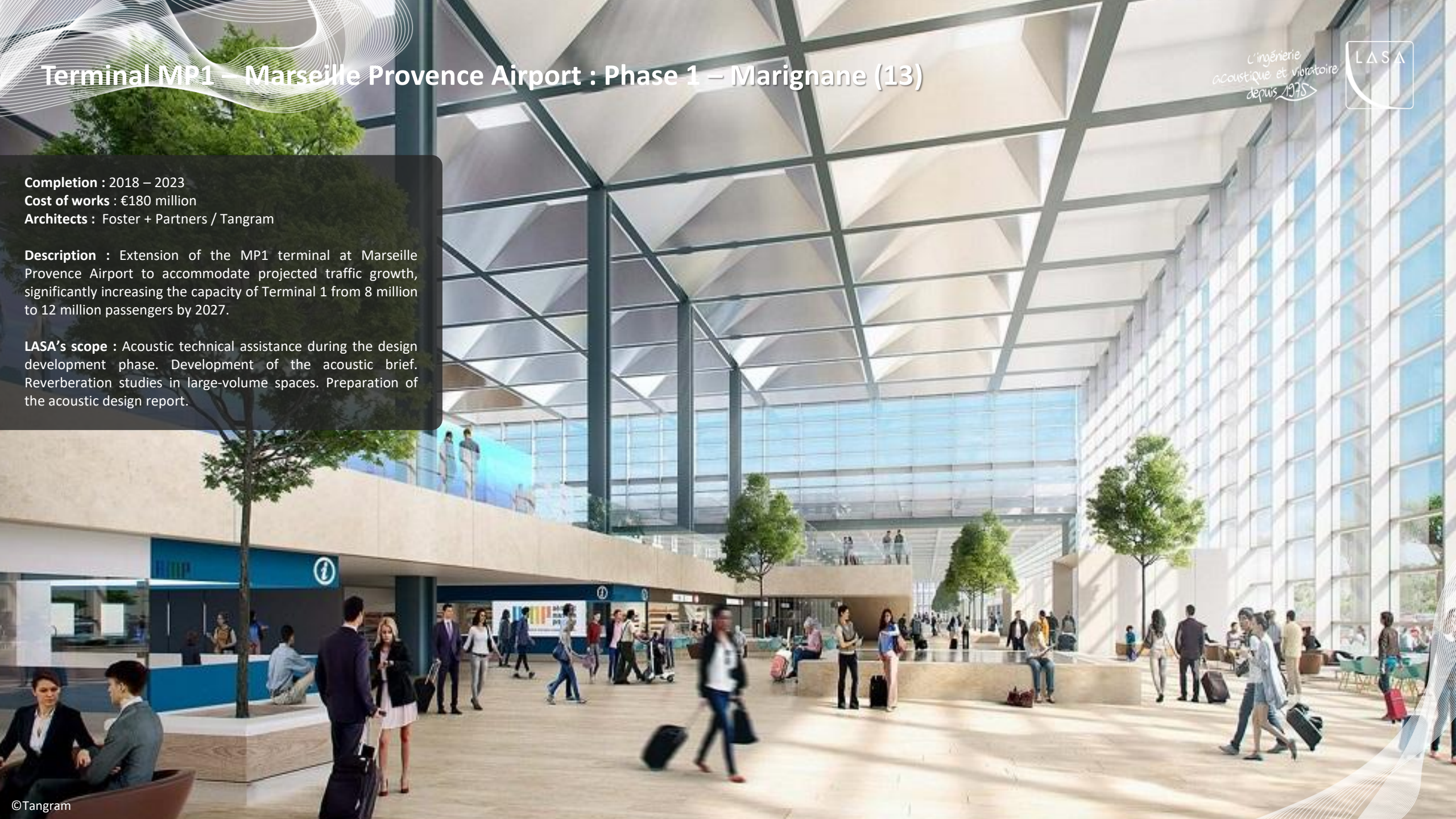
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Completion : 2018 – 2023
Cost of works : €180 million
Architects : Foster + Partners / Tangram

Description : Extension of the MP1 terminal at Marseille Provence Airport to accommodate projected traffic growth, significantly increasing the capacity of Terminal 1 from 8 million to 12 million passengers by 2027.

LASA's scope : Acoustic technical assistance during the design development phase. Development of the acoustic brief. Reverberation studies in large-volume spaces. Preparation of the acoustic design report.



Terminal MP1 – Marseille Provence Airport : Phase 1 – Marignane (13)

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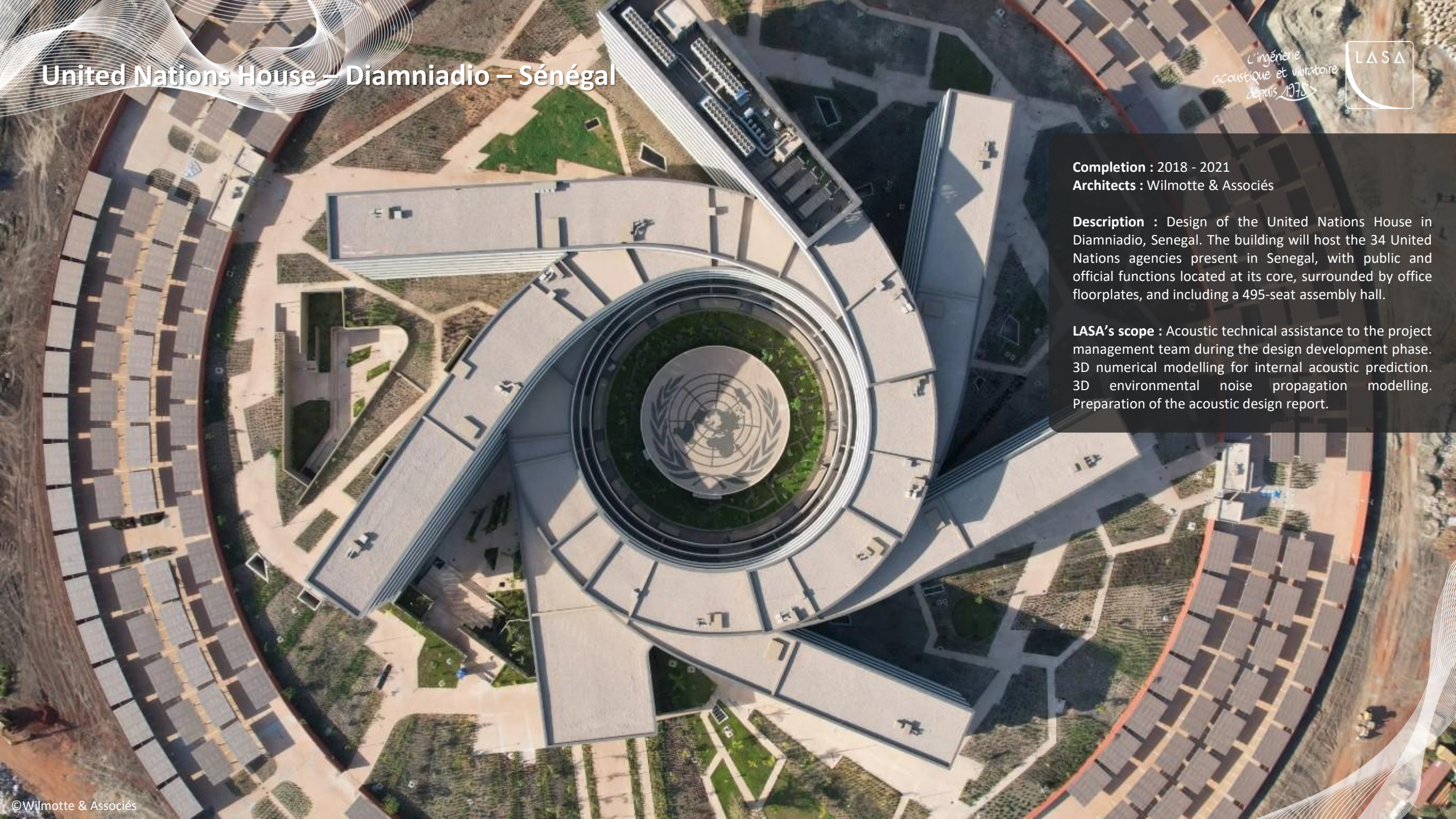


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United Nations House – Diamniadio – Sénégal

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Completion : 2018 - 2021

Architects : Wilmotte & Associés

Description : Design of the United Nations House in Diamniadio, Senegal. The building will host the 34 United Nations agencies present in Senegal, with public and official functions located at its core, surrounded by office floorplates, and including a 495-seat assembly hall.

LASA's scope : Acoustic technical assistance to the project management team during the design development phase. 3D numerical modelling for internal acoustic prediction. 3D environmental noise propagation modelling. Preparation of the acoustic design report.

United Nations House – Diamniadio – Sénégal

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Completion : 2018 - 2021

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Doha International Airport – Doha (Qatar)

Completion : 2004 - 2012

Architect : ADPI

Description : Construction of a new airport in Doha.

LASA's scope : Technical assistance to the project management team during the design development and construction phases, including façade sound insulation studies, internal room acoustics through 3D modelling, and on-site measurements.

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Doha International Airport – Doha (Qatar)

Completion : 2004 - 2012

Architect : ADPI

Description : Construction of a new airport in Doha.

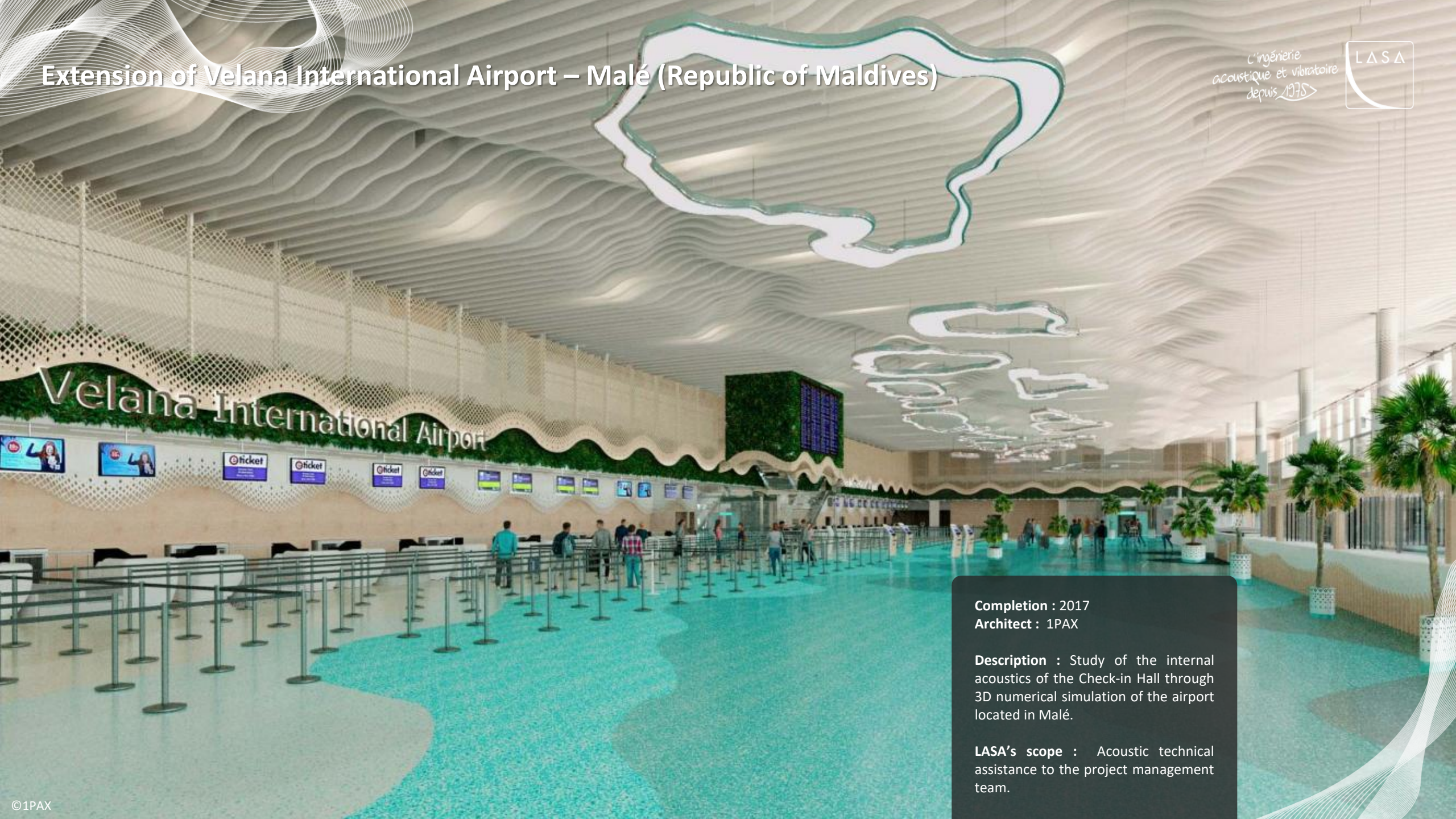
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ingénierie
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Extension of Velana International Airport – Malé (Republic of Maldives)

L'ingénierie
acoustique et vibratoire
depuis 1978



Completion : 2017
Architect : 1PAX

Description : Study of the internal acoustics of the Check-in Hall through 3D numerical simulation of the airport located in Malé.

LASA's scope : Acoustic technical assistance to the project management team.

Extension of Velana International Airport – Malé (Republic of Maldives)

*L'ingénierie
acoustique et vibratoire
depuis 1978*



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Eco-Campus 6 Degrés – Gentilly (94)

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LASA

Completion : 2017 - 2024
Architect : Hardel et Le Bihan

Description : Mixed-use development comprising office spaces, an employee restaurant, an auditorium, retail units, a fitness area, a daycare facility, and parking facilities (cars and bicycles).

LASA's scope : Full assistance to the project management team throughout the design development, construction, and handover phases.

Fresk – Issy-les-Moulineaux (92)

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Completion : 2019 - 2021
Architect : SCAU Architectes

Description : Restructuring of a 21,000 m² office building featuring a large-volume atrium used as a space for exchange, work, and relaxation, as well as a restaurant terrace and event area.

LASA's scope : Study of internal acoustic comfort within the atrium, including 3D acoustic modelling.

Courthouse – Lille (59)

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Completion : 2017 - 2026
Cost of works : €85 million
Architect : OMA OFFICE WORK

Description : Public facilities including 11 public hearing rooms and 60 chambers, over 300 office workstations, secure areas (cells), support and service spaces, and a 500 m² restaurant serving approximately 380 meals per day.

LASA's scope : Joint consultancy services to the project management team. Full assignment including diagnostics, design development, construction supervision, handover, and vibration isolation studies.



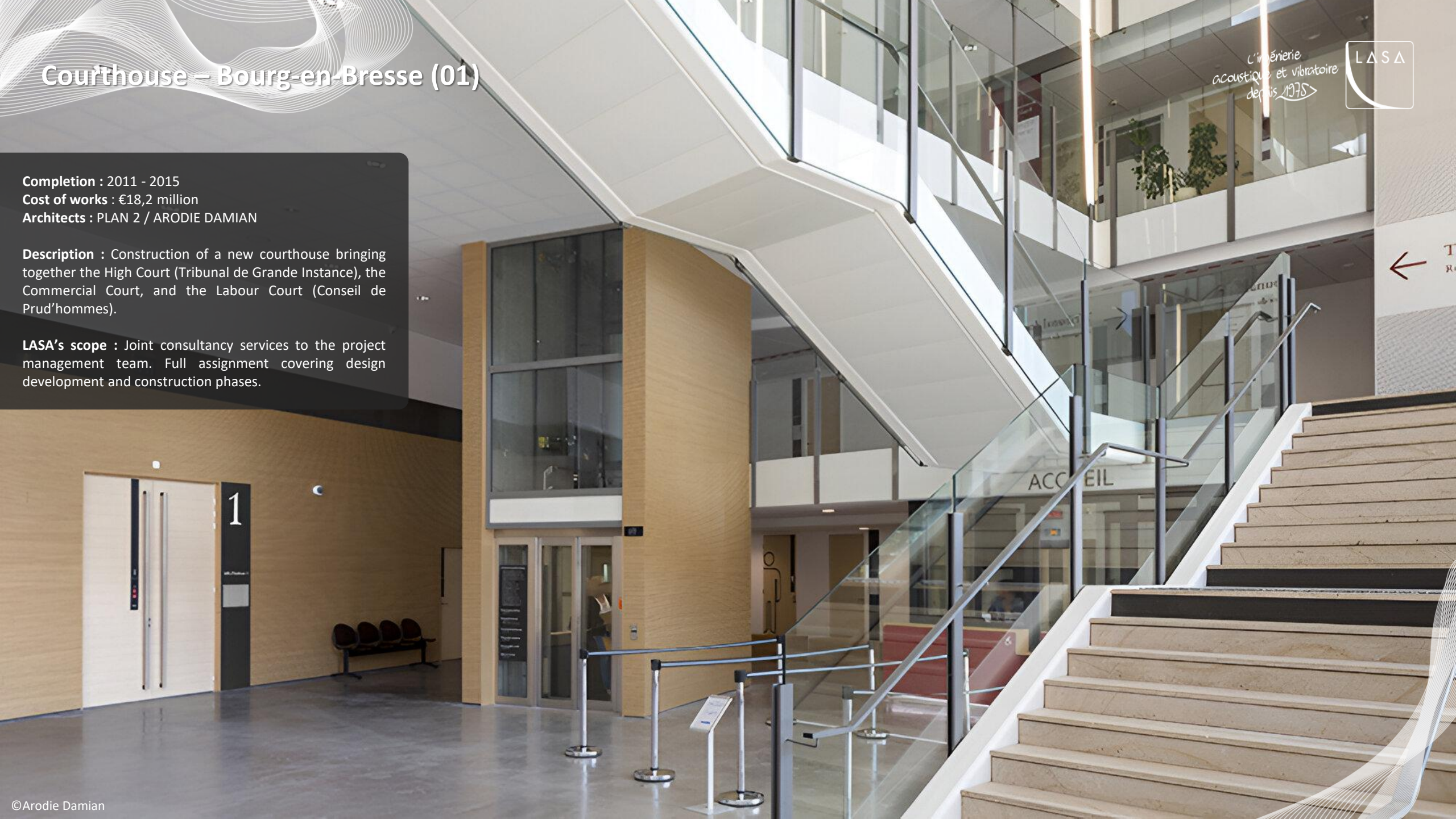
Courthouse – Bourg-en-Bresse (01)

Completion : 2011 - 2015
Cost of works : €18,2 million
Architects : PLAN 2 / ARODIE DAMIAN

Description : Construction of a new courthouse bringing together the High Court (Tribunal de Grande Instance), the Commercial Court, and the Labour Court (Conseil de Prud'hommes).

LASA's scope : Joint consultancy services to the project management team. Full assignment covering design development and construction phases.

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Brossolette High School – Villeurbanne (69)

L'ingénierie
acoustique et vibratoire
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Completion : 2015 - 2021
Cost of works : €24,6 million
Architects : ANMA / AA GROUP

Description : Reconstruction of a secondary school with a capacity of 1,200 students, including 60 classrooms with natural ventilation, a 600 m² school restaurant, a media library, a 200-seat auditorium, and 7 staff housing units. The project also includes the construction of a 3,100 m² multi-purpose sports complex.

LASA's scope : Joint consultancy services to the project management team during design development, construction supervision, and commissioning measurements.

Completion : 2011 - 2021

Cost of works : €12,8 million

Architects : TOURET Architectes

Description : Construction of a platform dedicated to teaching and research in tribology and materials mechanics. The building includes a sensitive equipment platform (1,700 m²), a mechanical fabrication workshop / Fab Lab (850 m²), and laboratories. Phase 1 delivered in 2016; Phase 2 ongoing.

LASA's scope : Joint consultancy services to the project management team under a design-build contract. Full acoustic studies for the entire project, as well as specific vibration studies for the protection of sensitive laboratory equipment.

Campus 2 – La Balme Site – La Balme-les-Grottes (38)

L'ingénierie
acoustique et vibratoire
depuis 1978

LASA

Completion : 2011 - 2013
Cost of works : €8,2 million
Architect : TOURRET ARCHITECTES

Description : Construction of a research building comprising laboratories and office spaces.

LASA's scope : Private contract for project management team services during the design development and construction phases.

