



Exyte France Presentation

March 2021





History of **100+** years



Special expertise in
controlled and regulated environments



Au service des **clients les plus exigeants**
techniquement



Gamme complète de services, du conseil et de la
conception à la gestion de solutions clé en main



Opération centrée sur le client dans **20+** pays



Uniquely positioned to support
clients **locally and globally**



Sales of **€3.9bn** (2019)



Around **5,200** employees (2019) -
highly experienced and motivated



Exyte is a global leader in the design, engineering and
construction of high-tech facilities, plants and factories



Advanced Technology Facilities (ATF)

- Semiconductor
- Flat Panel Display
- Photovoltaics
- Batteries



Life Sciences & Chemicals (LSC)

- Pharmaceuticals
& Biotechnology
- Food & Nutrition
- Consumer Care
- Specialty Chemicals



Data Center (DTC)

- Cloud Computing
- Co-Location
- High Performance
Computing
- Enterprise

Our EHS Commitment

- **EHS Vision**

Exyte is committed to overseeing an incident-free environment through the prevention of injuries, occupational ill health, pollution and operational losses to ensure the safe delivery of our Target Zero and Beyond program.

- **EHS Mission**

People and Environment is our core value applied through all operations to maintain robust global standards.

- **EHS Commitment**

The Executive Committee is responsible for establishing the company's SHEQ policy, monitoring the company's performance through regular leadership reviews and striving for continuous improvement strategies.



Teams & Focus

Our Teams

- The expertise of our 105 employees in France offices is our main strength to successfully supporting our clients and partners in the most demanding areas. Our strategic forecasting, knowledge of local subcontractors and focus on safety allow us to fulfil our contractual commitments with flying colors.
- We are proud of our regular collaboration with key technological players of high tech projects, semiconductor and life science industry. Furthermore, our proven track record of delivering complex construction projects resulted in a long-term commitment to the ITER Project, currently one of the most ambitious energy projects in the world

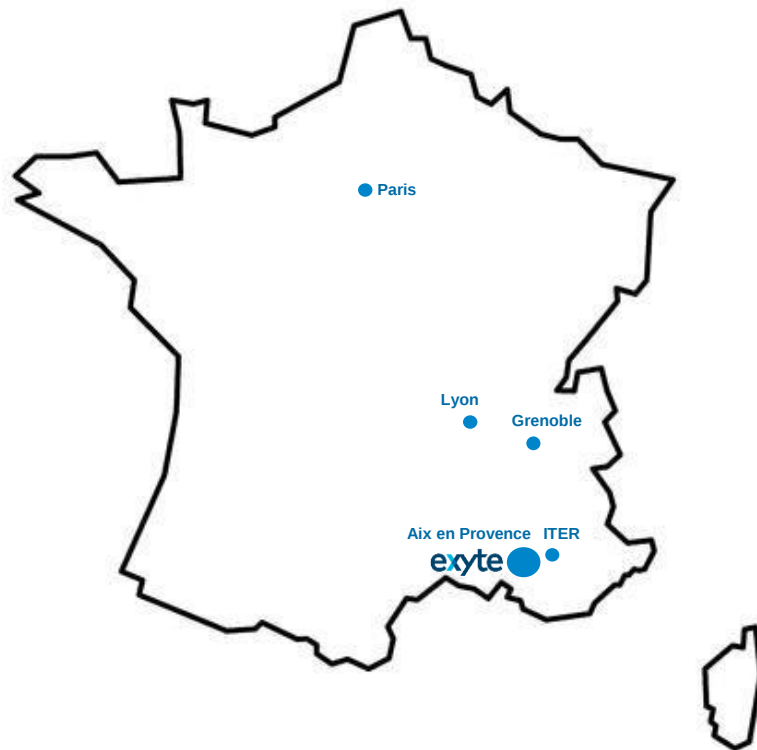
Our Goals

- EPC turnkey projects
- High-Tech Industries
- Lean "autonomous" organization, very responsive and flexible
- Global project approach
- Experienced teams
- Large database
- Cost control and meeting deadlines
- Solid partnerships with French construction companies
- Compliance with French regulations and support for foreign investors

Exyte France

Location

- Creation: 1994
- Headquarters: Aix-en-Provence
- 4 other offices: ITER; Lyon; Grenoble & Paris
- 2018 turnover: 30.4 M €
- 2019 turnover: 40 M €
- 2020 turnover: 37 M €
- Employees: 105
- Certifications: ISO 9001-2008



Means

Aix en Provence

- Headquarters and main office in France
- Design office and project manager dedicated to any project execution

ITER

- Team dedicated to the project in a local office
- € 120 million in studies and services since 2013

Lyon

- New office since 2019
- Future recruitment thanks to strong local development

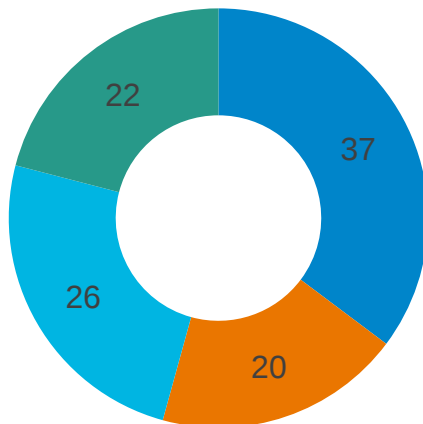
Grenoble

- Engineering and construction team dedicated to the activities of ST Micro-electronic

Paris

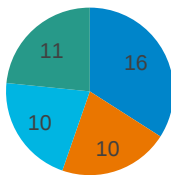
- Business office

Global France

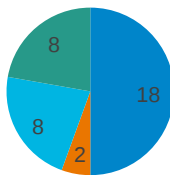


- Engineers & Experts
All disciplines (HVAC - Elec - CSA - Ppiping - Utilities)
- Project Directors & Managers
- Construction Managers & Cleanrooms installers
- Management & Admin staff

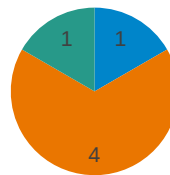
Aix



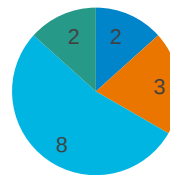
ITER



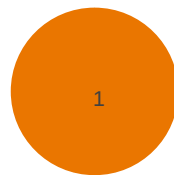
Lyon



Grenoble



Paris



Engineering

MOA

Feasibility studies

Design

3D Model - BIM

Design review

Value Engineering



Construction

EHS

Planning

Supervision & works

Optimization studies

Quality assurance & control

Installation, testing & commissioning



Utilities

Technology & Services



Engineering

Construction

Utilities

Technology & Services

Exyte France has the capacity

- To integrate all trades in internal
- To be responsible for the entire project
 - ✓ Cleanroom macro-batches
 - ✓ Industrial buildings integrating clean rooms including structure / building
 - ✓ Utilities
- To be present throughout the life cycle of your installation



Utilities – Central Utility Building

Electricity	Air conditioning & Ventilation	Instrumentation & Control	Process et Fluid Utilities	Safety – IT security
➤ Production – Normal – Rescued – High Quality ➤ Transport – HTA – BT ➤ Transformation – Static – Dynamic ➤ Distribution – IS333 Tables ... – Bar Sheath – Cable trays ➤ Lighting ➤ Small Force	➤ Cold – Production ≠ Regime – Distribution ➤ Hot – Production ≠ Regime – Distribution ➤ Energy recovery ➤ Air treatment ➤ Extraction – Standard – Heat – Acid – Ammonia – Solvent – Waste treatment	➤ Industrial automation ➤ Tertiary regulator ➤ Instrumentation – Sensors – Actuators ➤ Supervision ➤ GTB / GTC	➤ Pharmaceutical waters – Production – Storage & distribution ➤ Pure vapor / Special gas – Production – Distribution ➤ Non-pharma utilities – Production – Distribution ➤ Collection & processing effluents ➤ Process equipment – NEP – Formulation – Autoclave – Washing machine	➤ Fire – Detection / Extinction ➤ Gas detection ➤ Leak detection ➤ Access control ➤ Intrusion detection ➤ Video Protection ➤ Téléphony ➤ Computer Networks

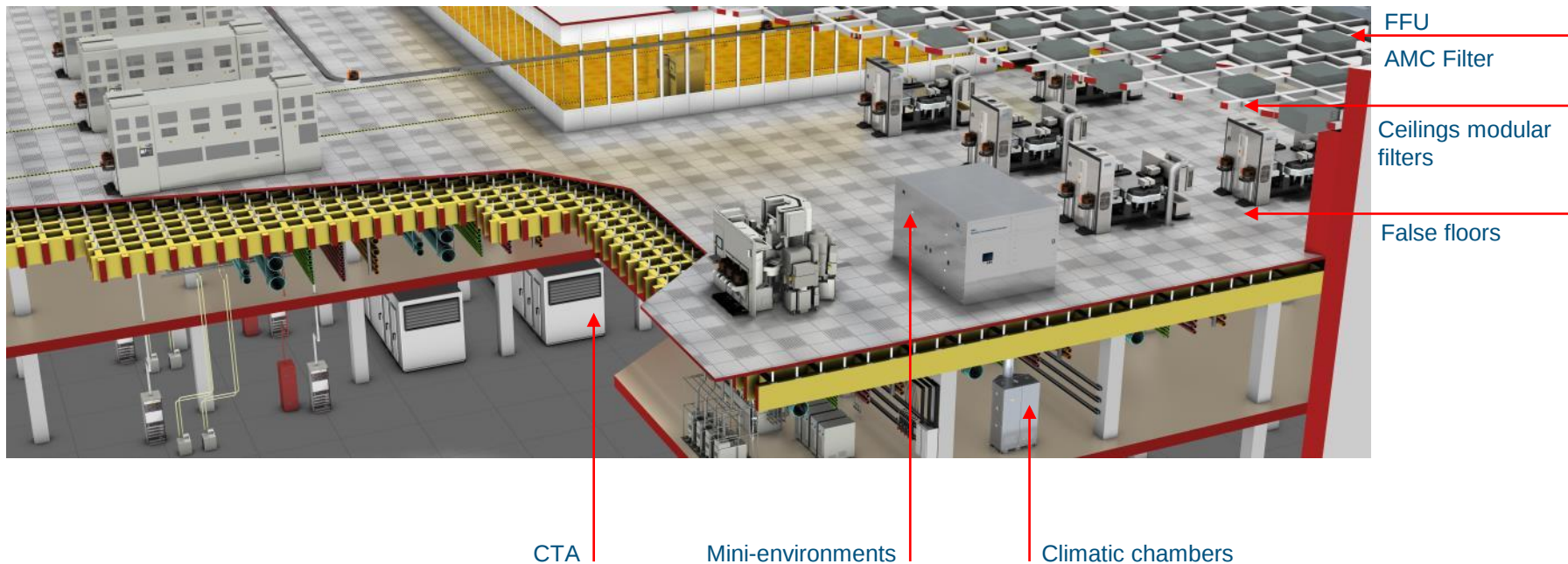
Solutions dedicated to the High-Tech Industry

Reinforced control subsystems

- Temperature regulation ($\pm 0.05^{\circ}\text{C}$)
- Acoustic partitions
- Ultrapure water systems
- Cold groups

Clean room products

- Air showers
- Control systems
- Light fixtures
- Partitions





CWIC®



FFU SILENT



RETURN AIR

Air treatment and recirculation equipment in controlled environment manufactured by Exyte Technology (Germany)



Installation

Integration of customer equipment

Capacity increase, Modernization of facilities

Technical assistance: audit, diagnosis ...

Qualification, testing and commissioning of installations



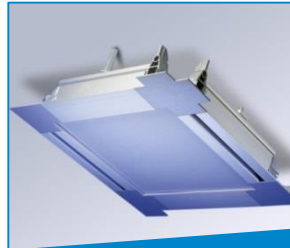
Laminar flows



Caissons de Filtration FFU



Systèmes de contrôle



Faux Plafonds



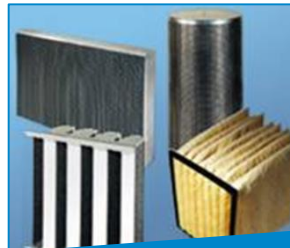
Faux Planchers



Douches à air



Zones de travail isolées



Filtres chimiques AMC

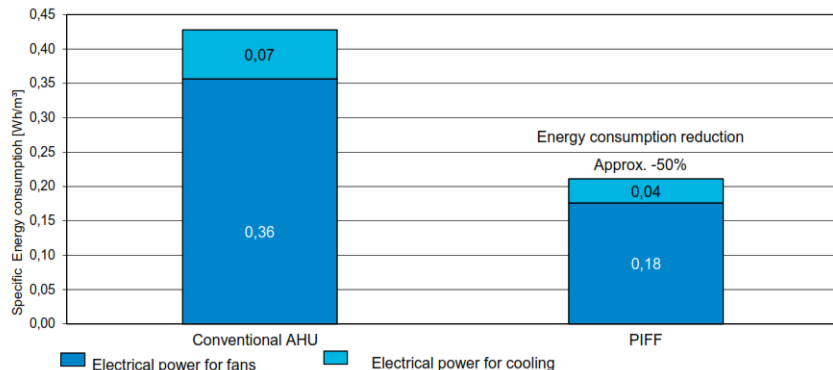


Structures de construction

Benefits of FFU / PIFF solutions

Compared to a solution with a recirculation air handling unit (Recycler):

- Less impact on the building structure / Lower space requirement
- Lower costs for construction, maintenance, operation
- Finer control
- Less impact (no production stoppage) in the event of a breakdown
- Modularity
- Energy savings



FFU's standard and special



ITER TB04

• Project information

- Description: Design and construction for all technical disciplines
- Location: Cadarache, France
- Duration: 2013 – On going
- Scope: EPC: engineering, procurement, construction, qualification and commissioning

• Features & Specifications

- HVAC, Electricity, Instrumentation and Process Control, piping, lifting, overhead cranes for the Tokamak complex and ancillary buildings, lifts, cranes for the Tokamak complex and ancillary buildings
- HVAC:
 - Non-nuclear: 1.000.000 m³ / h
 - Nuclear: 600.000 m³ / h
- Electricity: 15 MW > 30 km of cable tray
- Site: 42 ha

Sartorius

- **Project information**

- Market: BLS/ Pharmaceuticals
- Description: Modification of SAS & support areas
- Location: Aubagne, France
- Duration: 2020 – On going
- Scope: EPC

- **Features & Specifications**

- Upgrading of materials and personnel SAS to standards
- Creation of unclassified support areas
- Plant in production: phased approach to work
- Implementation of a breakdown of the project into 3 phases
- Realization of TCE studies (Civil Engineering, Cleanroom, Fluids, HVAC, Electricity, Soils)
- Budget analysis and savings proposals
- Phasing of works & planning, DCE



Exyte France

References

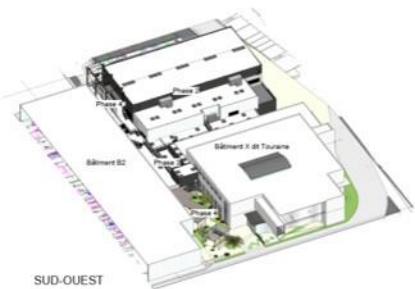
AMHS construction



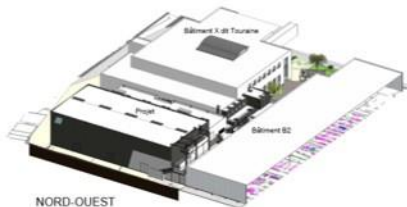
NORD-EST



SUD-EST



SUD-OUEST



NORD-OUEST



STMicroelectronics Tours

• Project information

- Market: ATF/ Semiconductors
- Description: AMHS construction
EPC with building permit deposit
- Location: Tours, France
- Duration: 2019 - 2021
- Scope: EPC: Execution, Construction, Qualification and Commissioning studies

• Features & Specifications

- Cleanroom ISO4 1000 m²
- Corridor ISO6 500 m²
- Unclassified tertiary zone 1000m²
- Earthworks, Building, Partitions, Mesh, FFUs (Compact EC) and PIFFs, false floors, Sprinklers, smoke extraction system, HVAC, Lighting, Command control; Ballroom type clean room



CNIM

- **Project information**

- Market: ATF/ Semiconductors
- Description: Construction of a 2500 m² building. Assembly and cleaning of high precision parts for microelectronics
- Location: La Seyne s/ mer, France
- Duration: 2019 - 2021
- Scope: EPC: Design, Construction, Qualification & Commissioning

- **Features & Specifications**

- ISO 5 Clean room 70 m²
- ISO 7 Clean room 1000 m² equipped with a clean 30 tonne crane
- Grey room 1000 m² equipped with a 20 tonne crane
- 430 m² of support surface
- Earthworks, Building, Partitions, Mesh, FFUs and PIFFs, false floors, Sprinklers, smoke extraction system, HVAC, Lighting, Command control



Merck

- **Project information**

- Marché: BLS/ Pharmaceutical
- Description: Realization of climatic chambers for the QC lab (Tolso Project)
- Location: Molsheim, France
- Duration: 2018 - 2019
- Scope: EPC: EXE studies, works, commissioning and qualification, 3D model

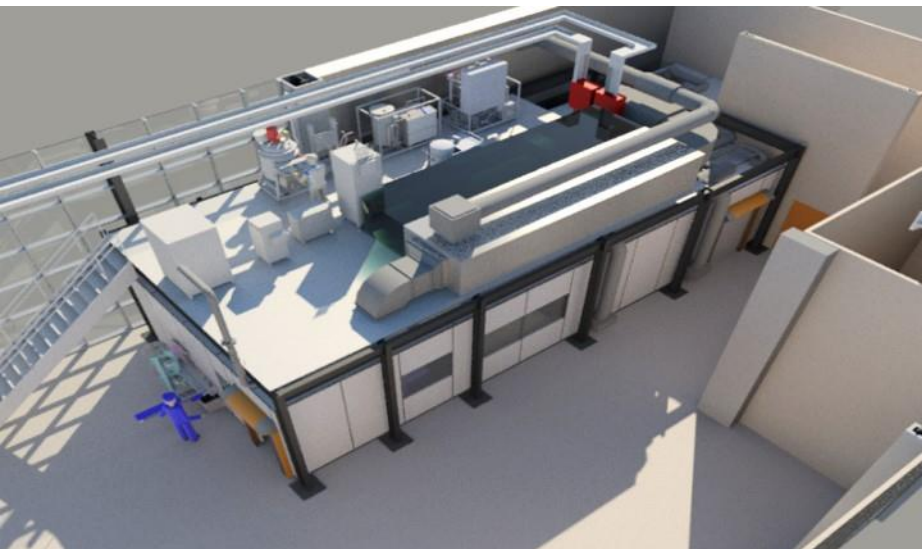
- **Features & Specifications**

- Works in a running plant
- Good Laboratory Practices
- 4 climatic chambers dedicated to fertility and sterility zones (22.5C and 32.5C / HR: 60%)
- HVAC, fluids (compressed air, condensate, chilled water, hot water), Electricity, command control, sprinkler, clean room partitions and ceilings, lab furniture

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References

Clean room creation



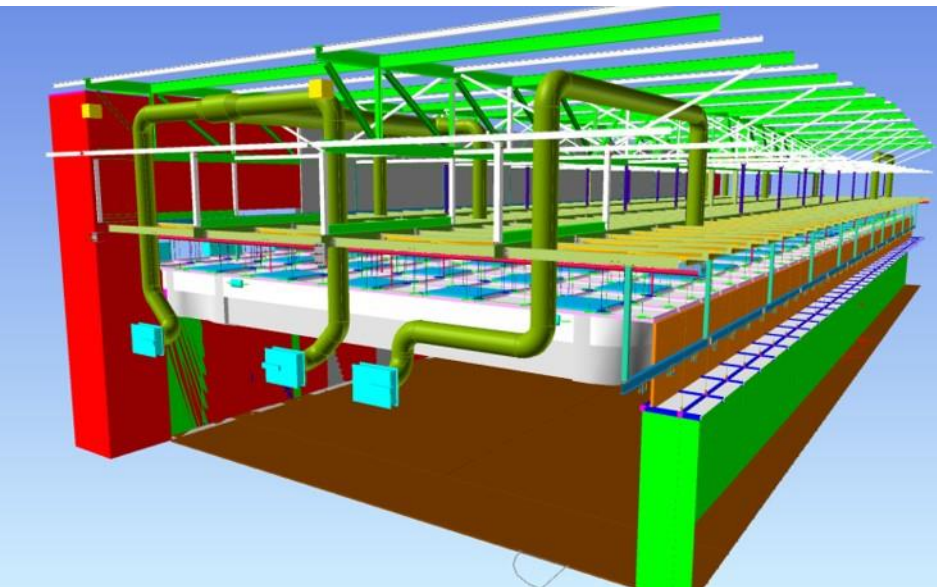
Confidential Client

- **Project information**

- Market: BLS/ Cosmetics
- Description: Creation of a clean room to accommodate a filling machine - TCE
- Location: Manosque, France
- Duration: 2019
- Scope: EPC: APS, APD, 3D model, Works, Commissioning and Qualification

- **Features & Specifications**

- ISO 7 150 m² clean room
- Laminar Flow ISO 5 4.5m²
- Material SAS / Personal SAS ISO 8
- Prior renovation of the existing area
- Construction of the new clean room
- Metal structure, HVAC, Electricity, Control Command, clean room, process integration



STMicroelectronics Crolles

• Project information

- Market: ATF/ Semiconductors
- Description: STM_B224_B226 New Clean room & retrofit
- Location: Crolles, France
- Duration: 2018
- Scope: Fasttrack EPC (4 months): Engineering, Procurement, Construction, Qualification & Commissioning

• Features & Specifications

- Clean room ISO5: 100 m²
- Retrofit ISO5: 580 m²
- Walls, floor (resin & false floor), false ceiling in fluid technology mesh system, PIFFs, Sprinkler, smoke extraction, lights, sensitive cooling, control command, Ballroom type clean room with cleaned Sub-fab



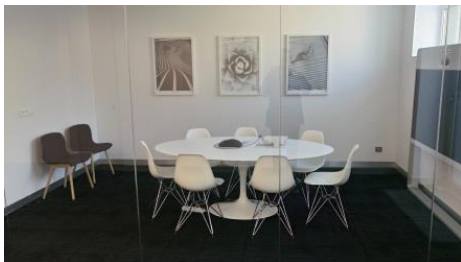
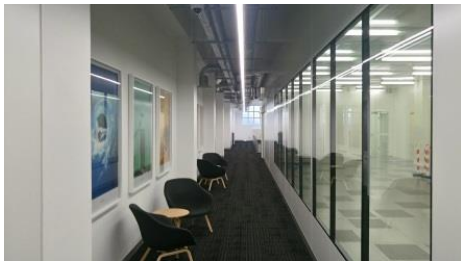
STMicroelectronics Crolles

- **Project information**

- Market: ATF/ Semiconductors
- Description: Construction AMHS & Retrofit CR1 Bis C300
Macro Clean room lot - TCE
- Location: Crolles, France
- Duration: 2017 - 2018
- Scope: EPC: Conception, Construction, Qualification & Commissioning

- **Features & Specifications**

- Clean room ISO5: 980 m²
- Retrofit ISO5: 400 m²
- Extension+AMHS ISO6: 120m²
- Tunnel ISO6: 350m²
- Walls, Mesh, FFUs & PIFFs, false floor, Sprinklers, smoke extraction system, CVC, lightening, Control command; Ballroom type clean room



Wonka Project – Confidential Client

- **Project information**

- Market: ATF/ R&D
- Description: Offices & Clean Room in building to renovate - TCE
- Location: Grenoble, France
- Duration: 2016 - 2018
- Scope: EPC: Execution studies, Purchasing, Construction, Qualification and Commissioning, re-entry of machines, Maintenance

- **Features & Specifications**

- Clean room ISO6 200 m²
- Offices 600 m²
- Technical rooms and server room
- EPC including permits, regulatory support, administrative authorizations
- Clean Room with Exyte FFUs
- Global maintenance contract



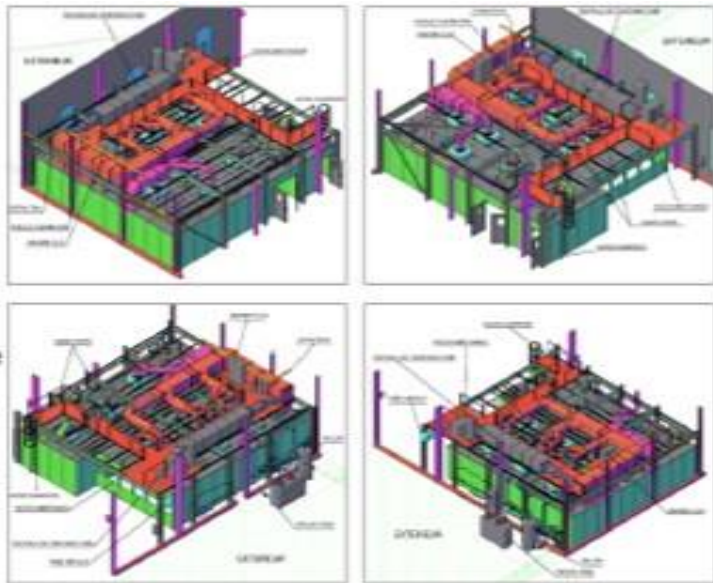
Laphal Industries

- **Project information**

- Market: BLS/ Pharmaceutical
- Description: Revamping of production and storage workshops
Studies - TCE
- Location: Allauch, France
- Duration: 2017
- Scope: APS; APD; DCE

- **Features & Specifications**

- Bringing old workshops up to standard
- ANSM requirements: Assistance for filing a modification file
- Plant in production: phased approach to work
- Implementation of a division of the project into 5 phases
- Realization of TCE studies (Civil Engineering, Cleanroom, Fluids, HVAC, Electricity, Soils)
- Budget analysis and savings proposals
- Phasing of works & planning, DCE



Micro Contrôle Newport

- **Project information**

- Market: ATF/ Metrology
- Description: Construction & Extension of clean room for assembly and metrology
- Location: Beaune la Rolande, France
- Duration: 2013 - 2017
- Scope: EPC: Engineering, procurement, construction, qualification and commissioning in a running plant

- **Features & Specifications**

- Floor & Ceiling, air treatment FFU, Cfo, Cfa, control command, steel structure
- Temperature of the metrology zone: $23^{\circ} \text{C} \pm 0.05^{\circ} \text{C}$
- Low emission VOC
- Vibration constraints (VC-E)
- Cleanroom + ISO6 Extension: 250 m²
- Height: 3 m



NANOLAM – Research Center

- **Project information**

- Market: ATF/ Metrology
- Description: High-tech Clean room & Metrology room
- Location: Saclay, France
- Duration: 2014 - 2015
- Scope: EPC: Engineering, Procurement, Construction, Qualification & commissioning

- **Features & Specifications**

- Refurbishment & CVC extension;
- Floor, ceilings tiles with FFUs, walls, air treatment (temperature, hygrometry, particles), supervision, filtration, ducts, process, electricity, Control command, fire protection, smoke extraction
- Clean room ISO6: 800 m²
- Spectrometry/metrology room: 100 m²



CNIM Assembly Room

- **Project information**

- Market: ATF/ Métrology
- Description: Assembly Room for Optical Alignement
- Location: La Seyne s/ mer, France
- Duration: 2014 - 2015
- Scope: EPC: Design, Construction, Qualification and Commissioning

- **Features & Specifications**

- Macro Clean Room Lot - TCE and industrial washing machine
- ISO7 Clean Room: 600 m²
- Room height: 4.5 m
- Metal structures, process integration (30 m³ industrial washing machine)
- Clean room with Exyte FFUs
- Global maintenance contract



Exyte France

References





Association pour la Prévention et l'Etude de la Contamination

French leader in standardization of clean room technologies, Aspec has existed since 1971 and brings together nearly 900 members from diverse backgrounds and professions with a common goal: to master the problems of particulate, biological or chemical contamination.



L'Association pour les Produits Propres et Parentéraux is a key player in the pharmaceutical and biotechnology industry. Since 1986, it has contributed to the good development of the production of drugs and clean and sterile materials, through its network of suppliers and industrial manufacturers.



Photonics France is the French Federation of Photonics. Created in April 2018, the result of the merger of AFOP, the professional union and the CNOP, the national committee, Photonics France has been committed for more than 120 years for professionals in the optical photonics sector.



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