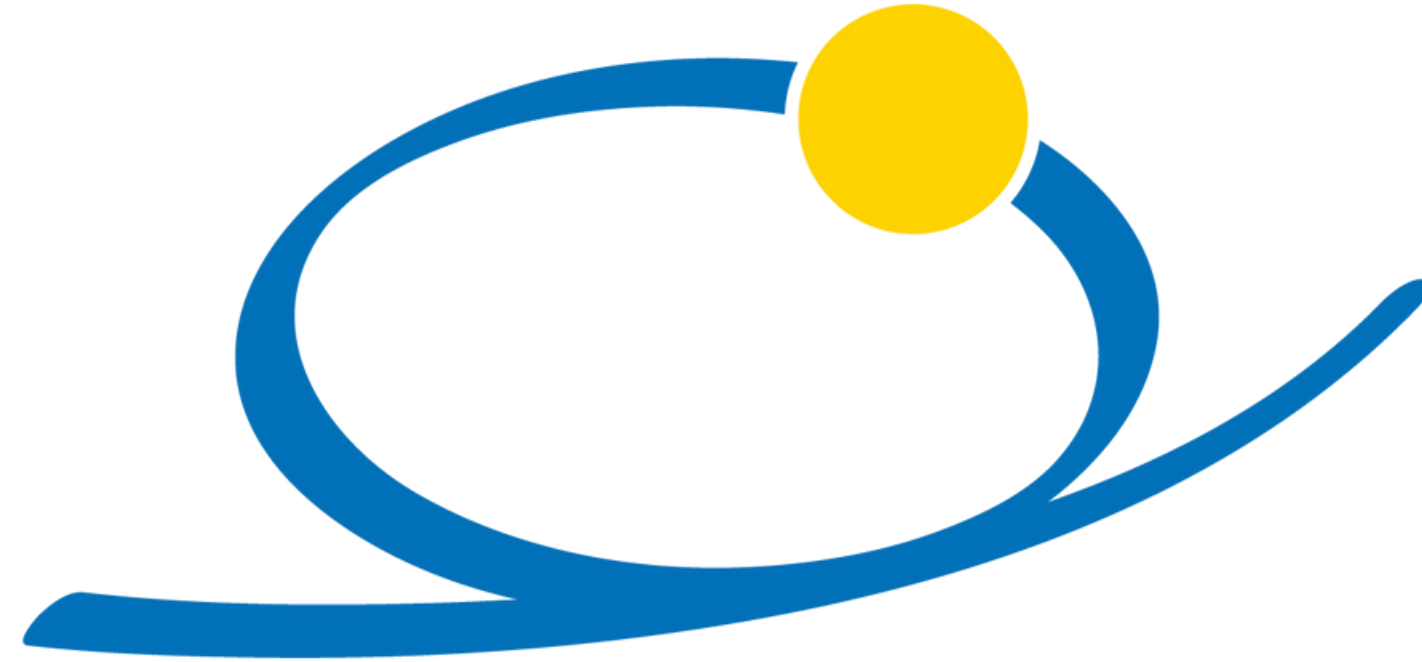




ALCADIA

A concentration of knowledge and expertise

More than 27 years
alongside the largest companies



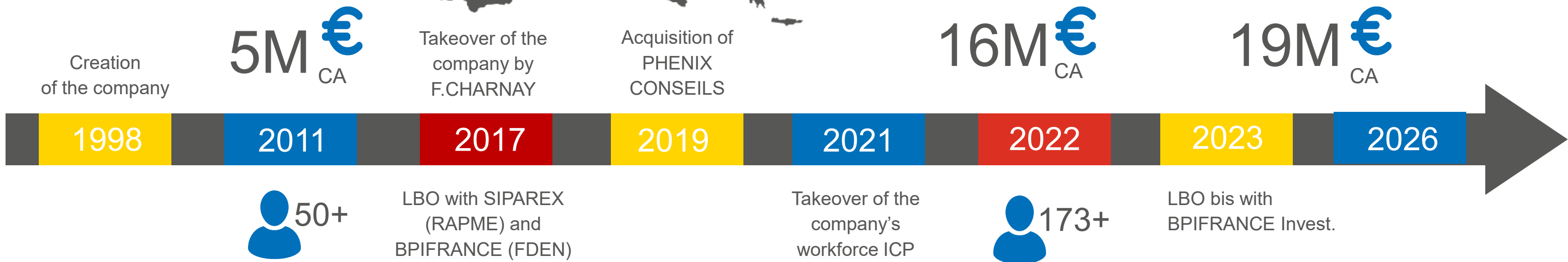
Siège social : Lyon
Bureaux : Paris, Lyon, Tours, Dieppe, Milan



Siège social : Pierrelatte
Bureaux : Pierrelatte

ALCADIA DEVELOPMENT
indipendant company
100% French
owned by:

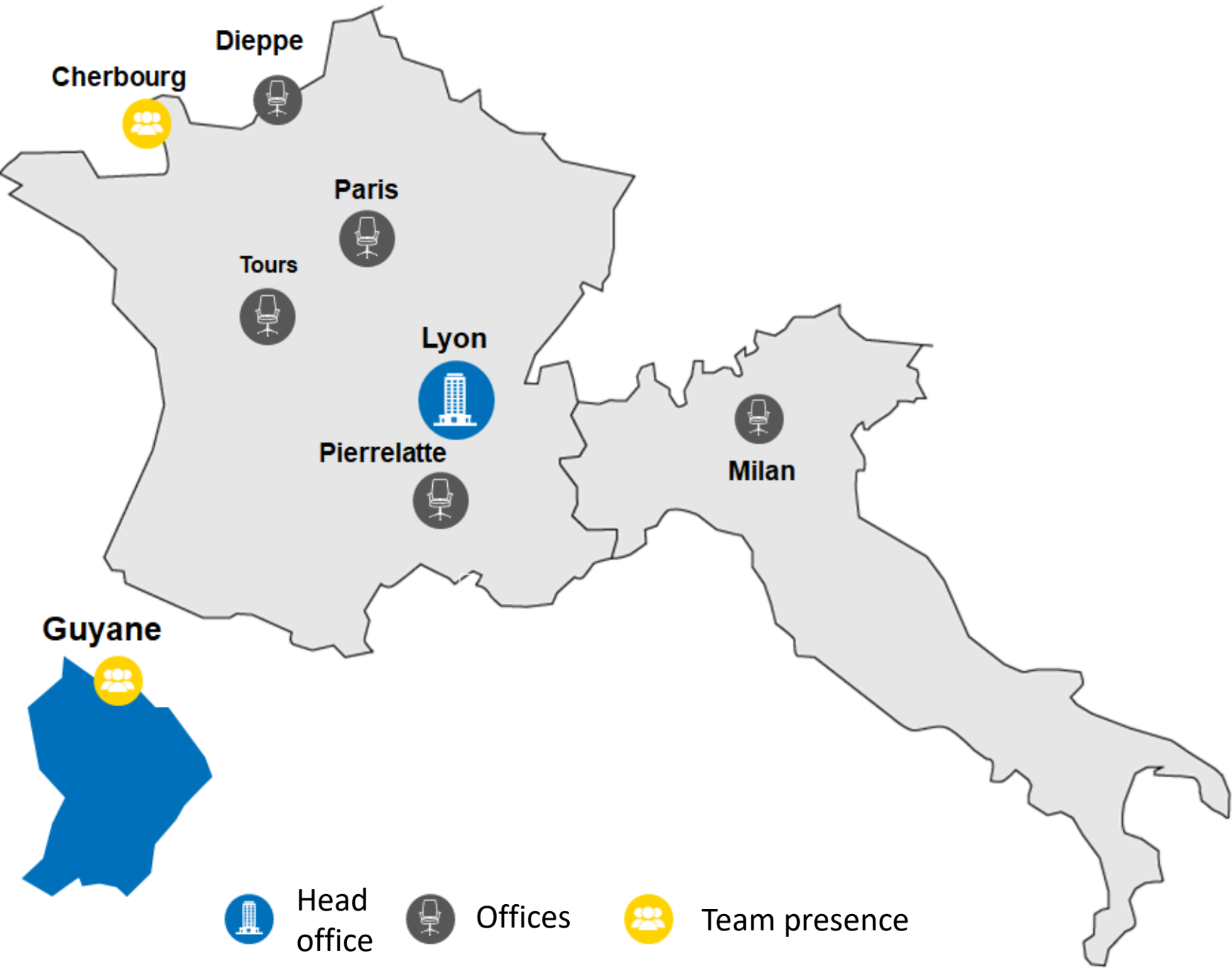
- **84 % compaby** managers and directors
- **16 % investissement** found « Bpifrance »



OUR SECTORS

+19 M€ IN 2025

OUR SITES





ALCADIA ENTREPRISES

13 rue des Emeraudes
69006 **LYON**

Tél : 04 72 84 00 77
contact@alcadia.fr
www.alcadia.fr



OUR HEAD OFFICE



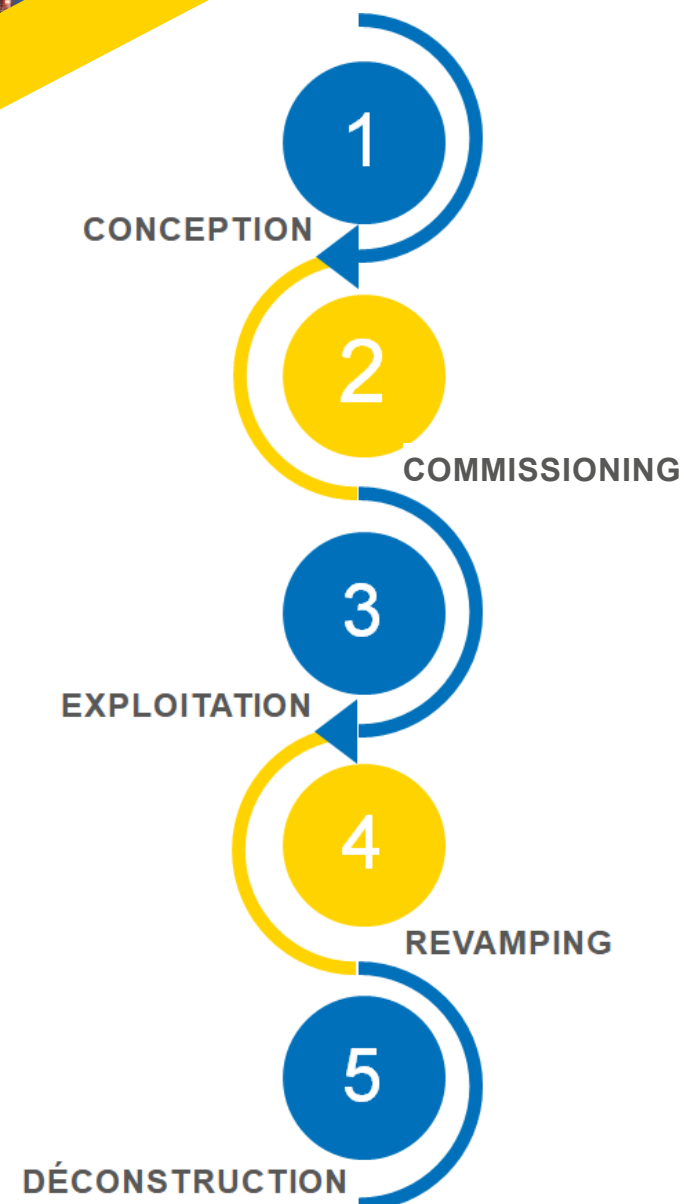
PHÉNIX CONSEILS

ZI Daudel - 17, rue Jean-Baptiste Colbert
26700 **PIERRELATTE**

Tél : 04 75 27 94 84
contact.f@phenix-conseils.com
www.phenix-conseils.com



WHATEVER THE PROJECT PHASE OUR SERVICE OFFERINGS



32%

A – Systems Engineering

Carrying out design studies :
fluid systems, ventilation,
control-command etc.

24%

B - Risk Management

Assessment of the potential
risks to an installation and
development of methods to
keep them under control

19%

C - Exploitation and Maintenance Engineering

Design of rules and
procedures for conduct and
operation, writing of operating
documentation, reliability
studies, etc.



7%

F – Performance Improvement

Strategic support, support for
managers and support for
project scoping

8%

E - Commissioning

Assistance and consulting for
the commissioning of news
installations and performance
test under normal and
degraded regimes

10%

D – Project Management

Implementation of tools and
methods to achieve project
objectives while respecting
costs, deadlines and
performance



FRENCH GUYANA Establishment

- Information processing
- Industrial Computing



Data & IA



Infrastructures

TERTIARY :

- Upstream studies and diagnostics of a project
- Design and planning
- Site monitoring
- Digitization and management of built heritage
- Project owner assistance (AMOA)

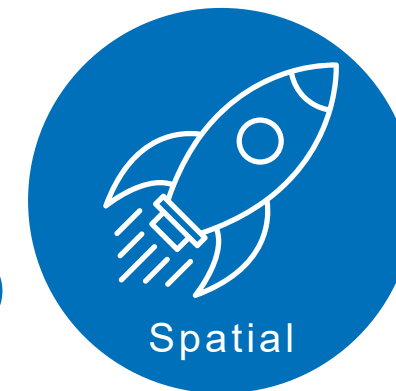
SPATIAL :

- Building Launch Sets

- Project quality support
- Administration, improvement & operation of digital tools
- Supplier audits and investigations



Continuous improvement and quality



Spatial

- Compliance control of space operations
- Participation in launch operations

- Control of major industrial risks
- "Fire" engineering
- Engineering "explosion"
- Training



risk engineering



Environment

- Territorial strategies & sustainable transition
- Environmental management of activities and infrastructure
- Study, management & protection of natural environments





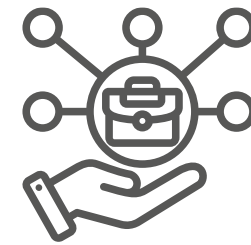
A **SUSTAINABLE** GROUP THAT WILL **ACCOMPANY YOU**



+ 180 employees



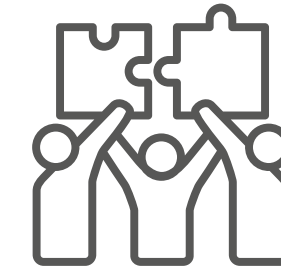
Simplicity &
Agility



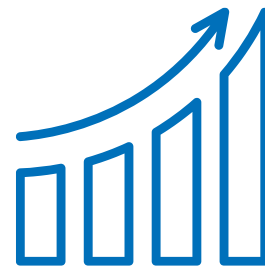
Business center
and network of
experts/referents



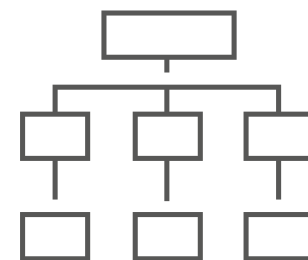
proximity



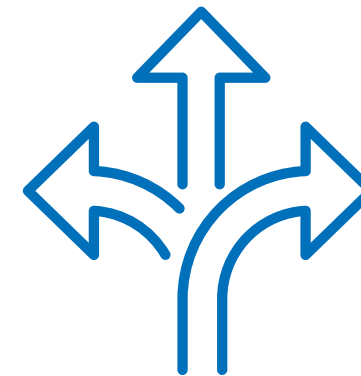
safety
culture,
SSE, SSI
rooted



+ 11% of average
growth rate
revenue



Capability of
Transformation in
Workpackage



Management of project
configurations and
evolutions



+5,1 % dedicated to
the training budget

CREATIVITY - HONESTY - COMMITMENT - RESPECT - EXCELLENCE

Corporate policy & certifications / Evaluations

ALCADIA certified ISO 19443*



n° 348 Q ind1

* ISO 19443: Specific requirements for the application of ISO 9001:2015 by supply chain organizations in the nuclear energy sector providing Important Nuclear Safety Products or services (IPSN)

Quality Policy

Engagement, Politique et Objectifs **Qualité** et **Sûreté** de la Direction pour 2024

Engagement de la Direction

J'ai engagé la société dans une démarche de progrès continu pour anticiper, prévenir et maîtriser ses risques et opportunités. C'est dans cet objectif que je mets en place les actions nécessaires au respect de quatre engagements fondamentaux, consistant à :

- garantir en permanence la fourniture de prestations conformes aux exigences de nos clients, aux exigences légales et réglementaires applicables, y compris en cas de recours à la sous-traitance ;
- gérer les connaissances et compétences et fournir à nos salariés un cadre de travail adapté leur permettant de se concentrer sur les missions qui leur sont confiées ;
- assurer la profitabilité et la pérennité de l'entreprise en proximité de nos clients et de nos partenaires financiers ;
- agir avec loyauté et responsabilité sur les marchés et construire une relation de confiance dans la durée avec nos collaborateurs, clients, sous-traitants, co-traitants et actionnaires.

Dans ce cadre, Alcadia affirme son identité et fixe le cadre moral de son évolution pérenne au travers de sa Charte des valeurs. Cette Charte a pour objectif de créer au sein de l'entreprise un environnement propice à l'épanouissement de chacun et de donner du sens aux actions engagées par la société. Je m'engage à respecter ces valeurs et à garantir aux collaborateurs un droit d'intervention et d'initiative leur permettant de les mettre en pratique et de faire valoir leur point de vue sur les questions éthiques auxquelles ils sont confrontés.

Nous poursuivons la mise en place du Système de Management Intégré (SMI), regroupant les volets Sûreté, Qualité, Santé Sécurité Environnement (SSE), Radioprotection et Sécurité du Système d'Information (SSI). La structure documentaire est en place et les procédures sont en cours de mise à jour afin de mieux intégrer l'ensemble des exigences associées. Dans ce cadre, la priorité absolue à la sûreté nucléaire est donnée en toute circonstance. L'accent est notamment mis sur la maîtrise des activités importantes Pour la Sûreté Nucléaire (IPSN) et sur la maîtrise des activités sous-traitées.

En appui du Responsable de l'Amélioration Continue (RAC) qui pilote la démarche de progrès, un Chargé de Mission QSE est dédié au projet d'évolution du SMI et au suivi de la bonne application du système SSE. La Référente Sûreté, le Responsable SSI et le Responsable Délégué sont chargés de veiller à la bonne application des référentiels sûreté, ANSSI et CEFRI et participent également à cette démarche de progrès. Les Officiers de sécurité assurent la protection des informations dans le cadre de contrats sensibles. Ce personnel désigné dispose de l'indépendance et de l'autorité organisationnelles et me rend compte directement.

En 2023, la société a renouvelé ses certifications ISO 9001, MASE et CEFRI et lancé officiellement la démarche ISO 19443 avec un audit à blanc. J'ai conscience de l'investissement et de la rigueur que cela demande à chacun, au quotidien. Néanmoins, les derniers audits ont mis en évidence des écarts dans l'application des procédures. En 2024 l'accent va donc être mis sur la déclinaison des exigences ISO 19443, la réappropriation de notre système par l'ensemble des acteurs et le contrôle de sa bonne mise en application. Nous allons également poursuivre le déploiement de notre projet de gestion des connaissances (Knowledge Management) et nous focaliser sur la formation, l'accompagnement des managers et continuer le déploiement des filières métier et projet.

ALCADIA est une entreprise humaine qui progresse avec et par ses collaborateurs.

A Lyon, le 13 février 2024

Frédéric CHARNAY
Frédéric CHARNAY
Directeur Général d'ALCADIA ENTREPRISES

SSE Policy

Engagement, Politique et Objectifs **SSE** de la Direction pour 2024

Engagement de la Direction

La nature des prestations réalisées par la société amène nos collaborateurs à intervenir sur des installations industrielles en construction, en exploitation ou en démantèlement (y compris sur des sites classés INB, IMES ou SEVESO).

Dans ce contexte, mon ambition est que nos activités n'aient aucun impact sur la santé des collaborateurs et sur l'environnement. J'ai engagé la société dans une démarche de progrès continu pour anticiper, prévenir et maîtriser ses risques afin de faire de l'entreprise un endroit sûr, respectueux de chacun et de notre environnement.

C'est dans cet objectif que je mets en place les actions nécessaires au respect de trois engagements fondamentaux en matière de santé, sécurité et d'environnement (SSE), consistant à :

- Veiller au strict respect des règles et des obligations légales qui nous sont applicables ;
- Responsabiliser et sensibiliser le management ;
- Développer la culture de prévention des atteintes SSE à l'ensemble de nos collaborateurs.

En 2023 la société a renouvelé ses certifications MASE et CEFRI pour une durée de 3 ans. Dans un contexte de bons résultats et de faible accidentologie, le système de management de la SSE et de la Radioprotection apparaît toujours aussi efficace et pertinent au vu des métiers, des risques et de la dispersion géographique des collaborateurs.

Numéro de référence : n°348 Q ind1

L'arrivée d'un nouveau collaborateur est un événement qui marque le début d'une nouvelle aventure. C'est pourquoi nous nous efforçons d'être efficaces avec une bonne progression des résultats SSE en 2023. Cela s'explique, d'une part, par un meilleur pilotage des activités SSE et d'autre part, par la montée en puissance des relais assurés par les correspondants sur sites. Les remontées terrain ont été nombreuses et le volume de visites sécurité et de causeries spontanées a fortement augmenté. L'accompagnement des correspondants va se poursuivre en 2024 pour renforcer la prise en compte du retour d'expérience du terrain et homogénéiser les pratiques.

Les audits ont mis en évidence la nécessité d'améliorer le suivi périodique des matériels, le suivi des fiches de compagnonnage et l'évaluation de la culture SSE. La sensibilisation sera renforcée sur le suivi des PDP/PPSPS, des déplacements sur sites industriels et de l'exposition des collaborateurs. Une vigilance particulière sera portée sur les nouvelles activités à Penly et les activités en zone contrôlée à Flamanville.

La culture SSE de l'ensemble des collaborateurs doit continuer de progresser, par la formation, la responsabilisation et l'outillage des collaborateurs. Les visites sécurité, les remontées terrain et les causeries doivent être l'occasion d'échanges et de propositions qui permettront d'alimenter notre plan d'actions d'amélioration.

Nous sommes tous acteurs de la prévention et de l'amélioration de nos performances SSE. Je compte sur l'implication de chacun dans la tenue de nos objectifs.

A Lyon, le 13 février 2024

Frédéric CHARNAY
Frédéric CHARNAY
Directeur Général d'ALCADIA ENTREPRISES

RSE Policy

Engagement et Politique RSE pour 2025

Engagement de la Direction

Conscient des enjeux sociaux et éthiques actuels et de l'impact des décisions et activités d'Alcadia Entreprises sur la société et sur l'environnement, j'ai souhaité mettre en place une politique responsable qui :

- respecte les lois en vigueur et les normes applicables,
- contribue au développement durable y compris à la santé et au bien-être de la société,
- prend en compte les attentes des parties prenantes,
- s'intègre dans l'ensemble de notre organisation.

C'est dans ce cadre que j'ai engagé volontairement Alcadia Entreprises dans une démarche d'Amélioration Continue.

Cet engagement s'est traduit par le maintien des certifications ISO 9001:2015, MASE et CEFRI-E, l'obtention de la certification ISO 19443:2018, ainsi que par le renouvellement de notre médaille d'argent ECOVADIS (cf. Annexe).

La politique RSE d'Alcadia Entreprises se décline à travers 6 thématiques présentées ci-après.

Alcadia Entreprises est une entreprise humaine qui progresse avec et par ses collaborateurs.

A Lyon, le 18 décembre 2024

Frédéric CHARNAY
Frédéric CHARNAY
Directeur Général d'Alcadia Entreprises

SSI Policy

NOTE INTERNE N° 20-004

POLITIQUE DE SECURITE DU SYSTEME D'INFORMATION (PSSI) D'ALCADIA ENTREPRISES

Nb de pages : 44 Et 6 annexes

Résumé :
Cette note constitue la Politique de Sécurité du Système d'Information (PSSI) d'ALCADIA Entreprises. Elle présente notamment le Système d'Information de la société, les risques auxquels il peut être confronté ainsi que les dispositions mises en place et les règles de sécurité minimales à respecter pour répondre à ces risques.

Diffusion :

Public ¹	Interne ²	Restreint ³	Confidentiel ⁴
	X		

Nom / Société / Service
Tous les salariés d'ALCADIA
Tous les fournisseurs d'intégration d'ALCADIA
Tous les sous-traitants d'ALCADIA accordant à son SI

Nbre
1
1
1

Objet
Pour application
Pour application
Pour application

Elaboration :

IND.	DATE	Rédacteur		Vérificateur		Approbateur	
		NOM	VISA	NOM	VISA	NOM	VISA
0	30/09/2020	J. FAURE	<i>[Signature]</i>	M. MONTANE	<i>[Signature]</i>	F. CHARNAY	<i>[Signature]</i>

¹ Peut être rendu public sans impact pour la société.
² Ne doit être accessible qu'aux salariés de la société et aux partenaires (co-traitants, sous-traitants).
³ Ne doit être accessible qu'aux salariés de la société.
⁴ Ne doit être accessible qu'aux salariés de la société (ou du Client) normalement désignés.

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RÉPUBLIQUE FRANÇAISE

Certification process underway in 2025



n° 0509069/636F

Certification
ISO 9001 : 2015



n° RA 2023-353

Certification
MASE Rhône-Alpes



n° 682 E

Certification
CEFRI de type E



Global Score
70/100

Spheres of authorization of the legal entity :

- Défense (DGA)
- Spatial (CNES)
- Nuclear (COSSEN)

A blue-tinted background image showing two hands shaking in a firm grip, symbolizing a business deal or partnership. The hands are wearing dark suit sleeves.

CLIENT PORTFOLIO

www.alcadia.fr

Trusted by our clients

Electronucléaire
Nucléaire



Spatial



Autres industries





A blue-tinted background image showing two hands shaking in a firm grip, symbolizing agreement or partnership. The hands are wearing dark suit sleeves.

REFERENCES ALCADIA

www.alcadia.fr



**Business Services and Consulting
Engineering Company
in high value-added sectors**





NUCLEAR



Multi-professional engineering platform - EDF DP2D

...

Definition of principles and criteria for periodic testing and in-service testing



Safety review of the Centraco facilities - EDF CYCLIFE

Dependability tools

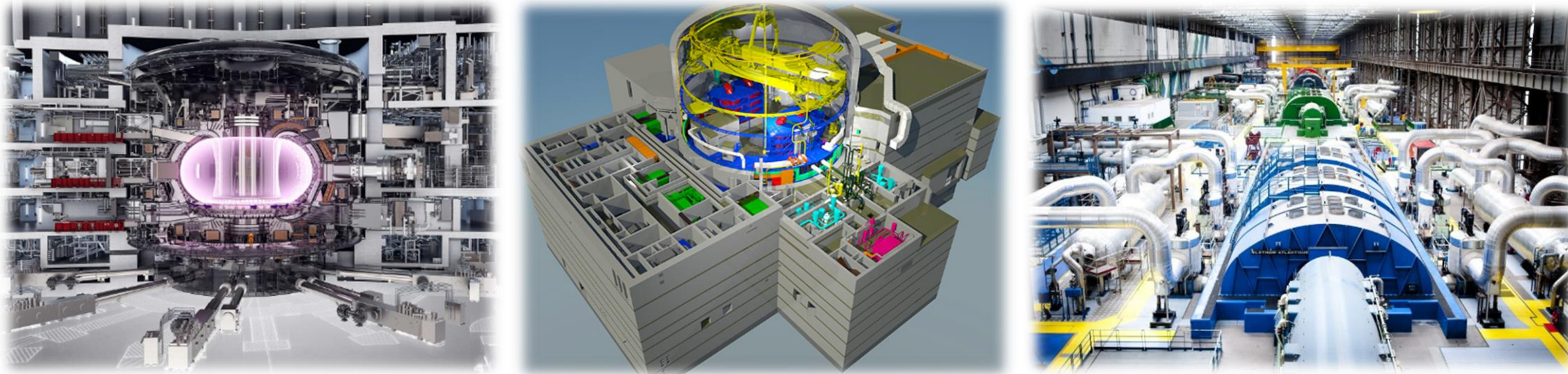
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ENGINEERING DISCIPLINE



16



EXAMPLES OF REFERENCES

Operational studies and conduct rules - EDF DIPDE

Reliability studies, methods, and tools - EDF UNIE

Risk prevention unit and one-stop shop - EPR 2 Penly

AMOA support for nuclear power plants - EDF CNPE

ENGINEERING EXPLOITATION MAINTENANCE

Development of maintenance guides based on supplier documents and feedback elements

Design of rules and procedures for conduct and operation

Drafting the operational documentation

Conducting reliability studies, incident analyses, and taking into account feedback from similar facilities

Definition of periodic tests

19 % du CA

+ 30 years of expertise

5 referents / experts

+ 34 spécialistes

Means & methods :

**SDF, AP913,
AMDEC, TPM**

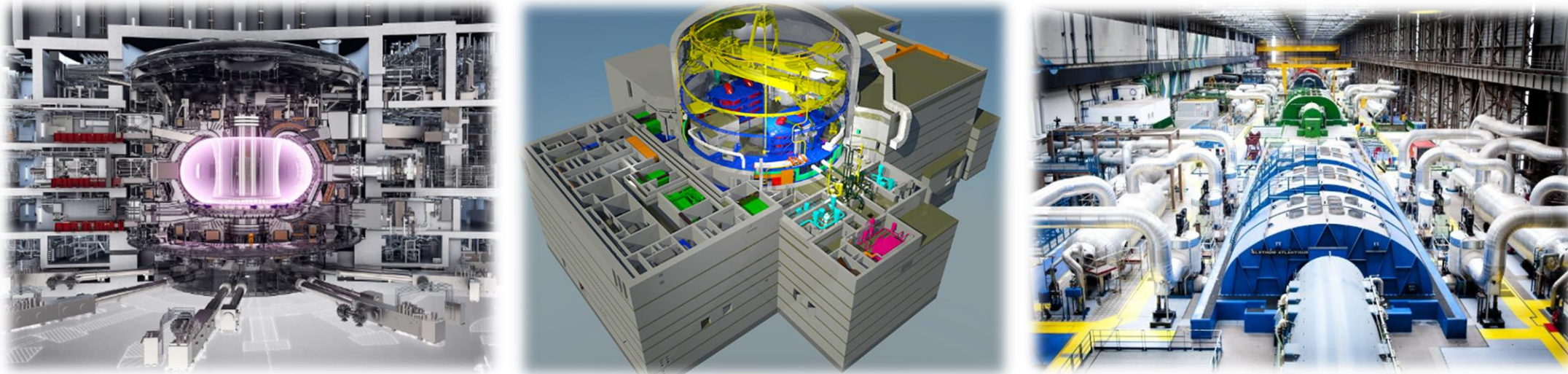
...



ENGINEERING DISCIPLINE



17



EXAMPLES OF REFERENCES

Engineering projects and contract assignments - EDVANCE

Assignments of engineers in charge of business, modifications - EDF DP2D

PROJECT MANAGEMENT

Project monitoring, establishment of master plans

Planning, organization, monitoring of indicators

Project risk assessment and implementation of parades

Creation of tender documents, technical and economic analysis of proposals, selection and choice of suppliers

Technical monitoring of suppliers in the design and implementation phases

Participation in factory and site revenues

+ 10 % du CA

+ 30 years of expertises

4 referents / experts

+ 28 spécialistes

Means & methods :

PMI, MS Project,
CBS, WBS, KM, MV

...



Drafting of CCL test procedures - VALIANCE

...

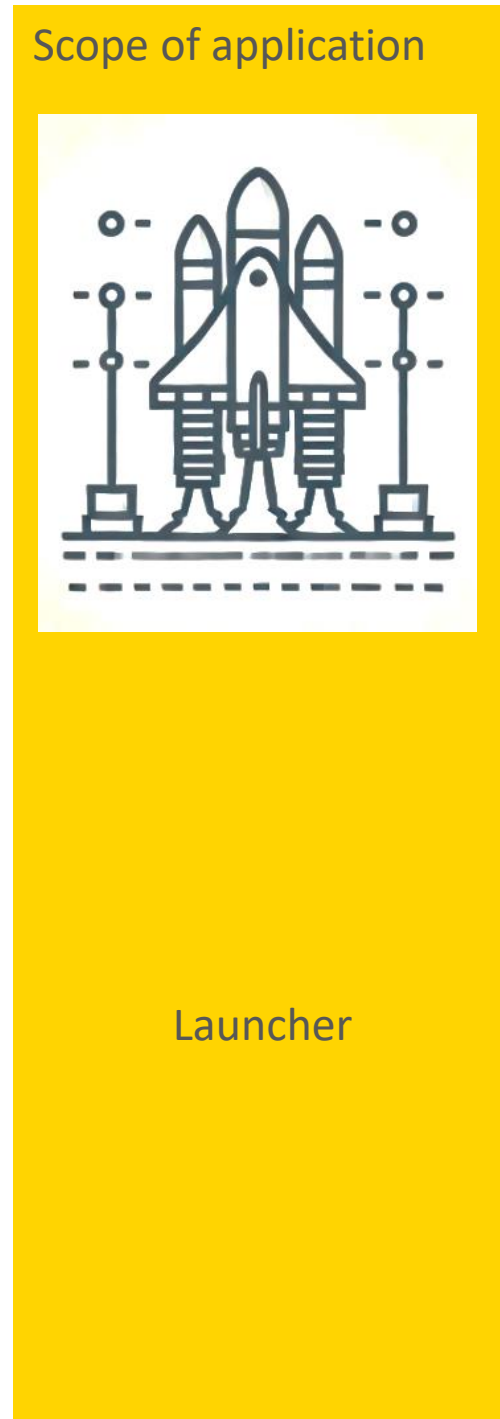
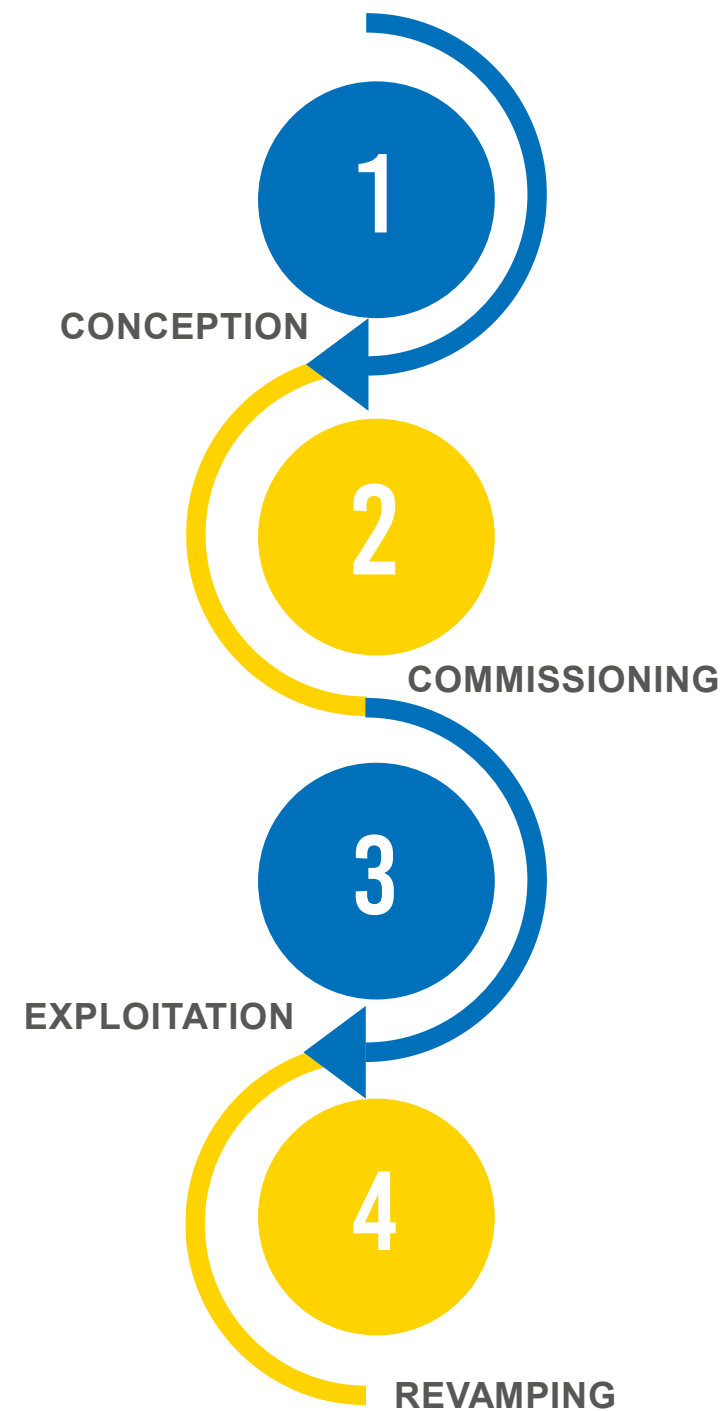
Analysis and monitoring of reserves



SPACE

REGARDLESS OF THE PROJECT PHASE

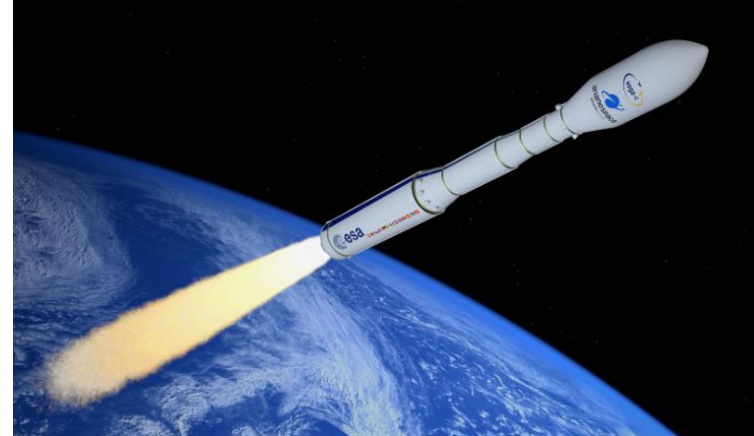
A DOUBLE POSITIONING





ENGINEERING DISCIPLINE

22



EXAMPLES OF REFERENCES

Technical specification for CALLISTO - CNES Ground equipment

Drafting of test plans for Ariane 6 (FM1) - CNES

“Base du future”, micro-launchers of the Guiana space center – CNES CSG

Technical Qualification Tests as part of the "CADENCE" project - CNES

CONTROL & COMMAND

Definition of test plans
Implementation Specification
Participation in technical qualification tests
Monitoring of tests
Analysis and resolution of anomalies
Writing test reports
Post-launch revalidation
EIA technical assistance
Project management, PDR review, CDR

15 % du CA

+ 30 years of expertises

4 referents / experts

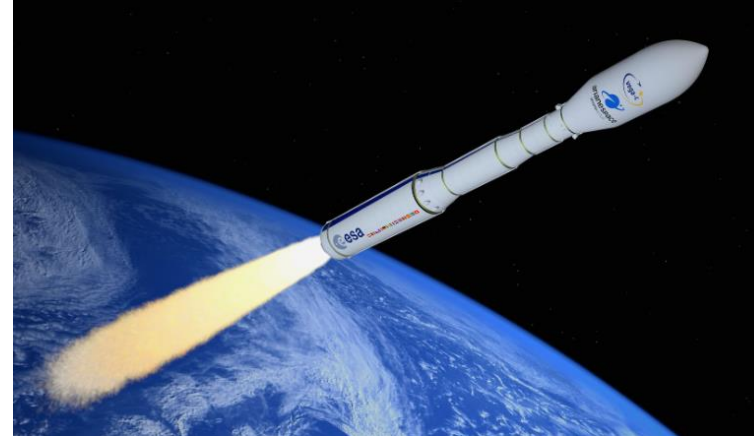
+ 10 spécialistes

software



ENGINEERING DISCIPLINE

23



EXAMPLES OF REFERENCES

Consistency analysis, Product Breakdown Structure verification – MAIA SPACE

Project management support for the T1H, T3 - THEMIS configuration

configuration management

Functional analysis

Technical specification of requirements

Technical specification of the interfaces

Product Configuration Management

Requirements Management

5 % du CA

+ 30 years of expertises

3 referents / experts

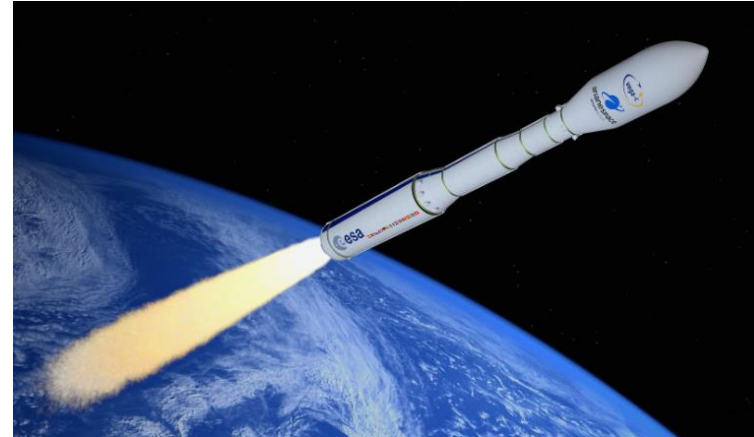
+ 3 spécialistes

Software



ENGINEERING DISCIPLINE

24



EXAMPLES OF REFERENCES

Quality and Dependability framework contract in Guyana – CNES CSG

RAMS study on the SPACE RYDER and VEGA programs – ESA

OPERATIONAL SAFETY AND RELIABILITY

RAMS analysis
Management of anomalies
Facilitation of reliability reviews,
CTA review, CLM Ops review
Supplier Audits
Training and quality management
Risk analysis of operational
procedures

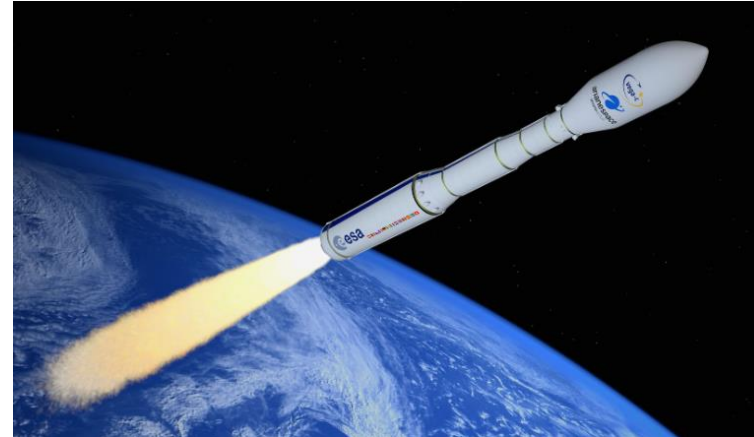
20 % du CA

+ 30 years of expertises

11 referents / experts

+ 15 spécialistes

Software



EXAMPLES OF REFERENCES

Technical support for cryogenic fluid modeling – Space Dreams

Conventional fluid circuit design, Hydraulic, Pneumatic – Space Dreams

Simulation of performance under various operational conditions – Space Dreams

Definition of fluid systems for the Pangea engine - Eu-Best test bench

Definition of the modification of the Oxygen and Nitrogen networks – Ground MAIA

FLUID SYSTEM

P&ID Production

Digital Model

System sizing

Fluid and skid circuit design

Integration guide for general installation

Performance Optimization

20 % du CA

+ 30 years of expertises

5 referents / experts

+ 7 spécialistes

Software resources :

3DX PLM

THBAT

CFD

See Electrical

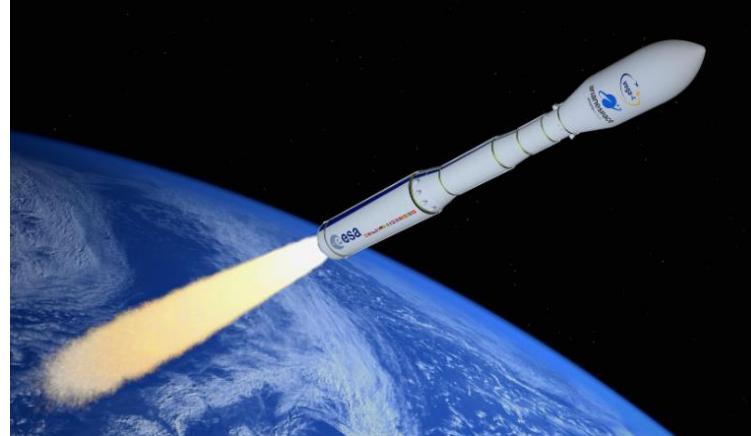
Pipeflow

ECOsims



ENGINEERING DISCIPLINE

26



EXAMPLES OF REFERENCES

Quality and Reliability framework contract based on the CSG - CNES CSG

CTA coordination and monitoring – CNES CSG

QUALITY

Quality management plan

Operational quality

Supplier Quality

Quality control, in the negative
timeline phase

Development of KPIs

Handling anomalies

20 % du CA

+ 30 years of expertises

11 referents / experts

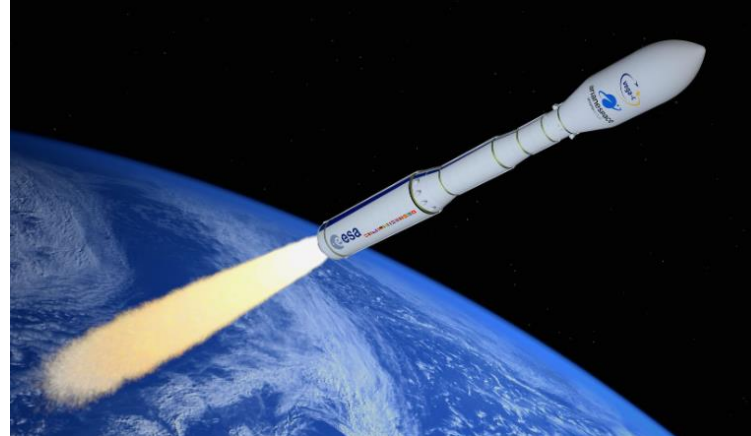
+ 8 spécialistes

...



ENGINEERING DISCIPLINE

27



EXAMPLES OF REFERENCES

Management of requests for regulatory interfaces - CNES

Analysis of preliminary compliance certificates - CNES

Update of regulatory technical procedures - CNES

Monitoring of DTS/LOS indicators - CNES

REGULATORY, L.O.S.

Study of compliance with the
Space Operations Law

GAP Analysis

Supporting Compliance
Documentation

Repository Update

Compliance check

Development of LOS indicators

5 % du CA

+ 30 years of expertises

5 referents / experts

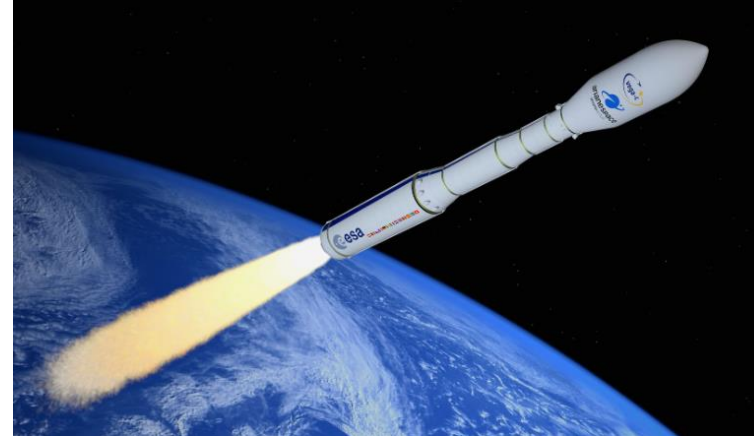
+ 5 spécialistes

Software



ENGINEERING DISCIPLINE

28



EXAMPLES OF REFERENCES

Support for the ELA4 combined trials – CNES CSG

Support for the qualification of Ariane 6 ground resources – CNES CSG

Drafting of the QT P120 transfer test plan – CNES

Verification of the consistency of the launcher concepts through 3D and Virtual Reality
simulations - Callisto

TESTING & COMMISSIONING

Drafting operational procedures

Coordination and monitoring of
combined trials

Monitoring of ADRs

Quality assessment on test
campaigns

Technical note

Operational launch simulation

10 % du CA

+ 30 years of expertises

3 referents / experts

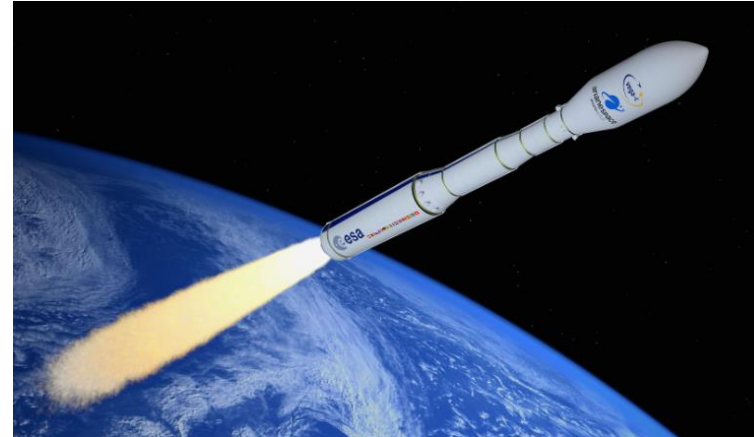
+ 5 spécialistes

Software



ENGINEERING DISCIPLINE

29



EXAMPLES OF REFERENCES

Completion of the DCE, analysis of bids, and monitoring of work until I commission the network and prepare the acceptance report - CNES CSG

Completion of a PRO/DCE, analysis of bids, and monitoring of projects until receipt

Drafting trade-offs and feedback notes – Ariane Next

Support for System Architect activities - CALLISTO project

PROJECT MANAGEMENT, CONTRACT

Development of a project quality plan

Implementation of indicators

Monitoring of equipment supplier contracts

Industrialization of equipment

Infrastructure and tertiary works management

Project ownership assistance

Facilitation and capitalization of feedback

5 % du CA

+ 30 years of expertises

3 referents / experts

+ 80 spécialistes

Software



FRENCH GUYANA activities



TERTIARY INFRASTRUCTURE



Thibaud

Architect

ENGINEERING DISCIPLINE



AREAS OF COMPETENCE

- Site and context analysis (environmental, geotechnical and regulatory);
- Technical, economic and environmental feasibility studies for new construction/rehabilitation;
- Pre-operational studies (RHI, RHS, OPAH, etc.);
- Structural and functional diagnosis of existing structures' uses;
- Preparation of grant application files (AAH, MaPrimRenov', Action Logement, ADEME, etc.);
- Risk assessment;
- Architectural surveys (classified buildings of the Salvation Islands, tertiary EDF SEI buildings);
- Renovation of insanitary housing (project management).

STUDIES AND DIAGNOSTICS UPSTREAM OF A PROJECT



Blueprints and needs studies.



Pre-operational and feasibility studies of development or construction operations (new, rehabilitation, renovation, compliance with standards).



Risk analyses and financial estimates.



Architectural metred surveys.



Habitat improvement.

ENGINEERING DISCIPLINE



AREAS OF COMPETENCE

- Development of design dossiers (AVP, PRO, DCE, etc.);
- Building permit filing;
- Proficiency in CAD/CAM tools (AutoCAD, Archicad, Twinmotion, etc.);
- Sizing of structures;
- Drafting of tender dossiers and participation in the analysis of tenders;
- Interdisciplinary technical coordination;
- Time, cost and resource management.

DESIGN AND PLANNING



Development of graphic documents law MOP (sketches, preliminary drafts).



Programming studies.



Development and monitoring of study schedules.

ENGINEERING DISCIPLINE



AREAS OF COMPETENCE

- Coordination and management of construction companies;
- Quality control and compliance with plans;
- Monitoring deadlines and costs / grant management;
- Management of technical hazards;
- Reporting and communication with the project owner.

CONSTRUCTION SUPERVISION



Scheduling, Management, and Coordination (OPC) missions.



Completion of work schedules.



Follow-up of execution until delivery and lifting of reservations.

ENGINEERING DISCIPLINE



AREAS OF COMPETENCE

- 3D survey / Laser scan;
- BIM modeling of existing heritage;
- Analysis of the state of conservation;
- Maintenance monitoring and planning;
- Establishment of heritage databases.

DIGITIZATION AND MANAGEMENT OF BUILT HERITAGE



3D BIM modeling of new or existing buildings.



Support for the digitalization of maintenance and technical management systems (BIM-GEM, CMMS).

ENGINEERING DISCIPLINE



AREAS OF COMPETENCE

- Technical diagnosis of the Hôtel des Roches in Kourou;
- Feasibility study of a rainwater harvesting system on Île Royale;
- Diagnosis of the roads in Kourou;
- Project management mission for the renovation of the AEP network in the supervisory district on Île Royale;
- Project manager for the renovation of the Manguier hotel;
- Assistance mission to project owner for the rehabilitation of the Corissante residence in Kourou.

BUSINESS ANALYSIS (AMOA)



Drafting simple specifications (allotment) or complex specifications (design-construction) for calls for tenders (project management, works).



Strategic and technical support throughout the projects.



SPACE INFRASTRUCTURES



Mickael
Site supervisor

ENGINEERING DISCIPLINE



EXAMPLES OF REFERENCES

- Participation in the construction of ARIANE 5, ARIANE 6, VEGA C and SOYOUZ launch pads;
- Participation in the BEAP test bench qualification for the P120;
- Participation in the construction of the CALISTO, ELM and Diamant test sites;
- Participation in the operation of existing ZL3 and ELM2 sites (ELS);
- Deconstruction of obsolete facilities.

CONSTRUCTION OF LAUNCH ASSEMBLIES



Participation in the construction of ground resources (TCE projects, civil engineering, VRD, metal structures, energy and automation, conventional and cryogenic fluids).



Participation in technical tests and combined tests.



Participation in the development of existing ground resources.



Maintenance of ground assets in operational conditions.



Ensured the use of existing ground resources.



ENVIRONMENTAL



Florie

ENVIRONMENTAL Engineer



EXAMPLES OF REFERENCES

- Update of the waste register of CNES and its service providers on the CSG;
- Environmental rounds on the CSG;
- Facilitation and participation in awareness-raising/talks (eco-friendly actions, eco-driving, waste treatment, etc.);
- Drafting of the CCTP for the sustainable food plan, the mobility plan, and the waste management audit for CNES;
- Completion of the internal carbon footprint assessment.

TERRITORIAL STRATEGIES & SUSTAINABLE TRANSITION



Analysis of needs, challenges and objectives in the context of support for drafting specifications for defining territorial strategies (biodiversity, waste management, energy transition...).



Monitoring the application of waste management regulations (traceability control, environmental rounds, etc.).



Assistance in the development of innovative projects in energy transition, from feasibility to deployment (analysis of needs, choice of solutions, regulatory and technical support).



Contribution to the implementation of CSR approaches: analysis of issues, monitoring of indicators and support for continuous improvement.

ENGINEERING DISCIPLINE



EXAMPLES OF REFERENCES

- Review of the environmental analysis of all space base activities;
- Verification of compliance with ISO 14001 requirements and monitoring their operational implementation.

ENVIRONMENTAL CONTROL OF ACTIVITIES & INFRASTRUCTURE



Monitoring of regulatory compliance (monitoring, field audit, monitoring of environmental indicators, control and treatment of non-conformities).



Assistance in carrying out projects and files subject to regulatory procedures (environmental assessment, impact study, AEU, IOTA, DEP and AOTM files, etc.).



Monitoring and continuous improvement of an EMS compliant with ISO 14001; carrying out environmental analyses of industrial activities with implementation of action plans.



Ecological monitoring of the works to ensure compliance with natural issues (control of rights-of-way, marking of sensitive areas, wildlife surveillance and compliance with ERC measures).

ENGINEERING DISCIPLINE



EXAMPLES OF REFERENCES

- Energy and environmental survey in the Iles du Salut.

STUDY, MANAGEMENT & PROTECTION OF NATURAL ENVIRONMENTS



Carrying out ecological diagnoses of sites, wildlife/flora and habitats naturalist inventories, implementation of management and restoration actions for degraded environments.



Analyses of the ecological impacts of human activities and pollution on ecosystems.



Use of ecotoxicological and chemical data to assess impacts on natural environments (discharges, contamination, bioaccumulation, etc.).



Implementation, monitoring and evaluation of conservation measures and ERC and ORE measures.



SPATIAL



Bastien
Space Engineer



EXAMPLES OF REFERENCES

- Operations checks on the VEGA C, ARIANE 5 and ARIANE 6 launchers;
- Compliance checks on fluid, mechanical-pyrotechnic, and avionic launcher operations.

COMPLIANCE CONTROL OF SPACE OPERATIONS



Decision support on the acceptability of risks with respect to the feared event.



Identification of residual risks regarding feared events.



Gathering additional information from launch operators (anomalies, procedures carried out, etc.).

ENGINEERING DISCIPLINE



EXAMPLES OF REFERENCES

- Support for the development of operational procedures for ARIANE 6;
- Review and facilitation of the Anomaly Treatment Commissions / follow-up, investigations, coordination, and correction of anomalies;
- Operational Ground Processes Interface / Electrical Ground Processes Interface (a system that allows you to control the orders sent to the launcher from the ground);
- Development of data exploitation scripts and integration with the operating configuration;
- Implementation of sensor installation sites.

PARTICIPATION IN LAUNCH OPERATIONS



Provision of organization and qualification of ground resources.



Technical support in the mechanical and fluid fields.



Implementation of process interfaces, operation of test measurements and assistance with campaign activities.



Exploitation of test data and monitoring of construction sites.

ENGINEERING DISCIPLINE



EXAMPLES OF REFERENCES

- Participation in Maintenance in Operational Conditions (MCO):
 - In the project phase (Operational Qualification);
 - In launch campaign (RTM support);
- Monitoring of the technical qualifications of certain projects;
- Management and monitoring of technical and operational documentation;
- Management and monitoring of transport/equipment rotations at stations;
- Entry/completion of Modification Requests (DM) and Modification Proposals (PM).

PARTICIPATION IN LAUNCH OPERATIONS



Preparation and configuration of the telemetry system.



Technical support for RTM (Telemetry Manager) teams.



Management of technical facts (anomalies).



Support for operational activities.



DATA & IA



Franck

Data & IA Engineer

ENGINEERING DISCIPLINE



AREAS OF COMPETENCE

- Exploratory analysis, feature engineering, and leading indicators;
- Development of optimization, diagnostic and prediction algorithms;
- Implementation of machine learning solutions, predictive analysis and intelligent agents;
- Redesign, consolidation, audit, and securing of scientific and industrial code databases;
- Design of durable tools: readable, traceable and adaptable in the long term.

INFORMATION PROCESSING



Update, audit and redesign of critical business tools, in compliance with regulatory requirements.



Development of innovative solutions for the processing, analysis and valuation of data from monitoring, maintenance or acquisition systems.

ENGINEERING DISCIPLINE



AREAS OF COMPETENCE

- Implementation of industrial acquisition systems: sensors, automation, RFID, CTM;
- Administration of technical databases (SQL Server) and network integration (Active Directory, GPO, VLAN, security);
- Robust structuring of data flows from the field to the processing centers.
- Development of industrial application tools and supervision (.NET, C#, LabView, Siemens/Schneider automation).

INDUSTRIAL IT



Expertise in industrial automation and data intelligence to cover the entire chain: from field acquisition to decision support.



Acquisition of terrain data.



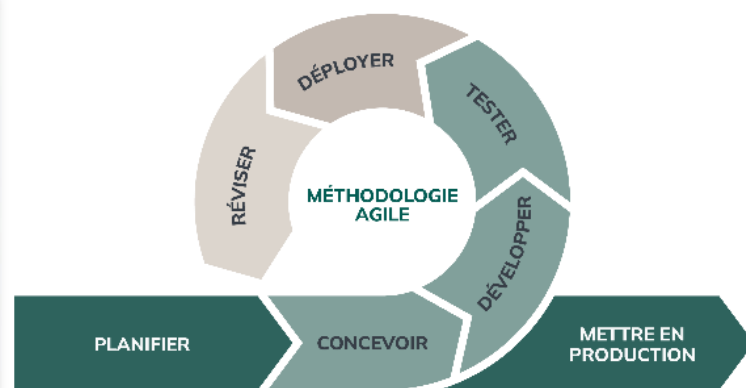
QUALITY AND CONTINUOUS IMPROVEMENT



Maxime

Quality and Continuous
Improvement Engineer

ENGINEERING DISCIPLINE



EXAMPLES OF REFERENCES

- Methodological support for CSG project managers;
- Creation and animation of a project management toolkit (JIRA CONFLUENCE);
- Deployment of project management methods (V-cycle, Agile, etc.);
- Training of project managers in the Project Support Pathway (PAP);
- Management and animation of a community of project managers.

PROJECT QUALITY SUPPORT



Production of documentary and methodological quality project support.



Provision of different project management methods (V-cycle, Agile, etc.) and areas for improvement.



Assistance with the deployment of project management tools.



Training and methodological support for project managers on a daily basis.



Overall monitoring of project quality indicators and progress.

ENGINEERING DISCIPLINE



EXAMPLES OF REFERENCES

- Management of the electronic document management (EDM) tool;
- Member of the project to create a common CNES multi-center EDM;
- Deployment and management of the Technical Fact Management Tool (CAIAM);
- Preparation, animation, and processing of anomaly processing commissions (CTA), user support, and client process improvement;
- Preparation, animation and processing of Local Commissions for Technical and Operational Modifications (CLM T and CLM OPS), user support and improvement of the client process.

ADMINISTRATION, IMPROVEMENT & OPERATION OF DIGITAL TOOLS



GED: Functional administration of the tool and daily management, training for information managers and users.



CABIAI: Functional administration of the tool, user training, problem solving and improvements.

ENGINEERING DISCIPLINE



EXAMPLES OF REFERENCES

- Conducting supplier audits for various CSG manufacturers (ESQS, APCO, ADF, TPZ, LGM, etc.) to establish their compliance with contractual requirements;
- Conducting surveys on behalf of the CNES CSG quality department on various topics (EDM documentary survey by department, energy consumption survey on the Royal Island of the Salvation Islands...).

SUPPLIER AUDITS AND INVESTIGATIONS



Conducting supplier audits and various surveys based on an annual plan.



Upstream preparation and organization of supplier audits.



Carrying out audits, presenting findings and drafting a report with the various findings made available for monitoring actions.



RISK ENGINEERING



Jean-François

Infrastructure & Energy Engineer,
Construction & MCO

ENGINEERING DISCIPLINE



AREAS OF COMPETENCE

- Fire risk and vulnerability studies on industrial installations;
- Creation of a document related to explosion protection;
- Technical assistance for fire/explosion prevention during technical shutdown;
- Updating the Special Intervention Plans (PPI);
- Post-accident assessments on the causes of the fire.

CONTROL OF MAJOR INDUSTRIAL RISKS



Hazard, impact and PPRT implementation studies.



Fire risk studies.



Explosion risk studies.



Development of contingency planning.



Expertise and feedback.

ENGINEERING DISCIPLINE



AREAS OF COMPETENCE

- DECI studies (External Fire Defense), sizing of the water-fire network;
- Studies on the implementation of technical provisions for the prevention and forecasting of fire-related risks;
- Demonstration of fire risk control for safety reports;
- Inventory of heat loads in a constrained environment;
- Implementation of POI (Internal Operation Plan) / PUI (Internal Emergency Plan), inter-facility agreements, and associated training.

ENGINEERING "FIRE"



Studies and engineering of fire protection (sizing of protective equipment, DECI studies, etc.).



Risk analysis and modelling (propagation and fire resistance studies).



Operational management and emergency plans (development of fire scenarios, response procedures and associated POI/PUI defense plans).



Coordination in the fire safety system.



Management and containment of fire effluents.



Smoke extraction engineering.

ENGINEERING DISCIPLINE



AREAS OF COMPETENCE

- Inventory and ATEX zoning in a constrained environment;
- Preparation of a document on explosion protection;
- Detailed analysis of the framework of a building.

ENGINEERING « EXPLOSION »



ATEX studies and regulatory compliance (ATEX compliance studies, regulatory studies and summary of requirements for industrial users).



Explosion risk analysis (evaluation and analysis of the consequences of explosions, analysis of the response of the structure and protective envelope to explosions, detailed modelling of the elements).



Technical assistance in the context of operations.

ENGINEERING DISCIPLINE



AREAS OF COMPETENCE

- ATEX awareness;
- Fire permit (hot spot work);
- Crisis management and POI exercises;
- Fire risk analysis methodology;
- ICPE regulation;
- Chemical and radiological risk intervention, etc.

FORMATION



Pedagogical engineering on all themes.



Intervention in situations of technological risk.



PHENIX
CONSEILS

LES SPÉCIALISTES DE L'INCENDIE & DES RISQUES

**An engineering company
specializing in the control of
industrial risks.**



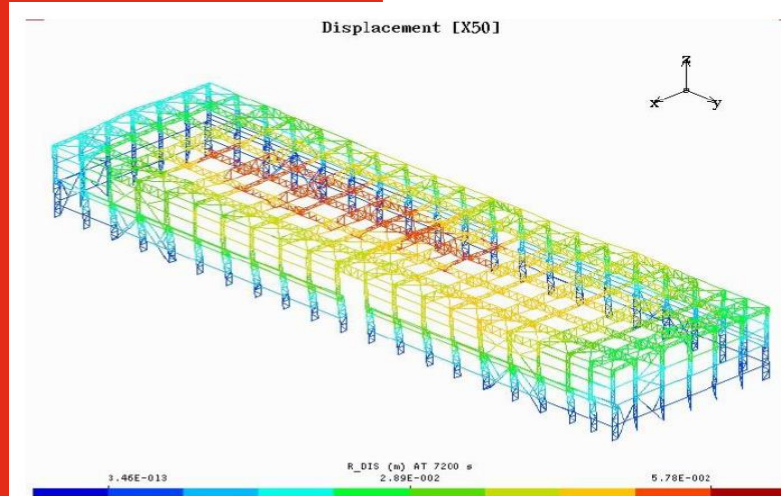
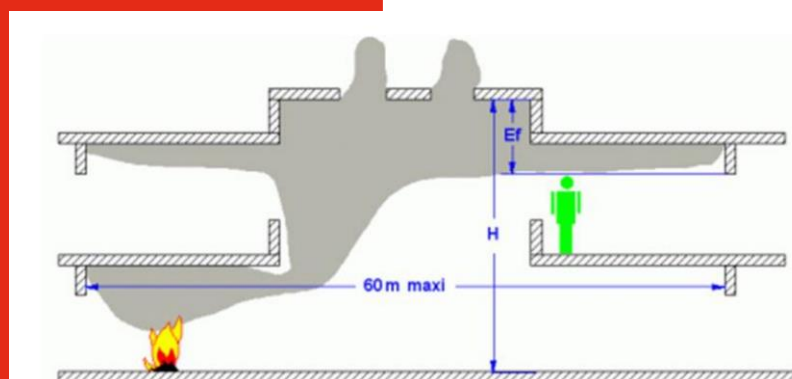
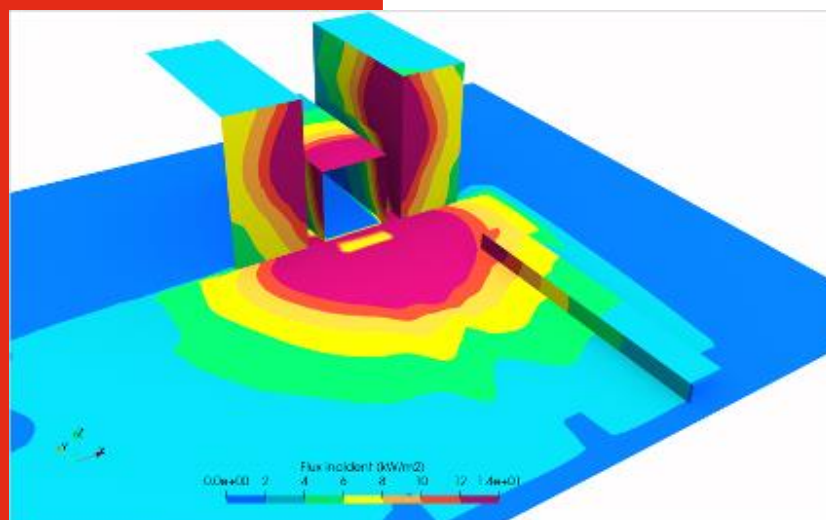
Our experience in the industry



Control of major industrial risks

- Hazard studies
- Impact studies
- Environmental studies
- Fire risk studies on industrial facilities
- Creation of a document related to explosion protection (ATEX)
- Post-accident assessments on the causes of the fire
- Fire vulnerability studies on an industrial site
- Update of the Special Intervention Plans (PPI)
- Implementation of PPRT
- Development of emergency response plans
- Technical assistance, fire/explosion prevention during technical shutdown

Our experience in the industry



Fire engineering

- Containment studies of water resulting from firefighting (nuclear, ICPE)
- Sizing studies of fire protection means
- Coordination in the Fire Safety System
- Inventory of heat loads in a constrained environment (ICPE, INB, INBS)
- Demonstration of fire risk control for safety reports
- Propagation risk studies (thermal flow modeling) and fire resistance of structures
- Smoke extraction engineering in industrial premises
- Development of large-scale fire scenarios and intervention procedures (fire protection plans)
- Creation of POI/PUI, inter-institution agreements, and associated training courses
- DECI studies (External fire defense), sizing of the water-fire network (local authorities and industry)
- Studies on the implementation of technical provisions for the prevention and forecasting of fire-related risks (MOE)...

Our experience in the industry

Explosion Engineering

- ATEX inventory and zoning in a constrained environment (ICPE, INB, INBS)
- Production of the document relating to explosion protection (ATEX)
- ATEX compliance study in the APS, APD phase
- Regulatory study and summary of requirements for manufacturers
- Assessment and analysis of explosion consequences
- Analysis of the response of the structure and the protective envelope to explosions
- Detailed analysis of the framework of the entire building
- Detailed modeling of elements
- Technical assistance, explosion prevention during technical shutdown (CNPE section shutdown, etc.)
- ...



Figure 7 : Isosurface du rayonnement thermique à 3 kW.m² - incendie zone de quarantaine

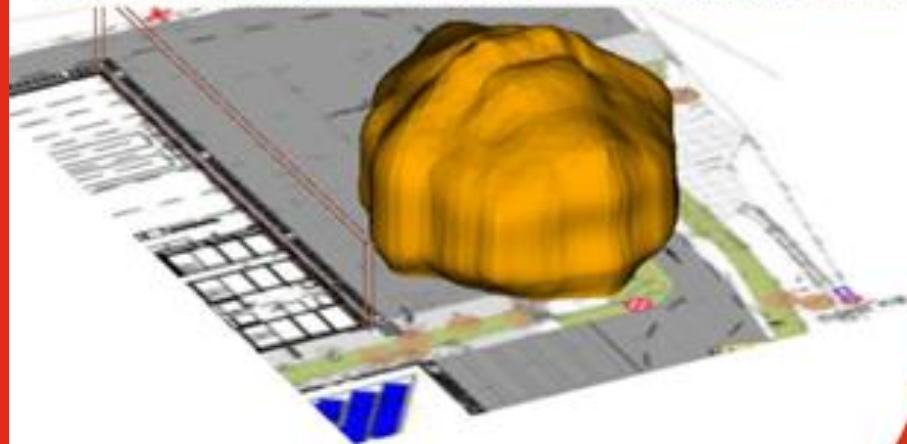


Figure 6 : Isosurface du rayonnement thermique à 5 kW/m² - incendie zone de quarantaine

Our experience in the industry



Nuclear safety

- Create Authorization Folder (DAC)
- Substantial changes to INB (ex Art31)
- Contribution to the INB's request for a MAD-DEM decree
- Safety/security analysis for dismantling sites
- Audit & support for safety/security management
- Improvement of safety/security management processes (FEM, DAM, Dosi, FIP, Pfeu, etc.)
- Maintenance and updating of safety repositories (RS, RDS, RGE, PUI...)
- Significant and minor amendments of INB (Art 56, art 58)
- In-situ technical assistance
-

Our experience in the industry

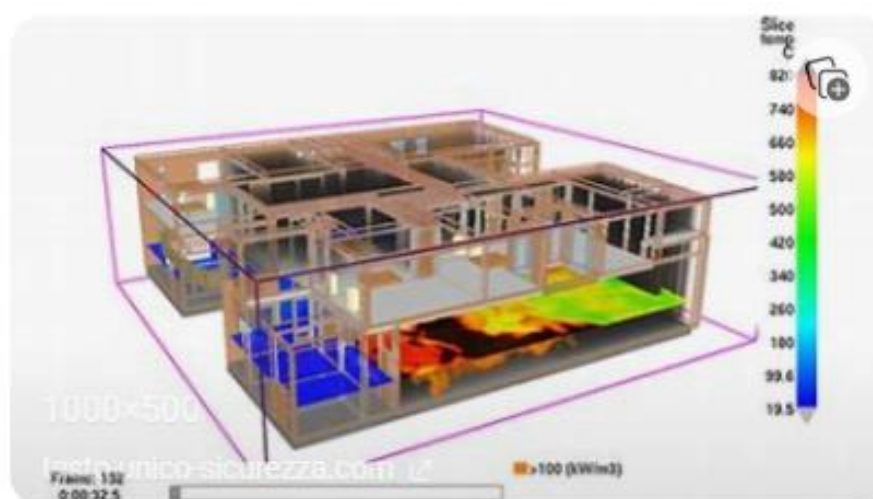
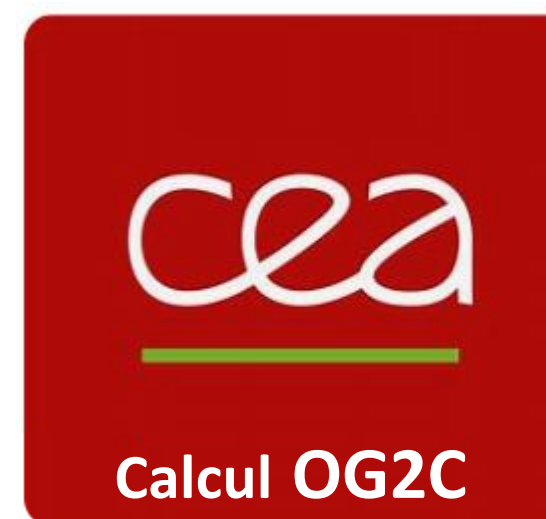


Formation

- Educational engineering, all themes
- Fire risk analysis methodology
- ATEX awareness
- Fire permit (work by hot spots)
- Crisis management and POI exercises
- Nuclear safety
- Chemical and radiological risk intervention
- INB/INBS and ICPE regulations
-



Software Partnerships



Fire Dynamics Simulator (FDS)



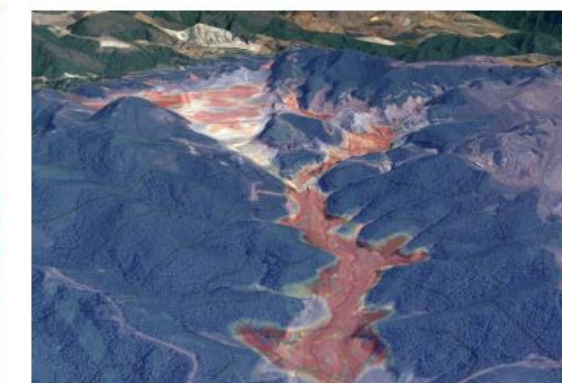
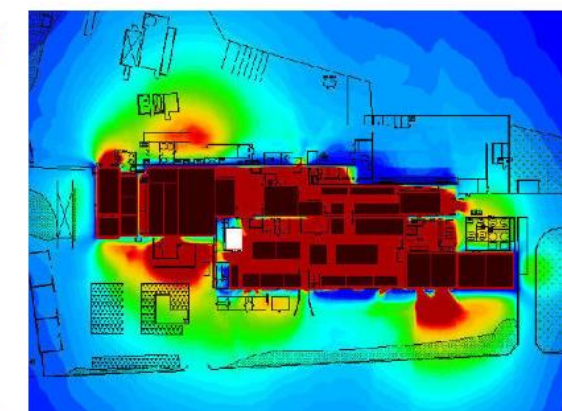
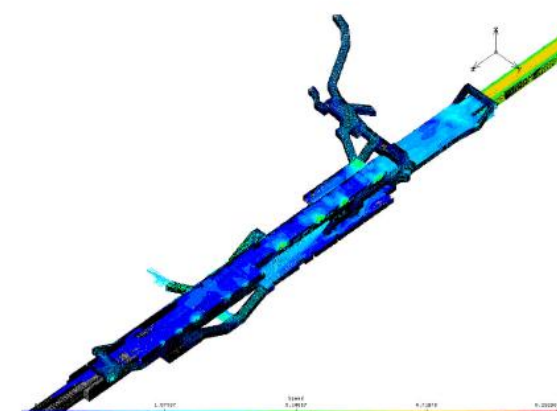
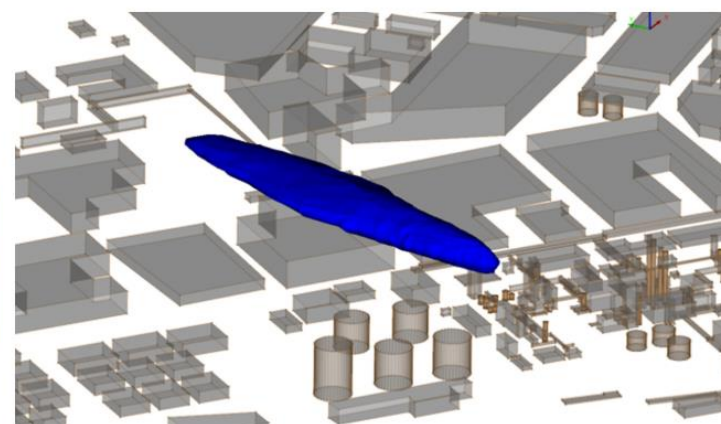
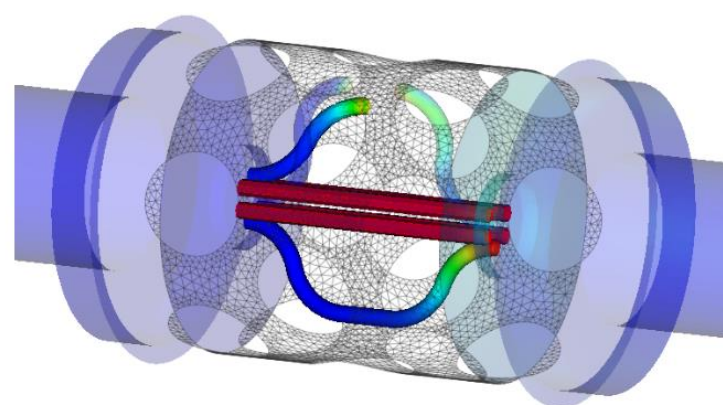
Fluidyn-MP

Fluidyn-PANACHE

Fluidyn-VENTIL

Fluidyn-PANFIRE

Fluidyn-FLOWSOL





THANK YOU

for your attention

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