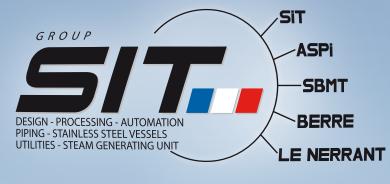
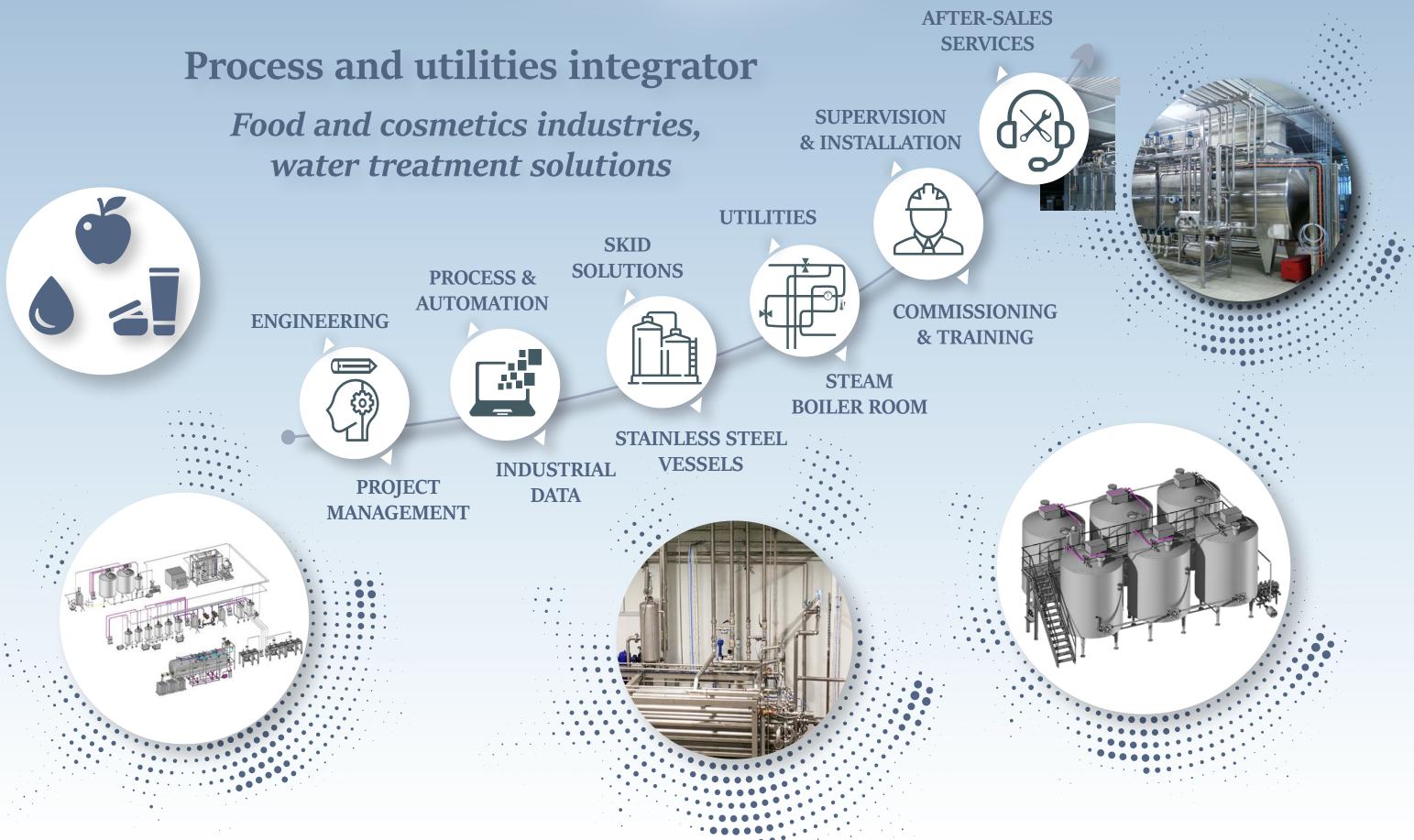
SIT Group Headquarter P.A. des Morandières - Bd de Galilée 53810 Changé - Laval - FRANCE



Tel.: + 33 (0) 2 43 49 17 55 Fax : + 33 (0) 2 43 49 02 29 E-mail : sit53@groupesit.com

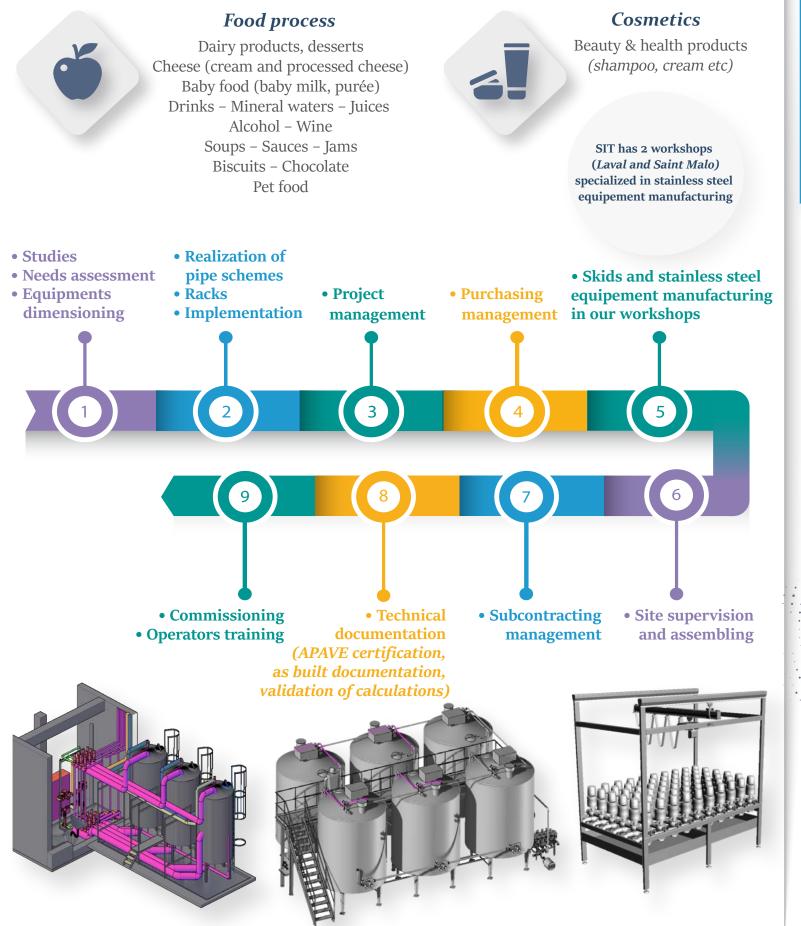
www.groupesit.com





## Project management and process solutions Food process, fluids and water treatment

### OUR FIELDS OF ACTIVITY



# Design and manufacturing of your process equipment Automated production lines and skid solutions

#### **PROCESS AND UTILITIES** ENGINEERING

- Front-end engineering
- Process engineering
- Design and dimensioning of equipment
- Realization of PID schemes, detail drawings (2D, 3D), implementation
- "Turnkey" solutions
- Process-utilities audit of existing installations

## **EQUIPMENT SUPPLIER**

- Prefabricated process kits
- Pasteurization and heat treatment solutions
- Skids, dosing and mixing units
- Automated CIP systems
- Potable water tanks
- Balance vats
- Chassis, platforms, walkways • Safety rails, stairs

## **FLUIDS AND UTILITIES SERVICES**

- Treatment and distribution of industrial water
- Steam boiler rooms, steam / condensate distribution systems
- Water chillers and skids for hot water
- Compressed air and process water production and distribution systems
- Manufacturing and installation of racks for distribution systems
- Boilers and stainless steel equipment for fluids and utilities
- Installation of city water distribution systems
- Connection to waste water networks, collection of waste water and its distribution to treatment plants

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SIT

SIT 35 17, rue de la Grassinais 35400 SAINT-MALO Tel.: + 33 (0) 2 99 19 68 87 Fax + 33 (0) 2 99 19 98 36 E-mail: sit35@groupesit.com

#### ASSEMBLING, **COMMISSIONING** AND MAINTENANCE

SIT 69 3 Chemin des Cytises Bâtiment A1 69340 FRANCHEVILLE Tel.: + 33 (0) 9 61 61 52 80 E-mail: sit53@groupesit.com





# ASPI

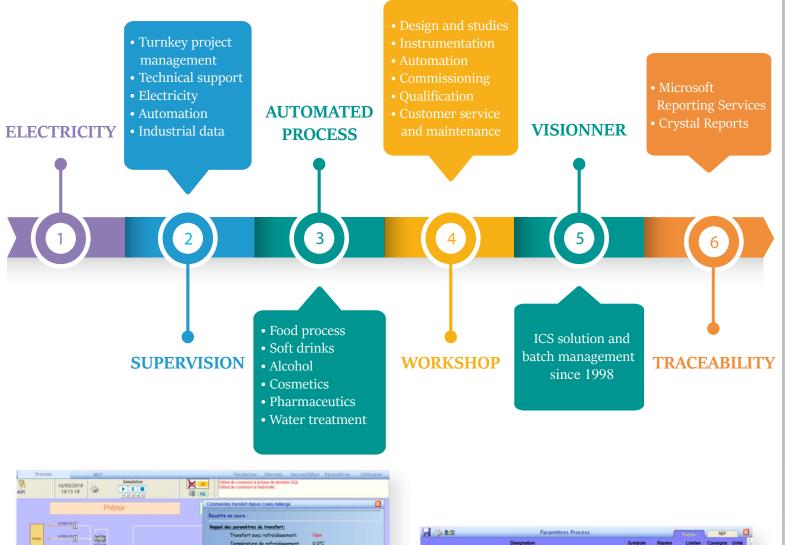
## Advanced automation solutions matching your projects and process control

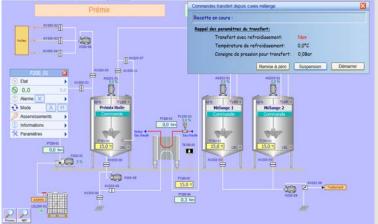
#### **TURNKEY SOLUTIONS**»

From the definition of electrical architecture, instrumentation, automation, informatics and networks to the commissioning of installations, training of operators, maintenance and production.

#### **OUR STRONG POINTS**

- Our experience of integrator in food process
- Internal resources in engineering, electricity, automation and commissioning
- Project management
- Electrical wiring and tests conduction





7 0 12	Paramètres Process		_	Provins	NEP	1
	Désignation	Symbole	Repère	Limites	Consigne	Unité
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Selta de température haute hulle en cyc	le d'incorporation (alarme)	P210_10		0/10	0,0	10
elta de température très haute huie e	n cycle dincorporation (défaut)	P210_11		0/10	0,0	*C
ieuil de delta pression bas échangeur		P210_12		0/10	0,0	Bar
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ieuil de colmatage du filtre arrivée de l'	hulle (Défaut)	P210_15		0/10	0,0	Bar
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ieuil minimum de déclenchement de la c	hauffe (Partie haute cuve)	P210_02		0 / 100	0,0	5
euil minimum déclenchement agitation	Cuve	P210_03		0 / 100	0,0	%
ieuil haut de la cuve CI1		P210_04		0 / 100	0,0	5
emps de recirculation pour la cuve con	plite	P210_05		0 / 190	0,0	min
litesse moteur en purge initiale (Phase	de recirculation)	P210_06		0 / 100	0,0	5
lystérésis de température ouverture va	nne de chauffe (Autour de la température de consigne lié à la recette)	P210_07		0/10	0,0	°C
euil d'arrêt de la chauffe avant la fin d	e Fincorporation	P210_13		0 / 100	0,0	kg .
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itesse de la pompe en fin d'incorporatio	0	P210 17		0 / 100	0.0	5
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UVE CDS1				-	1	
euil haut de la cuve CDS1		P220 01		0 / 100	0,0	5
iveau de seul bas de la cuve CDS1 (Au	storisation transfert depuis la cuve d'infusion)	P220 02		0 / 100	0.0	5
UVE CDS2						
ieul haut de la cuve CD52		P230 01		0 / 100	0,0	5
	storisation transfert depuis la cuve d'influsion)	P230 02		0 / 100	0.0	5
UVE CT2					370	-
euil minimum déclerichement agitation	1008	P240_01		0 / 100	0,0	5
	tion transfert depuis la cuve d'infusion)	P243 02		0 / 100	0.0	5

### **OUR SERVICES**

- Architecture definition
- Systems development
- Hardware definition and specifications
- Functionnal analysis
- Definition of programming standards
- Objects modeling
- Compliance with ISA 88 and ISA 95
- Tests register
- FAT (Factory Acceptance Tests)
- SAT (Site Acceptance Tests) commissioning
- Remote assistance
- Use and maintenance training

## **INDUSTRIAL DATA**

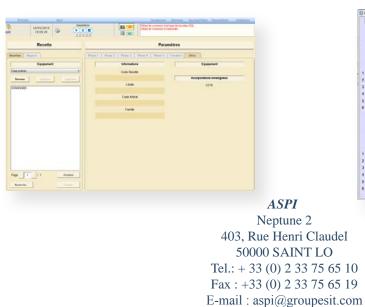
- Automation interfacing with computer systems
- *"Turnkey" solutions for: batch,* supervision, traceability and ERP reporting

## **ELECTRICITY**

- Electrical wiring design
- Electrical schemes design in DAO, SEE Electrical expert,
  - Autocad, EPLAN for export
  - Wiring in the workshop
  - On-site installation • Commissioning

## **SUPERVISION / MES / BATCH**

- ASPI (Supervision Visionner, Visionner Batch)
- Schneider (Monitor, Vijeo Designer)
- Siemens (WinCC, WinCC Flexible, TIA Portal)
- ARC Informatique (PcVue)
- Rockwell (RS View)
- Ordinal (GSi)
- Wonderware (InTouch, Historian, platform WSP (IAS))





#### VALIDATION / TESTS

#### **Commissioning and tests:**

#### Tests according to our protocols:

#### **AUTOMATION**

- Schneider (whole range)
- Siemens (S5, S7)
- Rockwell (PLC5, Control logix, Compact logix)
- Unitronics

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**ASPI 69** 6 rue Maryse Bastié 69500 BRON Tel.: + 33 (0) 4 78 65 14 19 E-mail : aspi@groupesit.com





# BERRE

## Local service for your industrial installations Metropolitan France and overseas coverage



#### **DESIGN OFFICE** AND TECHNICAL AUDITS

- Studies: process, fluids, energy, pipe networks, compressed air, steam, hot water
- Technical audit of installations : optimization of investments, energy savings
- Services adapted to your projects in full compliance with the latest standards



- **Improvement of production equipment:**
- Energy recovery for the production of hot water with : air compressors, evaporators, vacuum pumps
- **Energy production:**
- Water treatment
- Steam
- Industrial hot water
- Sanitary hot water
- Compressed air (industrial or process) - Vacuum
- **Distribution of utilities**



# LE NERRANT

# **Expert in industrial boiler rooms**

## **DESIGN OFFICE AND REALIZATIONS**

- Studies for boiler rooms and utilities projects
- Studies on the optimization of equipment's energy efficiency
- Boiler room turnkey solutions
- Compliance with the latest standards
- Modification of operation modes
- Replacement of burners
- Pressure equipment :
- steam cylinder, blowdown vessel
- Feed water tanks
- Gas networks : *distribution, pressure regulation, supply / detection box*
- Biomass boiler room

## **PROVIDED SERVICES**

- Regulatory requalifications and
- Maintenance and repair of boiler rooms
- Troubleshooting and maintenance of burners
  - Maintenance contract
- Technical assistance
  - Combustion control
  - Poppet valve calibration
  - Rental of steam boiler rooms (500 kg to 18 t/h)

  - Pipe works in compliance with PED 2014/68/UE

## **CONTAINER BOILER ROOM**

- Fully equipped containers: 10 to 40 feet, possibility of extension
- Hot water and steam production
- (smoke tubes and rapid vaporization)
- Power from 100 KW to 2 MW
- Operating mode: A.P.H.P. / S.P.H.P. 72 H oo
- Fuel: domestic fuel and natural gas



BERRE Z.A.D. de Troyalac'h 29170 SAINT EVARZEC Tel: +33 (0) 2 98 94 67 67 Fax : +33 (0) 2 98 94 67 70 E-mail : berre@groupesit.com

PED and CODETI

**INSTALLATION** 



inspections of pressure equipment

- Rental of hot water boiler rooms

#### **MATERIALS AND EQUIPMENTS TRADING**

- Fittings and valves
- Valves, level probes

LE NERRANT Z.A. du Placis 35230 BOURGBARRE Tel: +33 (0) 2 99 00 45 00 Fax: +33 (0) 2 99 00 40 02 E-mail: lenerrant@groupesit.com

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