



CONTROL & INSTRUMENTATION SOLUTIONS FOR PROCESS INDUSTRY

“No problem” is what you will typically hear from us whenever an unexpected issue arises.

www.positiveengineering.com

SERVICES DOSSIER

OUR VISION

The Company

Positive Engineering supports Control & Instrumentation projects in your Process Plant through the whole life cycle, from Basic Engineering to Detailed Engineering, Installation Supervision, Commissioning, Start-up, Maintenance and Decommissioning.

The Team

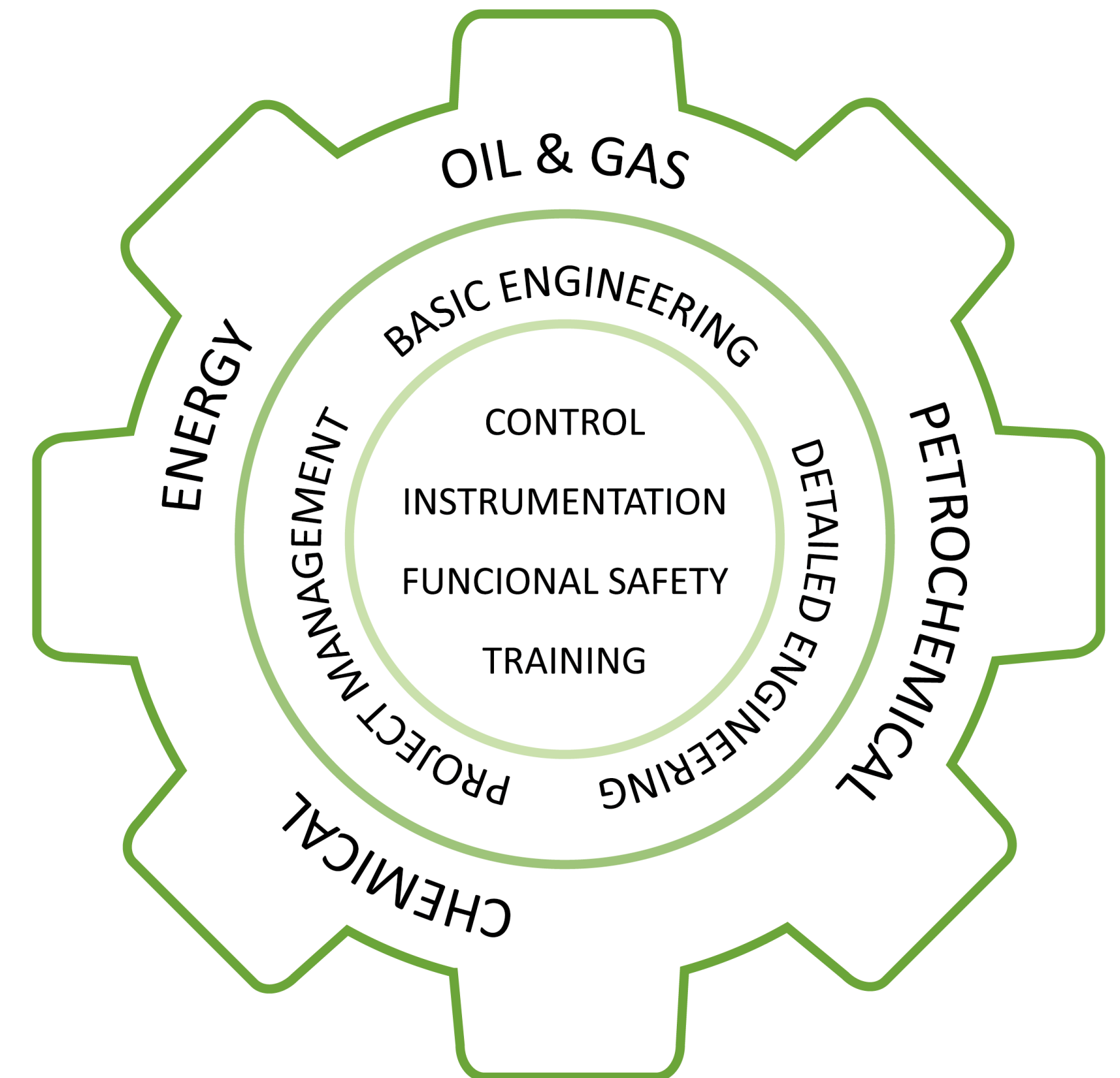
Balanced Team, a young company (2015) with more than 100 years experience accumulated in International Control & Instrumentation projects for major players in Process Industry.

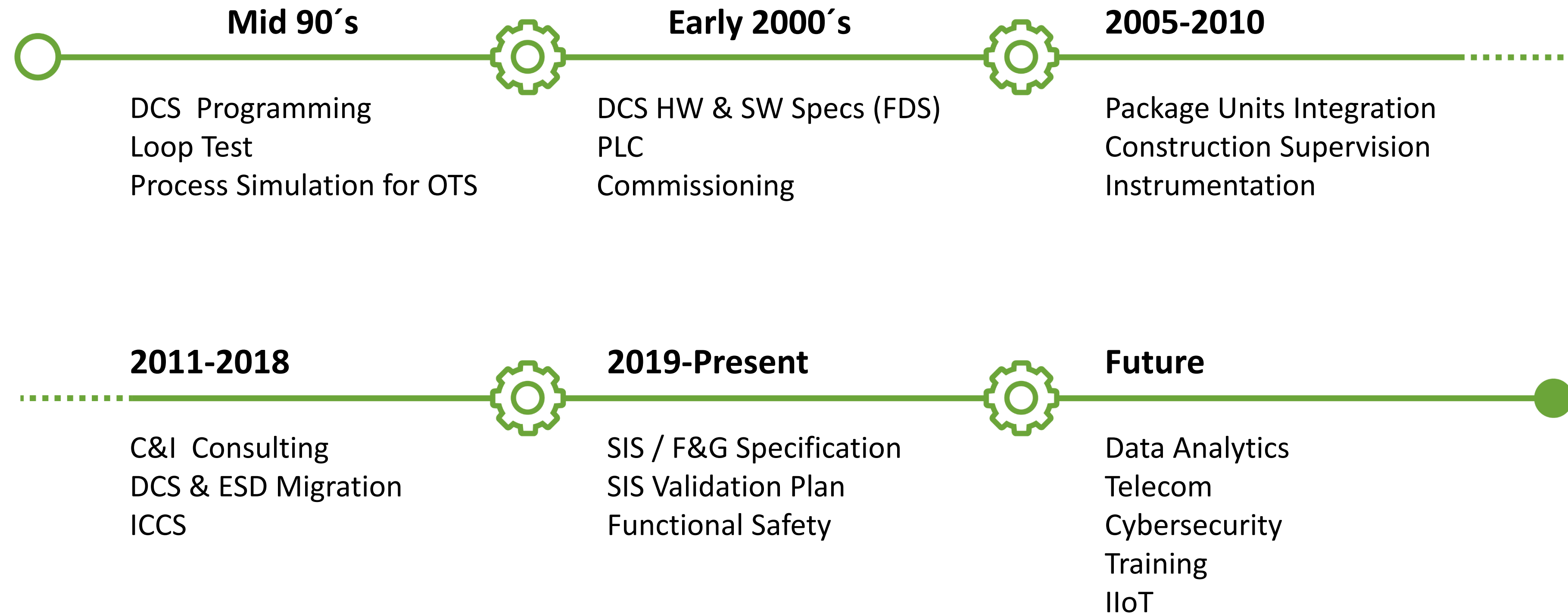
Our Philosophy

It is in our DNA to give added value to the client, always going the extra mile. We don't strictly limit to the scope, but go beyond it when beneficial for the project and if the client agrees. We promote partnership and long term relationship (recurrent business) as part of the client team.

We believe in positive interaction with clients and vendors and always look for win-win solutions.

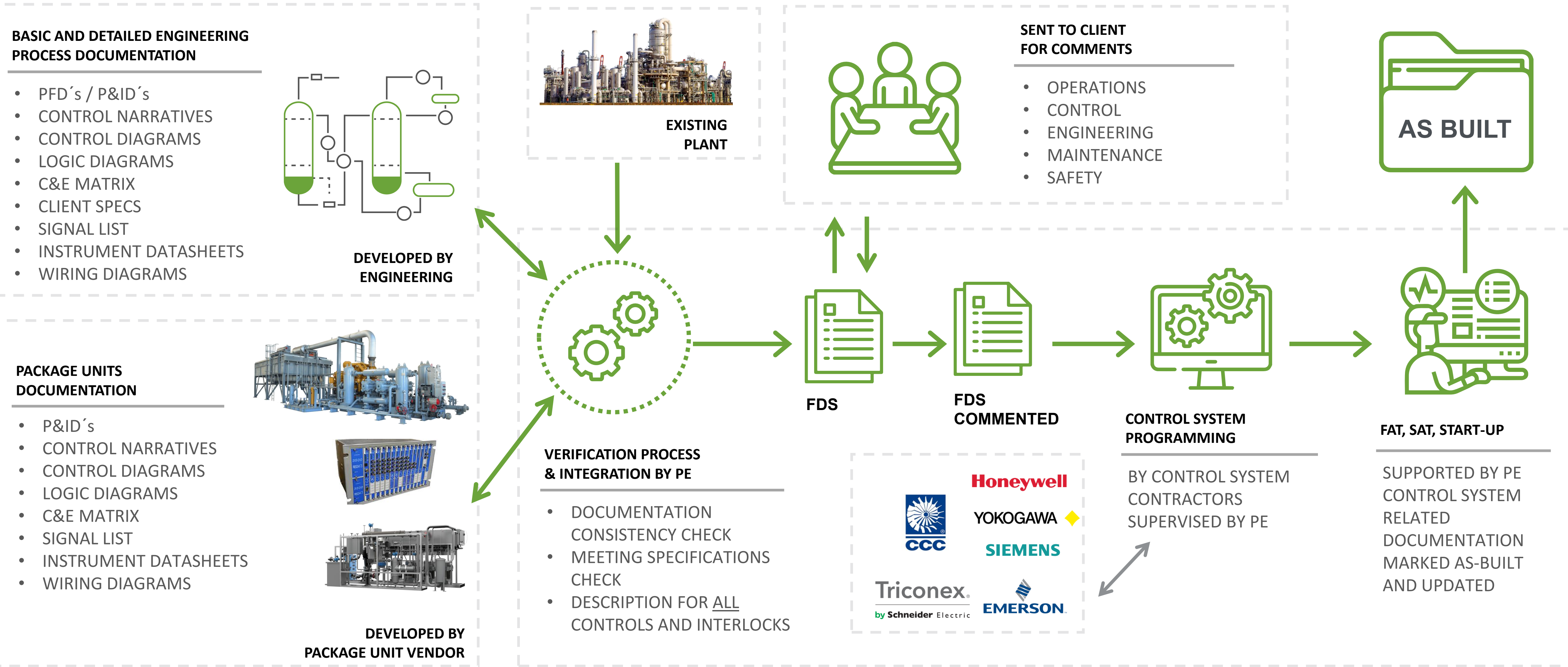
Based on our broad experience, we provide increased operability, reliability and safety to the installations whenever possible by simplifying the design.





CONTROL & INSTRUMENTATION ENGINEERING SERVICES

CONTROL SYSTEM INTEGRATION : FUNTIONAL DESIGN SPECIFICATION (FDS CONCEPT)



KEY DOCUMENT FOR DESING AND MAINTENANCE / TROUBLESHOOTING

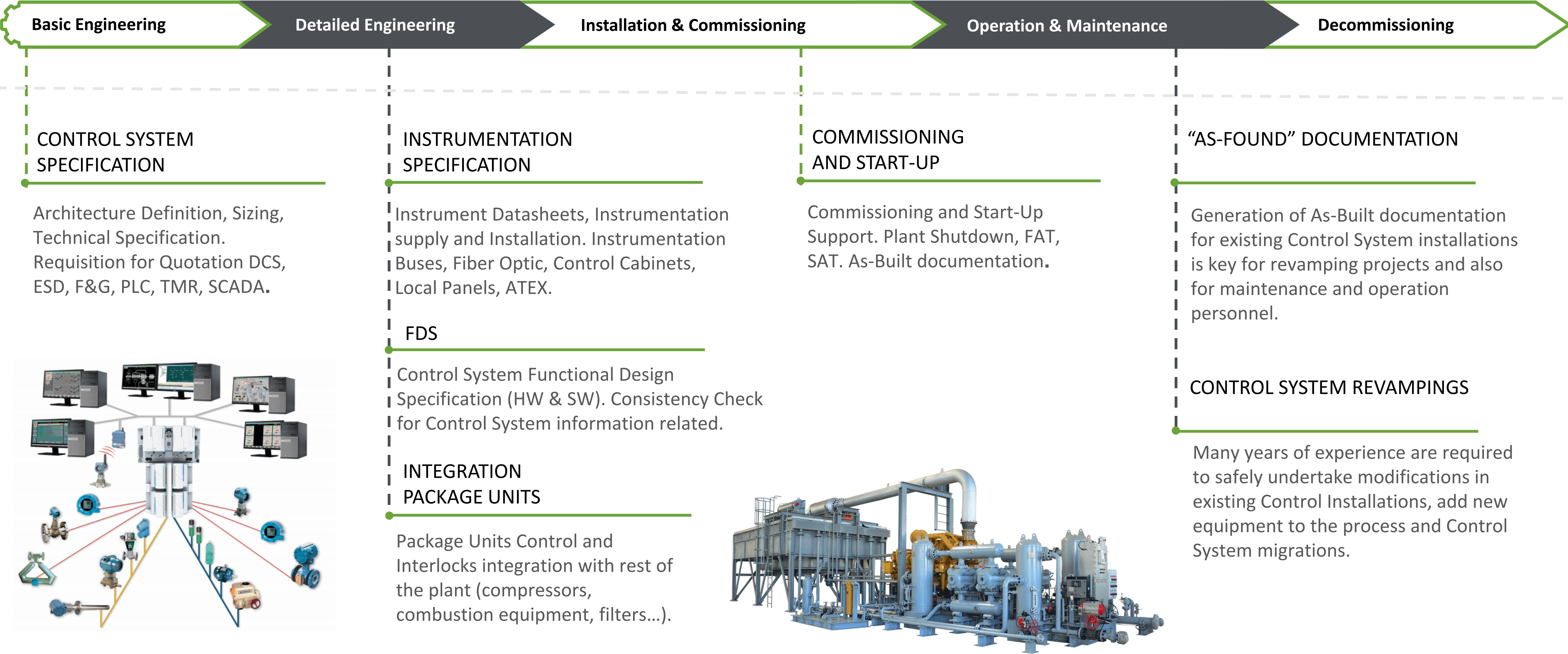
CONTROL & INSTRUMENTATION ENGINEERING SERVICES

POSITIVE ENGINEERING SUPPORTS YOUR PROJECTS AS C&I SPECIALISTS



PROJECT
PHASE

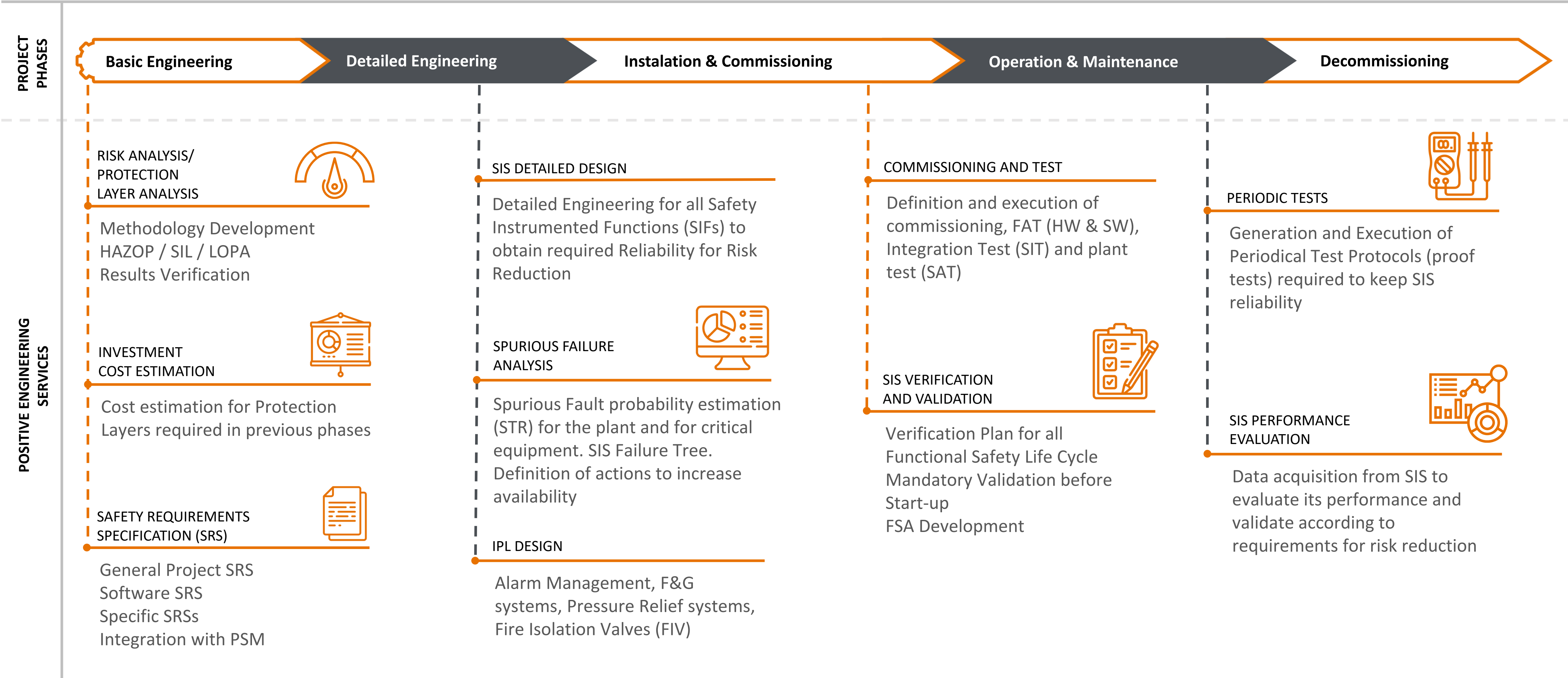
POSITIVE ENGINEERING
SERVICES



WE REDUCE START-UP TIME AND BOTH OPERATIONAL AND MAINTENANCE COST

FUNCTIONAL SAFETY

FUNCTIONAL SAFETY LIFE CYCLE TO COMPLY WITH STANDARDS LIKE IEC-61511 OR ISA-84 & PSM



HAVING THE VISION OF THE WHOLE PROJECT SINCE THE BEGINNING

SIL VERIFICATION SOFTWARE (IEC 61511 / 61508 / ISA-84)

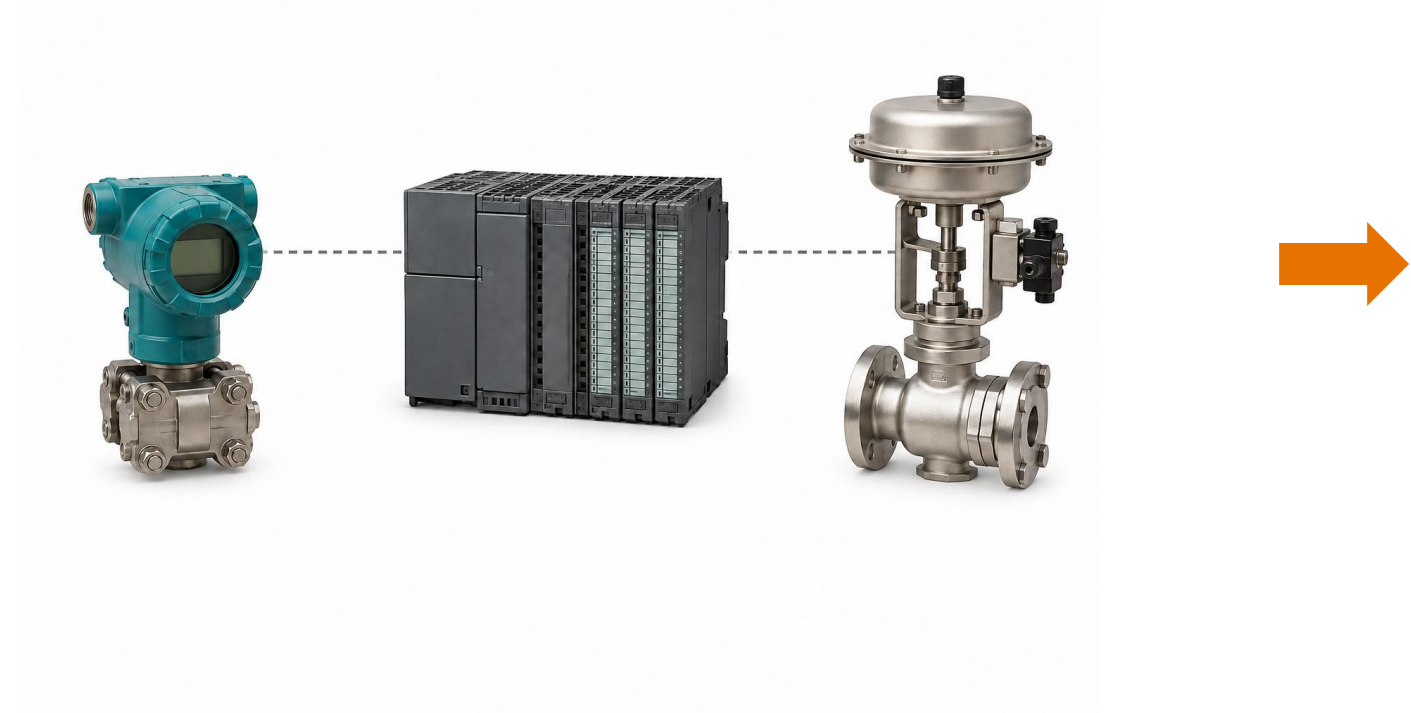


SILcet CLOUD AND SILcet REVIEW

THE SAFETY FUNCTION

Sensor, logic solver and final element

01 DEFINE THE SIF



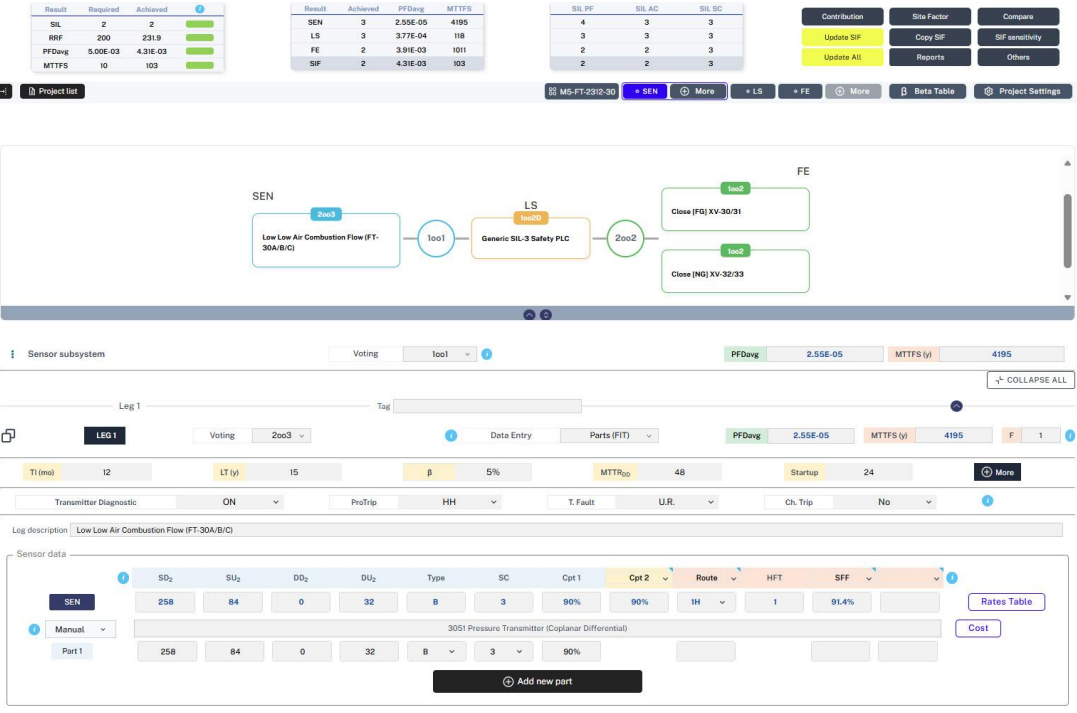
SRS, architectures, equipment data, failure rates and proof-test intervals.

Both tools are jointly owned by PE and Enertria.



Project data

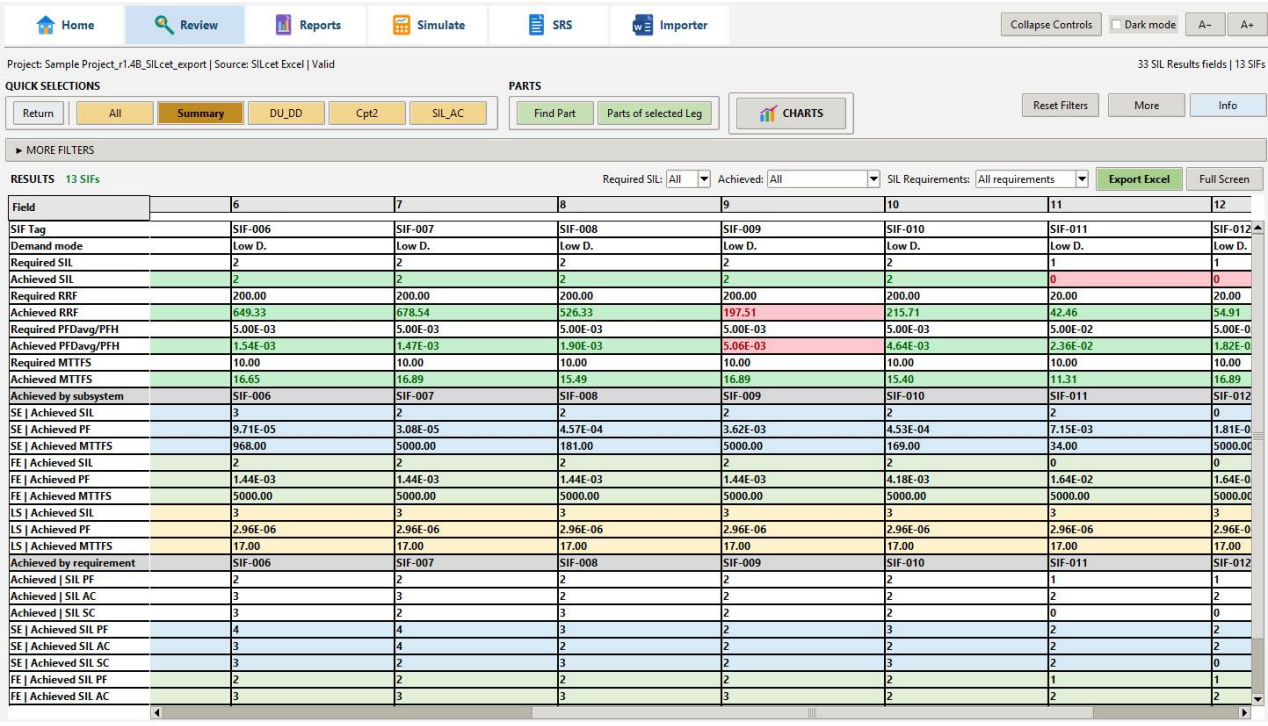
02 SIL VERIFICATION



Perform SIL verification (SILcet Cloud or exSILentia) based on IEC 61511.



03 REVIEW & SIMULATE



Review the SIL verification report for errors and inconsistencies. For “Not Achieved” results, simulate changes to find a design that meets the required SIL.

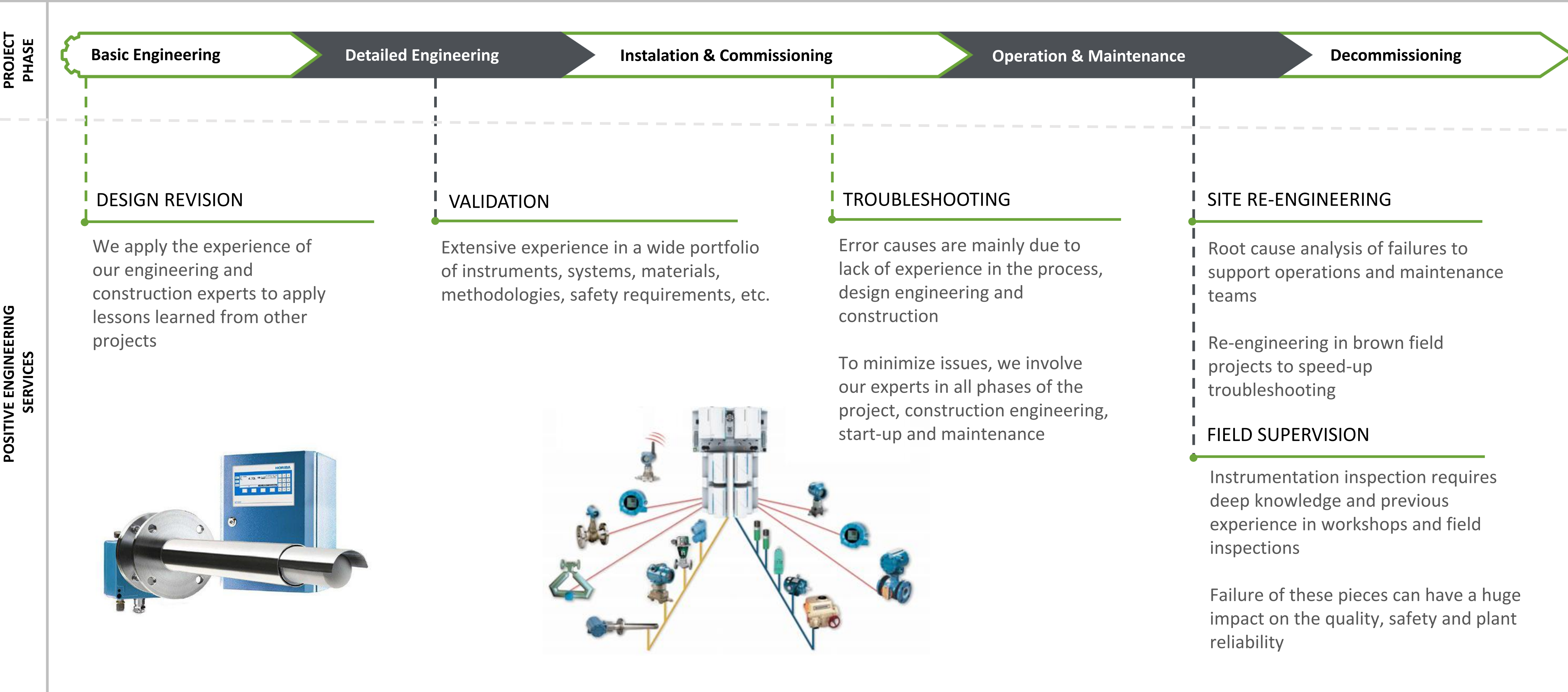
04 UPDATE SIL VERIFICATION

www.siltool.com/

www.safetyandsis.com/silcet-review/

INSTRUMENTATION AND ANALYZER SERVICES

SUPPORT AROUND ALL ENGINEERING DESIGN PHASES



RECURRENT SUPPORT TO CLIENT

WHY POSITIVE? PE IS A“THIRD PARTY” WORKING ON CLIENT SIDE AND THINKING IN THE FINAL USER (OPERATION, MAINTENANCE...). WE MAKE THE DESIGN OR SUPERVISE THE WORK OF OTHERS (ENGINEERING, PACKAGE UNIT, CONTROL SYSTEM...)



Highly specialized in Control System Engineering, we produce **huge saving for clients by reducing start-up time and implementation cost.** Fixed price with defined scope, “No Surprises”.



Our global vision of all phases of the Functional Safety Life Cycle means we can prescribe **the most efficient investments in order to implement the required actions to prevent major accidents** (Ej. action required after HAZOP, SIS Maintenance Plans, actions to comply with IEC-61511...)



Informed by **extensive previous experience**, our engineering designs are optimized for **efficiency in installation, operation and maintenance.**



With our Positive, flexible attitude with Clients and Vendors, we build **collaborative, successful partnerships for the long term** (peace of mind for the client)

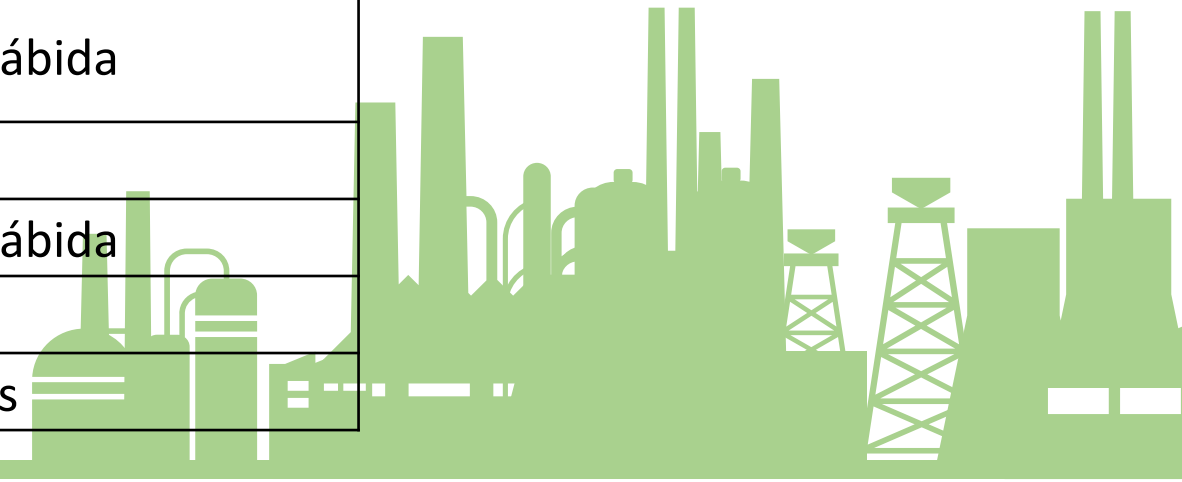


CUSTOMER REFERENCES

LATEST PROJECTS DEVELOPED BY POSITIVE ENGINEERING



Year	Scope	Site
2025	FEED Review for Sabic Geleen Project – Revamp UH	Sabic Geleen
2024	Functional Safety Engineering and SAT Testing for Sulfolane and Platforming Furnace Revamping Project	Moeve – Energy Park San Roque
2024	Functional Safety Engineering – AROMAX Unit	Moeve – Energy Park La Rábida
2024	Functional Safety Engineering – HDS1 Unit	Moeve – Energy Park San Roque
2024	Functional Safety Engineering – H3 Unit	Moeve – Energy Park La Rábida
2024	Complete EPC for Emergency Shutdowns	Moeve-Lubrisur-San Roque
2024	Migration of Control Systems and Furnace Interlocking	MOEVE- San Roque
2023	In-house Engineering Services – EXOLUM	EXOLUM Madrid
2023	Support Engineering Control Systems and Functional Safety for Hydrotreated Vegetable Oil (HVO) Plant	CEPSA la Rábida
2023	Support Engineering Control Systems and Functional Safety for Steam Reformer Unit	CEPSA Refinería la Rábida
2023	Support Engineering Control Systems and Functional Safety for ESP Filter Package Unit for FCC Unit	CEPSA Refinería la Rábida y Refinería Gibraltar
2023	Generation of C&E Matrices from Existing Programming	CEPSA Refinería la Rábida
2023	Support Engineering Control Systems and Functional Safety for Vapor Recovery Unit (VRU)	CEPSA Refinería Gibraltar
2023	Support Engineering Control Systems and Functional Safety for Sulfur Plant Revamping	CEPSA Refinería Gibraltar
2023	Migration of Bently Nevada Machine Monitoring System	CEPSA Refinería Gibraltar
2023	Support for Instrumentation in Energy Efficiency Projects	CEPSA Refinería Gibraltar
2023	Support for IoT Deployment	CEPSA Refinería Gibraltar
2023	LOPA Study Line 1	CEPSA Química Palos
2023	Review of Protection Layers Assignment for Hazop	Exolum
2023	SIL Verification for Overspeed Protection of Turbine SIL3	Baker Hughes / Atlántica
2023	List of IPLs (Instrument Protection Layers)	CEPSA Refinería la Rábida
2023	FSA Study for Asphalt Plant and Lubricant Plant	CEPSA
2023	SIL Verifications	CEPSA Refinería la Rábida
2022	Support Engineering Control Systems and Functional Safety for Granadillas Tank Farm	CEPSA Tenerife
2022	LOPA Analysis to Optimize HAZOP Actions in Line 2 and 3	CEPSA Química Palos



REFERENCIAS DE CLIENTES

ÚLTIMOS PROYECTOS DESARROLLADOS POR POSITIVE ENGINEERING



Year	Scope	Site
2022	Validation of SIFs and Generation of Tests for 400 SIFs with Required SIL	CEPSA Refinería la Rábida
2022	Intelligent Drainers	CEPSA Química Palos y CEPSA Refinería la Rábida
2022	Emergency Stop Functionality by Panic Buttons for Poliduct Pumps	CEPSA Refinería la Rábida
2020	SIL Interlock Functional Specification for FLARE SYSTEM	CEPSA Química Puente Mayorga
2020	Loop Diagram Design, and Functional Test (SAT) for Emergency Shutdown Mushrooms for NPP Plant	CEPSA Química Puente Mayorga
2020	SIS Validation and SAT Test for DETAL Plant	CEPSA Química Puente Mayorga
2020	LLOPA, Verification y SIF's Proof tests for Cogeneration Plant.	CEPSA Refinería la Rábida
2020	Development of Client Specifications and Standards for Control System Architecture and Cybersecurity	CEPSA
2020	FDS and I&C Detailed Engineering. Interlocks Reliability Enhancemente for Compresor in Gascon Unit	CEPSA Refinería Gibraltar
2020	SIL Interlocks Functional Specification for DETAL Plant.	CEPSA Química Puente Mayorga
2019	FDS's Critical Equipment. Control & Functional Safety Supervision on Client Side, LC-Fining Project (BoB).	CEPSA Refinería Gibraltar
2019	Development of Functional Safety Procedure for CEPSA (Standard at Corporation Level	CEPSA Refinería la Rábida
2019	Best Practices for FIV (Fire Isolation Valves).	CEPSA Refinería Gibraltar
2019	FDS Development and Control System Engineering Supervision for FCC Unit Revamping (Reactor Replacement).	CEPSA Refinería Gibraltar
2018	Ingeniería Sistemas de Control Migración a DCS de PLC Cristalización	
2018	Control System SW Functional Design Specification (FDS) for Haldor Topsoe Convection Reformer. Hydrogen Unit	CEPSA Guadarranque
2017	FDS Development and Control System Engineering Supervision for Revamping Isomax Unit Revamping	CEPSA Refinería Gibraltar
2017	Serial Buses, Tank Inventory and Tank Gauging System Revamping (Whessoe, Enraf, RotorK, Optical Fiber).	CEPSA Química Puente Mayorga
2017	Anti-Surge Controller Upgrade (CCC vendor) for compresor in Gascon Unit	CEPSA Refinería Gibraltar
2017	Develop Client Specification for Alarm Managemente System (Standard at Corporation Level).	CEPSA Refinería Gibraltar
2016	FDS for Oxigen Regeneration Unit (ORU) at Alkylation Plant	CEPSA Refinería Gibraltar



REFERENCES

PE personnel have participated in projects for the main players in the Oil and Gas, Chemical, and Petrochemical industries.



LET'S CONNECT



CONTACT DETAILS

Julián Sáez Mateo

CEO

julian.saez@positiveengineering.com

+ 34 687 94 79 16

José Bielza

Control Systems Manager

jose.bielza@positiveengineering.com

+ 34 630 94 22 82

Fernando Garrido Redondo

Functional Safety Manager

fernando.garrido@positiveengineering.com

+ 34 655 27 05 53

Francisco Zamora

Business Development Director

Francisco.zamora@positiveengineering.com

+ 34 609 48 07 16

Santiago Córdoba Sánchez

Instrumentation Manager

santiago.cordoba@positiveengineering.com

+ 34 629 26 18 20



General Contact

contact@positiveengineering.com
www.positiveengineering.com

LOCATIONS



Distributed allocation to allow fast time response from our engineers to attend client facilities.