

CEMENTO 4.0
PROFESSIONAL SERVICES



OUR COMPANY

We are a technical advisory company with an emphasis on the cement industry, whose mission is to optimize customer resources for the development of a green field or an existing plant in its production processes, focused on reducing costs and thus ensuring A final product with competitive value.

We are a group of technicians and professionals specialized in different areas and fields of engineering. Focusing on the high knowledge of the cement industry, we stand out for carrying out the evaluations, taking into account the Process Management of your business, offering our clients engineering of Materials Flow, Personnel Flow, and Information Flow, to obtain a reduction of the processes and budget; in a concise way and with integrity.

We design your company's business information system, by using artificial intelligence to organize past, present and visualize the future with the optimal processing of existing data resources or to be created.

OUR PROFESSIONALS

Our company consists of technicians specialized in the cement industry from Cementos Argos and Cemex, whose main core originates in Colombia, Dominican Republic, and Mexico.

We have worked with FLS, CITIC from China and ThyssenKrupp ancient Polysius.

We update the Physical and Chemical Laboratories to improve Quality Management, managing quality data online with analytics.

We have a team of specialized engineers structured in several Managements:

- Project Management
- Commission management
- Optimization Management
- Information Management
- Vocational Training Management
- Quality Management
- Operations Management
- Optimization Management

TARGET MARKET

Our target market is cement companies in their entirety for new projects and for existing plants that somehow require an improvement of their production processes, strategic and supportive.

In the new projects, we can participate from the beginning in the elaboration of the engineering for its construction and subsequent operation.

When offering Information Engineering services, we include the Operation phase, which is generally not considered during construction.

SERVICES

Cemento-4-0.com offers the services of commissioning, optimization, marketing studies, and information engineering in the cement sector.

When doing an engineering job, we focus on reducing costs with greater technical knowledge of cement and professional execution of our activities.

Our advisory services include:

- Selection and evaluation of the proponent's supplies, either full or partial plant fields
- Financial Plan (or Budget Plan Preparation)
- Development of basic and detailed engineering for complete plants fields
- Elaboration of technical specifications of equipment and systems
- Audit of a good project execution
- Pre-Commissioning, Plant Commissioning.
- Optimization of the Process Production
- Production Management Optimization.
- Reduction of variability, under the process audit scheme.
- Technical Audits of Processes, Production, and Maintenance.
- Information Technology Implementation
- Process management
- Design, implementation of Chemical and Physical laboratories.
- Training, production, and chemistry of cement.
- Information Engineering
- Maintenance Organization
- Staff training

- Quarry's planning
- Projects to reduce the variability of Quality from Quarries to packaging.
- Plant optimization under the process audit scheme
- Research on blockages in cement silos and cement rehydration
- Clinker Quality Optimization
- Advice on the implementation of the physical and chemical laboratories
- Advice on the certification of Product Seal under ISO / IEC 17025
- Information Engineering in Quality Management to possess information online for decision making.
- ERP implementation in both Projects and Business Operation
- Development of basic, conceptual and detailed engineering of the different production processes.
- Development of engineering for Quality Management online
- Performance of mass and energy balances
- Design of crude oil for the manufacture of various types of cement
- Technical training and training in Operations Management

BUSINESS PLAN

Our focus as business is solve the problems that we have notice trough our years of experienced.

Most of the cement fields may have the technical and technological resources, however they lack a good analysis to apply the most efficient and appropriate processes in order to reduce costs in such a way that the final product be competitive in the market.

Process Management helps us eliminate repetitive tasks that do not add value to the final product, eliminating processes or redesigning them, helps us define a vision and a clear mission of the business, directing the daily work with objectives to satisfaction of the end customer.

The application of Cement 4.0 technologies will generate a better product, it is the case of applying Proactive Industrial Security with Information Technologies such as Machine Learning and Image Processing. Use of the cell phone as a working tool, developing applications that evaluate and report the Process online and generate online knowledge.

We offer software products and advise on the use of information technologies to add value, eliminate tasks or procedures that bring nothing to the final product. Our customers will receive the benefit of reducing costs, having information online and/or knowledge of their production processes, performing productive work eliminating routine tasks that have nothing to do with innovation.

The five main application areas already studied for application of technology 4.0:

- Predictive maintenance based on analytics
- Start-to-finish optimization with Simulation of the Production process immediately, without waiting for complete models.
- Improve the quality of the workforce, working together between expert cement and data scientists.
- Optimization of alternate fuel and energy
- Remote operation and monitoring of the plant: Reduction of operating costs, Optimization of the workforce, lower cost of maintenance, Improvement in safety and working conditions.

The steps to follow as a general guide:

1. Capturing the current project status
2. Set VISION
3. Driving Drivers
4. Create a Reference Factory
5. Establish sound governance.

Product Overview:

- PSD online
- Augmented Reality in Operation
- Determination of stock quantities online
- Smart Access Control

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