

CASE STUDY EQUIPPING A QUARRY



CHALLENGE

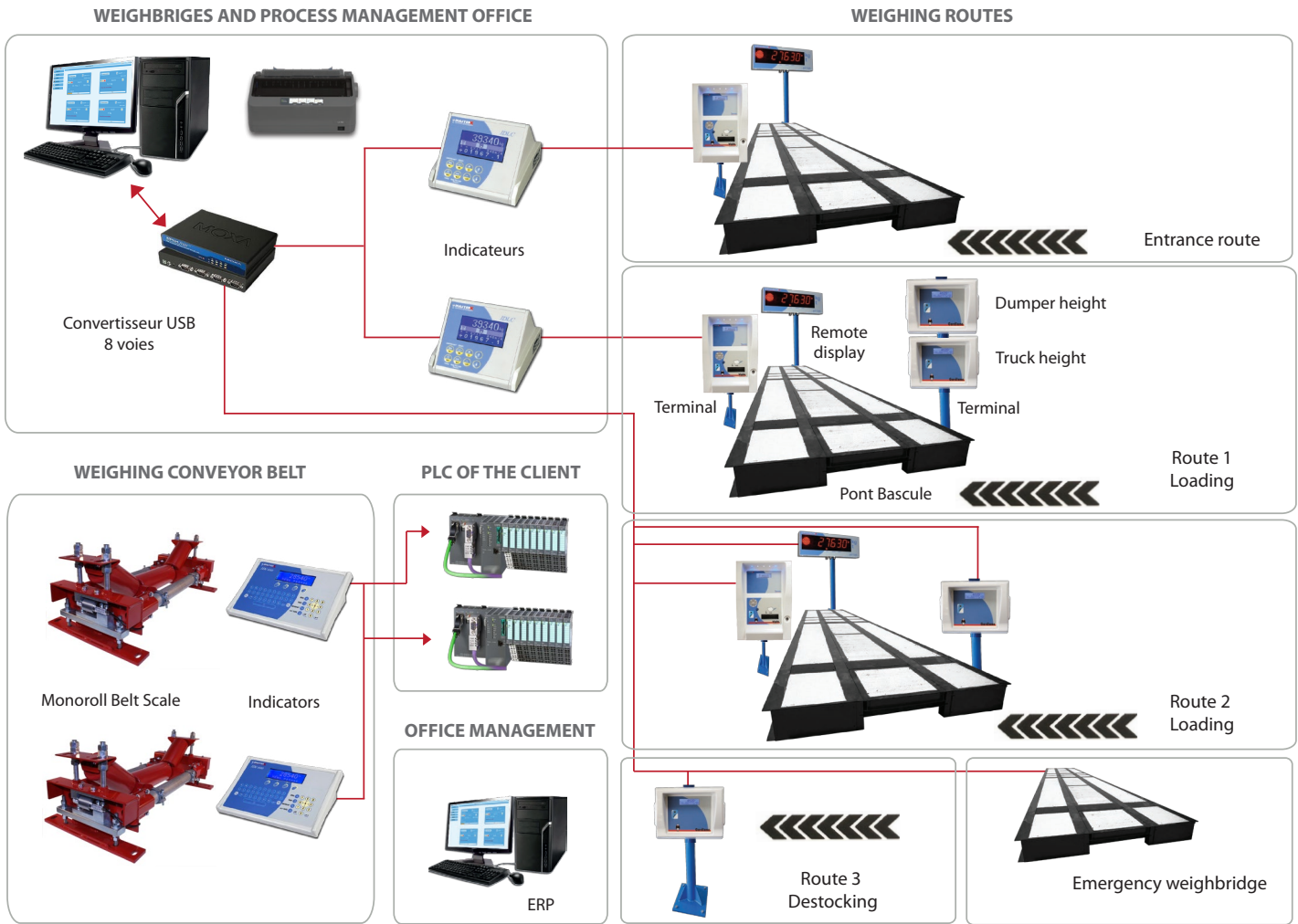
- ▶ As part of a modernisation programme of a quarry and an extension of their activity, our customer expected to acquire:
 - ▶ A set of scales for weighing on a conveyor belt
 - ▶ Weighbridges with automatic weighing and access control terminals under silos and loading points. y en puntos de cargamento

CONSTRAINTS

- ▶ To carry out this project, a number of technical constraints had to be considered:
 - ▶ Compatibility and interconnection with existing systems (customer's PLCs, business management and accounting ERP software)
 - ▶ The weighing process had to combine:
 - ▶ Direct sales
 - ▶ The transfer of materials at different stages of internal production
 - ▶ The transfer and storage of finished products by dumper
 - ▶ Optimisation of the weighing of the various vehicle flows giving priority to the loading of



SOLUTION



ADDED VALUE



- ▶ Recording of all vehicle entries with storage of weight, date, time and automatic allocation to a product to be loaded under a silo or loading area according to stocks and an automated material production loading plan.
- ▶ Traceability of each loading point (multiple silos for a single weighbridge).
- ▶ Optimisation of the vehicle queue (limiting waiting time and the number of vehicles on the site).
- ▶ Automation and simplicity of use of the system by the drivers using identification by badge or access code on each terminal.
- ▶ Loading of lorries 24 hours a day without dedicated personnel.
- ▶ Interconnection of all equipment (scales, conveyors, ticket output, data exchange with business management software) without any manual operation.



ACCESS CONTROL AND LOADING CONTROL ON WEIGHBRIDGE UNDER HOOPER



SITE ENTRANCE WEIGHBRIDGE AND PROCESS CONTROL ROOM



MULTI SCALE MANAGEMENT ON BELT CONVEYOR



INTEGRATED ACCESS CONTROL ON WEIGHBRIDGE



WEIGHBRIDGE WITH CUSTOMISED DIMENSIONS

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