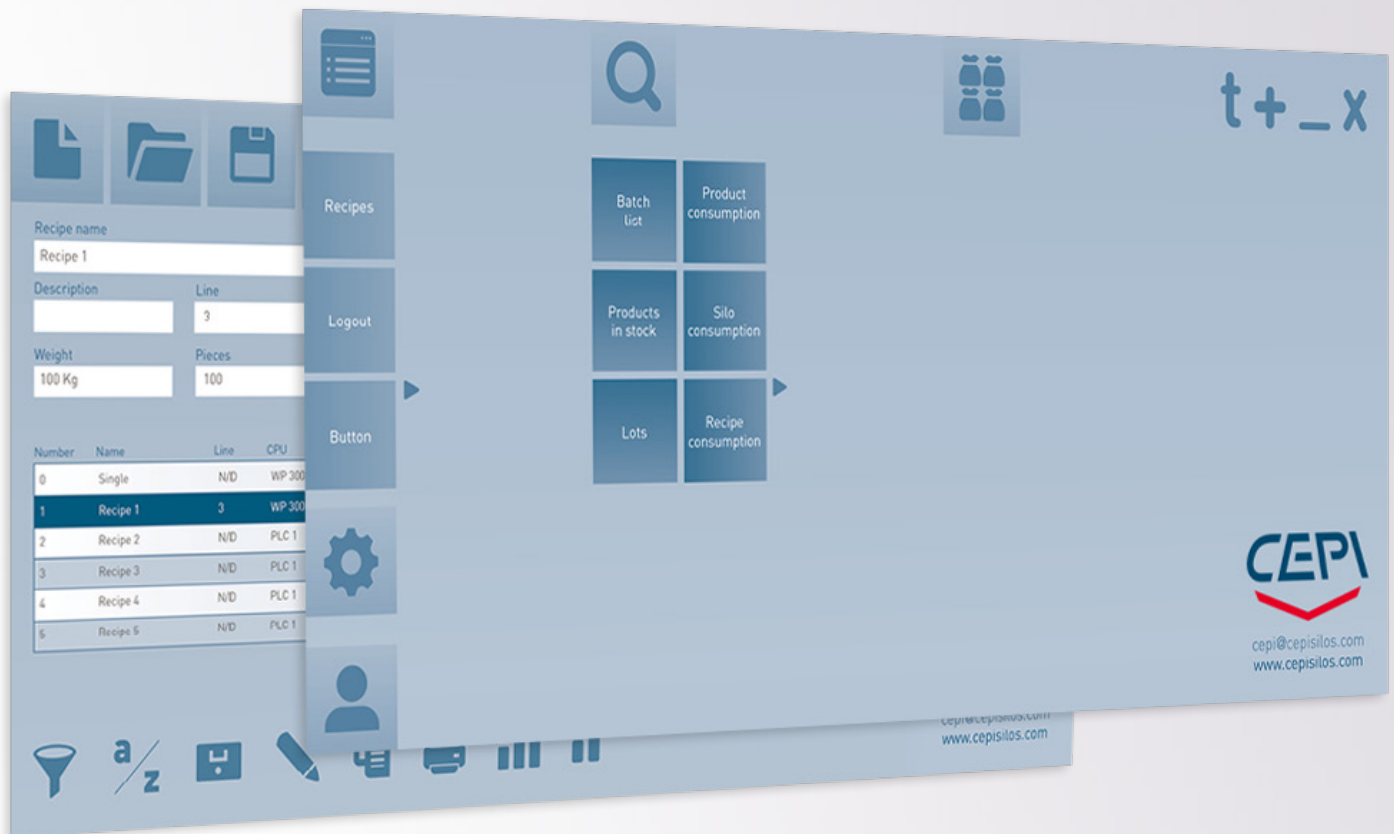


CEPI Tracking System

Native software providing process control, traceability, warehouse management, and total information exchange



Storing and recipe data history

Batch report

Material consumption report with dynamic visualization

Digitalization with barcode system

SQL database

Available for queries from a third party system

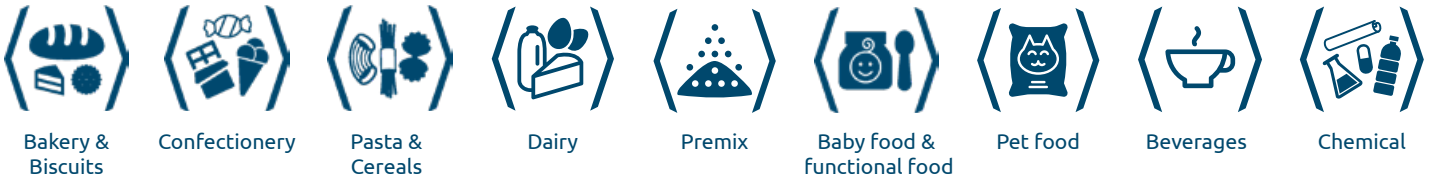
Communication with ERP / MES

Remote support

Automation
Cepi Tracking System

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CEPI provides a turn-key system that includes the automation. Hardware and software design is done completely in-house, and each system is the result of a decades long experience of parallel development alongside the mechanical side. With a team of 24 programmers, we provide technical and human continuity through the development of a project that can become highly specific and complex. Our solutions provide full horizontal and vertical integration, managing dialogue and data received by other partners operating in the lines, after the dosing and before the raw ingredients management.

For the management of process data, CEPI native Tracking System software provides:

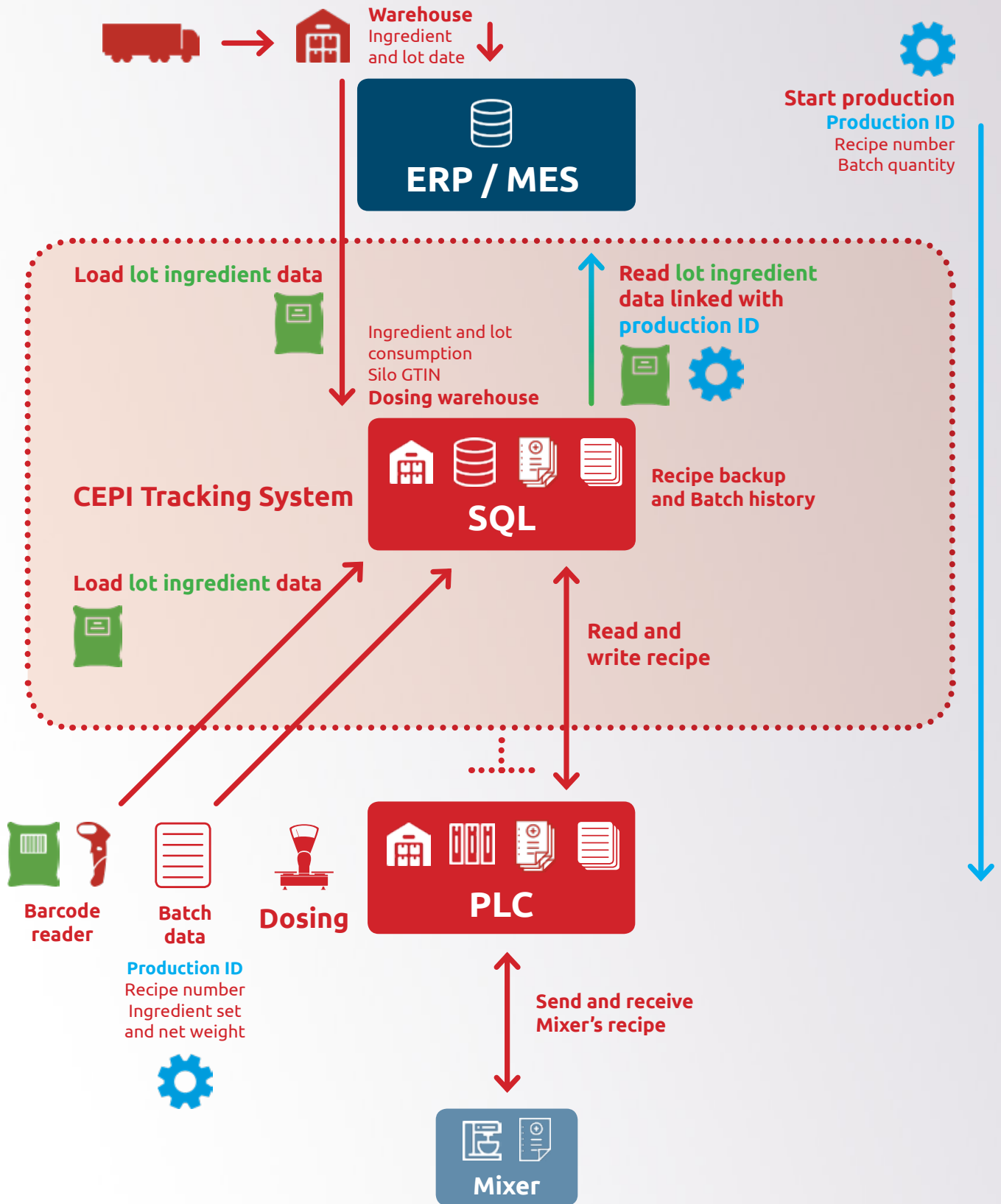
- Full traceability
- Warehouse management
- Total information exchange with SQL database
- Communication with ERP / MES

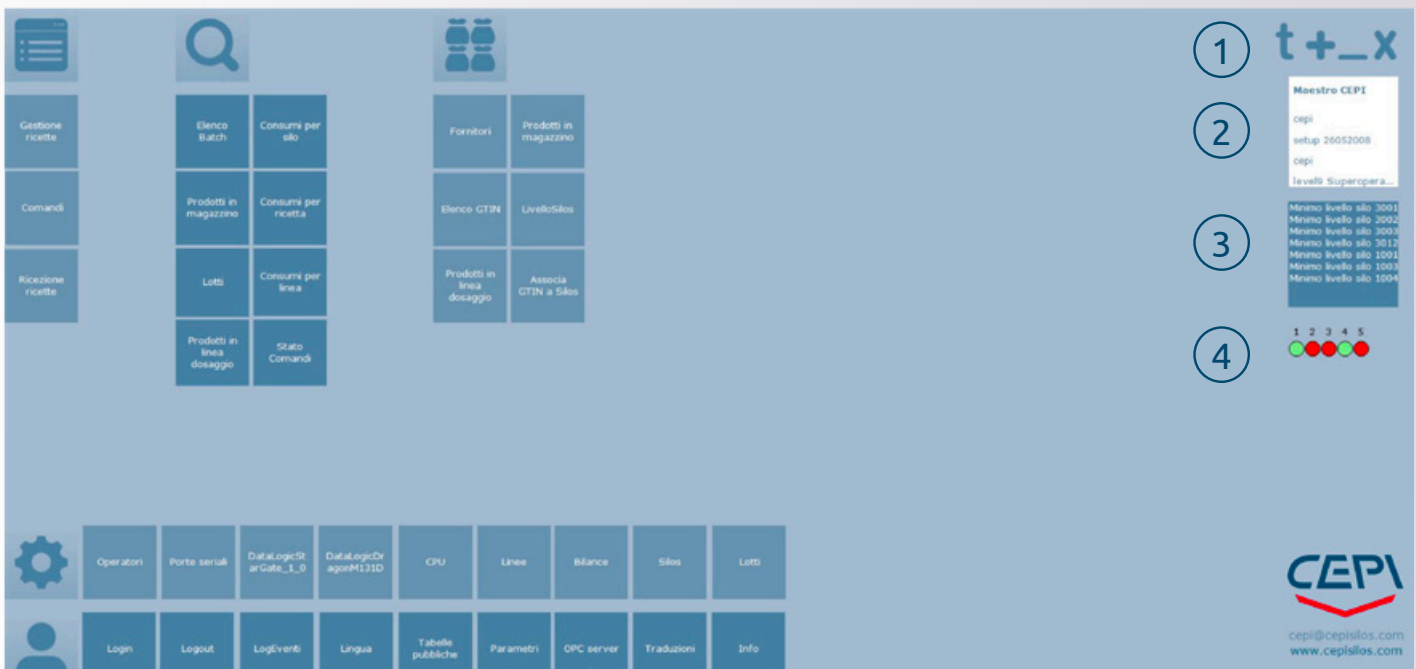
The automation team provides full 24/7 support which includes:

- testing, optimization, start-up and training
- remote support on all tools with live visualization on VPN network
- remote management of production and intervention on the source code
- virtual and personalized tutorials
- live assistance with dedicated devices
- support from local teams who are fully trained in our devices and are part of our global network



Architecture of the traceability operations





Recipe control

Create, change, duplicate
Send or receive from/to dosing devices

Visualizations ①

User information ②



Traceability

Batch report
Consumption analysis

Alarm list ③

Communication ④



Warehouse management

Supplier management
Products in warehouse and in dosing line
Silo GTIN



Device settings

System requirements

Windows 7 Professional (32/64 bit)
with Microsoft .Net Framework 4.5.1
Minimum screen resolution 1280 x 800
Minimum microprocessor INTEL i3
RAM 4 GB
Hard Disk 256 GB
2 x Ethernet card



User settings

The screenshot displays the CEPI software interface for recipe control. It features a top navigation bar with icons for file operations and a search function. The main area is divided into several sections:

- Recipe Form:** A form titled 'ricetta' with fields for 'Nome ricetta', 'Numero', 'Peso', 'Descrizione', 'Codice', 'versione', and 'Tolleranza'. It also includes checkboxes for 'Associata', 'Linea', and 'Inviata'.
- Steps Table:** A table with columns 'passo', 'prodotto', and 'Scarico'. It shows step 1 for 'vidange (VIDANGE)' with a weight of 0,00 and a temperature of 0,00.
- Main Recipe List:** A table with columns: CPU, Numero, inviate, batch, Nome, Peso, Modifica, pezzi, Data, ID, versione, and Tipo. It lists 22 recipes, including 'PETIT CLA...', 'REGULAR', 'mythic', 'TEST SCA...', 'sponge', 'big tasty', 'sponge 40', 'mythic', 'GRAND BI...', 'BIG MAC', 'FARINE 40...', 'EAU 22Kg', 'EAU 23', 'TEST SCA...', 'L2 PETIT ...', and 'TEST MAN'.
- Step Details Table:** A smaller table on the right with columns: passo, Numero, prodotto, Peso, T*, Scarico, and id. It shows details for steps 1, 2, and 3.

The CEPI logo and website information (cepi@cepisilos.com, www.cepisilos.com) are visible in the bottom right corner of the interface.

Create new recipe

Enter recipe name and number, dosing device, weight and pieces to produce, description, code, version, tolerance, minimum and maximum weight, silo, GTIN

Enter step details: product number, weight, temperature, unloading

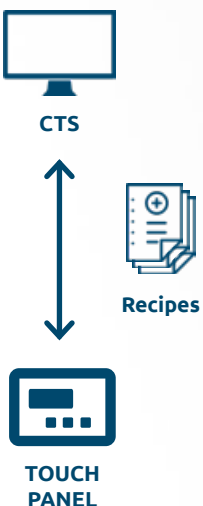
Flag internal only recipes

Flag batches that will be used later in other productions

Associate production line

Change existing recipe

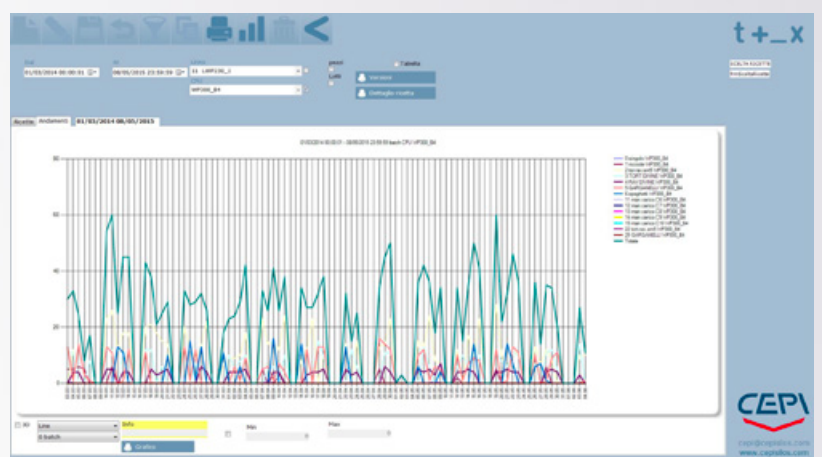
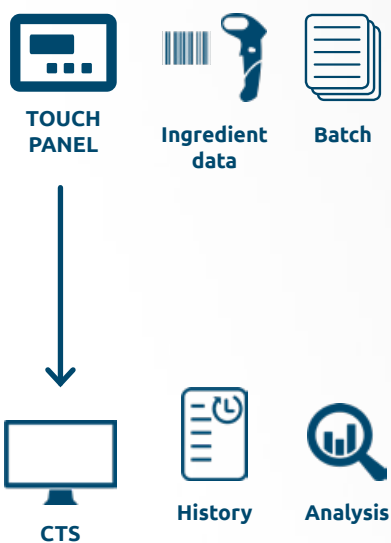
Duplicate recipe



The screenshot displays the CEPI software interface. At the top, there are navigation icons and a search bar. Below the search bar, there are filters for 'Dai' (10/04/2015 00:00:01), 'Al' (27/04/2015 23:59:59), and 'Linea' (1 L1 sponge). A table of recipes is shown with columns for Numero, CPU, Chiave, Nome, Descrizione, versione, Peso, and Data. The table contains 22 rows of recipe data.

Numero	CPU	Chiave	Nome	Descrizione	versione	Peso	Data
0	WP300 1	0 40	single	single	0	1	27/06/2014
1	WP300 1	1 40	PETIT CLA		0	62	07/04/2015
2	WP300 1	2 40	REGULAR		0	62	17/03/2015
3	WP300 1	3 40	mythic		0	64	02/03/2015
4	WP300 1	4 40	TEST SCAR		0	0	30/06/2014
5	WP300 1	5 40	sponge		0	62	02/03/2015
6	WP300 1	6 40	big tasty		0	62	17/03/2015
7	WP300 1	7 40	sponge 40		0	40	24/02/2015
8	WP300 1	8 40	mythic		0	69	19/03/2015
9	WP300 1	9 40	GRAND BIG		0	62	19/03/2015
10	WP300 1	10 49	BIJ MAC		0	63	19/03/2015
11	WP300 1	11 49	FARINE 40	FARINE 40	0	61.5	03/03/2015
12	WP300 1	12 49	EAU 22Kg		0	22	19/03/2015
13	WP300 1	13 49	EAU 23		0	23	19/03/2015
14	WP300 1	14 49	TEST SCAR		0	0	30/06/2014
20	WP300 1	20 49	L2 PETIT C		0	35.2	20/03/2015
21	WP300 1	21 49	TEST MAN		0	5	30/06/2014

Digitalization and history of all ingredient movements
 Dosing device, line, weight, time
 Consumption report and dynamic representation
 Analysis by product, recipe, lot and during any time interval



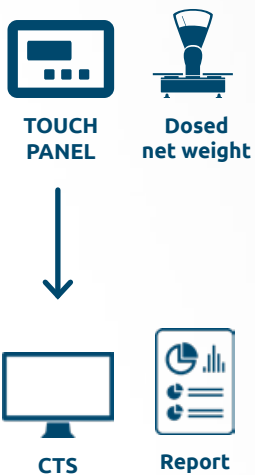
Dynamic representations of consumptions

The screenshot displays the CEPI software interface. At the top, there are navigation icons and a search bar. Below that, a date range is set from 10/04/2015 00:00:01 to 27/04/2015 23:59:59. A dropdown menu shows '1 L1 sponge' and 'WP300_1'. There are buttons for 'Tabella', 'Versione', and 'Dettaglio ricetta'. Below this is a table of recipes:

Numero	CPU	Chiave	Nome	Descrizione	versione	Peso	Data
0	WP300 1	0 40	single	single	0	1	27/06/2014
1	WP300 1	1 40	PETIT CLA		0	62	07/04/2015
2	WP300 1	2 40	REGULAR		0	62	17/03/2015
3	WP300 1	3 40	mythic		0	64	02/03/2015
4	WP300 1	4 40	TEST SCAR		0	0	30/06/2014
5	WP300 1	5 40	sponge		0	62	02/03/2015
6	WP300 1	6 40	big tasty		0	62	17/03/2015
7	WP300 1	7 40	sponge 40		0	40	24/02/2015
8	WP300 1	8 40	mythic		0	69	19/03/2015
9	WP300 1	9 40	GRAND BIG		0	62	19/03/2015
10	WP300 1	10 49	BIJ MAC		0	63	19/03/2015
11	WP300 1	11 49	FARINE 40	FARINE 40	0	61.5	03/03/2015
12	WP300 1	12 49	EAU 22Kg		0	22	19/03/2015
13	WP300 1	13 49	EAU 23		0	23	19/03/2015
14	WP300 1	14 49	TEST SCAR		0	0	30/06/2014
20	WP300 1	20 49	L2 PETIT C		0	35.2	20/03/2015
21	WP300 1	21 49	TEST MAN		0	5	30/06/2014

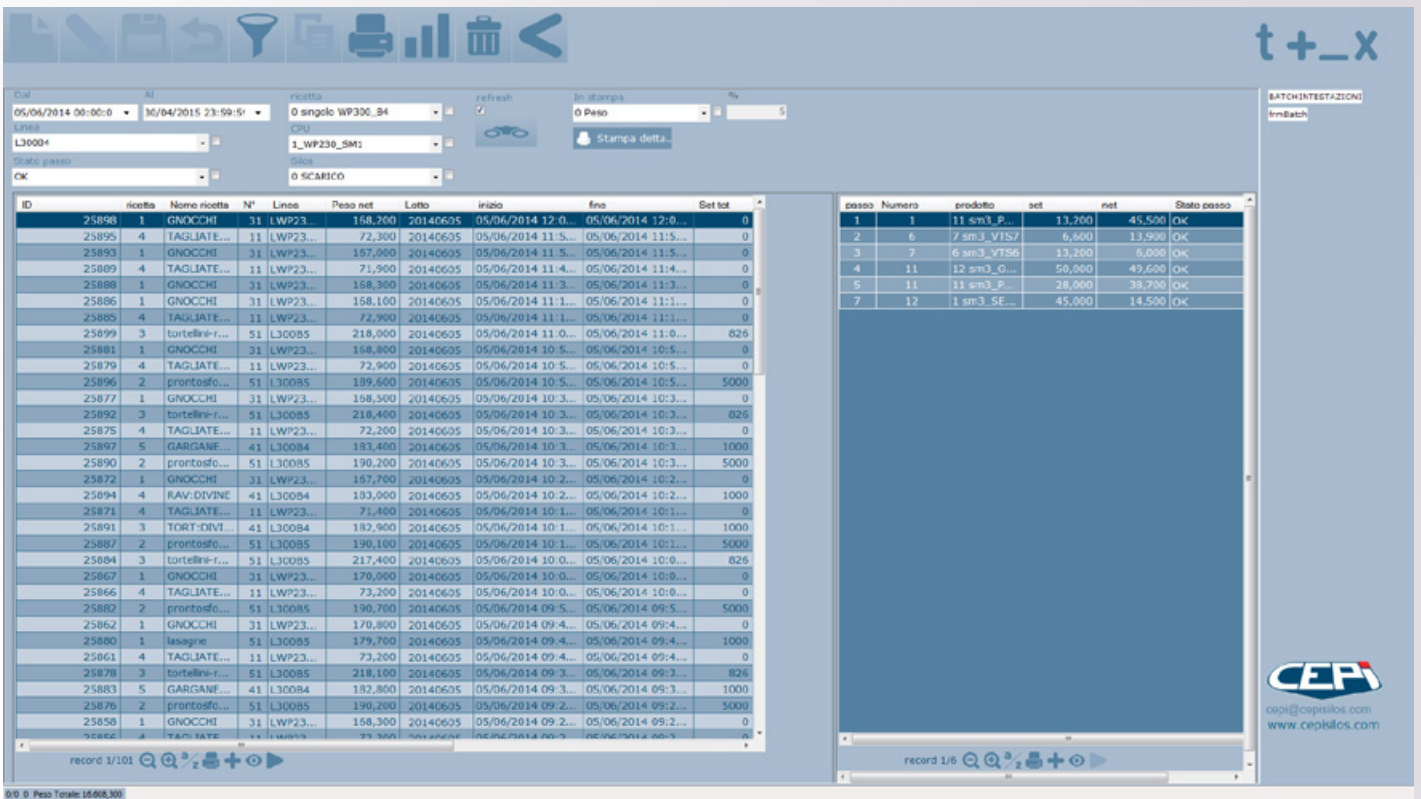
At the bottom right, the CEPI logo and contact information are visible: cepi@cepisilos.com and www.cepisilos.com.

Receives dosed net weights in real time
Report and dynamic representation

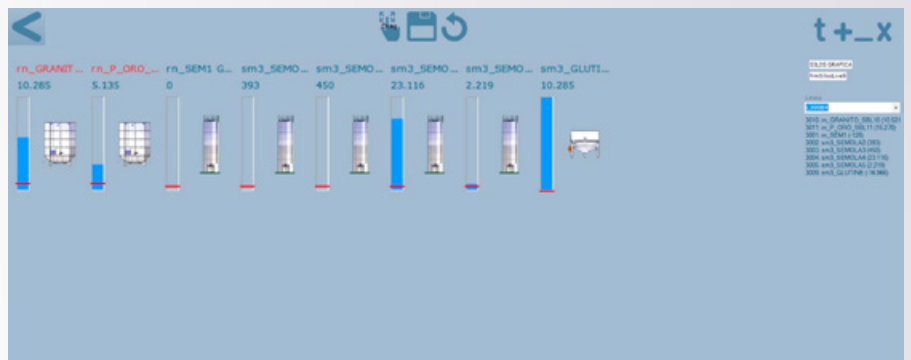
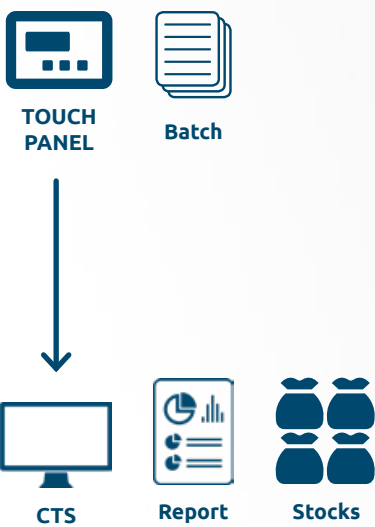


Difference between dosed net weights
and set-points

Warehouse management

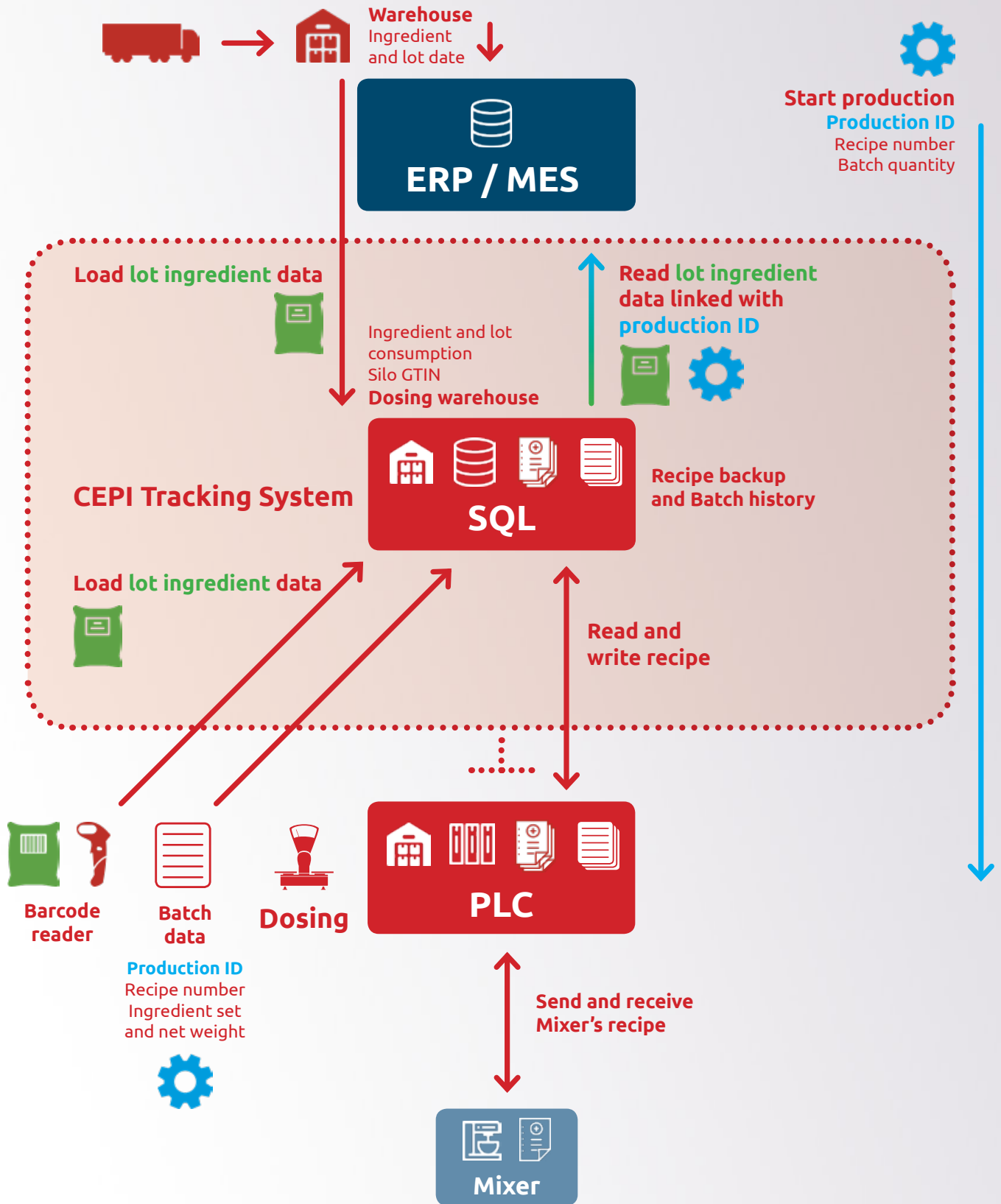


Receives production data from dosing devices
 Batch report and dynamic representation
 Stock visualization and trend

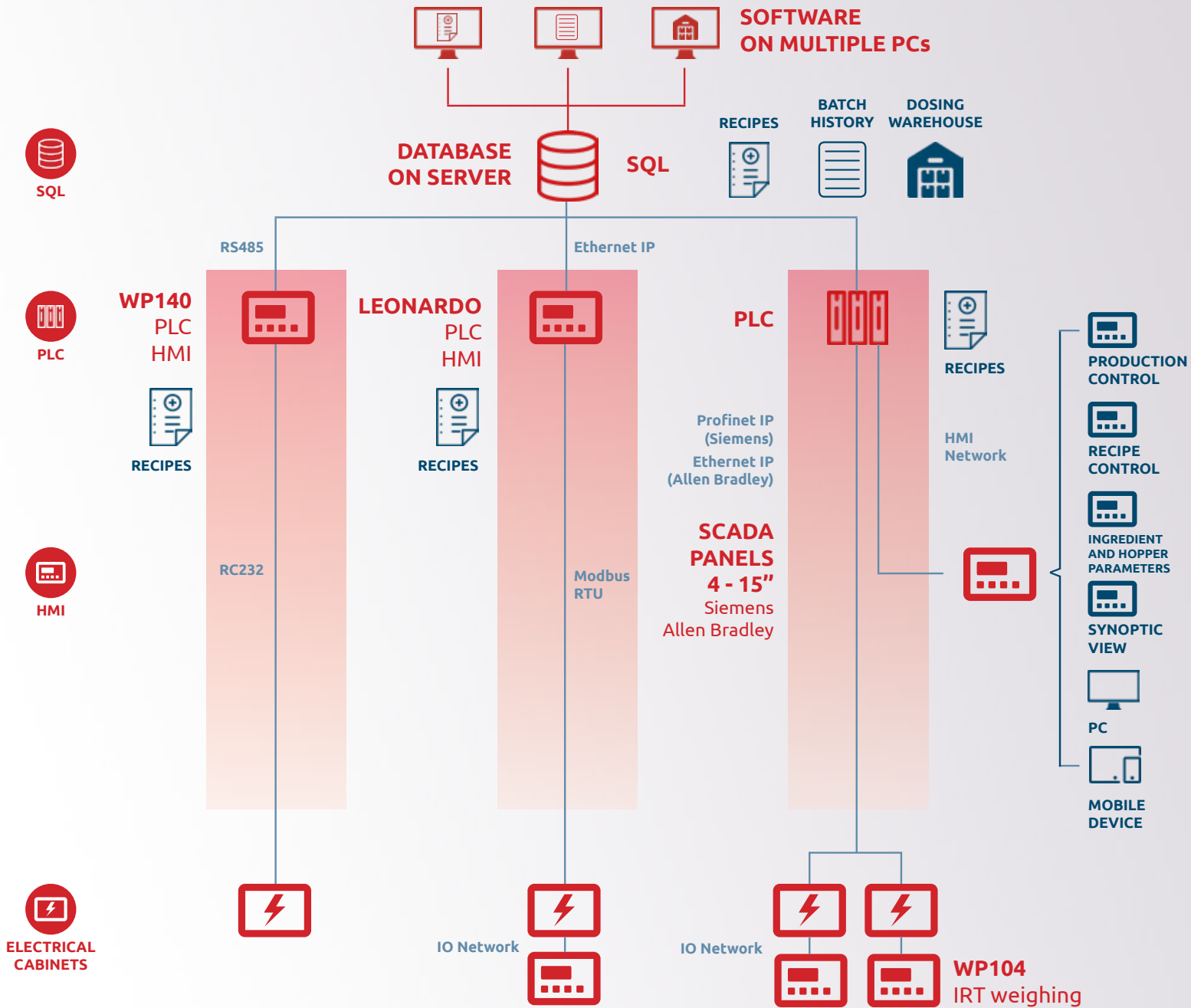


Current weight in each silo

Architecture of the traceability operations



Architecture of the automation system

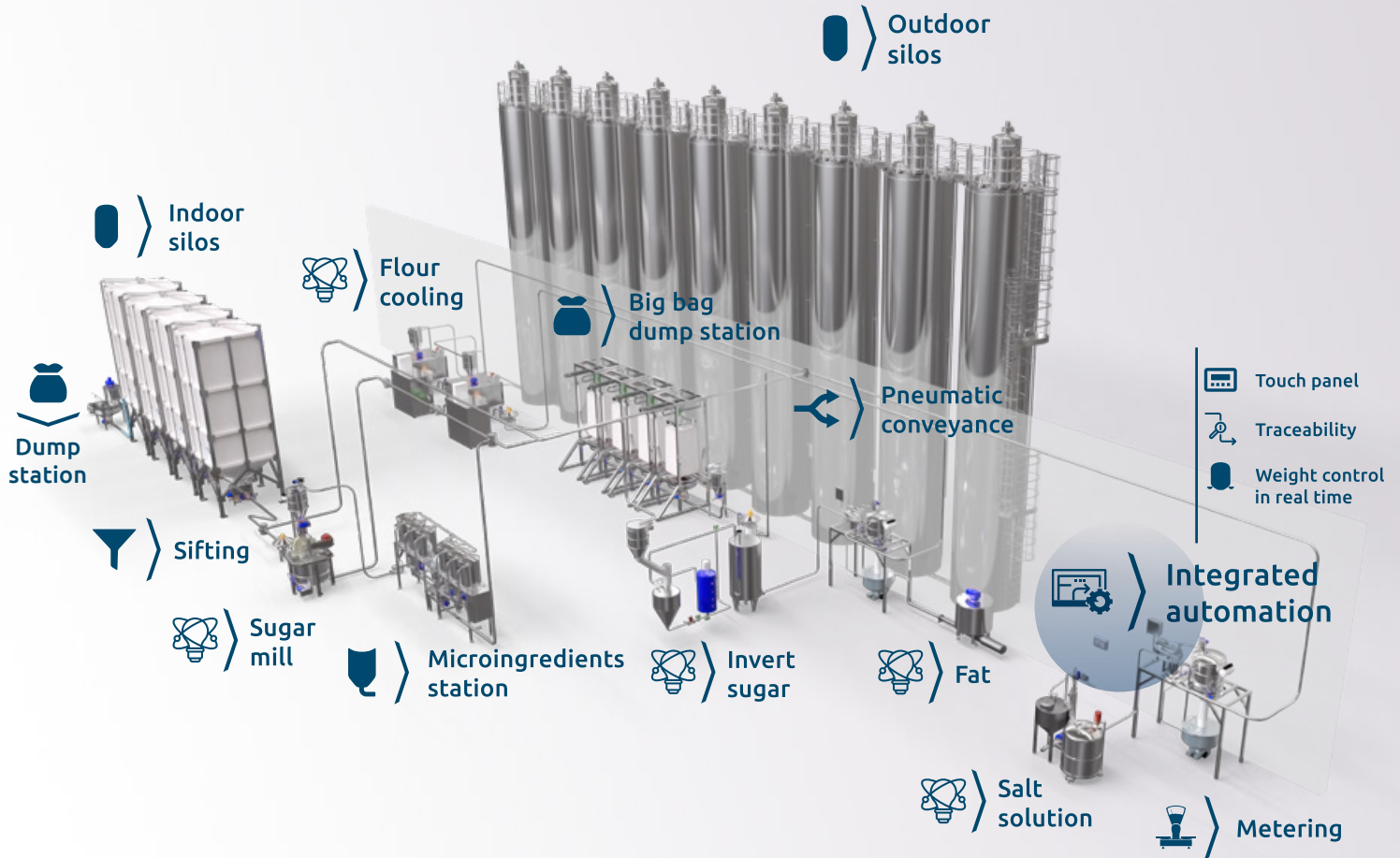


Complexity →





CEPI Spa
 Via G Ansaldo 15
 47122 Forlì FC Italy
 T +390543940514
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