cway

Supervision and smart-charging

mobility

Optimize the operation of your electric buses and energy flow management.

Similarly to the Mobility Orientation and Energy Transition laws in France, incentives for the transition to electric vehicles are prompting the implementation of "clean" public transportation solutions worldwide, aiming for zero emissions as the ultimate goal.

Electric buses are part of the solution, but they bring about a paradigm shift within operations. Operational processes require new monitoring and control tools.

Cway is a software solution that enables the management of your depots and the control of your operations while optimizing your energy consumption.

Control your investments and operational expenses.

Investment

Implement Cway into your system or use it in a Software as a Service (SaaS) version.
During the design phase, accurately assess your needs to minimize infrastructure investments.

Consumption

Reduce the energy bill by adjusting the subscribed power and consumption hours.

Scalability

Cway facilitates every stage of your energy transition, from the first vehicle to your entire fleet.

Guarantee the availability of electric vehicles.

Control and oversight

Cway ensures that your operational plan aligns seamlessly with the capabilities of your electrical infrastructure. With a comprehensive view of your depot, Cway makes it effortless for you to track and assess the performance of your facility.

Independence

Cway interfaces with any charger and vehicle brand. You gain access to unbiased information about the operation of your infrastructure and fleet

Availability

You make the right decision at the right time with alerts and remote commands.

Easily control your environment.

Cway oversees your depots and manages all your charging operations.

A modern and user-friendly interface

- Simplified visuals for essential information
- Check the status of your fleet and infrastructure at a glance
- Centralized alarms for complete responsiveness
- Access detailed analysis of all your parameters
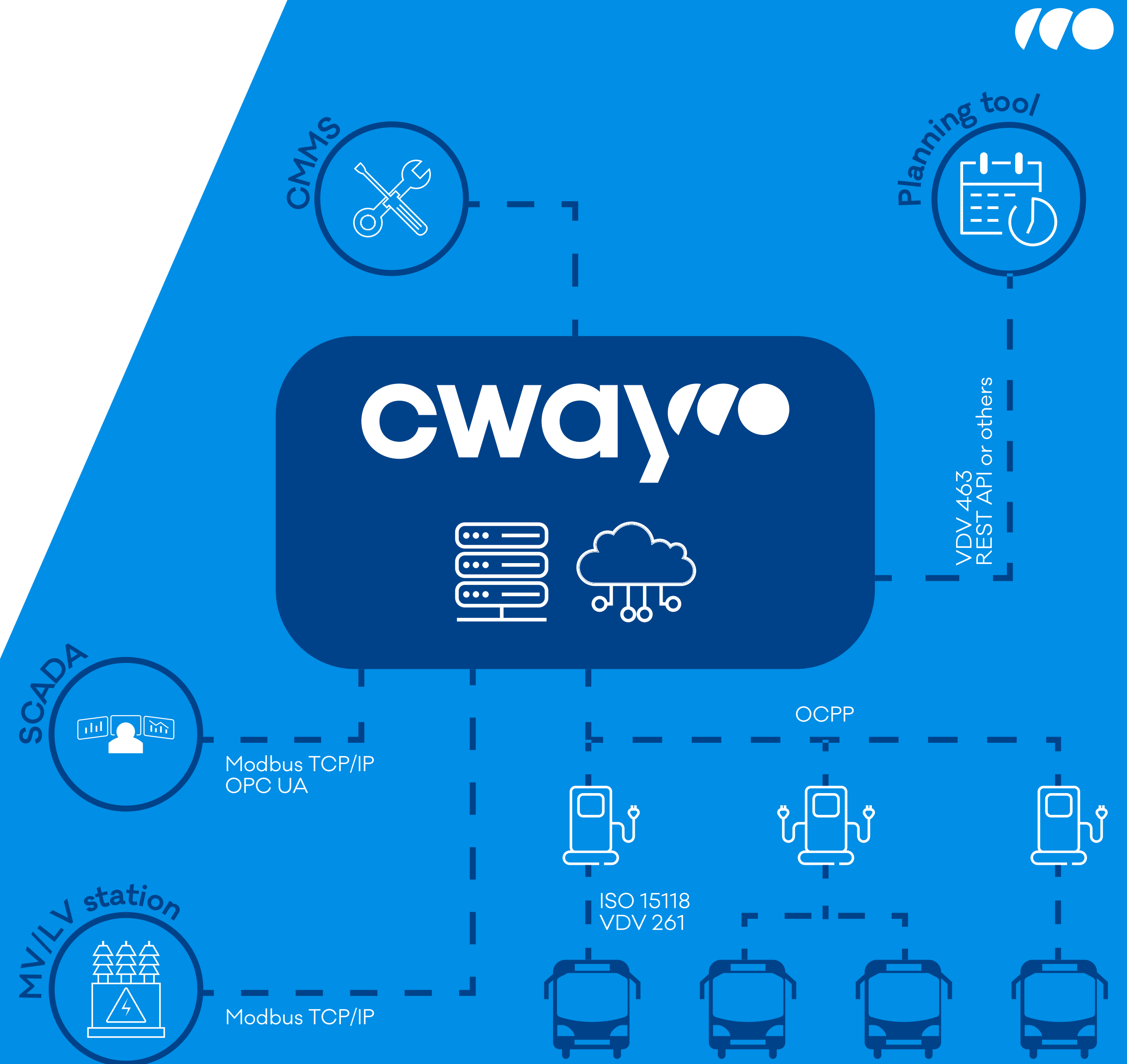
Tools that serve operational needs

- Automated control of charging sequences
- Consideration of manual commands
- Integrated detection of operational anomalies
- Automatic adaptation to operational contingencies
- Automatic charge restart in case of failure

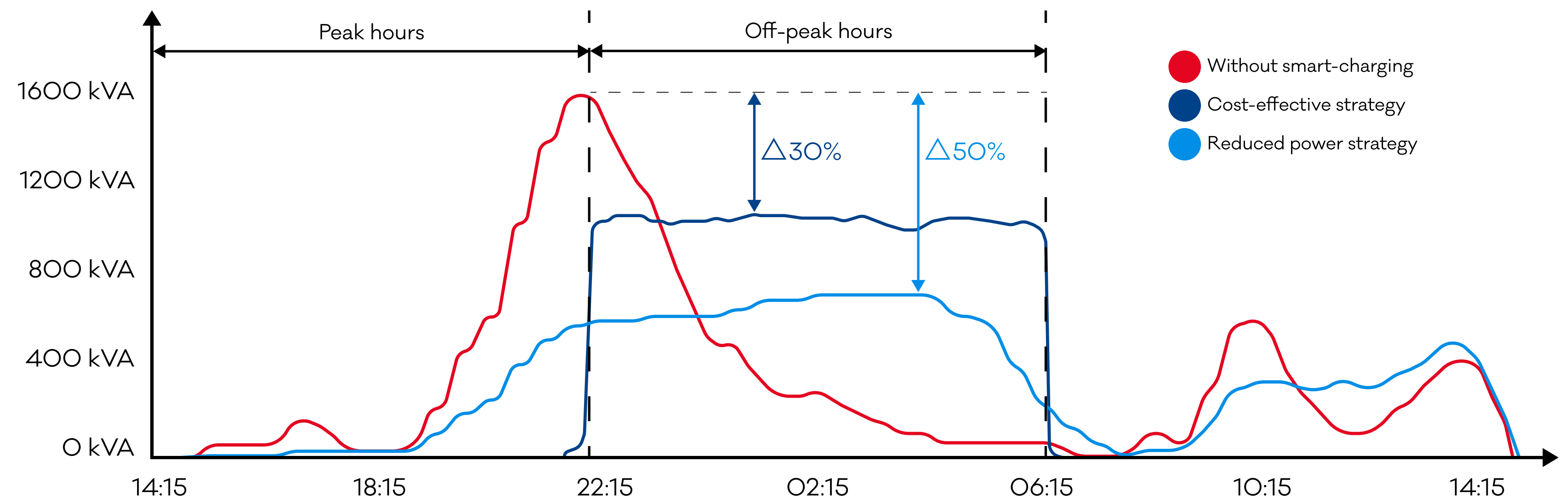# Cway at the core of your infrastructure.

Interoperability and adaptability

- Standardized communication protocols
- Integration with operations and maintenance tools

Tested compatibility

CMMS

Planning tool

cway

VDV 463
REST API or others

SCADA

Modbus TCP/IP
OPC UA

OCPP

MV/LV station

Modbus TCP/IP

ISO 15118
VDV 261

Take control of your consumption.

Peak hours | **Off-peak hours**

Legend:
- 🔴 Without smart-charging
- 🔵 Cost-effective strategy
- 🔵 Reduced power strategy

Y-axis: 1600 kVA, 1200 kVA, 800 kVA, 400 kVA, 0 kVA

X-axis: 14:15, 18:15, 22:15, 02:15, 06:15, 10:15, 14:15

△30%   △50%

Set your goals

- Reduce power peaks.
- Use the most cost-effective energy.
- Charge as early as possible.
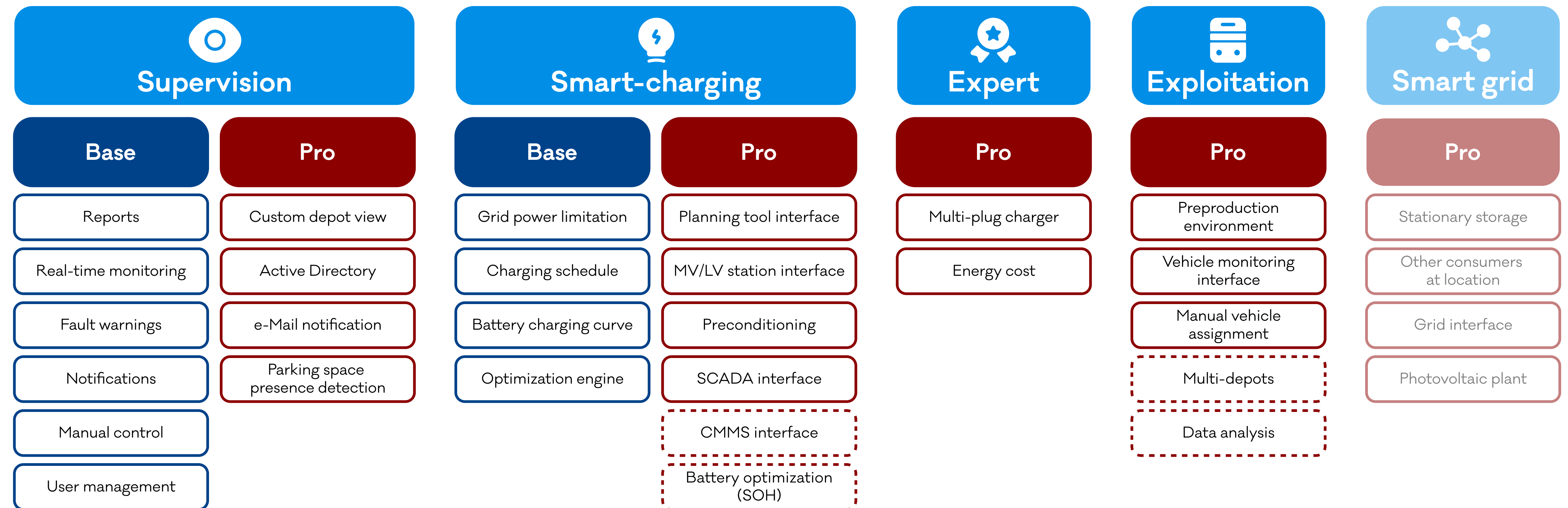
Or find the best compromise.

Data analysis.

Cway interfaces with the electrical infrastructure, chargers, vehicles, and operations. The operational statistics module provides data history and synthesis features.

- Operational Data Logging: Energy, SOC, charging duration, charging sequence history.
- Failure Logging.
- Daily reports on the electrical infrastructure and charger operational performance.
- Charger reliability indicators.

A modular, adaptable and scalable software.

Each base can be completed by several additional modules. The addition of a module is completely transparent for the operator, even after commissioning.
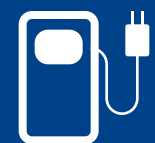
Supervision		Smart-charging		Expert	Exploitation	Smart grid
Base	**Pro**	**Base**	**Pro**	**Pro**	**Pro**	**Pro**
Reports	Custom depot view	Grid power limitation	Planning tool interface	Multi-plug charger	Preproduction environment	Stationary storage
Real-time monitoring	Active Directory	Charging schedule	MV/LV station interface	Energy cost	Vehicle monitoring interface	Other consumers at location
Fault warnings	e-Mail notification	Battery charging curve	Preconditioning		Manual vehicle assignment	Grid interface
Notifications	Parking space presence detection	Optimization engine	SCADA interface		Multi-depots	Photovoltaic plant
Manual control			CMMS interface		Data analysis	
User management			Battery optimization (SOH)			

Key figures.

The French cities of Lyon, Orléans, Toulouse and Marseille already use Cway. Let's talk about your project !

Figures in 2023 :

- **7** transport networks
- **+110** chargers
- **+10** MW daily controlled
- **21** MWh/day
- **140** daily charging sessions
- **17** tons of CO_2 saved per day

They trust us!

STL

RTM

SYTRAL MOBILITÉS

ORLÉANS MÉTROPOLE

tisséo COLLECTIVITES

BORDEAUX MÉTROPOLE

roannais AGGLOMERATION