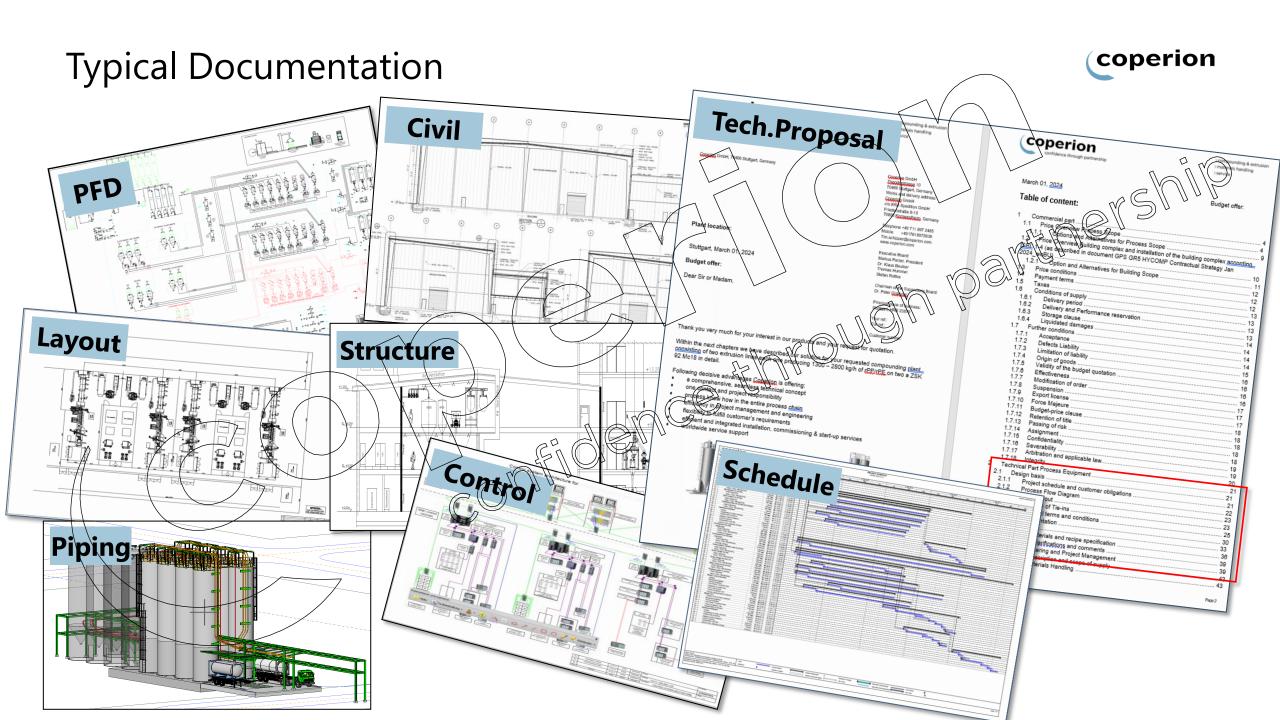


For the **Complete Plant Concept**, our **own experts** work together with **design partners** for the infrastructure civil section. But we are as well open to partner up with our customers or their consultants / contractors and share the scope of the **conceptual study**. We can provide essential deliverables up to the maximum content like contractors do.

Conceptual Study with documents package

- Process Flow chart
- Plant layout
- Equipment, piping & utilities specification
- Automation concept
- Technical description
- Execution concept & time schedule
- Budgetary assumption of the investment volume



System Integration - Basics

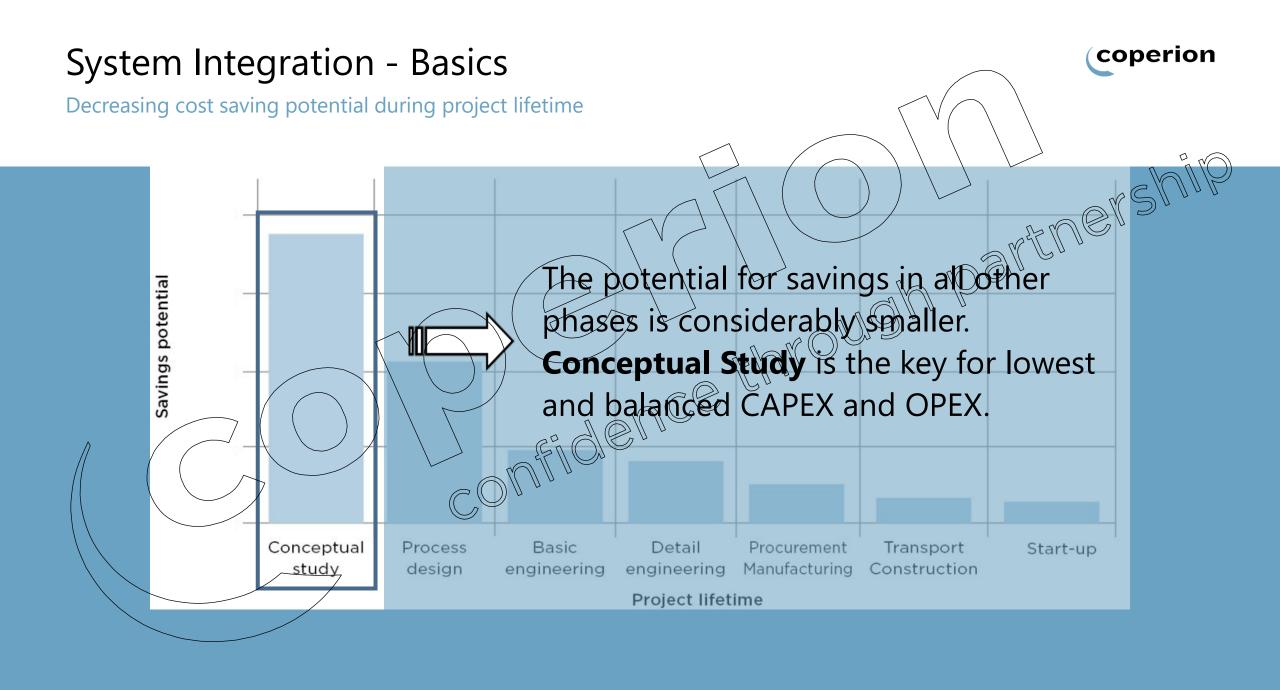
coperion

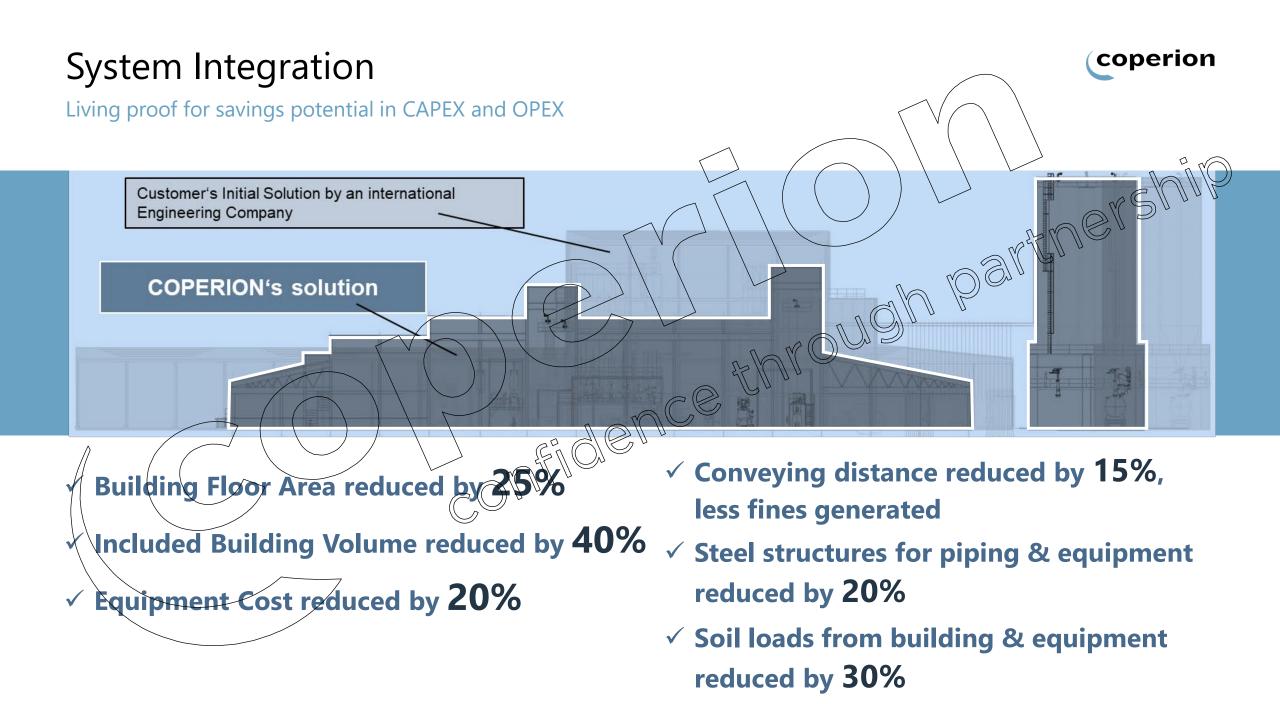
The Perfect Plant Concept – Requirements to be brought in balance

Local Labour **Construction Management** Necessary Modifications Site Facilities, Storage **Building Services** Construction & Operation **Process Requirements** Structural\Steel\ Permits Permits Infrastructure Constraints **Layout Requirements** Soil Properties Civil Works Transport ≝nvironmental Regulations Package Units Electrical, Inst., Contr. Time Schedule Plant Operation Taxes & Duties

Optimum Plant & Realization Concept

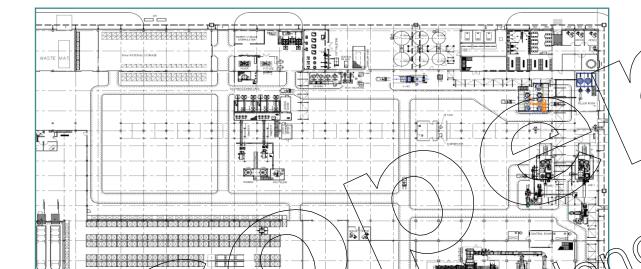
Comprehensive knowledge of the *process* and all **other project aspects** builds the basis for the optimum plant concept and the best realization strategy for the project.





Turnkey Processing Plants

Complete Compounding Plant in KSA, incl. demolition and utilities











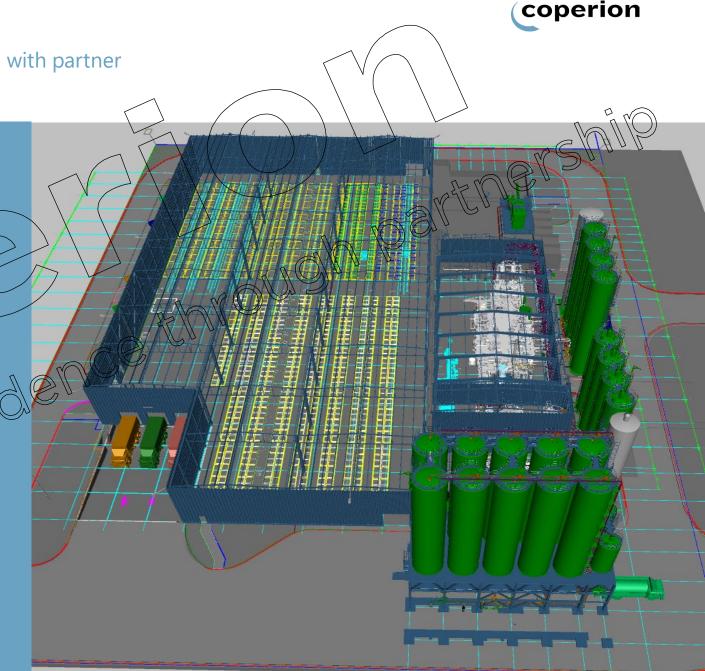


- Integration of a compounding plent with four extrusion lines in an existing building
- ✓ Extruders incl. Ly feeders and pre-hoppers as modularized system
- ✓ ¿Ram and finished Product storage & Handling
- Packing and Palletizing
- ✓ Demolition of old facilities
- ✓ Piling, foundations, steel structures, building modifications and all other required civil works
- ✓ Utilities generation and distribution system
- ✓ All other services and supplies to build a complete plant.



Complete Compounding Plant in Europe, incl. building with partner

- ✓ Compounding Plant on Green Field
- ✓ Production building
- ✓ Office / maintenance complex
- ✓ Warehouse incl. logistic office.
- ✓ Roads, parking and other open areas
- Piling, foundations, steel structures, and affine other required givil works
- √ Utilities generation and distribution system
- ✓ All other services and supplies to build a complete plant.



Turnkey Processing Plants

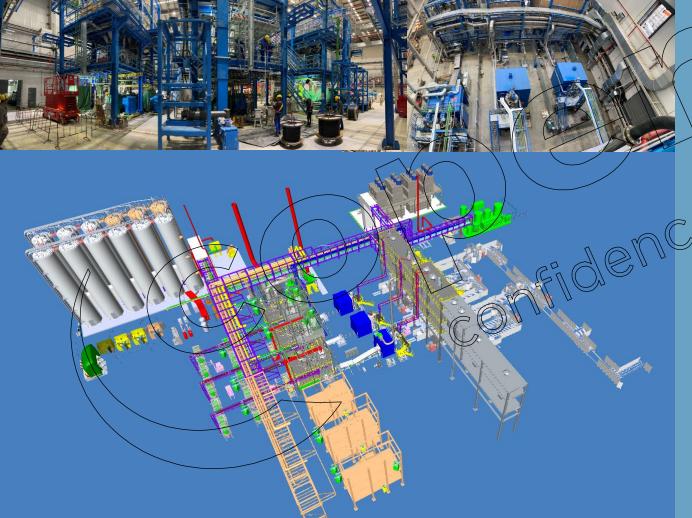
Compounding plant for PA/PBT in Asia, regular customer







- ✓ Mixing stations / feeding (vs)
- Pelletizing systems classifier, spiral conveyor
- ed good handling (conveying, silos, cleaning system)
- Packaging lines for bag and BB
- ✓ Steel structures (430 tons) and piping systems (7,6 km)
- ✓ Auxiliaries (water treatment, cleaning oven, dry and wet aspiration)
- Entire control system with hard- & software and cables (78 km)
- Site management and supervision by multiple Coperion sites





Summary and Essence

(coperion

(coperion

is the **ONLY** worldwide supplier that designs and produces the core equipment for the complete process chain by itself.

coperion

offers a unique experience in both process and insterial handling know how

Our customers benefit from our added value:

Design and execution of an entire process plant a complex exercise. Our detailed knowledge of the complete process chain and experience in providing numerous production lines, enables us to provide the right process solution. Our described and harmonizing all required disciplines, for the perfect overall solution of your plant.

This is what the experience of Coperion stands for.



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