



# Technical planning for automation / OT

The complexity of automation solutions is constantly increasing. Technical planning by automation / OT experts with interdisciplinary expertise increases efficiency when developing and implementing the ideal automation / digitalisation concepts.

## Join forces with RETEL as a strong partner to achieve greater effectiveness through comprehensive technical planning

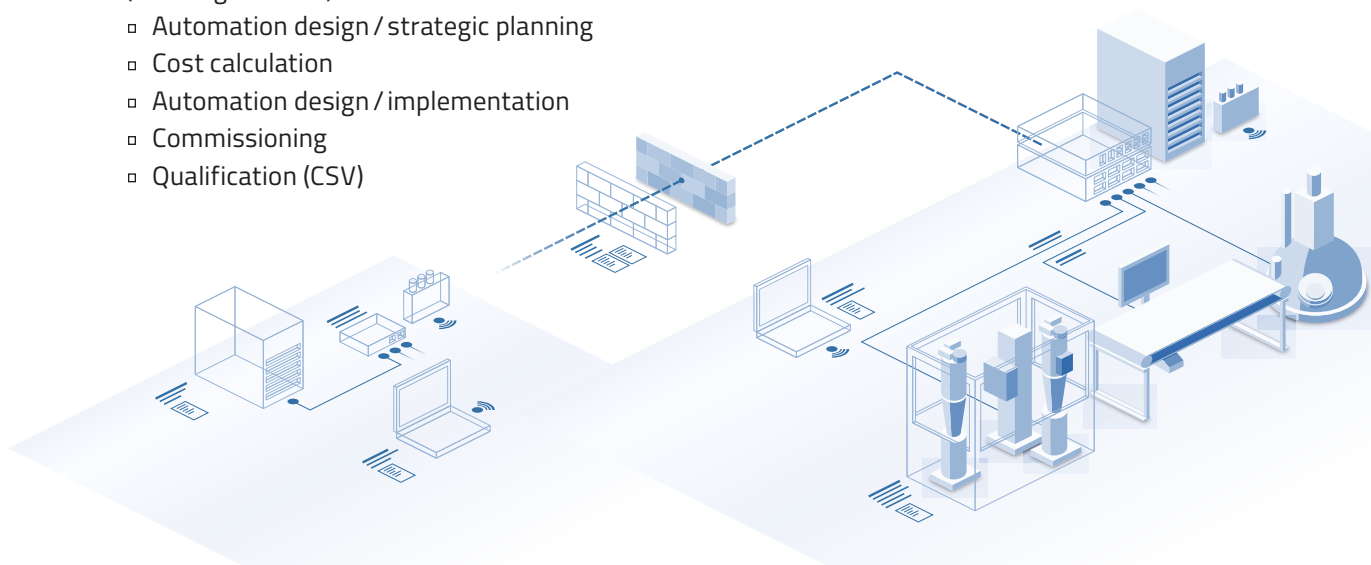
Based on our many years of experience in the design and realisation of automation / OT projects in the GMP environment, we have an in-depth and first-hand understanding of the requirements. Consequently, we can support you ideally: from the needs analysis right through to commissioning. We use state-of-the-art technologies and tools to define your project, optimally enhancing your project team from an automation perspective.

### Services

- Inventories, analysis of existing systems
- Technical planning for automation (SIA stages 1 to 6)
  - Automation design / strategic planning
  - Cost calculation
  - Automation design / implementation
  - Commissioning
  - Qualification (CSV)

### RETEL areas of expertise ...

- **Industrial process automation** We will plan your plant / system functions and your infrastructure: from the individual plant through to the process control system(s).
- **Building automation** We will plan your building automation / infrastructure: from individual trades / disciplines to fully-fledged building management systems.
- **Industrial OT / IT network and server infrastructure** We will plan your OT infrastructure, including all central services.
- **Data processing and visualisation / digital solutions** We will plan your GMP data acquisition: from GMP monitoring to the complete central data historian infrastructure.





Stages in which we can support you

## From technical planning to implementation – everything from a single source.

Stages	RETEL services	
<b>1 Strategic planning</b> SIA sub-stage 11	<ul style="list-style-type: none"> <li>Needs analyses</li> <li>General concept</li> <li>Definition of solution strategies</li> </ul>	<ul style="list-style-type: none"> <li>Approximate cost estimate</li> <li>Formulation of a business case</li> </ul>
<b>2 Preliminary study</b> SIA sub-stage 21–22	<ul style="list-style-type: none"> <li>Project definition</li> <li>Technology comparisons</li> <li>Approximate budgeting</li> <li>Strategy consulting</li> </ul>	<ul style="list-style-type: none"> <li>Development of a digitalisation strategy</li> <li>Preparation of a detailed budget</li> </ul>
<b>3 Project planning</b> SIA sub-stage 31–33	<b>Conceptual Design (CD)</b> <ul style="list-style-type: none"> <li>Requirements specification</li> <li>Specification sheets</li> <li>Automation concept</li> </ul> <b>Basic Design (BD)</b> <ul style="list-style-type: none"> <li>Risk analyses</li> <li>Compliance assessments</li> </ul>	<ul style="list-style-type: none"> <li>Overview of functions</li> <li>Instruments overview / data point lists</li> <li>Functional description</li> </ul> <b>Detail design (DD)</b> <ul style="list-style-type: none"> <li>Detailed specifications</li> </ul>
<b>4 Tendering</b> SIA sub-stage 41	<ul style="list-style-type: none"> <li>Quote comparison(s)</li> <li>Preparation of contract award proposals</li> </ul>	<ul style="list-style-type: none"> <li>Creation of tenders</li> </ul>
<b>5 Execution</b> SIA sub-stage 51–53	<ul style="list-style-type: none"> <li>Scheduling</li> <li>Coordination of trades / disciplines and interfaces</li> </ul>	<ul style="list-style-type: none"> <li>Project management assistance</li> <li>Site management</li> <li>Builder support</li> </ul>
<b>6 Operation</b> SIA sub-stage 61–62	<ul style="list-style-type: none"> <li>Creation / concept</li> <li>Operational support</li> <li>Service Level Agreements (SLA)</li> </ul>	<ul style="list-style-type: none"> <li>Support throughout the entire plant / system life cycle as your partner</li> </ul>

TECHNICAL P

EXECUTION



We stand out with our in-depth expertise and broad interdisciplinary knowledge, complementing your project team at every stage.