

**You have the goal.
We know the way,
Our suitable offer**

T&O FabPlan

The way to a successful master and structure plan!

Ihre
T&O Unternehmensberatung GmbH
Elsenheimerstrasse 47
80687 München

Unternehmerische Höhenflüge fangen mit Tiefgang an
T&O geht ins Detail, damit das große Ganze stimmt

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01 | Our goals for your factory

We make factories!

Today's factory – ready for tomorrow

Lean & economical



Transparent, efficient and waste-free assembly process and material flow with maximized space efficiency

Flexible, fit & faster



Cost-saving and rapid change to market and production conditions

Attractive



Optimization of working conditions in ergonomic and friendly functional surfaces

Value Creation 4.0



Agility & Digitization



The planning of a factory is the chance to align investments with the corporate strategy!



02 | The T&O Lean Services

T&O goes into detail,
So that the big picture is right.

T&O FabPlan – the general planning *



Master and structural planning	Functional planning and implementation	Building planning and implementation (in the network)	Integration, project and cost management
<ul style="list-style-type: none">▶ Potential analysis▶ Feasibility study▶ Variant investigations, strategic orientation▶ Greenfield▶ Brownfield▶ Global Footprint	<ul style="list-style-type: none">▶ Expansion & Restructuring▶ Site Merge▶ Detailed planning of production, warehousing and logistics as well as offices and workshops▶ Design of functional specifications▶ Use of digital planning methods (BIM-supported planning)	<ul style="list-style-type: none">▶ Architectural planning of complete locations (domestic and foreign) Lph 1 – 9▶ Structural and TGA planning in phases 1 – 9▶ Green Building Planning (Energy and Resource Efficiency) in Phases 1 - 9	<ul style="list-style-type: none">▶ Project management with regard to planning, procurement, commissioning of factories and equipment▶ Change management▶ Assumption of project responsibility and client support

From the initial idea to successful operation

T&O FabPlan - connects technology, organization and people



Production	Warehouse and Logistics	Bureaus	Workshops in industry and public enterprises
<ul style="list-style-type: none">▶ Assembly/pre-assembly/production▶ Ancillary workshops▶ Production logistics/intralogistics	<ul style="list-style-type: none">▶ Storage areas (conventional, automatic)▶ Goods receipt, goods issue, shipping, ancillary areas▶ Material flow concepts, conveyor technology	<ul style="list-style-type: none">▶ Workshop and warehouse offices▶ Office and administration buildings	<ul style="list-style-type: none">▶ Maintenance workshops, buildings and machines▶ Tool and fixture workshops▶ Workshops in public companies

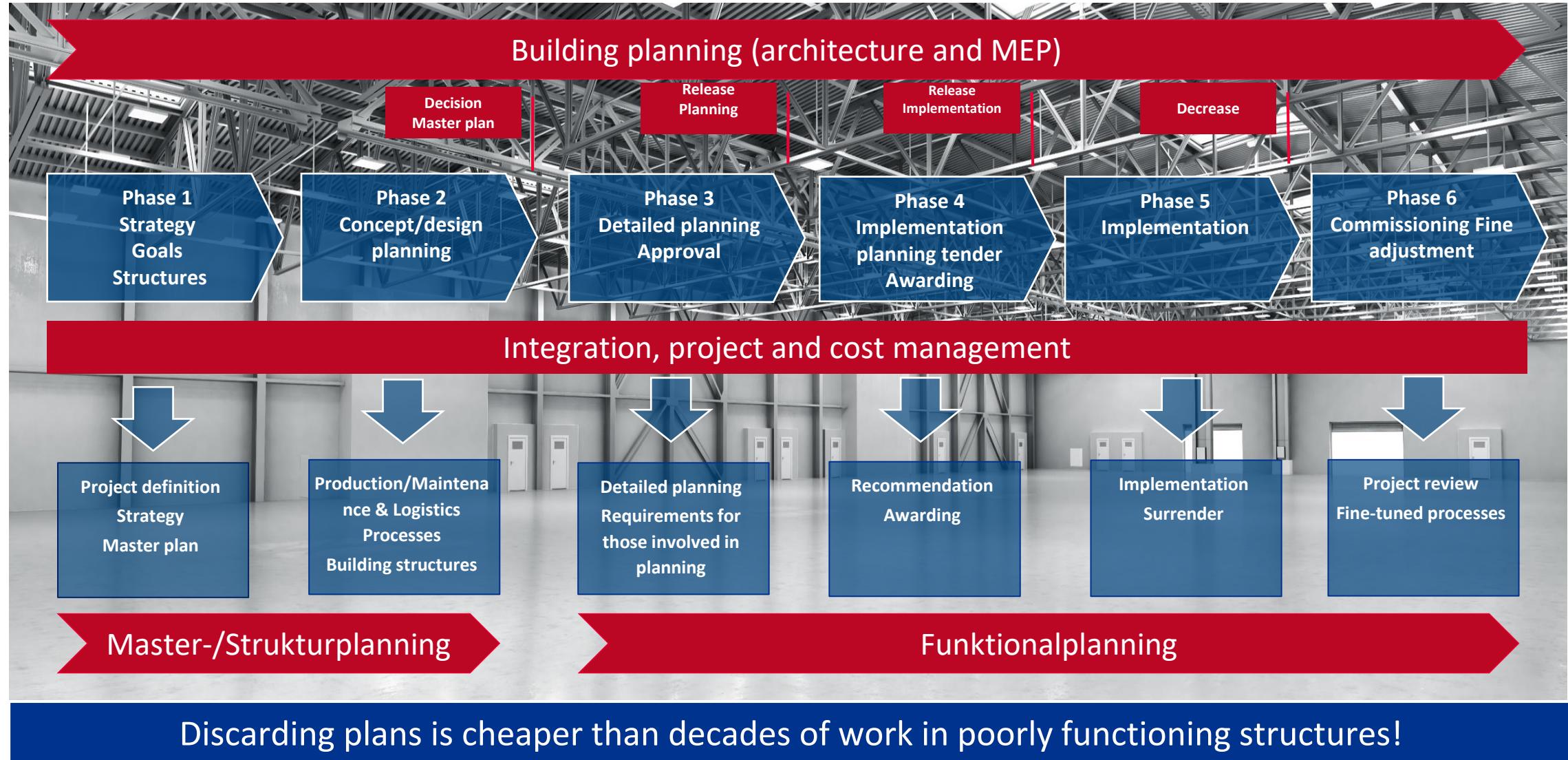
In-depth knowledge of factory processes and many years of successful project implementation



03 | T&O Vorgehensmodell

T&O optimises/designs factories through the strong community of a wide variety of disciplines and the associated holistic interlocking of services

03 | T&O FabPlan: Phases of factory planning





03 I Contents Master and Structural Planning (selection)

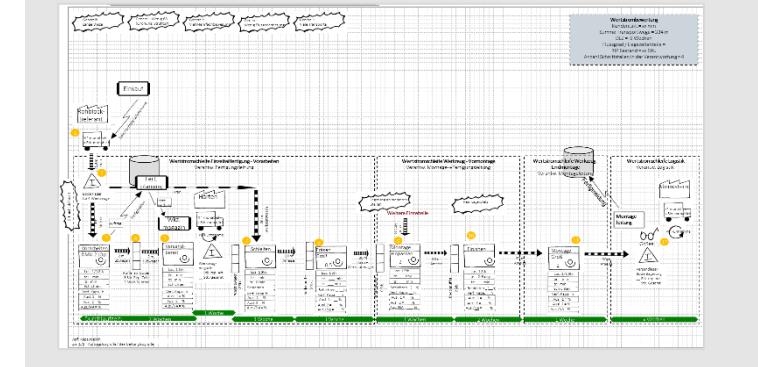
Location & Building Options



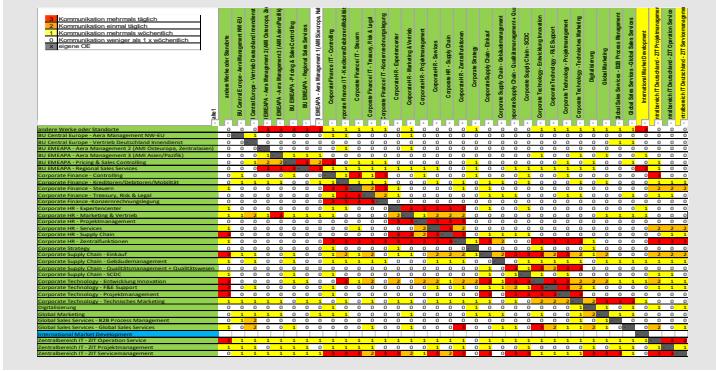
Material flow diagram



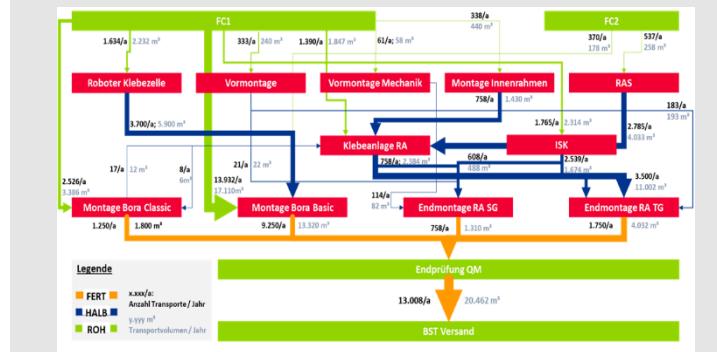
Value stream



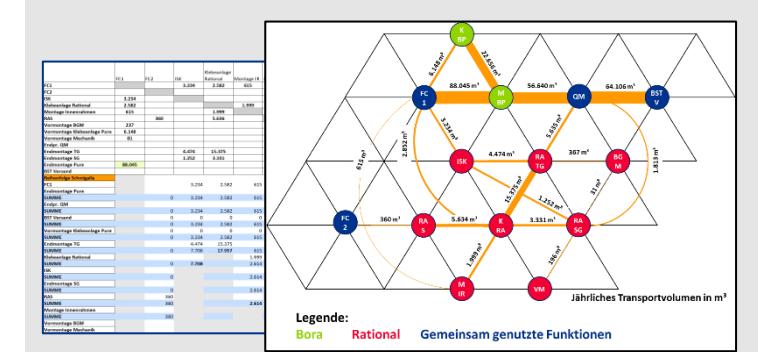
Structures



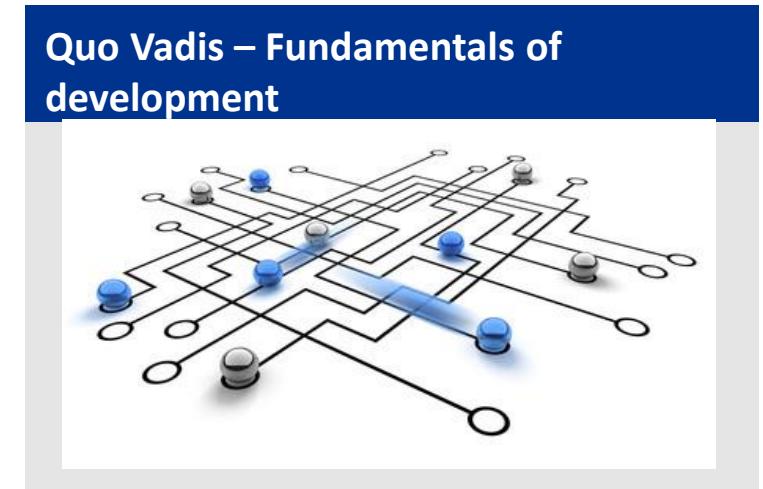
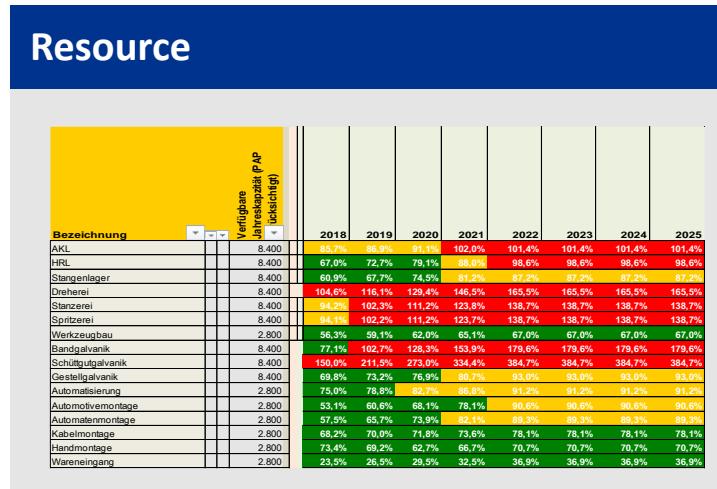
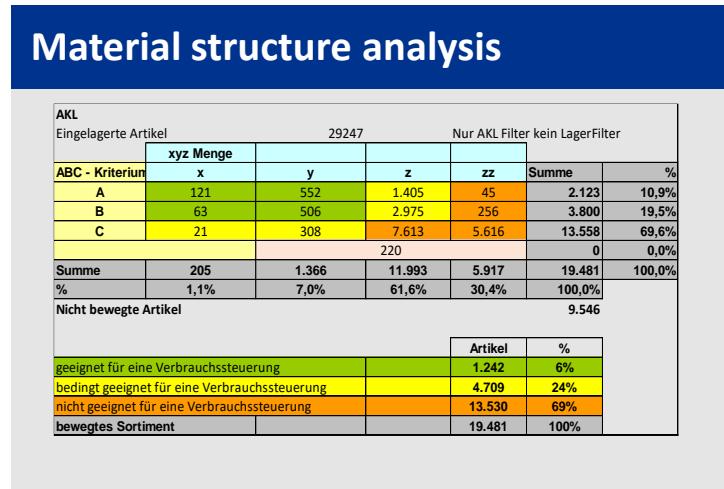
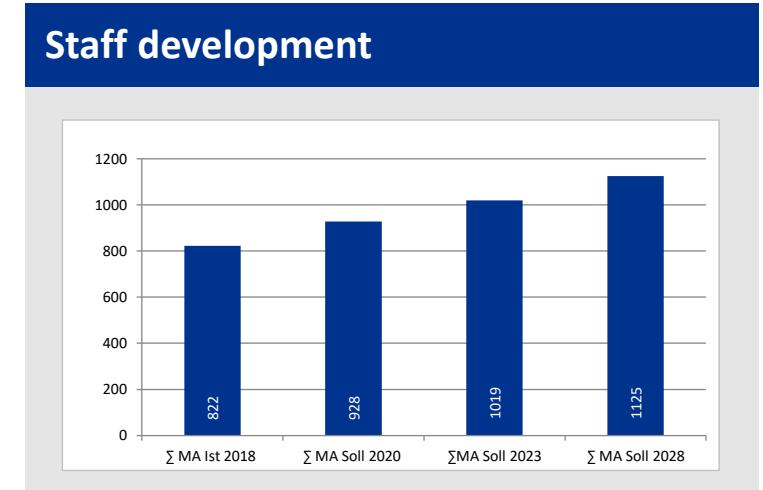
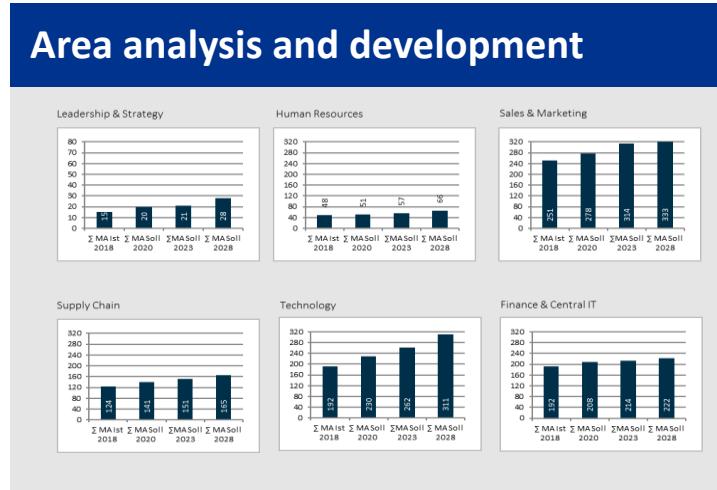
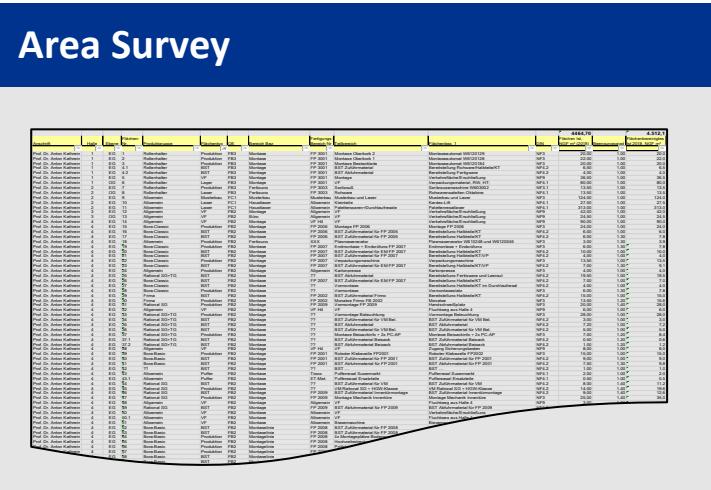
Factory Sankey



Schmidgalla Analysis



03 I Contents Master and Structural Planning (selection)



03 I Contents Master and Structural Planning (selection)

Modulplanning

Storage system planning (rough)

Material flow arrangement

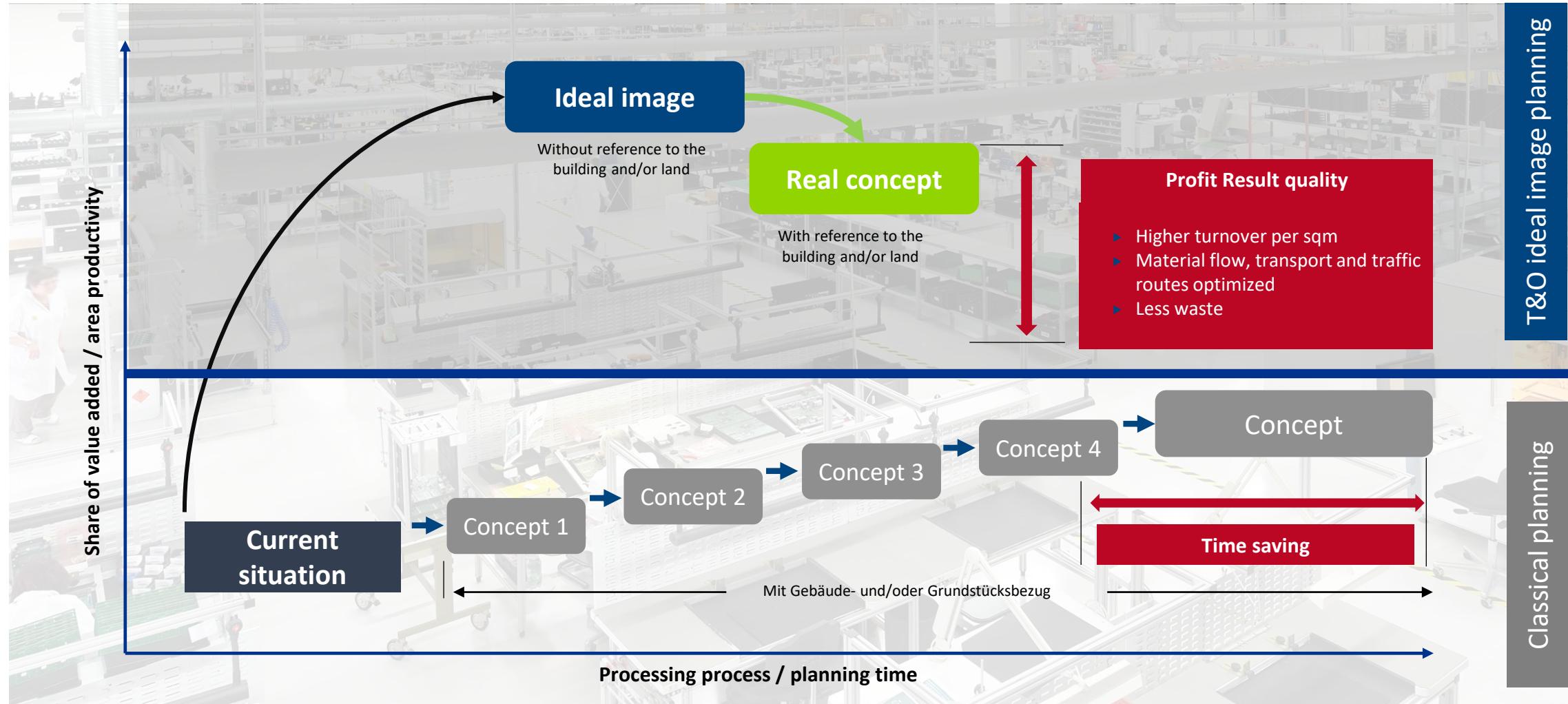
Logistics concept

Einordnung	
Investkosten	↓
Automatisierungsgrad	↑
Flexibilität	↓
Ware zu Mann	↓

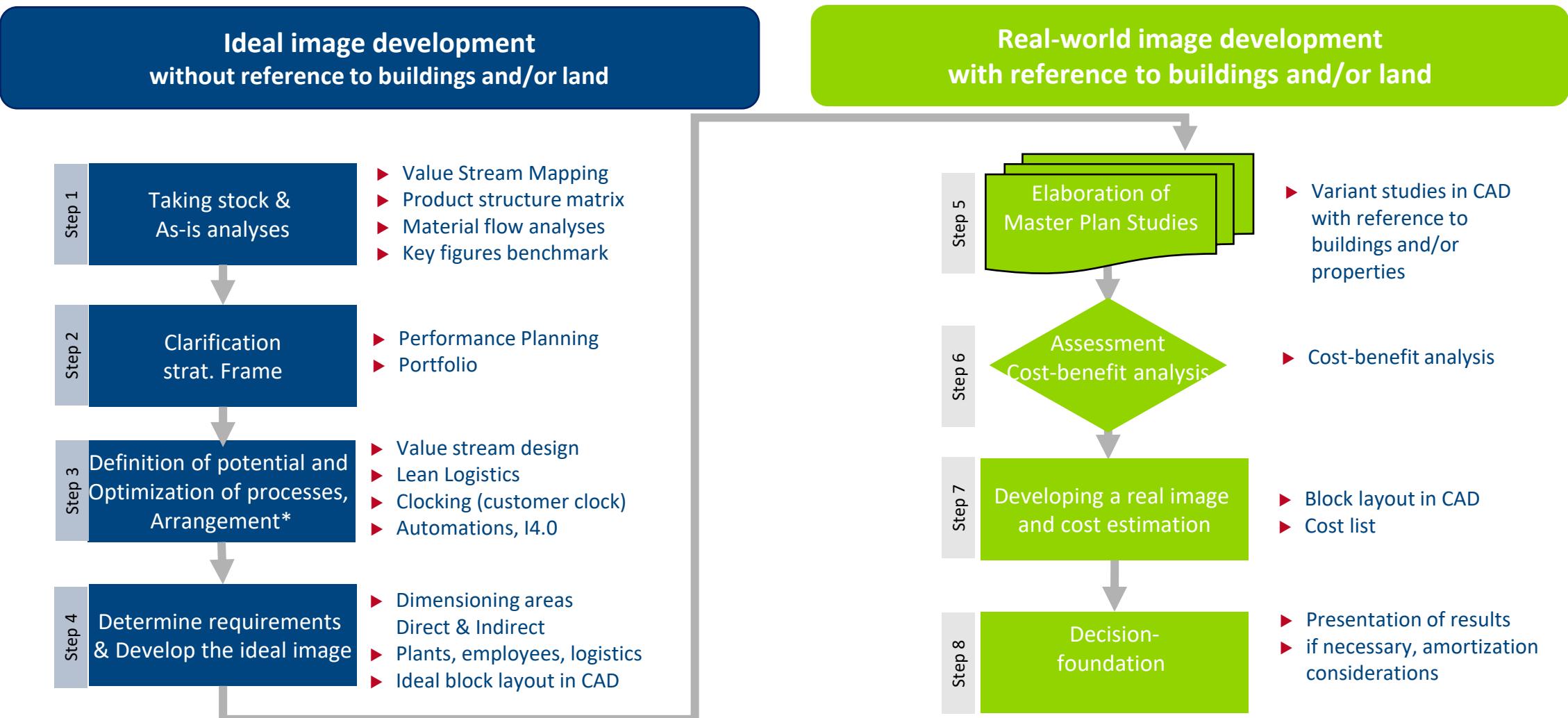
Blocklayout

Design ideal layout (ideal image)

03 | T&O Planning Approach versus Classical Planning



03 | In 8 steps to an optimized real image



03 | Approach to real education

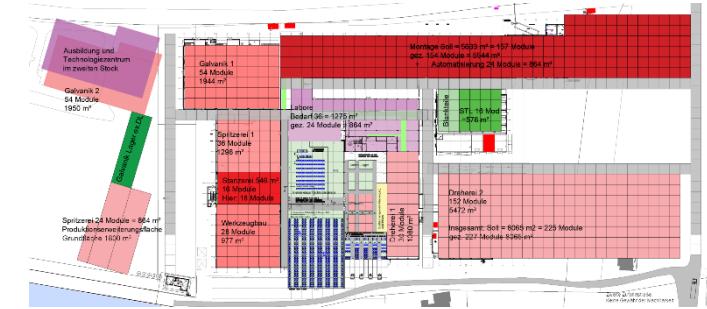
Concept studie



Variant representation



Optimal variant



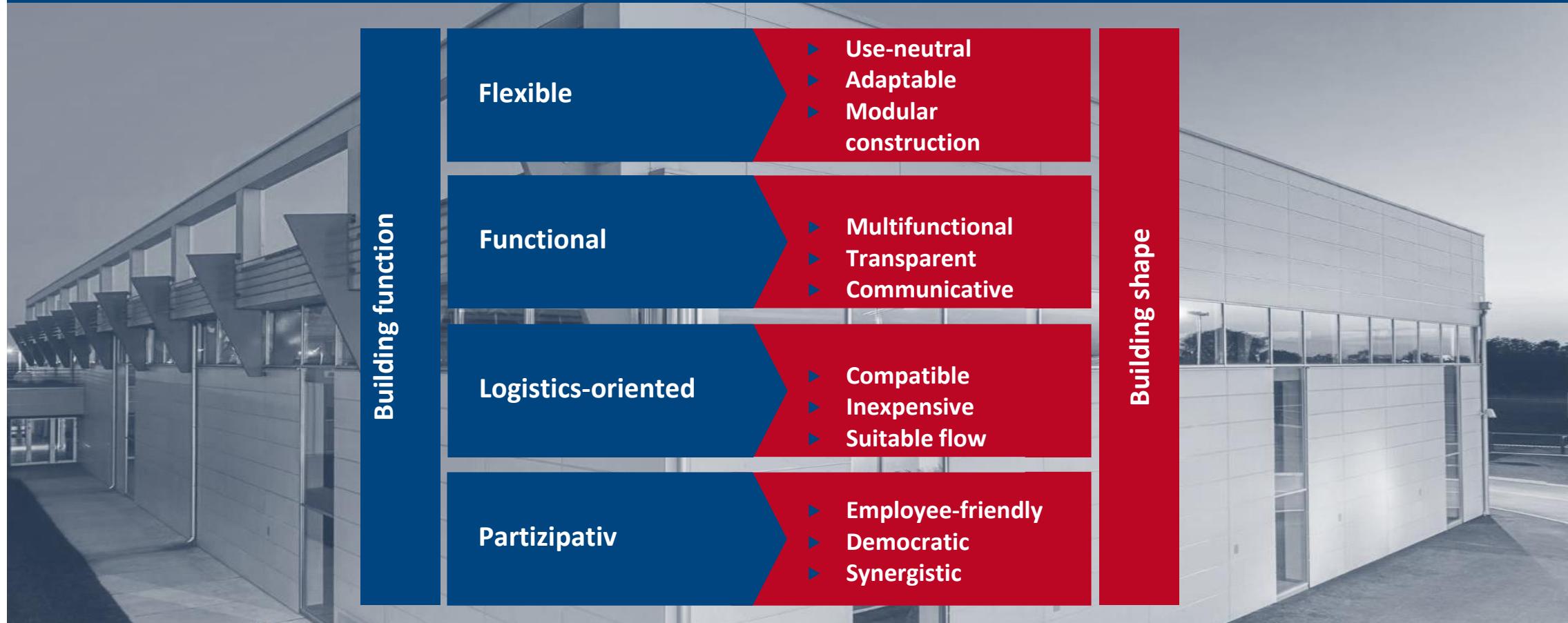
- ▶ Basic structuring of the factory premises
- ▶ Functional
- ▶ Central traffic and material flow axes
- ▶ Development and expansion axes

- ▶ Development of plant assignment variants
- ▶ Variant evaluation process (utility analysis/economical)
- ▶ Determination of the preferred variant

- ▶ Elaboration of the preferred variant
- ▶ Definition of the building structure
- ▶ Block layout of the areas
- ▶ Traffic and material flow concept
- ▶ Implementation roadmap
- ▶ Investment

Creating an overview on the basis of many development options - promoting the economic use of valuable land

Definition of the requirements for a modern factory structure via the shape of the building



Discarding plans is cheaper than decades of work in poorly functioning structures!

03 | Improvements of T&O



+5% bis +20%
Productivity



+10% bis +30%
Punctuality



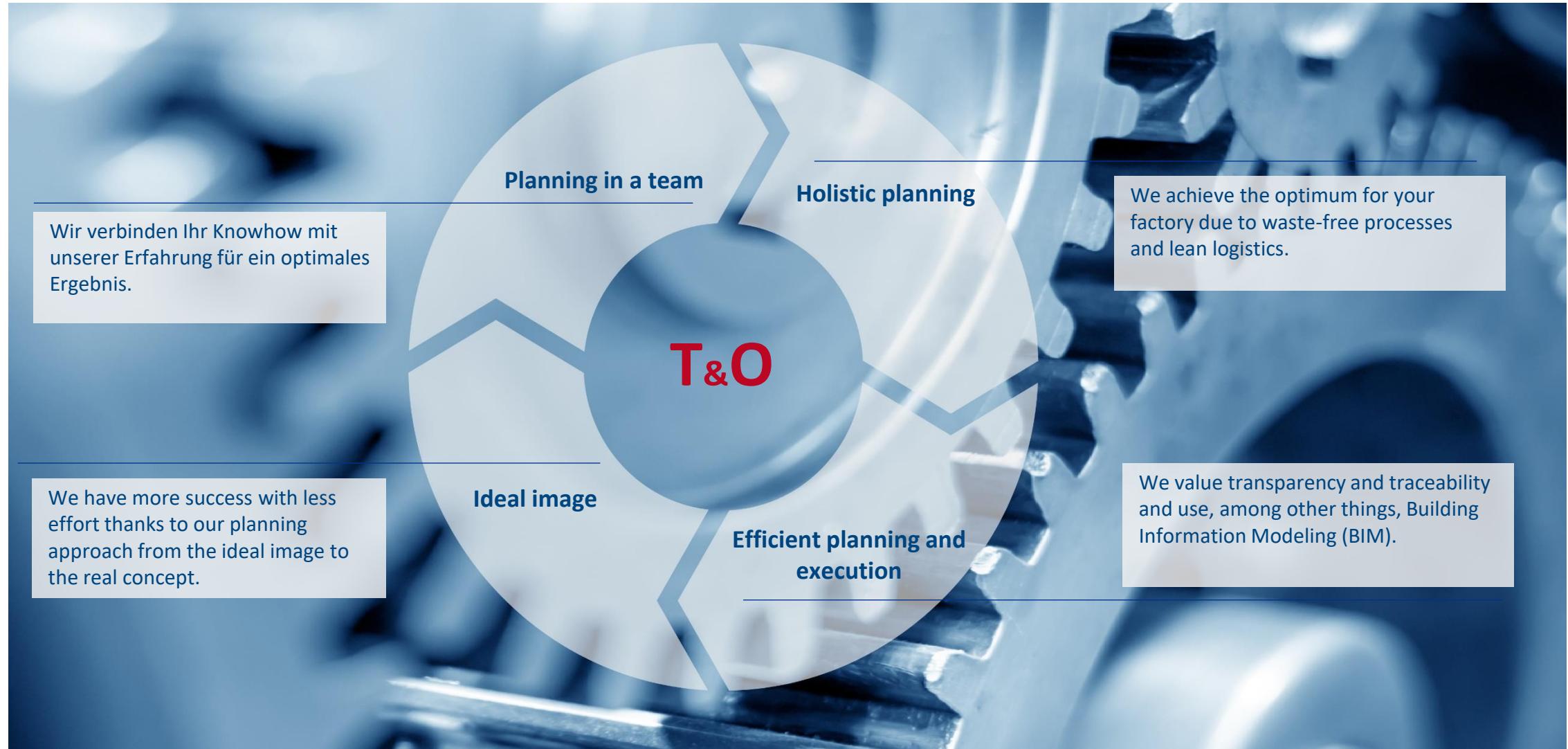
-10% bis -30%
Stock



-5% bis -15%
Cost



+5% bis +10%
Quality



Technology needs people. And people need organization.

We do not view technologies in isolation from the organization in which they are applied. And we always see the organization as the sum of the people who work there. One cannot exist without the other two.

**Sustainable corporate success is only possible
if all three factors interact perfectly.**

To achieve this goal, we are here for you.

T&O Group

info@tundo.de

T&O INDUSTRIAL EXCELLENCE

info@tundo.de
info@tundo.ch

T&O MOBILITY MAINTENANCE

info@tundo.de
info@tundo.ch

Lean & Green

info@tundo.de

GEPRO

info@gepro.com

procon⁷

office@procon.at

agiplan[□].ch

info@agiplan.ch

ACADEMY
T&O Group

academy@togroup.company

QUADRIGA CONSULT

administrator@quadrigaconsult.com

togroup.company

tundo.de/industrie
tundo.ch

tundo.de/mobility
tundo.ch

lean-and-green.de

gepro.com

procon.at

agiplan.ch

togroup.academy

quadrigaconsult.com

