



LEAN PRODUCTION PLANNING

OPTIMIZATION IN CAPEX AND OPEX

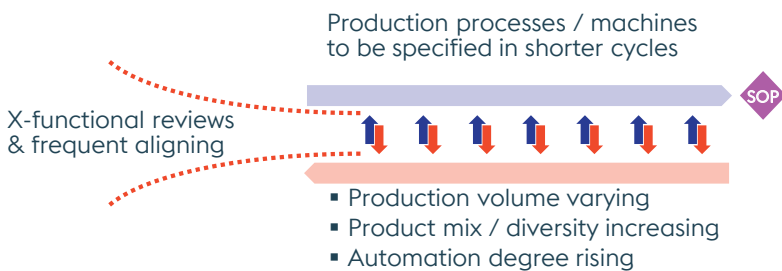
MANUFACTURING UNDER PRESSURE

Automotive industry especially production planning is facing new challenges:

- Product development cycles become shorter
- Frequency of changes to parameters for production planning is increasing:
 - Total production volume
 - Product mix to be produced
 - Availability of production technology / automation degree
- Transparency on planned vs actual process cost is declining

IMPLEMENTING LEAN PRODUCTINO PLANNING

- Increase frequency of alignment between all parameters with improving premises
- Push decision-making regarding production processes and machines at the closest level possible to the SOP
- True x-functional team aiming at the resource-friendliest industrialization



OUR BENEFITS

Delivering clear and measurable results to our clients is core of our DNA.

With our efficiency program we determine potentials helping our clients to decrease required resources over lifecycle by

- Balancing automation & workforce
- Encouraging module formation & scopes of delivery
- Identifying manufacturing driven changes in product design
- Rising efficiency of work organization and production networks

SAMPLE RESULTS OF PROJECTS

- > 10% decrease of required workers in assembly line for combustion engines
- > 10 Mio. € decrease of financial requirements in axle manufacturing



Automotive



Aerospace



Railway



Energy



Life Sciences



Telecoms



Space



Services and Informations Systems



Defence



Oil and Gas



Consulting



STRUCTURED APPROACH IDENTIFIES POTENTIALS FOR COST REDUCTION AND PROCESS IMPROVEMENTS IN KEY AREAS

Our Consulting approach is based on the following three main steps:



Analysis

- Determine baseline and derive existing delta
- Generate ideas in multi-disciplinary brainstorming and along guiding principles (e.g. work organization, automation, module formation)
- Sketch impacts on workforce and financial resources



Substantiation

- Validation and tracking within 3-grade classification system
- Alignment of grade-relevant criteria together with decision making committee
- Detailing of potentials and concepts through department spanning workshops and data analysis



Realization

- Feed grade 3 potentials into planning process through periodic decision making committee

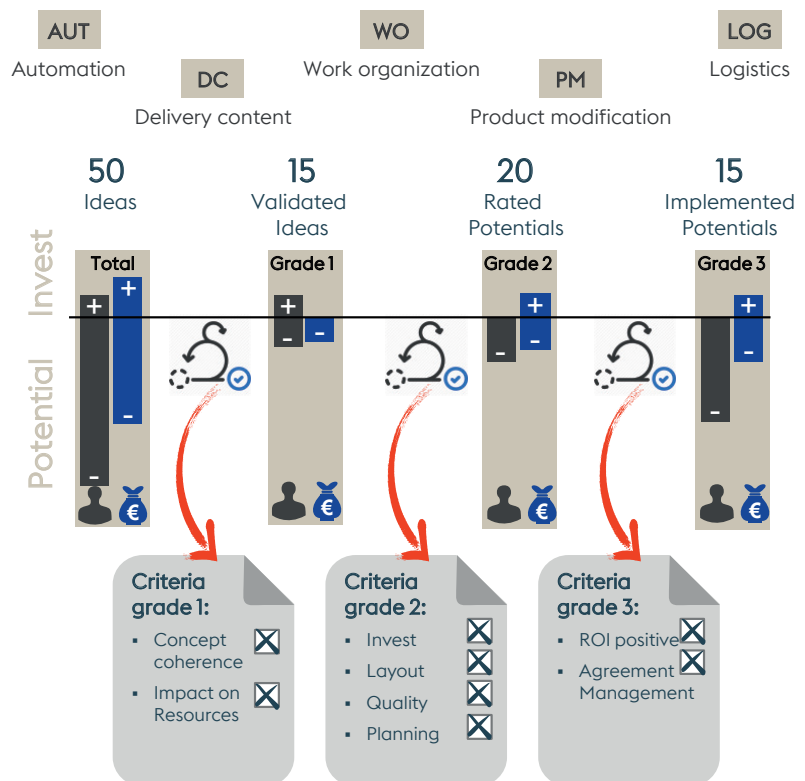
BRING YOUR RESOURCES ON TRACK

Each project starts with a structured analysis of the individual needs:

- Evaluation with standardized procedures, e.g. interviews, workshops, brainstorming along the entire value chain
- Review of existing and planned processes, product platforms and derivatives

AKKA VALIDATION AND TRACKING PROCESS

After setting the baseline, potentials are transferred into a specialized database that enables a transparent validation and tracking process.



METHODS APPLIED

- Brainstorming workshops
- Value stream analysis
- Swimlane mapping
- Industry benchmarking