

### **OPS methodology - Observe, measure, simulate - a scheme of conduct.**

With our support, our customers have achieved the following in the past:

- **increase in productivity by reducing production costs by approx. 50%,**
- **Simplification of the sequence of production operations, which resulted in a smaller number of defects,**
- **elimination of artificial and unnecessary activities.**

We present the results of our work through a moving 3D simulation based on data from the company and adapted to the company's appearance. In addition, we present an extensive analysis of the working time of machines and employees.

How we work within the OPS methodology - sequence of activities:

1. initial meeting (scoping of work),
2. familiarisation with the company's production,
3. determination of the current sequence of operations in production (including productivity, assortment),
4. active observation and measurement (physically on site in the company): working times, manner and sequence of operations performed
5. construction of 3D model of currently existing production
6. presentation of 3D model of currently existing production in order to determine the degree of mapping and making the model more realistic
7. on the basis of analyses of the model of the existing production, determination of workstations / production lines for improvement
8. simulation work: preparation of various variants of changes in production,
9. selection of the most advantageous variant of changes in production (e.g. greatest reduction of costs, greatest speed of production, least errors, or combination of the above)
10. preparation of a 3D model of optimised production on the basis of data collected from production

11. presentation of results: moving 3D model of the new production layout, graphs of time: work, rest, walking (moving) employees. Comparison of results before and after the change.

OPS methodology can also be used in the case of a planned investment when it is necessary to determine how best to position machines and how employees should work. In this case, a full 3D visualisation of the investment is possible even before it is made.

Yours sincerely,

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Business, Progress, Innovation