

Shopfloormanagement with MES using the example of Daimler Trucks

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The target by using example of Daimler Trucks

- Transparency of the holistic process and data
- Absolute and qualitative information/data as support for management decisions
- Available data and information in real time without any waste
- Integration of Inspection planning, quality loops, production planning, rework planning
- One Front End for using the system

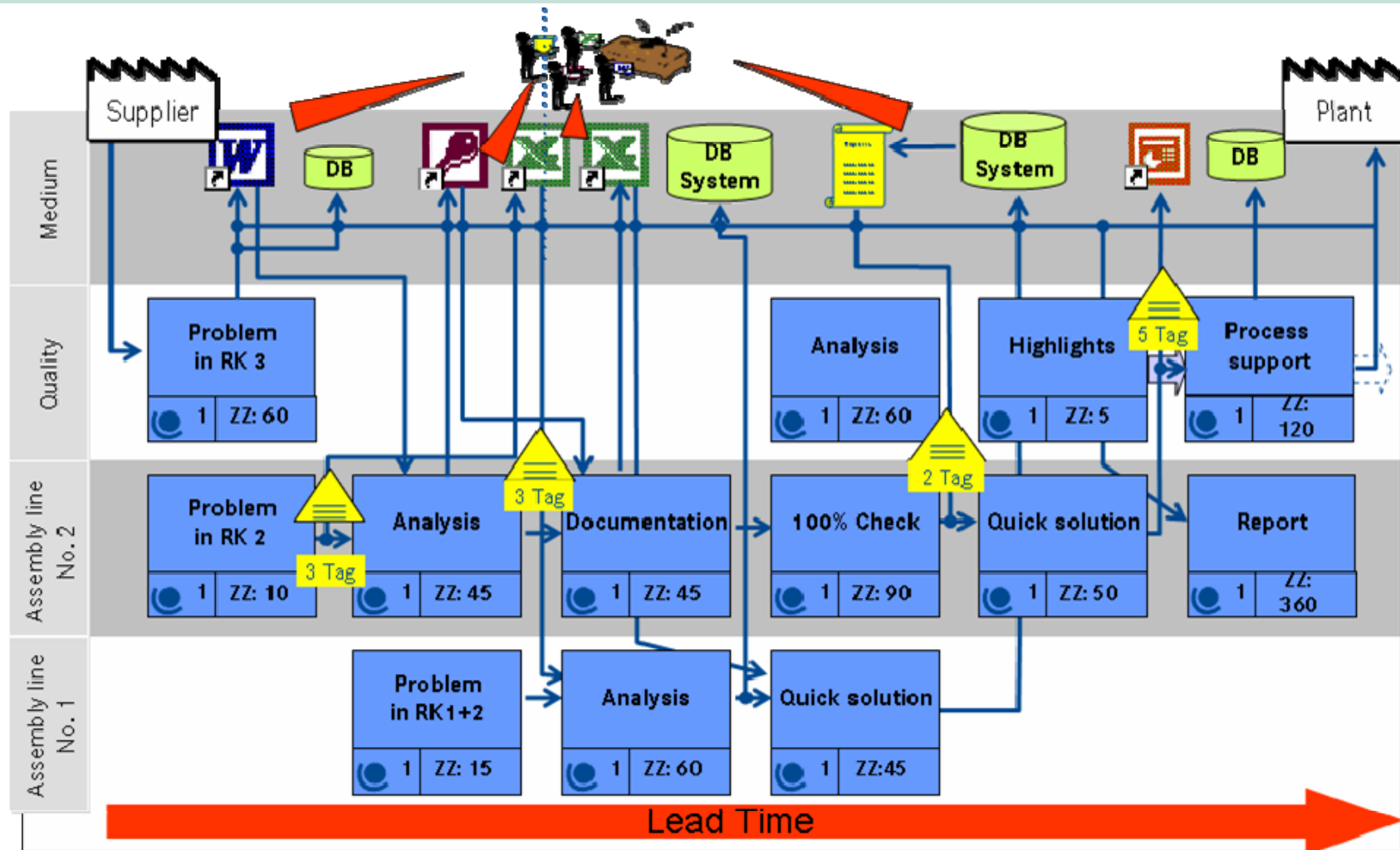


Lean Management targets

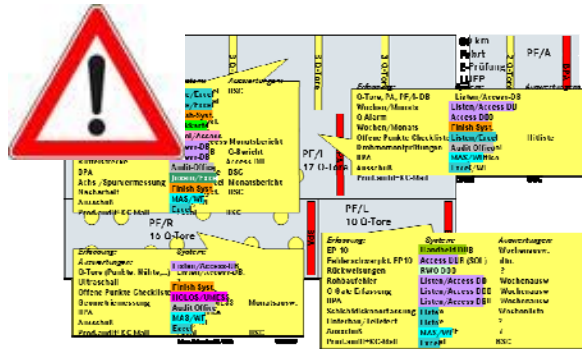
- No waste inside the information and working process
- The JIT criteria (right quality, quantity, cost, time, location) for information and data
- „One click“/“one touch“ to get information or data input
- The same information without additional work for all management levels
- New KPI of the lead time of information flow



Value stream visualizes the world of problems



Problems: Waste inside the decision process

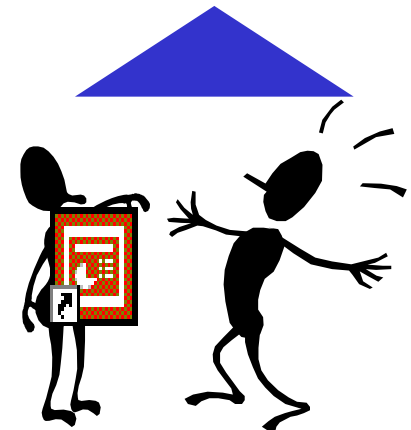
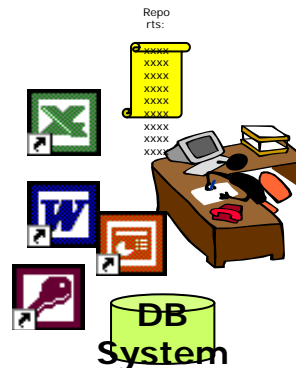


Source of datas

- Waste:**
- Long lead time between problem and decision
 - Decisions based on history data
 - Double work
 - No real cause analysis

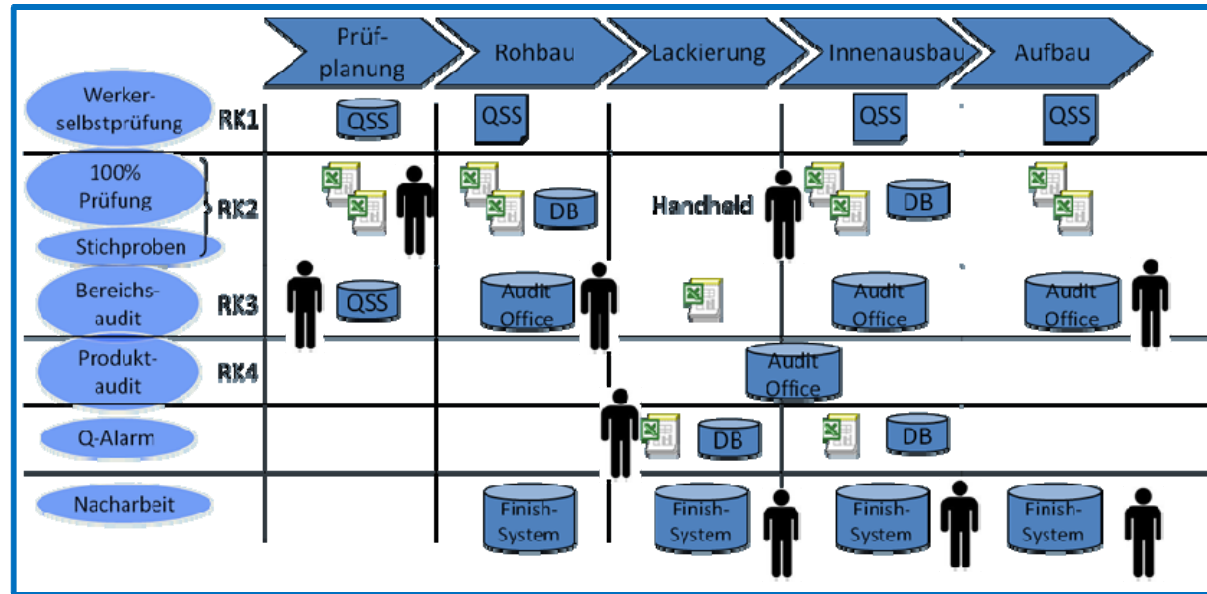


Decision



Plant Manager

Problems: „Shadows“ support the systems



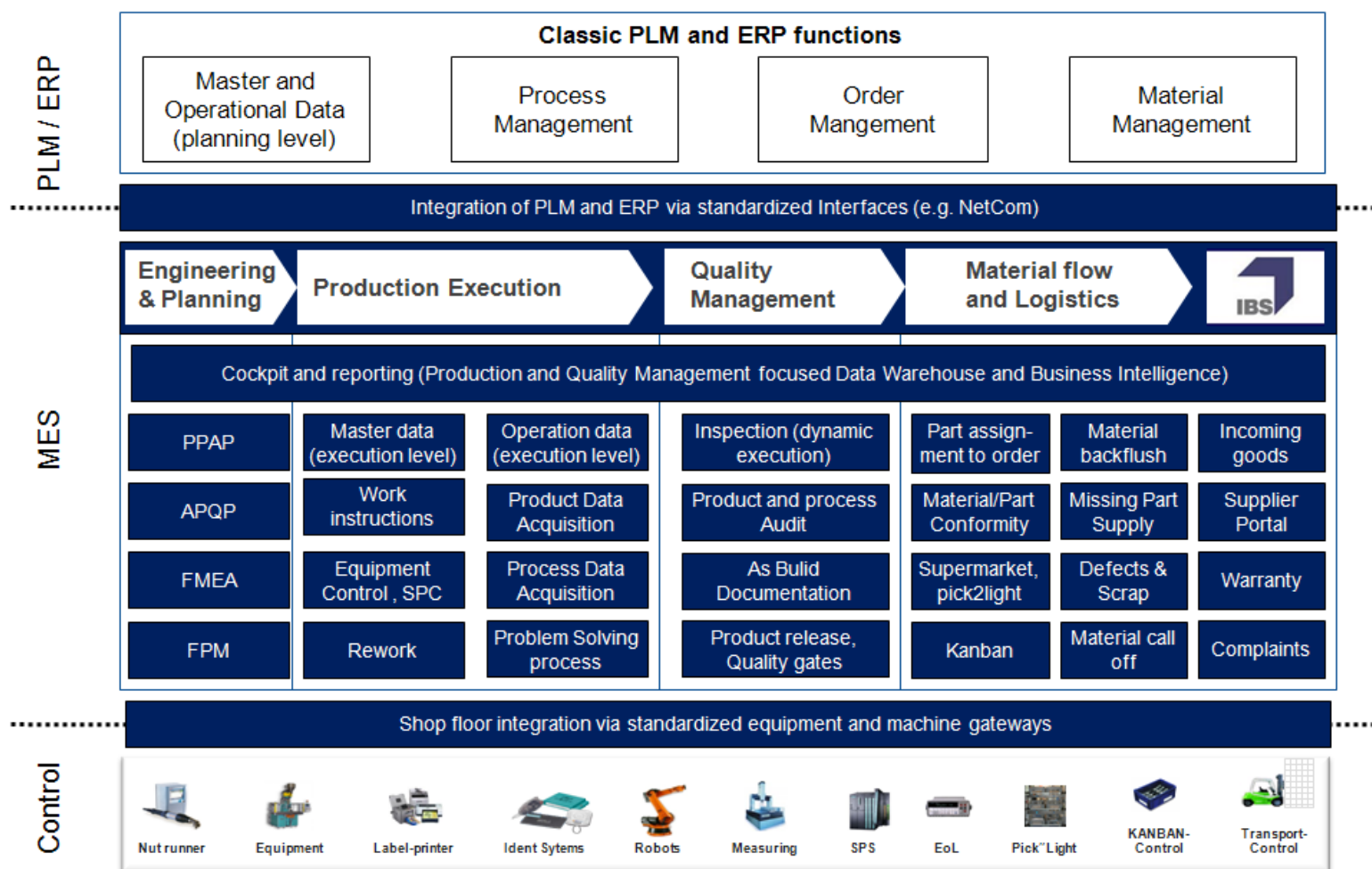
- One process, different responsible persons, the result: different stand alone systems
- A lot of shadow workers to support the systems, assumption:
 - Excel: ½ employee
 - Access: 1-2 employees

A central database is the requirement for LEAN MES



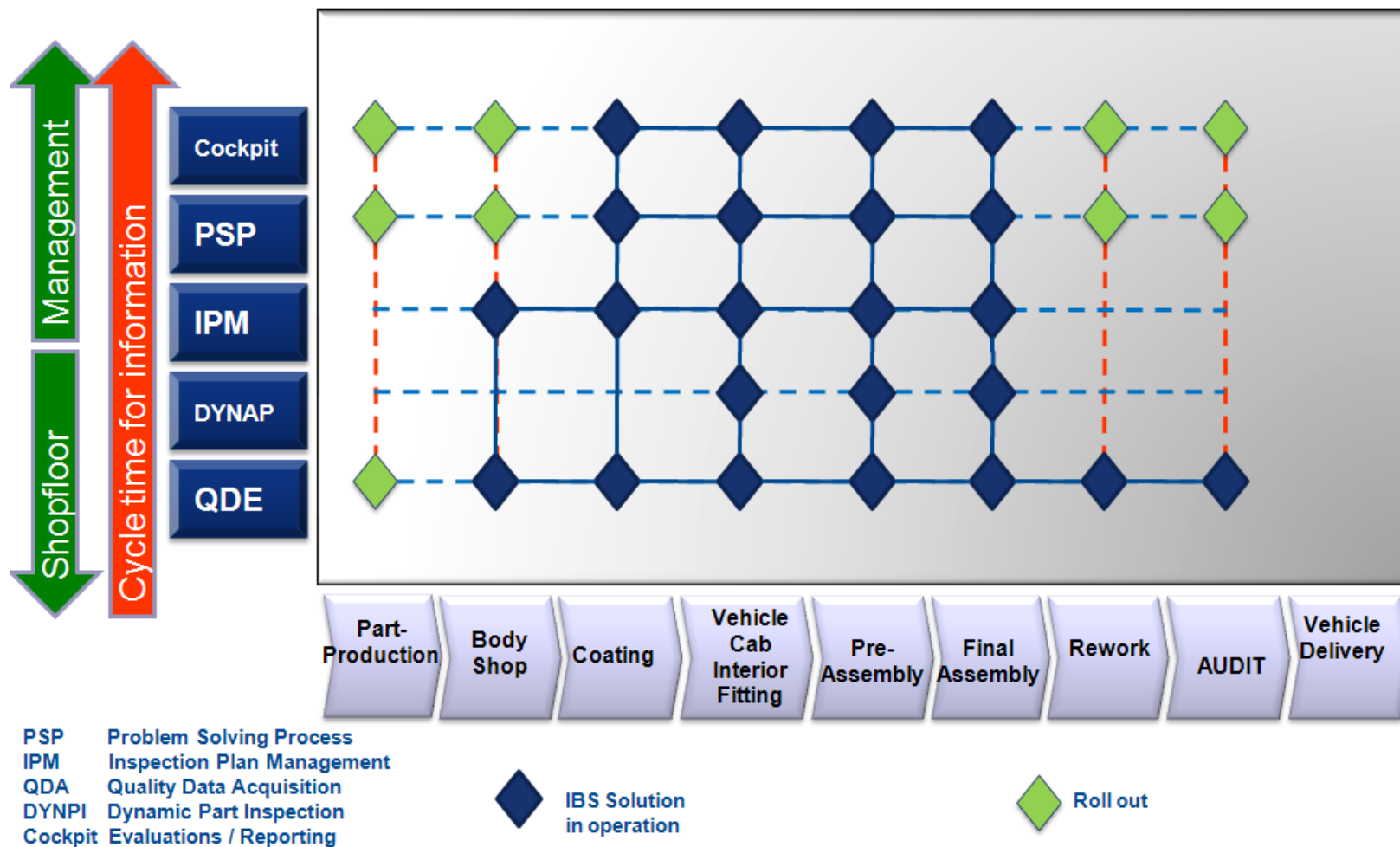


IBS solution supports MES accross the product life cycle



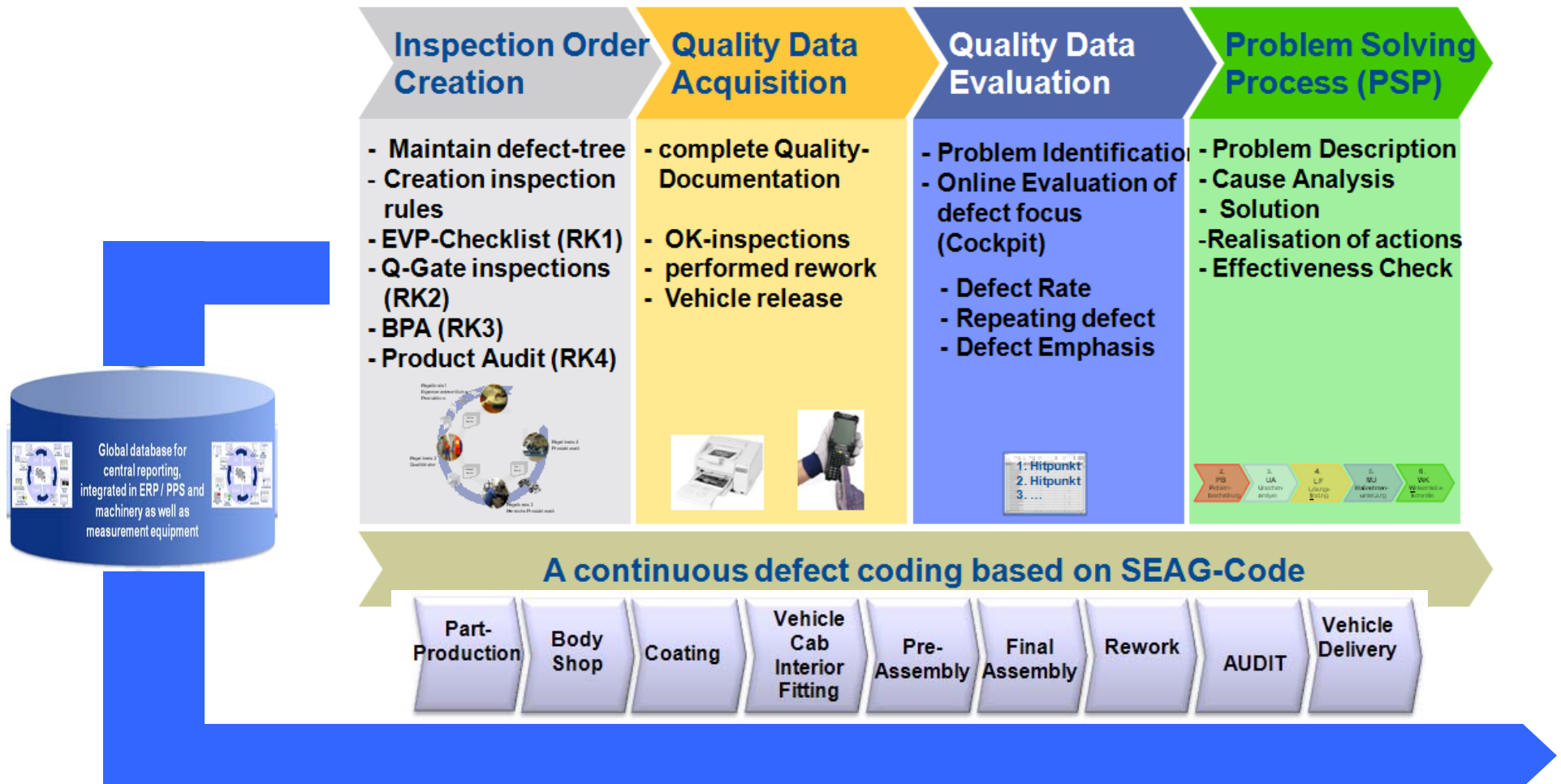


IBS Process Support at Daimler Wörth



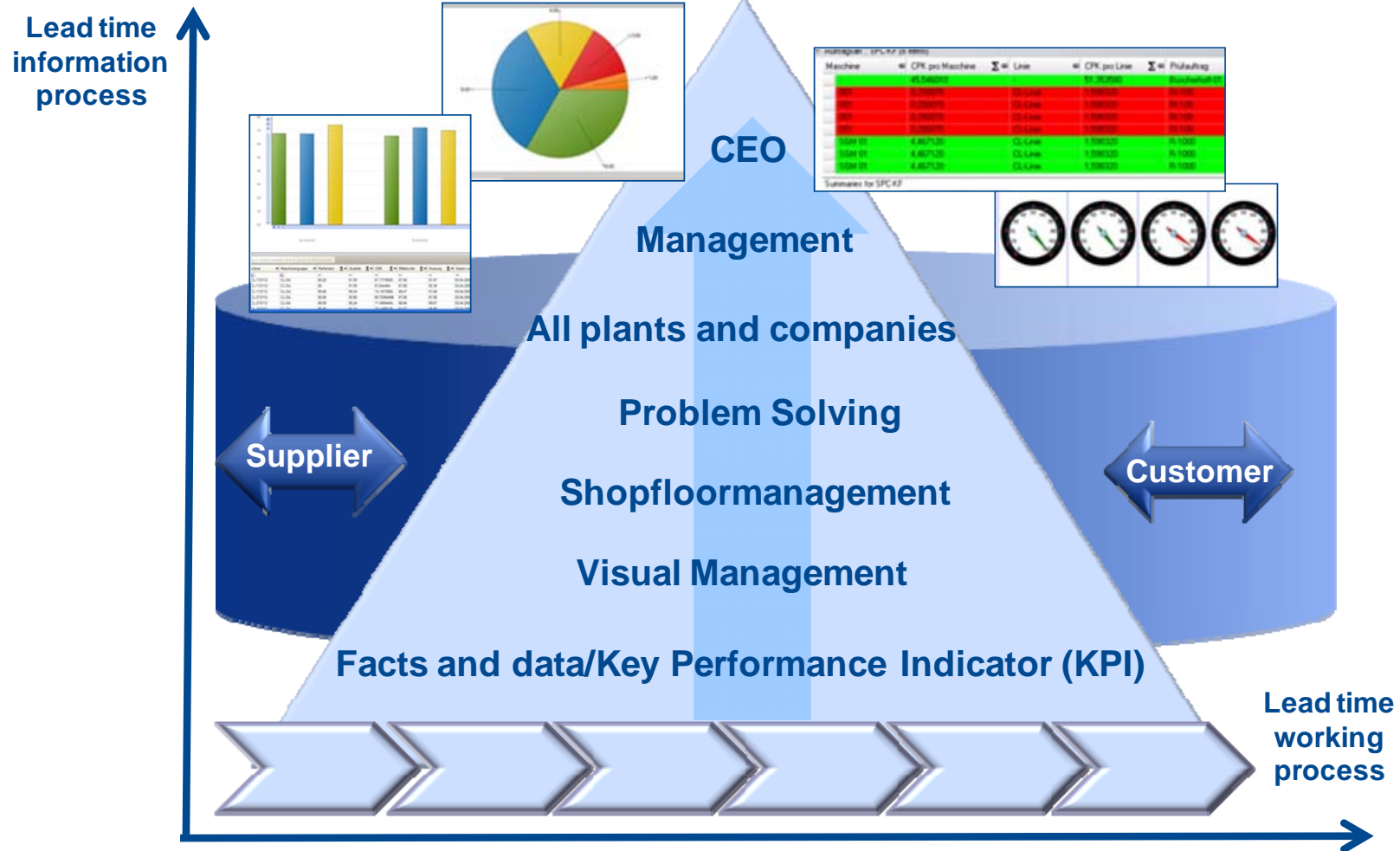


The standardized problem code with one database

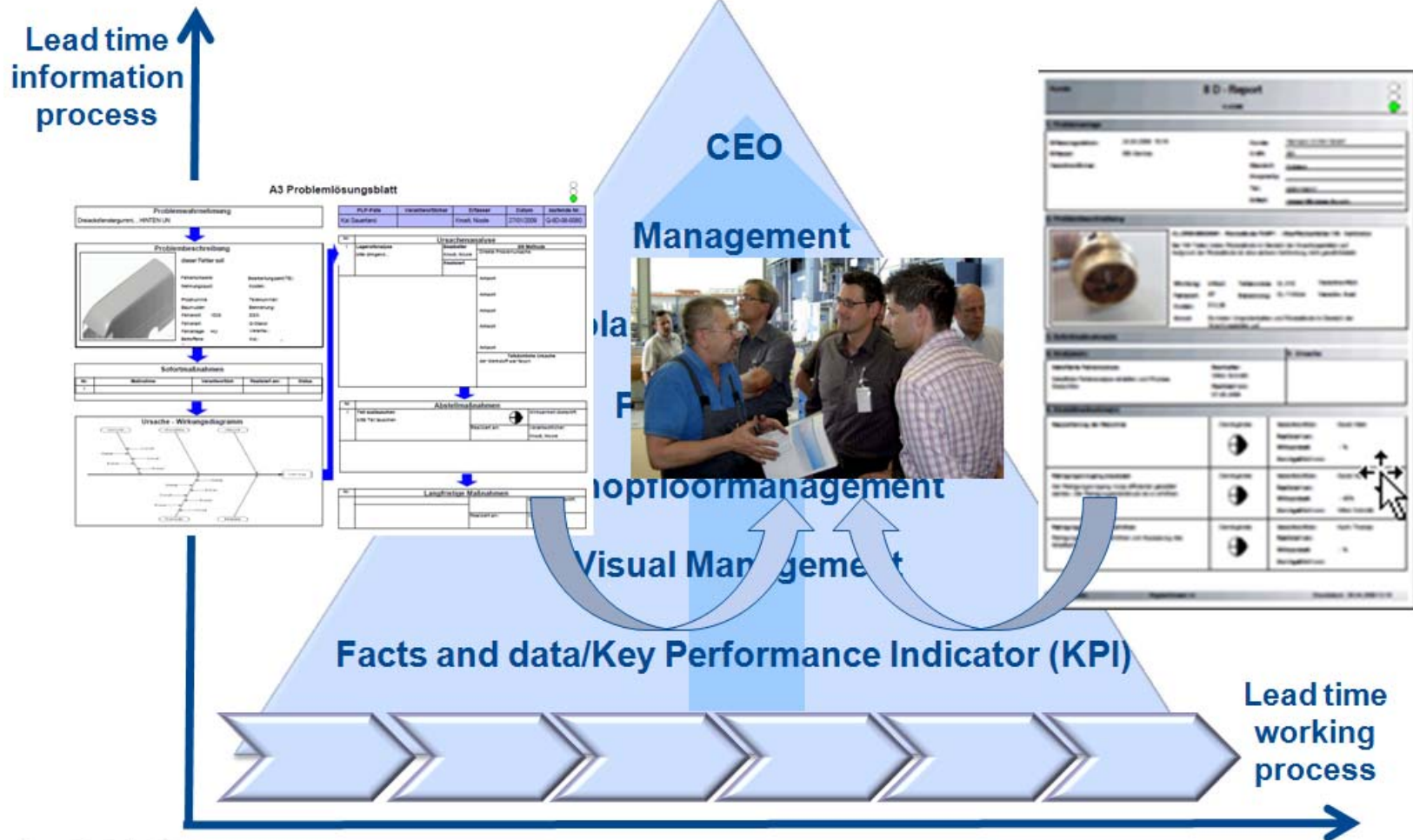




Supporting of the holistic process for KPI's for SFM



Supporting the SFM with A3 problem sheet

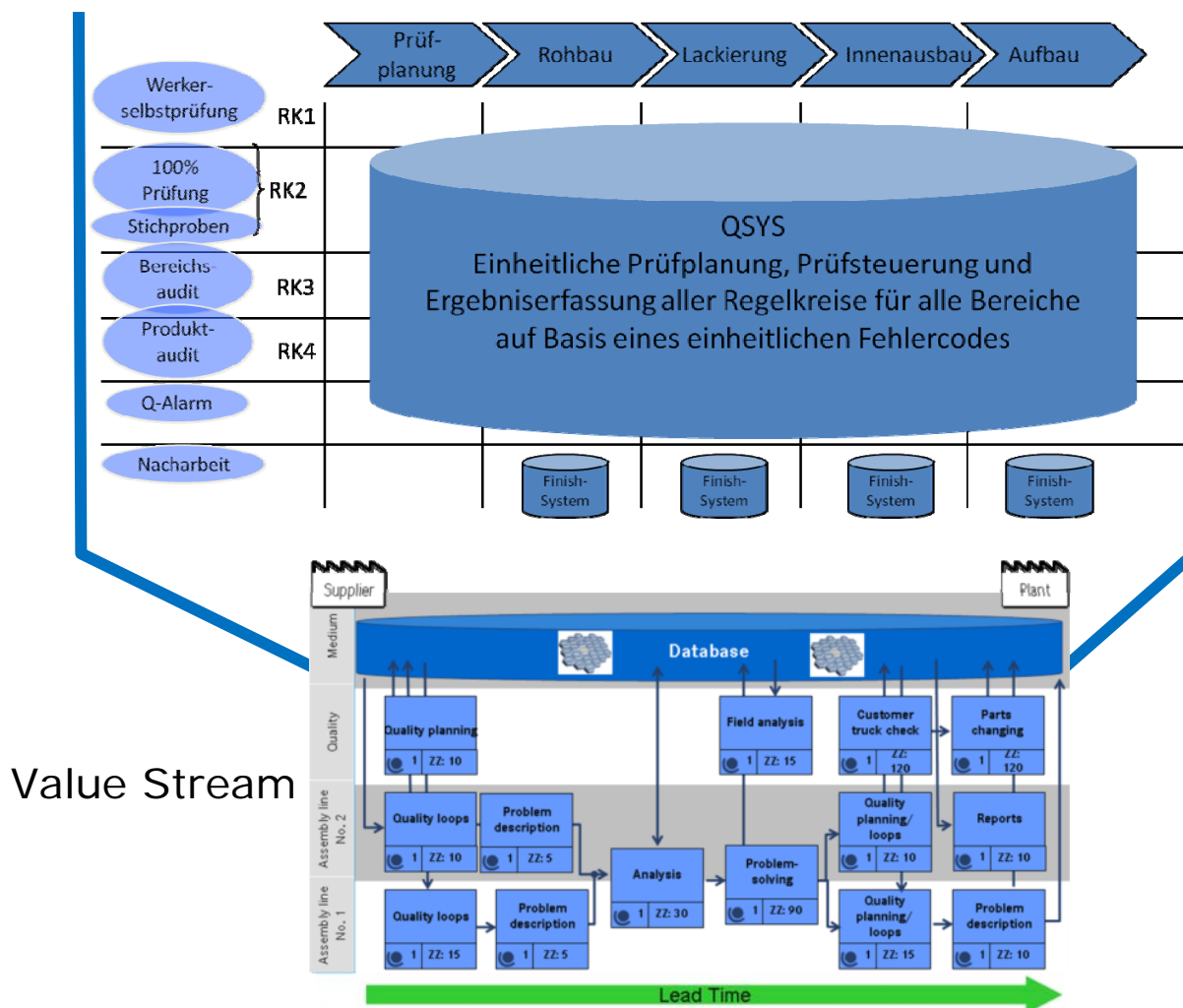




Lean Management is integrated in the MES

- Value Stream visualizes two processes:
 - Working process and
 - Information process
- Targets:
 - Eliminate waste like copy data
 - Problem Solving Process based on real data in real time
 - Online KPI/indicators for every management level without shadow workers
 - Using the holistic data for shopfloor-management

Result of the project



- Using standards guarantees the best way of working
- One process and one system
- Real time data and information
- Short lead time for data



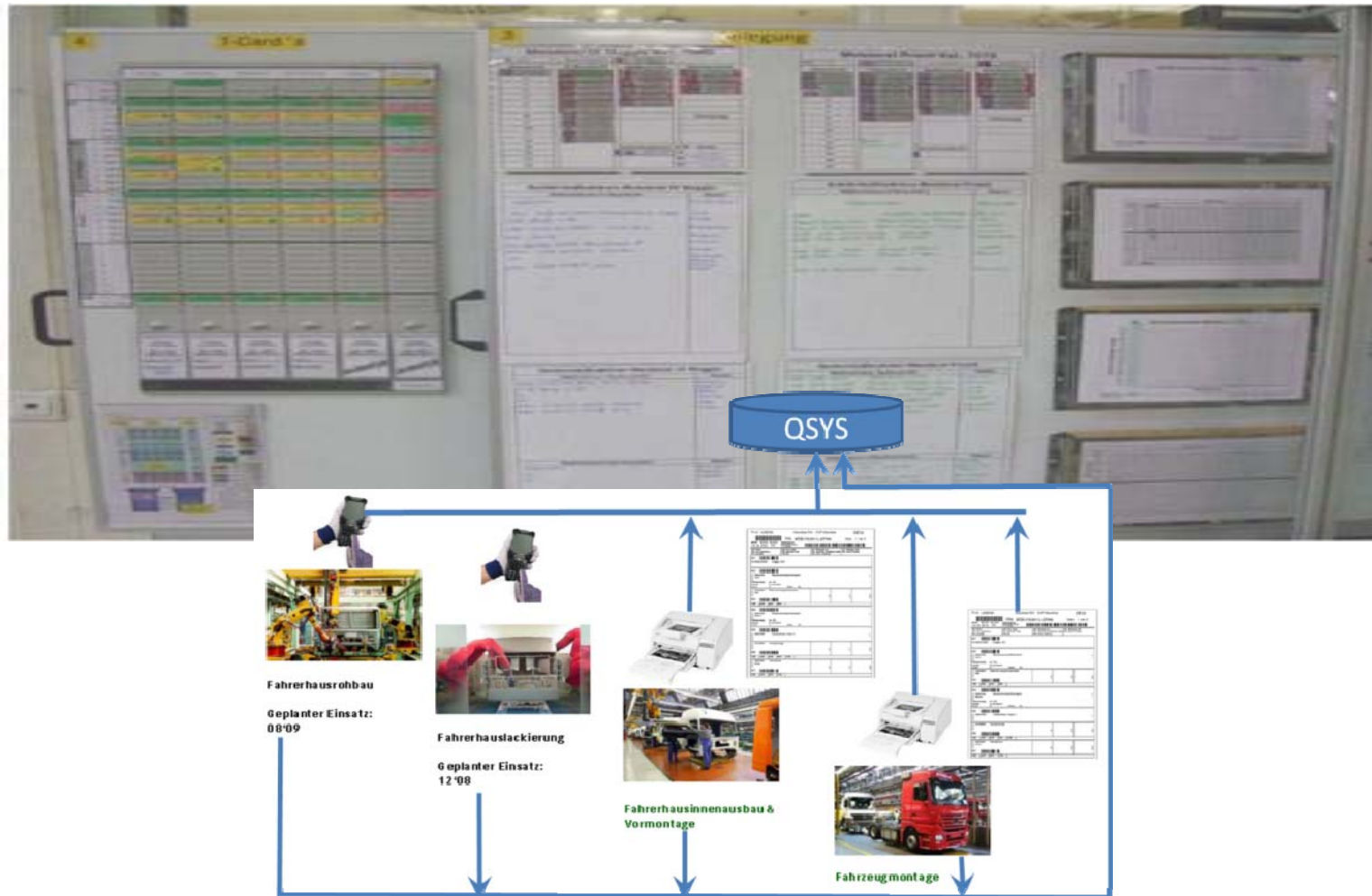
Shopfloormanagement visualizes process steps



Shopfloormanagement is the reasonable
change of media:
working with data instead of system

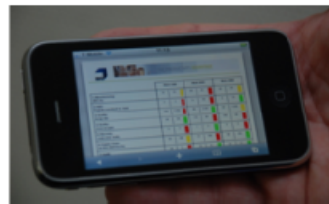


The data for SFM is used by the system



QSYS supports management monitoring

Top
Management



oder



Management



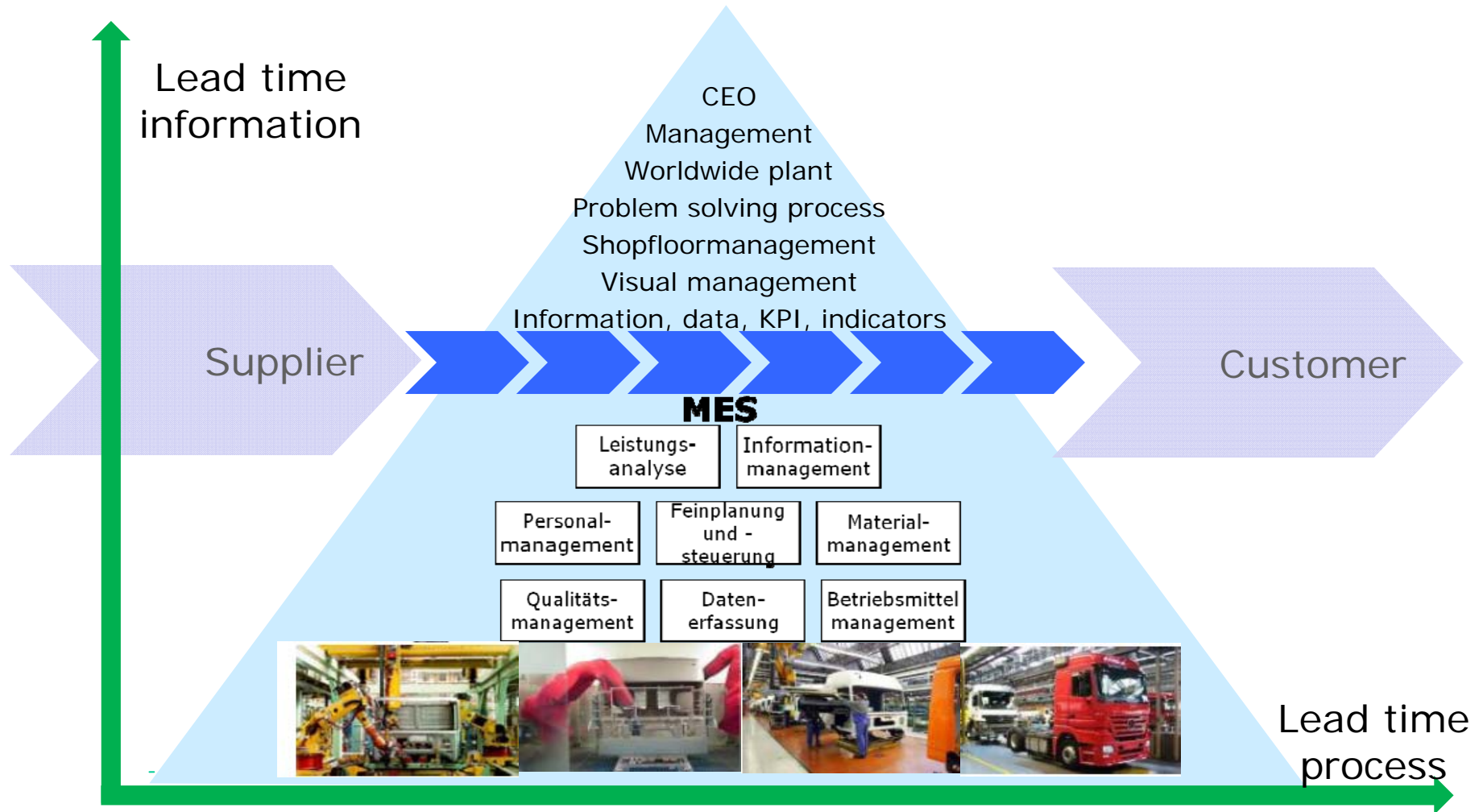
QSYS



Production



MES as basis for information flow without waste





Helpful Questions

- How many different tools are you using for the same process?
- How many employees are supporting the tools/systems?
- How much are the support and maintenance costs per year?



Result and profitability

- Shadow employees:
 - for example: 6 employees at 60.000,-€ each
- License costs only for one system instead of many
 - License costs X number of systems
- Service agreements only for one system instead of many
 - 10% of the purchase costs per year X number of systems



Summary

- The value stream visualizes the holistic process with waste and problems
- The lead time is a KPI to measure the quality of the process
- Lean-IT: IBS supports the holistic solutions for the flow of necessary information and data for SFM and management without producing waste
- Effects for customers:
 - Reducing of license and maintenance costs
 - The ergonomics of the front end of the IBS solution is individual
 - All information flows in real time without support of shadow persons
 - The management decisions are based on real data in real time



Thank you!



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