



# 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

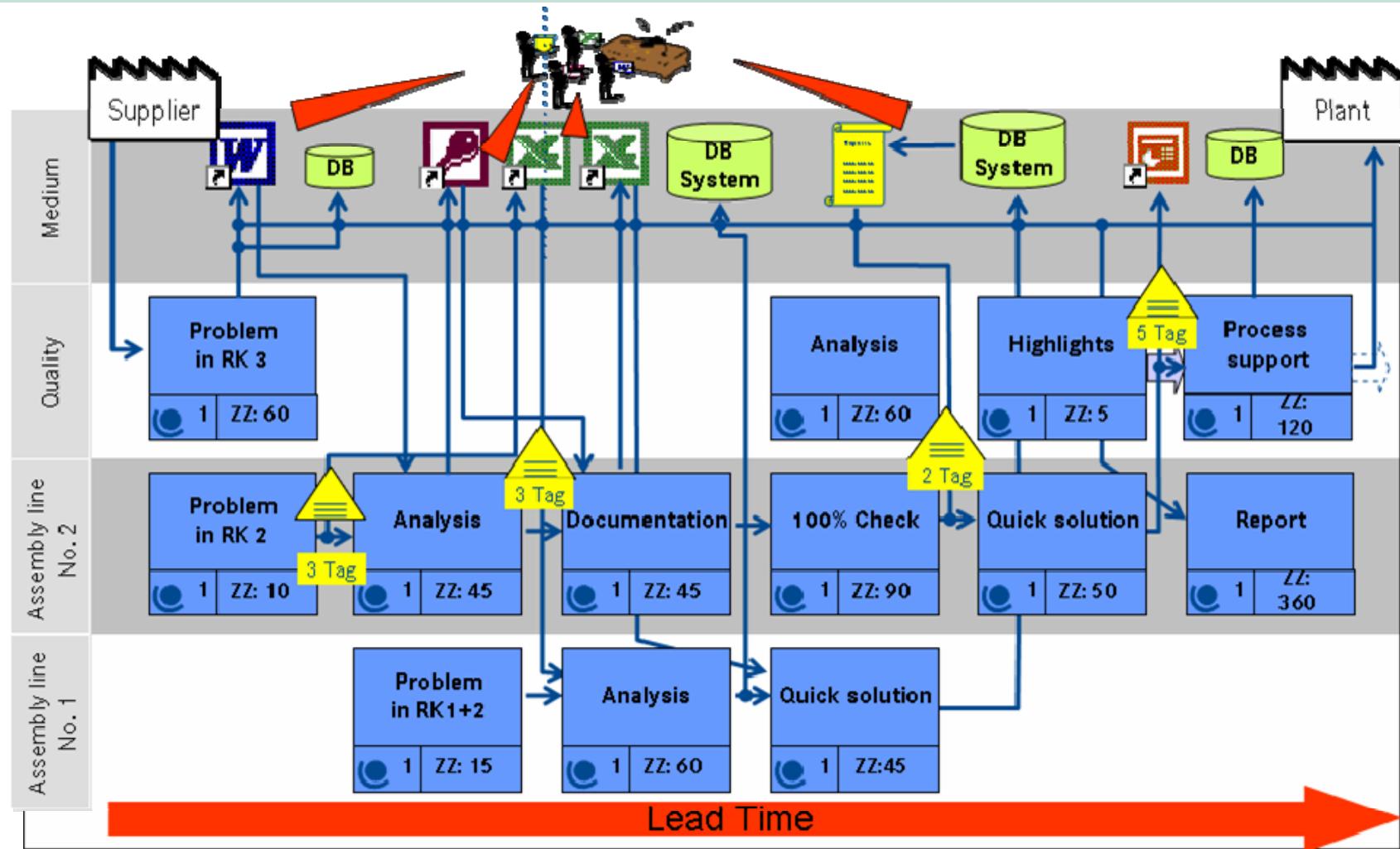


## Lean Management targets

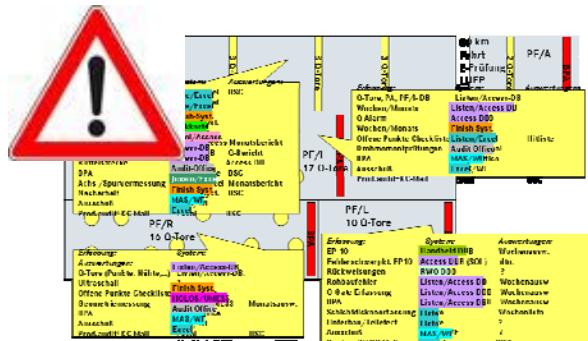
- No waste inside the information and working process
- The JIT criteria (right quality, quantity, cost, time, location) for information and data
- „One click“/“one touch“ to get information or data input
- The same information without additional work for all management levels
- New KPI of the lead time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



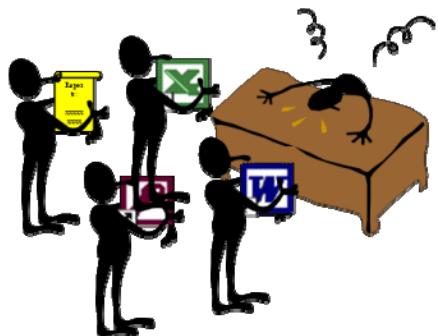
# Value stream visualizes the world of problems



# Problems: Waste inside the decision process



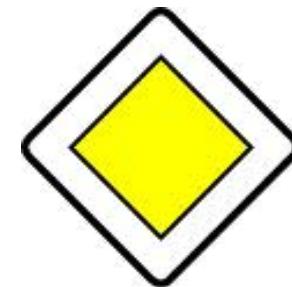
Source of datas



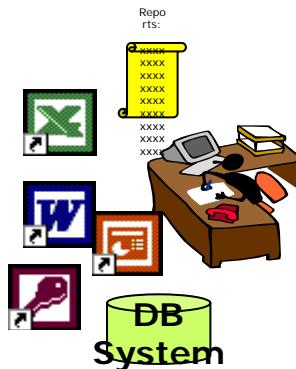
- Long lead time between problem and decision
- Decisions based on history data
- Double work
- No real cause analysis



## Waste:

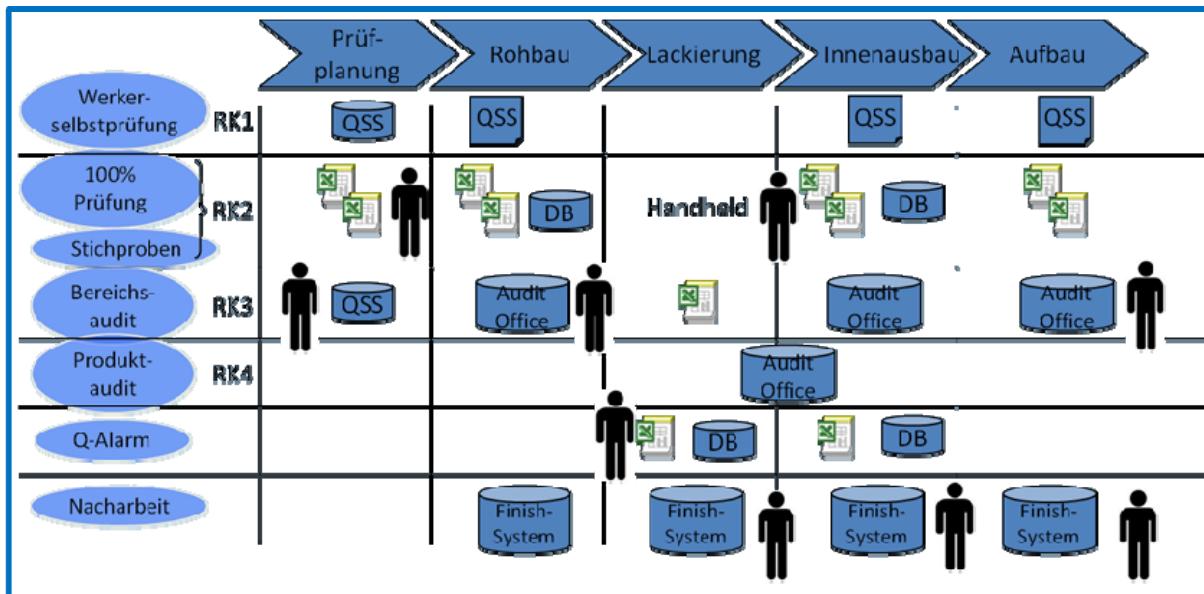


Decision



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:  $\frac{1}{2}$  employee
  - Access: 1-2 employees

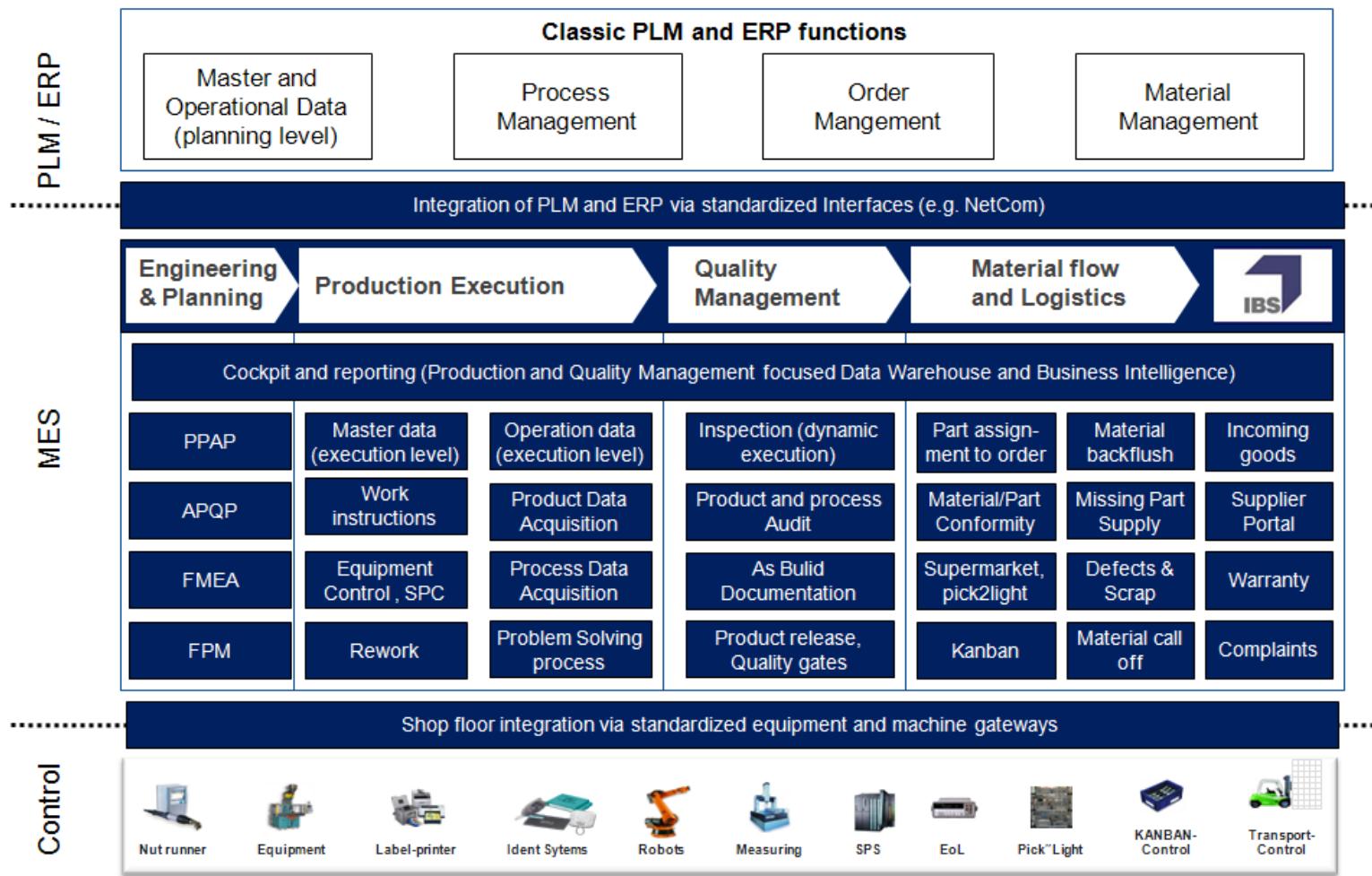


# A central database is the requirement for LEAN MES

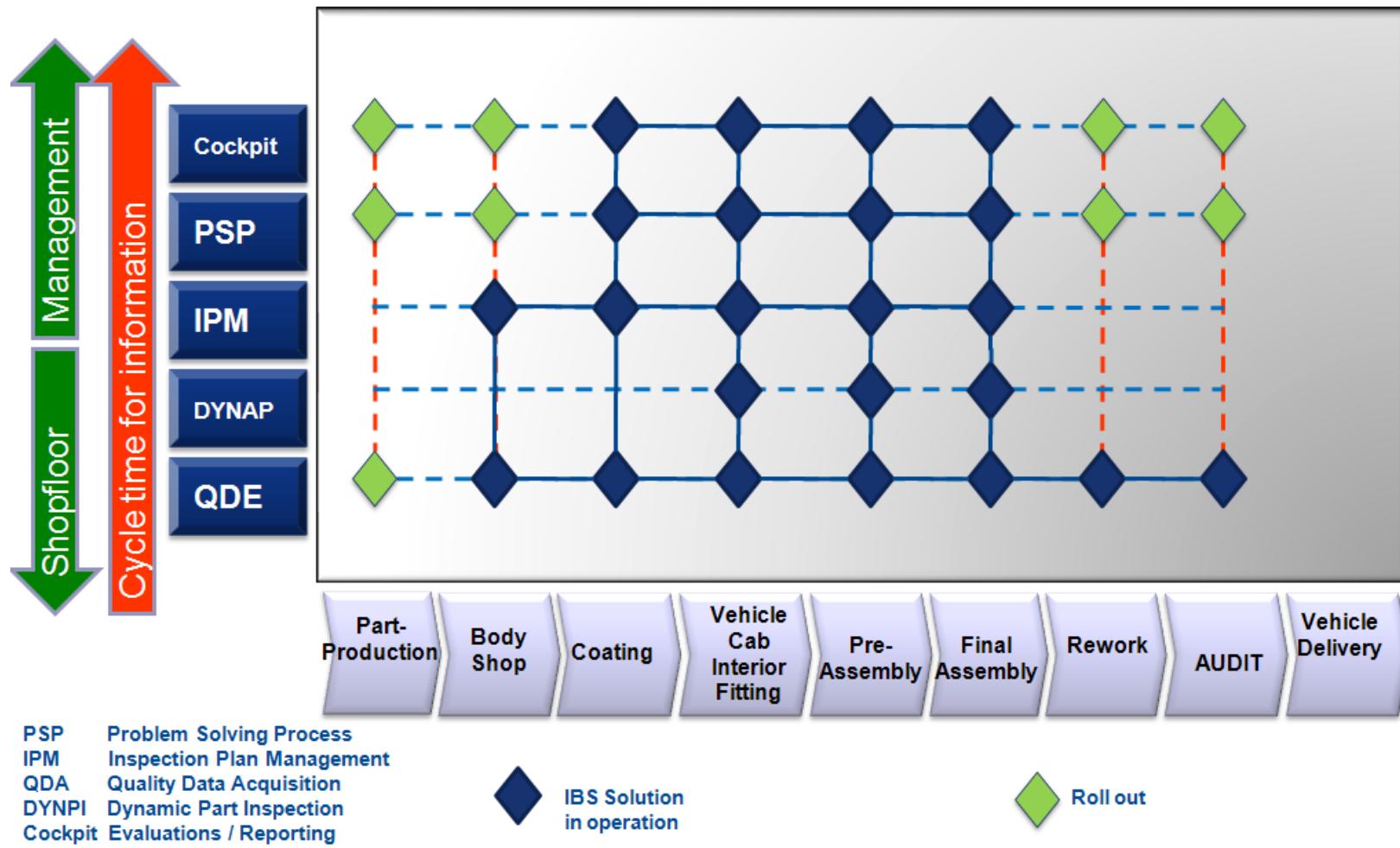




# IBS solution supports MES accross the product life cycle

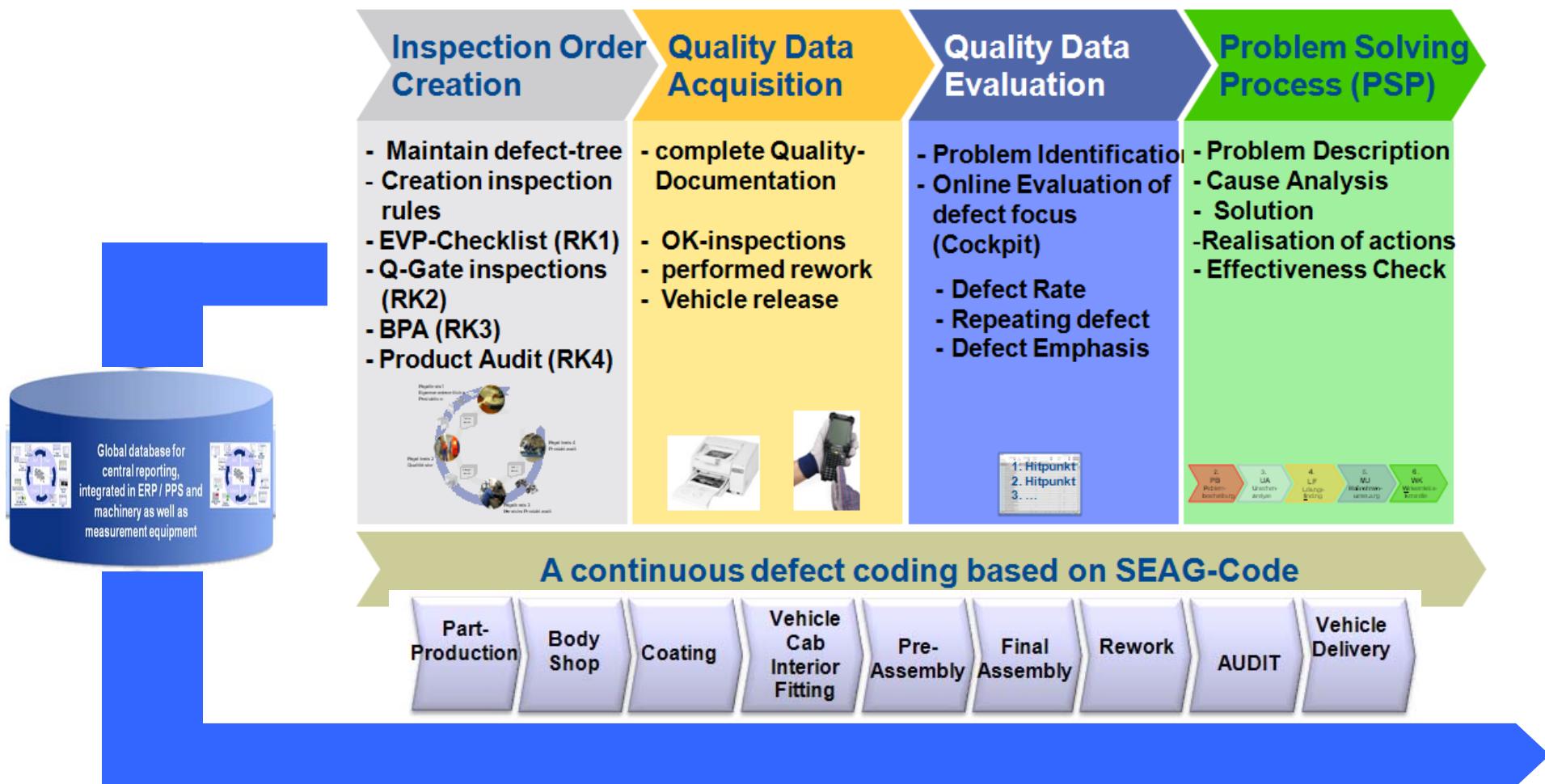


# IBS Process Support at Daimler Wörth

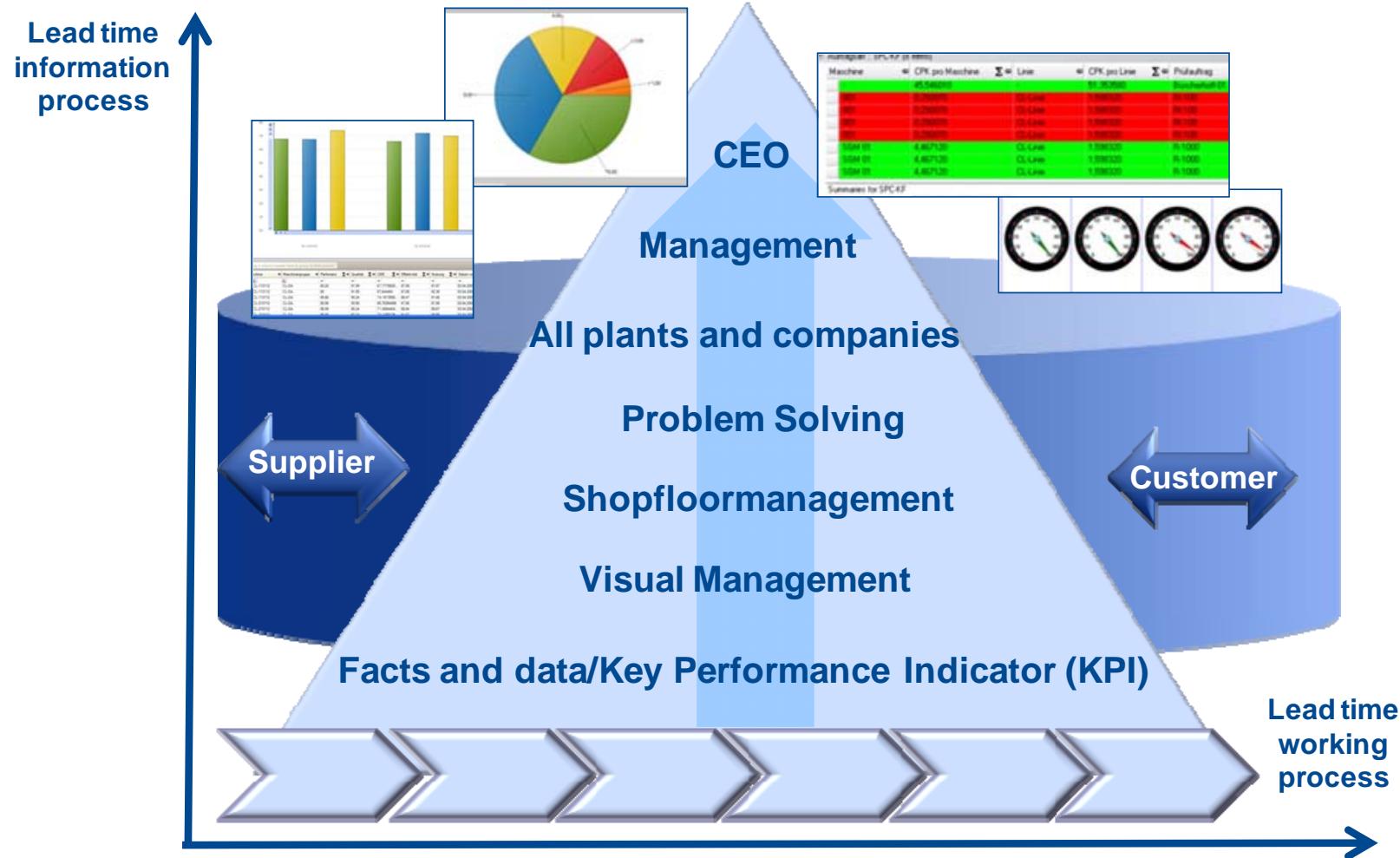




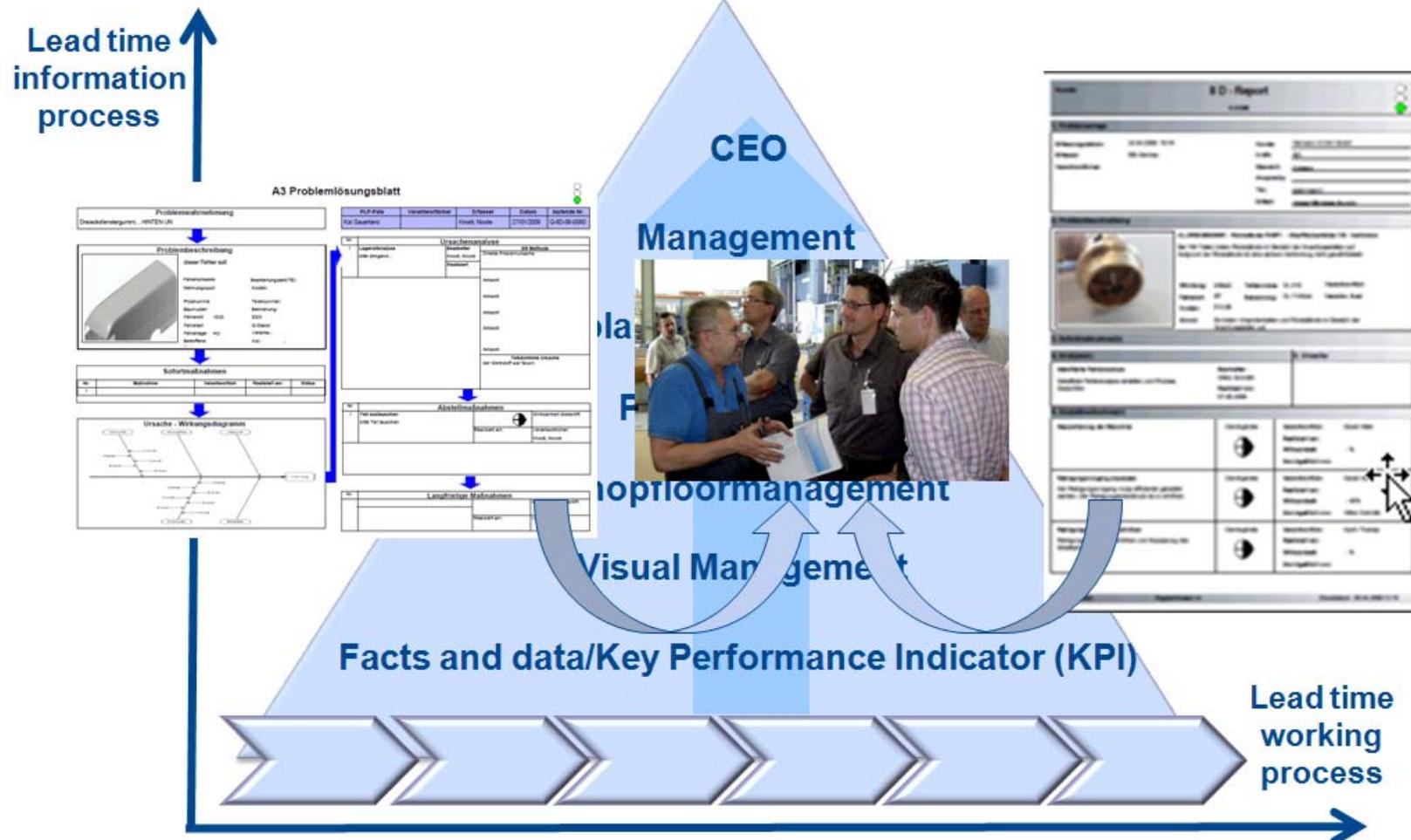
# The standardized problem code with one database



# Supporting of the holistic process for KPI´s for SFM



# Supporting the SFM with A3 problem sheet

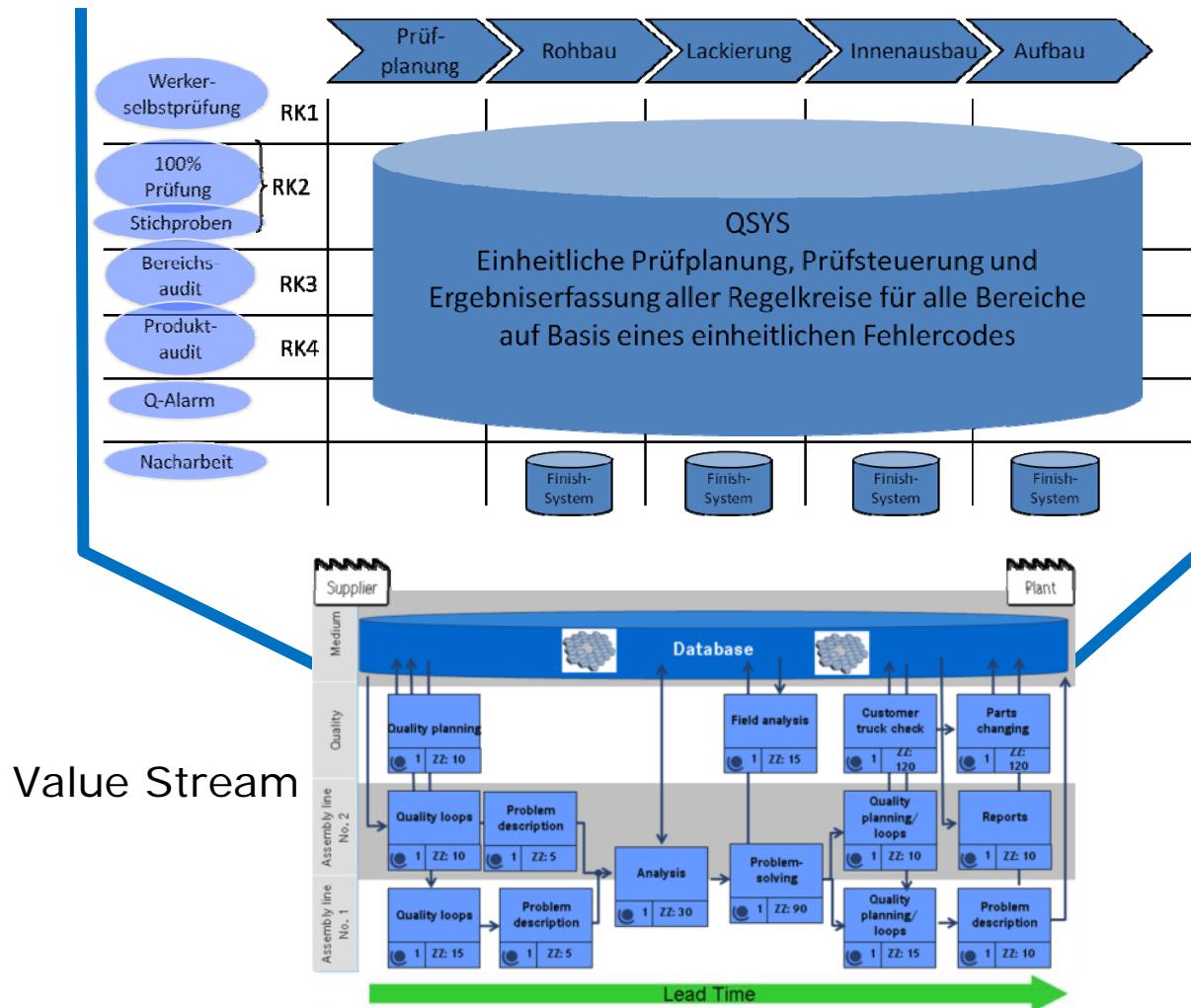




## Lean Management is integrated in the MES

- 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

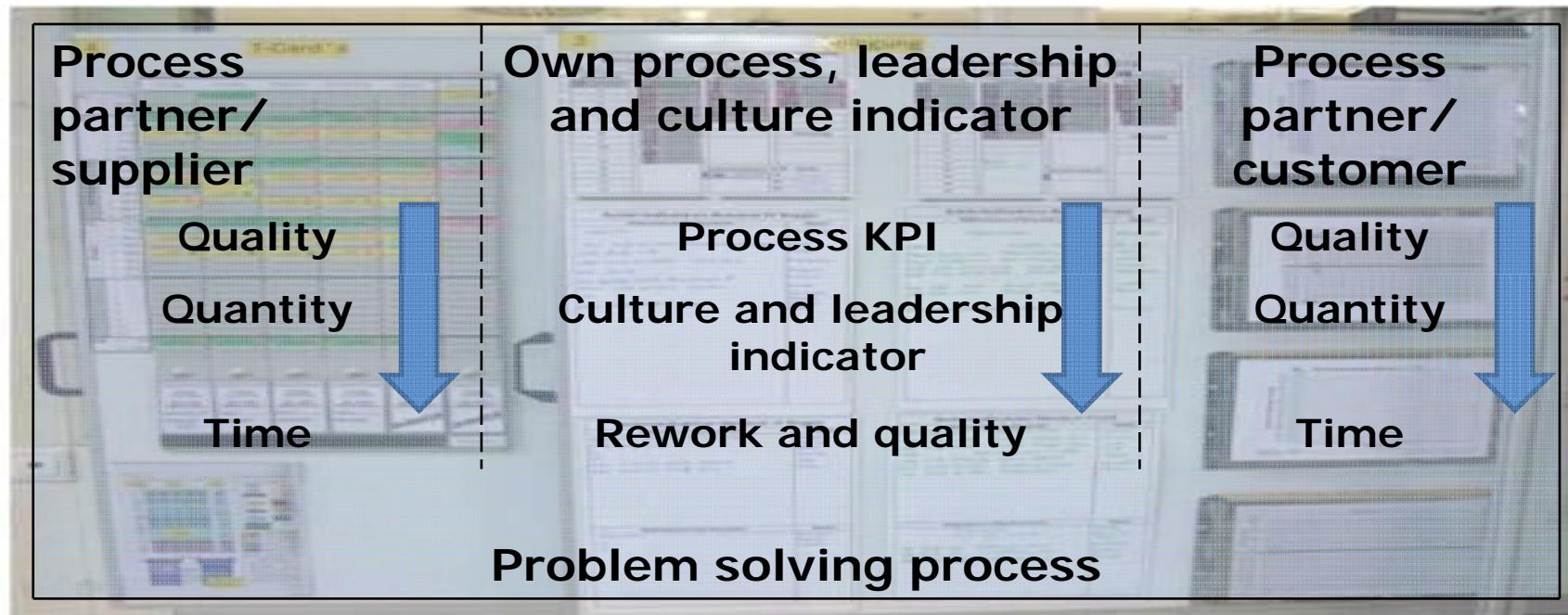
# Result of the project



- 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



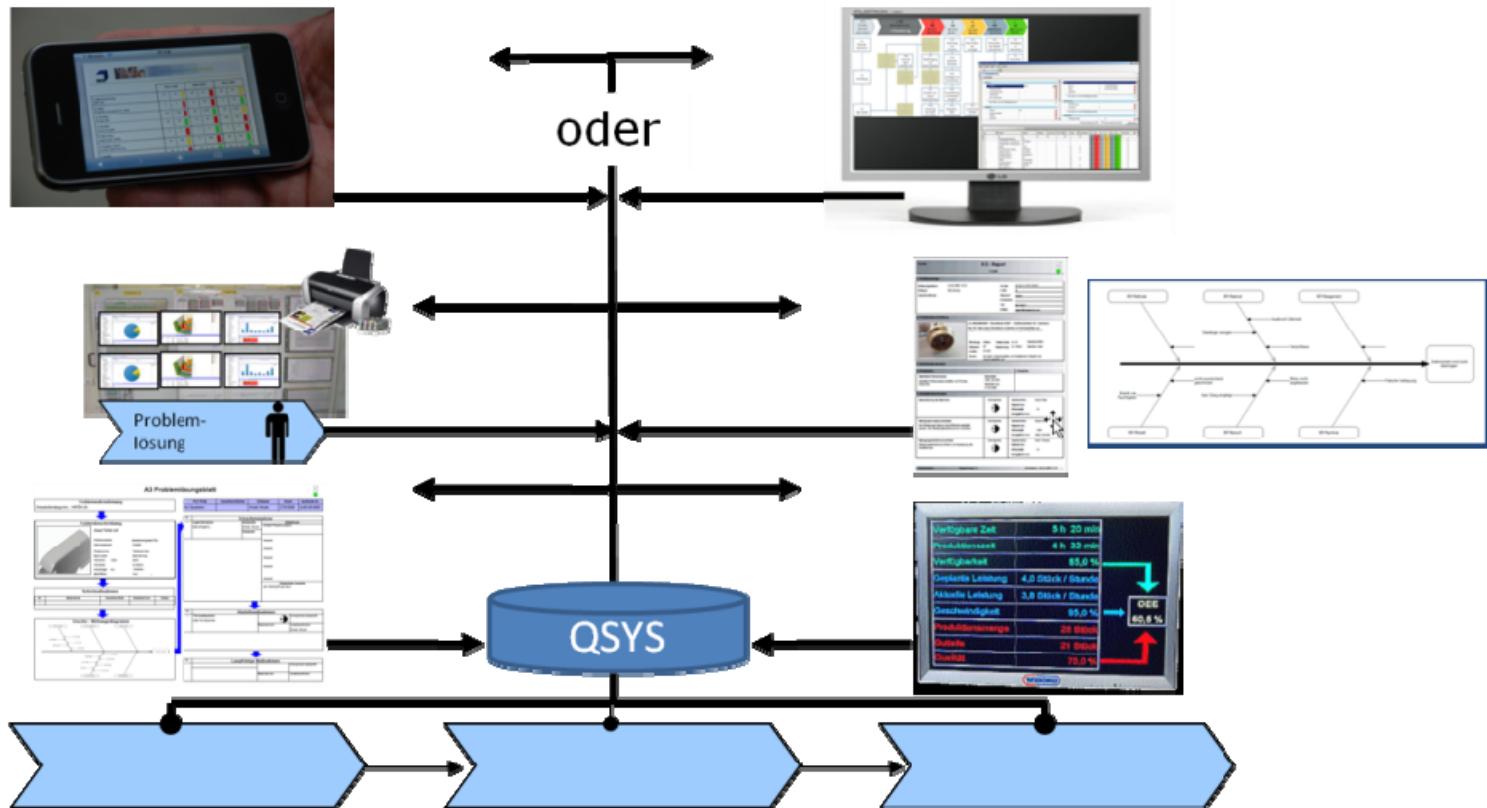
Shopfloormanagement is the reasonable  
change of media:  
working with data instead of system

# The data for SFM is used by the system

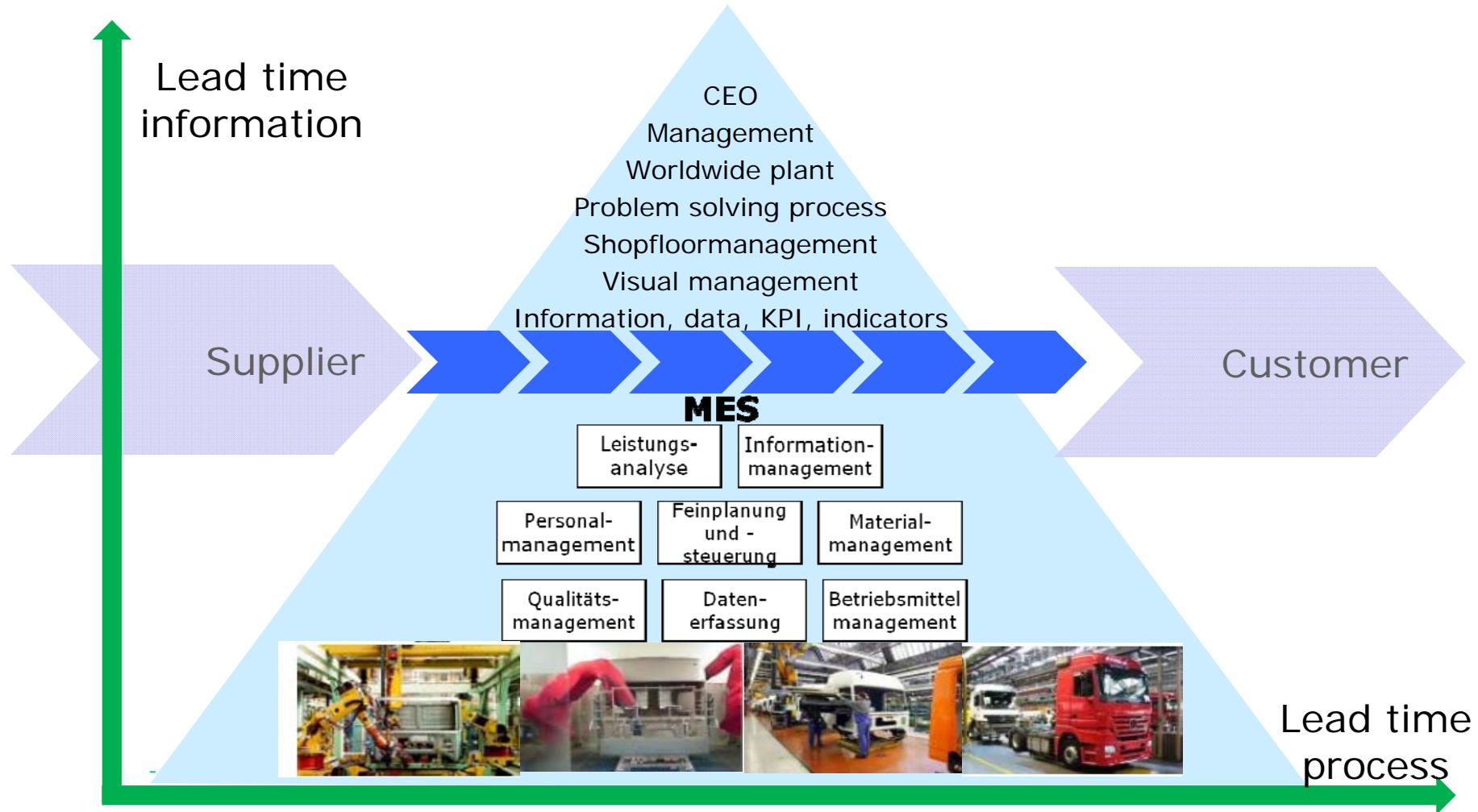


# QSYS supports management monitoring

Top  
Management



# MES as basis for information flow without waste





## Helpful Questions

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- 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

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- 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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