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Requirements from European Legislation (Seveso-II-Directive)

- Council Directive 96/82/EEC on the control of major-accident hazards involving dangerous substances
- Operator is obliged to take all measures necessary to prevent from major accidents and to limit their consequences
- Formulate a major-accident prevention policy
- **Generate a safety report and prove to have implemented a Safety Management System**
- To ensure safe modification of an installation review or even revise the MAPP
- Generate emergency plans
- Information on safety measures to the public
- **AND**
- **Member states shall ensure that the competent authorities organize a system of inspections**



German Major Accident Regulations

Questionnaire of Regulatory Authority according to § 16
„Störfallverordnung“ (Counterpart to Seveso-II-Directive)

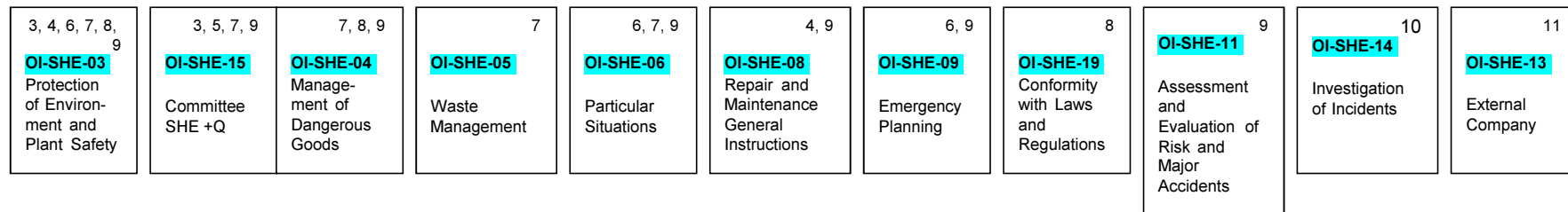
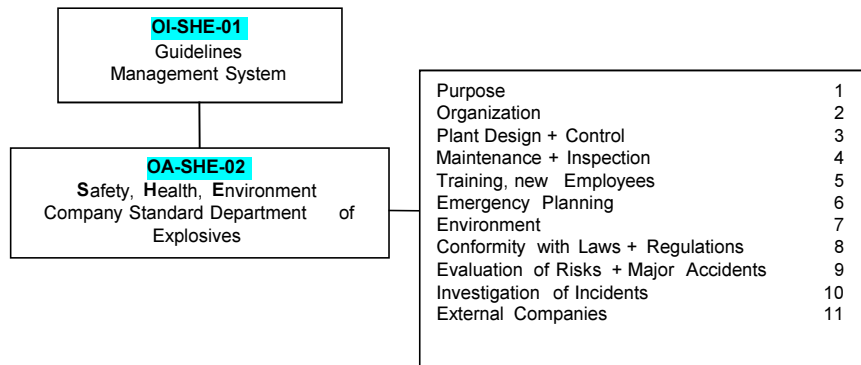
- 1. Business Policy
- 2. Organization and workforce
- 3. Evaluation and assessment of danger of major accidents
- 4. Monitoring of operation
- 5. Safe performance of changes and plant build-up
- 6. Emergency planning
- 7. Efficiency control of the Safety Management System
- 8. Systematic control and evaluation of the implemented system
- 9. Organization and workforce referred to place of manufacture
- 10. Technical part
- **summarized 120 questions, duration of inspection up to three days**



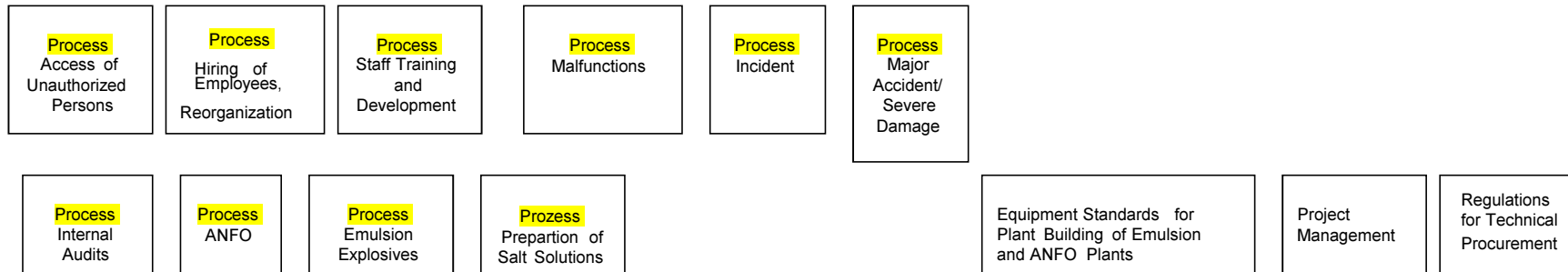
Overview SHE-Managementsystem



Structure combines company requirements as well as those from Seveso-II-Directive



OI = Organizational Instruction



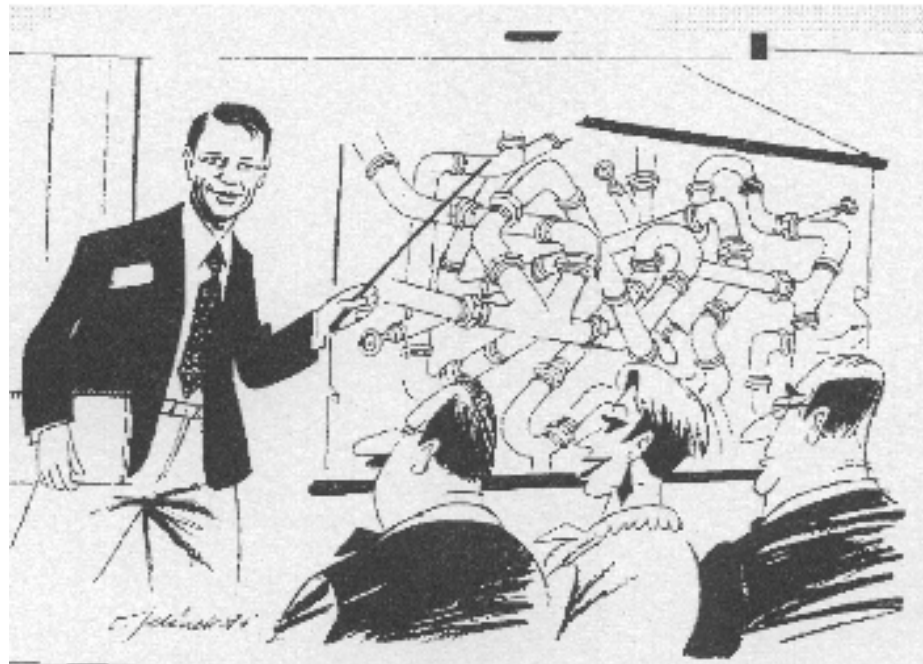


Types of Documents

- Organizational Instructions
- Working Instructions
- Instructions for Handling of Dangerous Goods
- Job Descriptions
 - including Transfer of Operational Rights and Obligations
- Checklists
- Forms
- Lab Analysis Instructions
- Process Descriptions

Imaging of Plant and Operational Processes

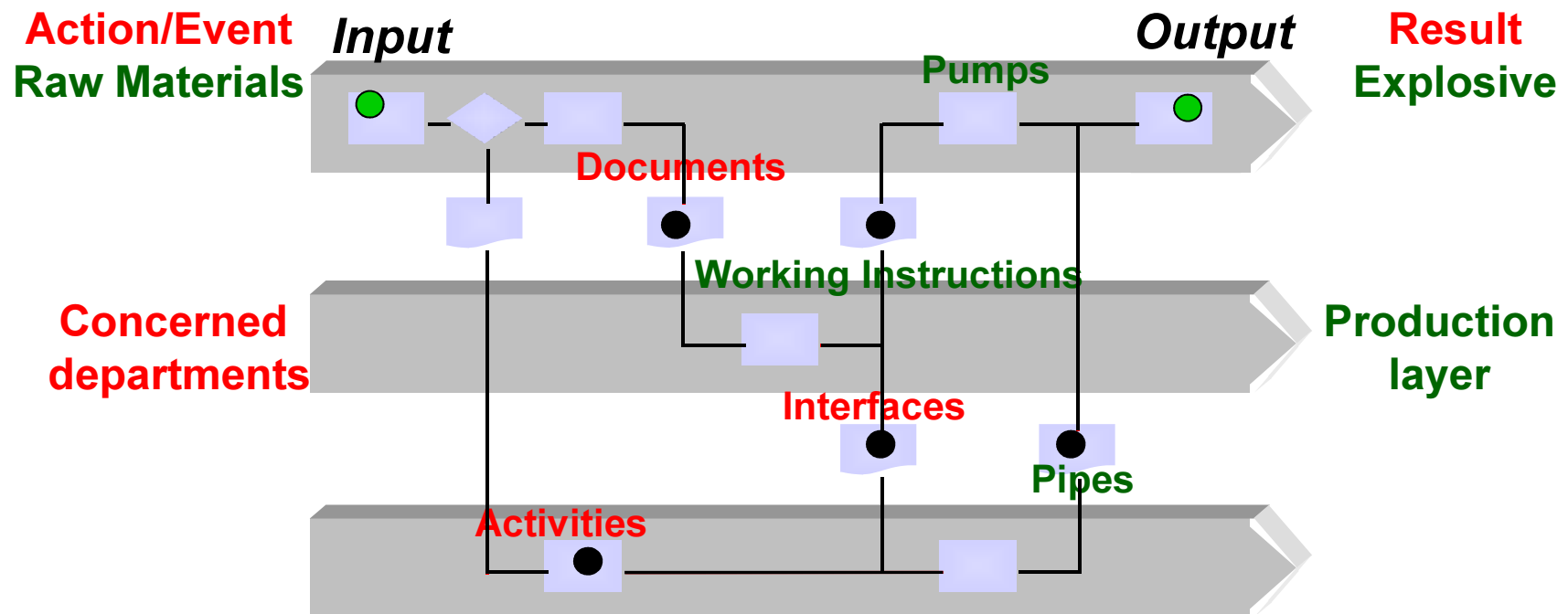
the initial
situation



- very complex
- low transparency
- no appropriate tool for visualizing processes (apart from RI-flowcharts)

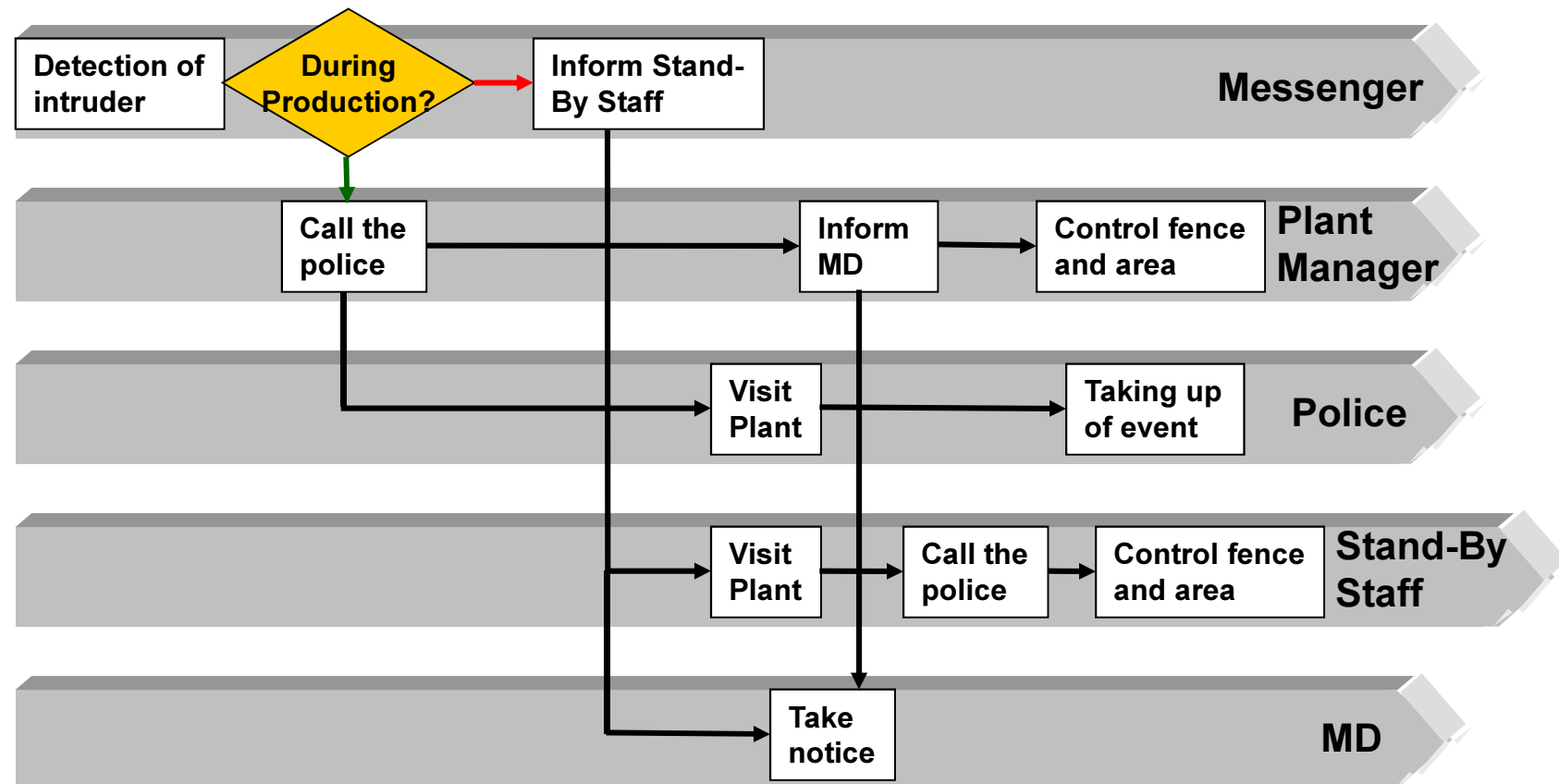


operational **activities**
An **plant** process is a recurring chain of
working steps/machines and apparatuses
with a definite **Input** and a definite **Output**.



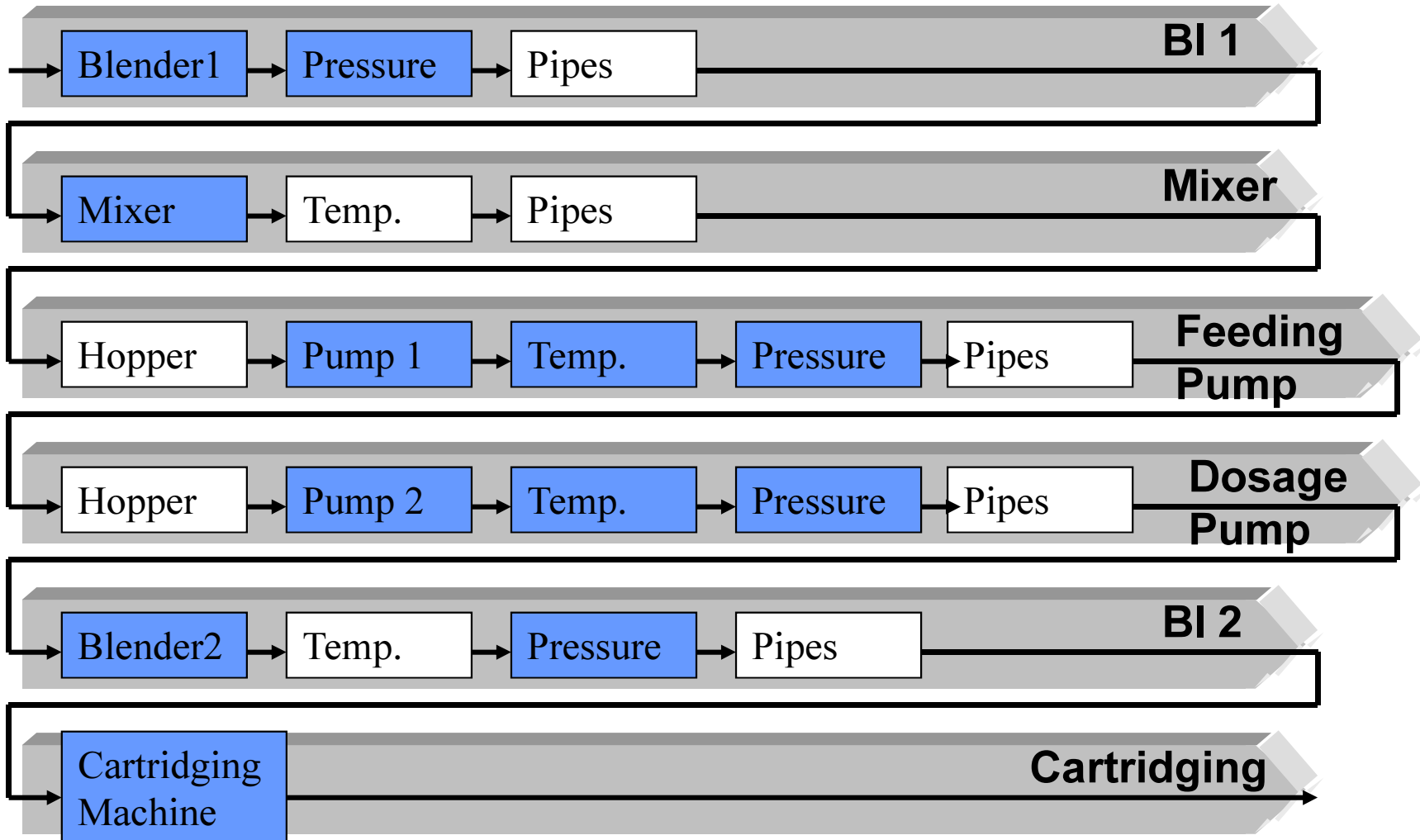


Example: Access of unauthorized persons

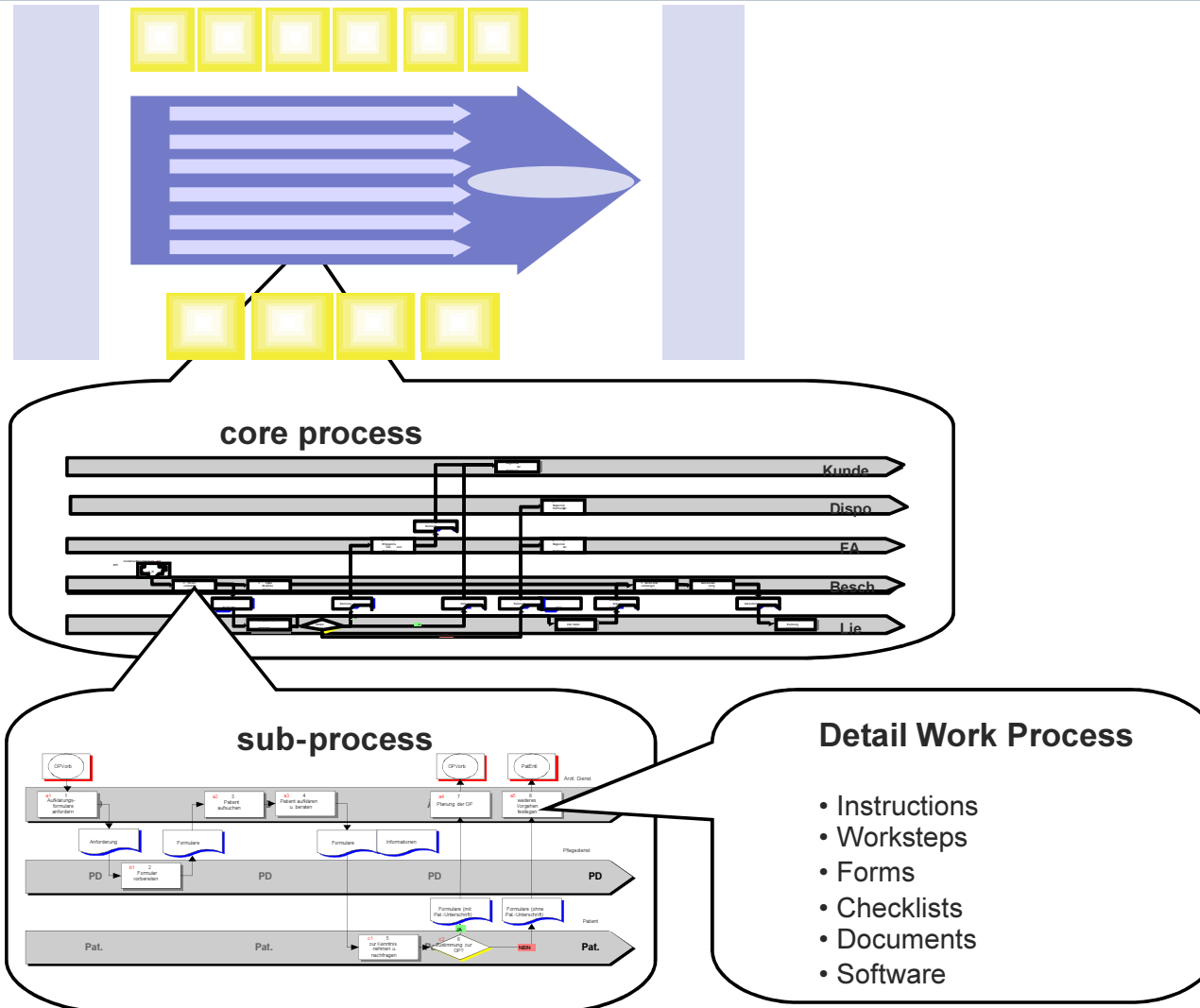




Example: Production of Emulsion Explosives



process levels





Linkage of process relevant information



**Card index
box**

1



1. Draw the process with the possibility to document details in the data base

2



2. Input of further process information in the data base and administration of main data

3



3. Generate reports

17.06.2014

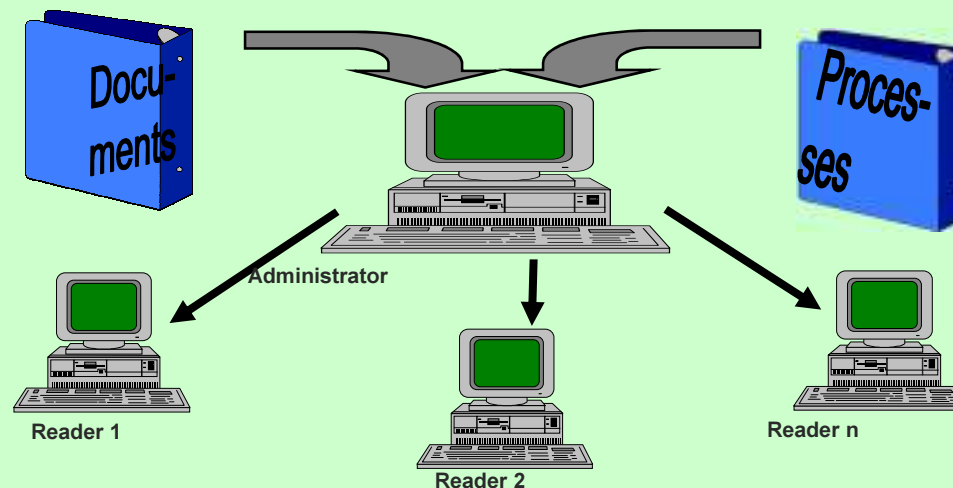
Held Westspreng GmbH

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Document steering and Administration

- Paperless providing of the SHE and Q manual
- Position related release of relevant forms and documents



- Advice of all involved persons about new or changed documents
- Reading control (who has already read it / who has not?)