

Stadtentwässerung Dresden: What We Need

... from college and university graduates

Outline

- Opening remarks
- Our tasks
- Technical managers and technical specialists
- Fields of application
- Special characteristics
- Further education
- Cooperation with the TU Dresden



Stadtentwässerung Dresden: What We Need

Opening Remarks

Security and economy through optimal organization and the right number of qualified employees

Federal and state water law and permits contain technical rules as well as statements about personnel and organization

Employees must be able to fulfill the tasks assigned to them

Stadtentwässerung Dresden: What We Need

A Wastewater Treatment Company's Tasks

- Wastewater disposal concept
- Planning, construction, operation and maintenance including documentation
- Monitoring wastewater and implementing regulations
- Monitoring indirect dischargers
- Providing a connection for the customer
- Hazard and critical point analyses
- Monitoring strategies and control measures
- Provision of operating materials
- Providing and maintaining operating facilities

Stadtentwässerung Dresden: What We Need

A Wastewater Treatment Company's Tasks

- Organizing and implementing on-call duty
- Emergency planning and accident prevention
- Staffing and personnel structure
- Acquisition of property and right of way
- Supplying goods and services
- Materials management
- Public relations and customer service
- Contract and legal matters
- Financial planning and obtaining finances

Stadtentwässerung Dresden: What We Need

A Wastewater Treatment Company's Tasks

Tasks that cannot be carried out by external service providers:

- Establishing staffing and personnel structure
- Selection, supervision, assignment and monitoring of staff
- Further education requirements for employees
- Selecting service providers and awarding contracts
- Monitoring service providers and their work
- Responsibility for planning, construction, operation and maintenance of wastewater facilities, work safety and environmental protection

Stadtentwässerung Dresden: What We Need

Technical Managers

- Concrete area of responsibility
- Qualification depends on scope of tasks and size of facility
- Authority in security-relevant matters to take responsible action
- Several years of experience and 3 years of experience in a position of responsibility in wastewater disposal
- Knowledge of legal and government code, relevant regulations for accident prevention and generally recognized rules of technology
- Good communication with colleagues and basic business knowledge
- Regular further education for tasks

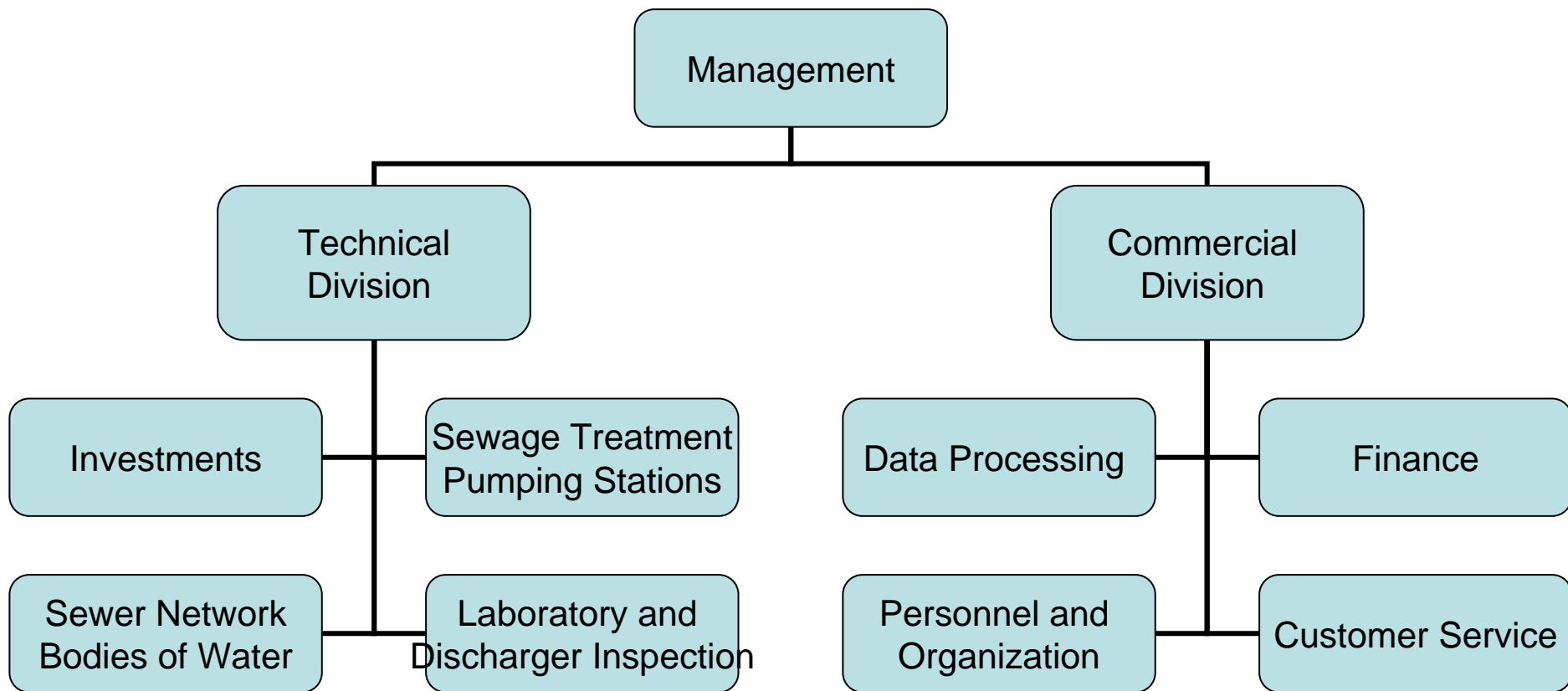
Stadtentwässerung Dresden: What We Need

Technical Specialists

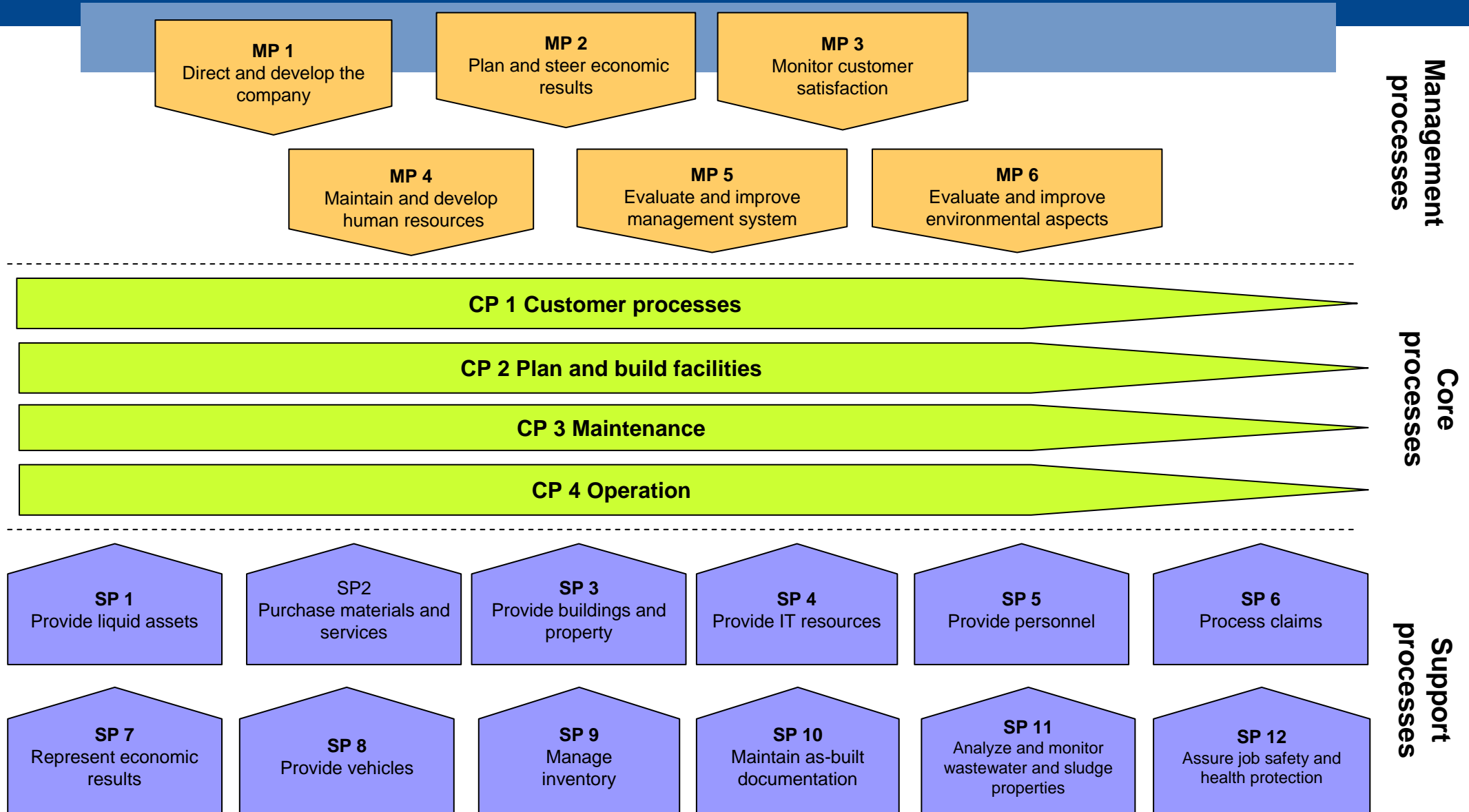
- Responsible for specific tasks such as
 - planning
 - construction
 - operation and
 - maintenance of water treatment facilities.
- Education in these areas and the necessary experience and knowledge of legal and governmental codes
- Assess and carry out tasks assigned and recognize and eliminate potential dangers
- Regularly take part in further education

Stadtentwässerung Dresden: What We Need

Organigramm of Stadtentwässerung Dresden GmbH



Stadtentwässerung Dresden: What We Need



Stadtentwässerung Dresden: What We Need

Candidates with Bachelor's and Master's Degrees

- So far no employees holding a Bachelor's degree
- Potential for employment of candidates with Bachelor's degrees in water management in the areas of
 - planning and construction and
 - plant operationfollowing practical job training.
- Master's studies necessary for positions of authority and in management

Stadtentwässerung Dresden: What We Need

Special Characteristics of our Work

- Team workers rather than loners
- Interdisciplinary thinking and working
- Specialists and generalists

Stadtentwässerung Dresden: What We Need

Further Education

- Solid scientific and engineering qualification
- Attendance of seminars, meetings, conferences and trade fairs
- Exchange of ideas within wastewater treatment and sewer system neighbourhoods
- Decisive are the currently valid
 - legal codes
 - accident prevention codes
 - technical rules
 - internal company instructions
- Access to documents and current technical publications
- Yearly work safety and environmental protection briefings
- Documentation of further education
- Employees participate in planning as presenters and instructors

Stadtentwässerung Dresden: What We Need

Cooperation with the TU Dresden

- Pilot plant at the sewage treatment plant in Dresden-Kaditz with:
 - a testing facility (activated sludge system)
 - a membrane-coupled sludge facility
 - a pilot plant for wastewater treatment and
 - experimental reactors for aerobic and anaerobic biodegradation tests.
- Decades of technical and scientific work between the TU Dresden and Stadtentwässerung Dresden
- Decisive contribution to the assessment and optimization of the sewage treatment plant in Kaditz
- Beneficial due to both the practical training and process and cost optimization

Stadtentwässerung Dresden: What We Need

Thank you for listening!