



# Magdeburg Molecular Detections



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## module 3

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# Structural Concepts



in hygiene

**Hygiene**



**nosocomial  
infections**



**mortality**

**economic  
costs**

**morbidity**

**social costs**

# Structural Concepts

## HYGIENE

Our services include:

- **definition of the hygiene standards of a medical centre**
- **developing hygiene standards in close collaboration with the building design**
- **provide hygiene services at "world class standards."**
- **consultation and training of Center staff to ensure that they can fully fulfil hygiene standards**
- **consultation with the hygiene management.**

# Structural Concepts

## LAWS, GUIDELINES, RECOMMENDATIONS

### Overview of the german rules of hygiene standards:

#### Laws

Infektionsschutzgesetz (Law of the prevention and fight against infectious diseases in humans)

Trinkwasserverordnung (regulation on drinking water)

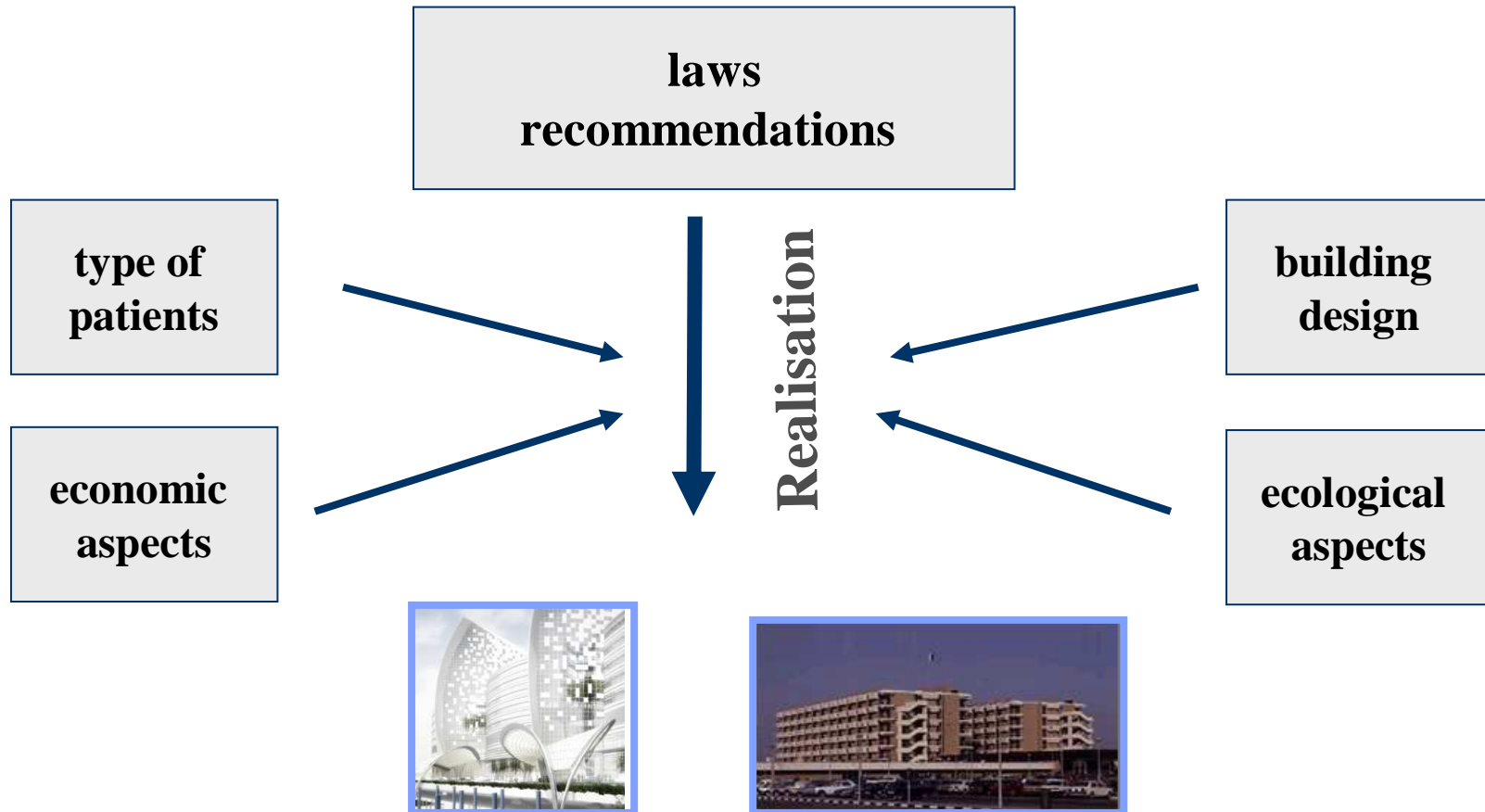
Biostoffverordnung incl. Risikogruppeneinstufung  
(regulation on biological material / risk group classification)

#### Guidelines

By the Robert-Koch-Institut, e. g.:  
hospital hygiene and infection prevention  
hospital operation guidelines

# Structural Concepts

## HYGIENE



# Structural Concepts

## SERVICES

We support the planning of medical facilities in the field of hygiene:

- **structurally / functionally**
- **operational / organizationally**
- **acquisition / assessment / supervision**
- **monitoring / control.**

# Structural Concepts

## STRUCTURALLY - FUNCTIONALLY

- project planning
  - space requirement
  - functional space sequences
- air quality (RTL-construction, airflow, etc.)
- water supply and water quality
- waste management
- waste water disposal
- building measures for the protection from infections (e. g., mosquito protection)
- structural requirements in specialized areas
  - intensive care units
  - infection unities (insulating room)
  - dialysis units
  - endoscopy units



# Structural Concepts

## OPERATIONALLY - ORGANIZATIONALLY

- care, diagnostics, therapy
- cleaning, disinfection, sterilisation
- company organization
- operations and other invasive interventions
  - intensive care units
  - infectious disease units
  - dialysis units
  - neonatology intensive care units

# Structural Concepts

## ACQUISITION, ASSESSMENT, SUPERVISION

- hygiene management
  - hygiene committee
  - hygiene expert staff
  - hygiene concept
  - environmental testing
- surveillance of nosocomial infections
- surveillance of nosocomial infections with multiresistance

# Structural Concepts

## MONITORING - CONTROL

- recognize outbreaks
- search for infection source
- epidemiological analyses
- development of a pandemic plan
- training / teaching

# Structural Concepts

## OUR COMPETENCE

**Our daily experience for more than 10 years in university hospitals > 1300 beds:**

- **daily confrontation with hygiene problems**
- **involved in hygiene management**
- **teaching „hygiene“**
- **microbiological monitoring**
- **training of „staff“ and member of the medical profession.mkk**