



# Pfeifer INTERPLAN CONSULTANTS

## Germany

- Professor **Pfeifer** und Partner PartGmbH  
Structural Engineering Building physics  
Fire protection (HN Structural assessment)  
Darmstadt (main office) Karlsruhe Cottbus Dresden
- **Pfeifer**Consult  
Engineering Consultancy  
Bad Krozingen next to Freiburg
- **Ute Pfeifer** Coaching Workshops  
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Darmstadt Bad Krozingen
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## Professor Pfeifer and Partner Architecture and Engineering

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Guardian Tower II, Abu Dhabi (UAE)

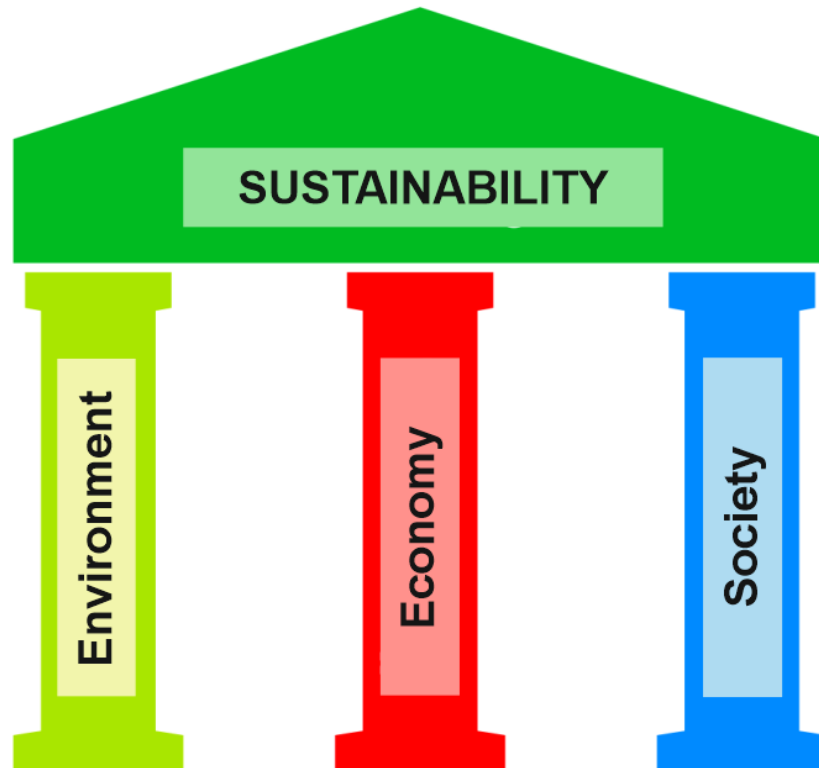


OMNITOWER, Frankfurt (Germany)



## **Sustainability – challenges and opportunities for the construction industry**

**From the perspective of planning, general and  
individual considerations**



## The 3 pillars of sustainability

### **Environmental aspects**

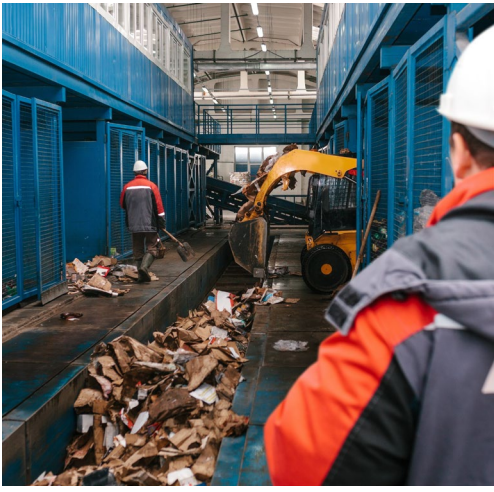
are based on the idea of not overexploiting the nature and natural resources.

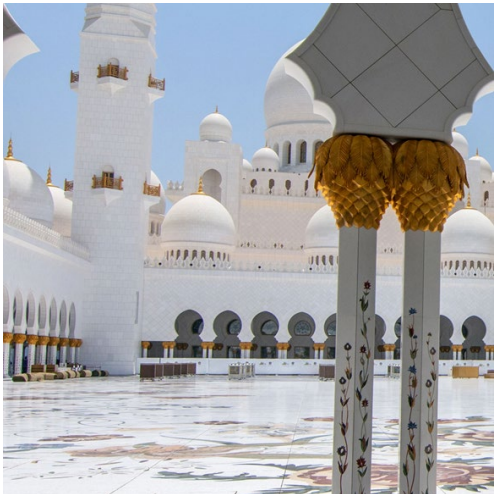
### **Economic aspects**

focus on economic behavior in the sense of not living at the expenses of future generations.

### **Social aspects**

take into account the social consequences of decisions, whereby the goal should always be to keep social tensions within bounds.







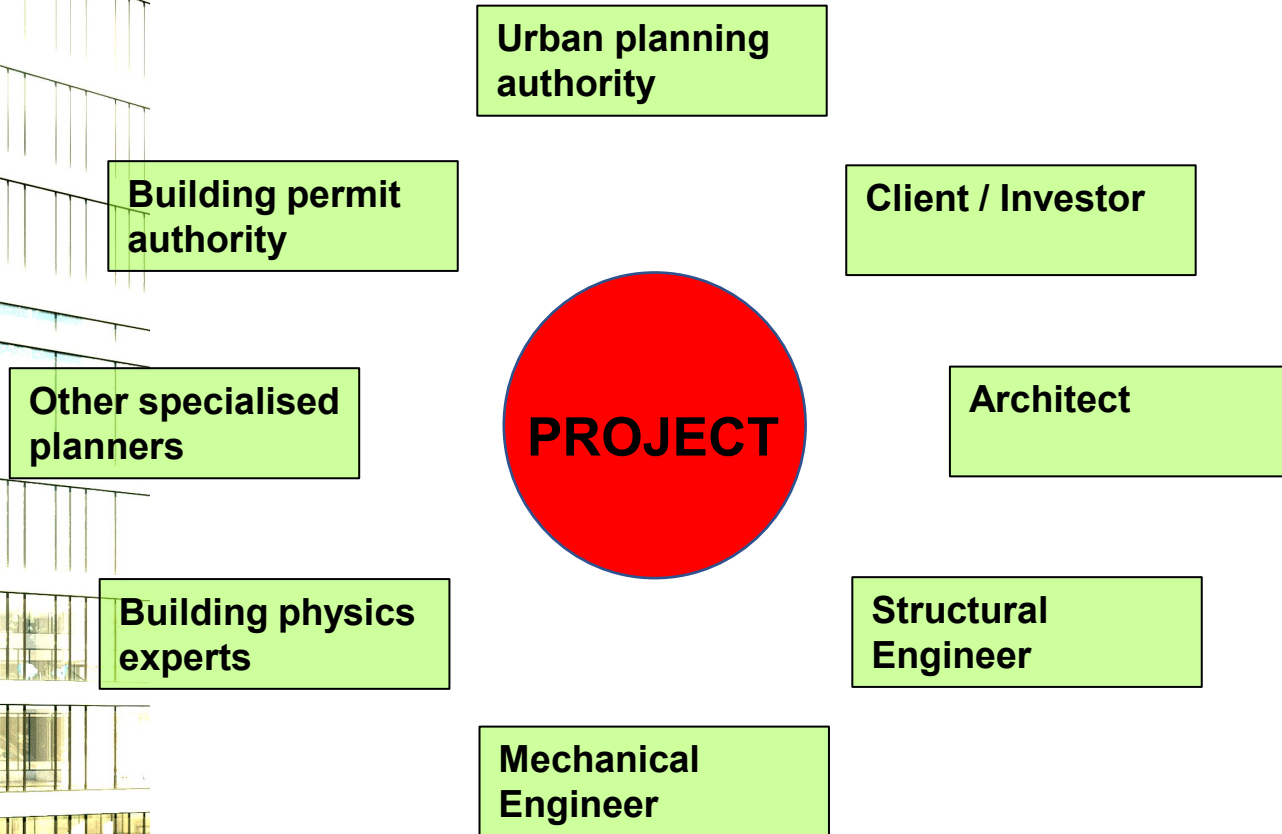
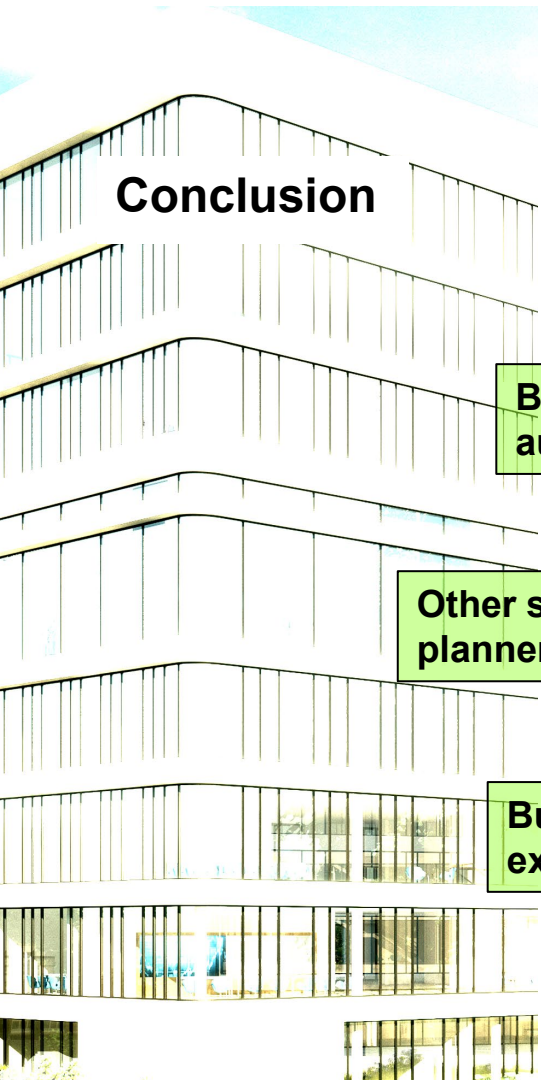
**The global climate change with its temperature increase, the high CO<sup>2</sup> load of the atmosphere and the gradual shortage of raw materials are the driving forces for all sustainability efforts in the construction industry. General, but also individual solutions have to be developed. The local climate and the availability and procurement of building materials play a major role.**

## **Keyword list in context of sustainable building**

(without claiming completeness)

- environment friendly residential concepts, condensed living, living and working close together in order to reduce commuting and CO<sup>2</sup> emissions produced by cars
  - environmentally friendly building materials and interior fittings, taking into account the primary energy consumption during production and the transport routes
  - use of recycled materials
  - cleverly thought-out thermal building insulation concepts against heat and cold
  - use of solar energy
  - use of wind energy
  - reduction of the energy consumption to run a building
  - waste water separation and multiple use of it
- And with a look to the future
- buildings with flexible use options
  - building materials, which are easily to recycle
  - use of building materials which are biodegradable





**Planning hand in hand – down to the smallest detail**  
Interdisciplinary cooperation with all parties involved in a building project is a fundamental precondition for the realisation of sustainability concepts in the field of construction.



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**International**

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