

Jedes Projekt hat seine Genesis

»»» **OKZT experts in civil engineering for hazardous water and many other fields**

**presented by Dipl.Ing. Joachim Kantz
CEO of OKZT**

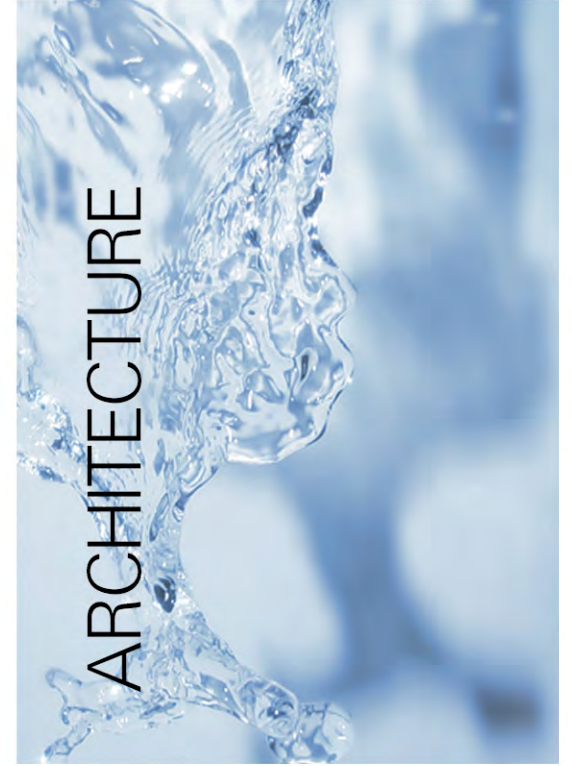
Sofia, 30.5.2019

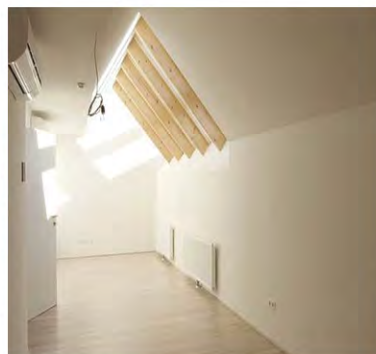
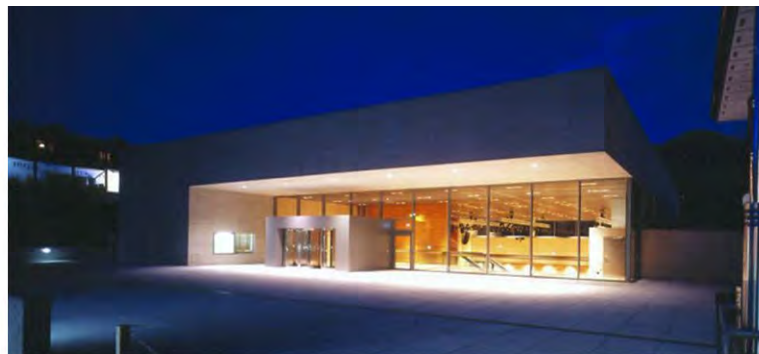


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- **Who we are**
- **Hazard wheater and key learning in a nut shell**
- **How we can co-operate**





OK.
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3570 projects in over 21 countries

➤➤➤ **1987 – 2019 every engineer has it's genesis**

1987

2019

Commodore 128

Ipad pro

Iron curtain

United Europe

Acid rain in some
regions

Global climate
change

 Regenwasser (günstig)

 Sonneneinstrahlung

 Regenwasserentlastung

Die Abwasser (z.B. Abwasser) muss immer mit dem Abwasser (z.B. Abwasser) in die Abwasserkanäle (z.B. Abwasserkanäle) fließen.

Abwasserart		SW R/R 18-60
Abwasserart		1
Abwasserart		100
Abwasserart	ET =	190
Abwasserart	ET =	56
max. Abwasser		80
max. Abwasser		0,25 m³
max. Abwasser		6,5
max. Abwasser		0 m³

Rechenweg

Schachtbreite	r =	0,50 m
max. Abwasser (günstig)	R/R =	0,95 m
Radius der erweiterten Abwasserleitung	R/R =	0,74 m
Erweiterte Abwasserleitung pro Schacht	max. Abwasser (günstig) pro Schacht	1,45 m³
Maximale Abwasserleitung pro Schacht	max. Abwasser (günstig) pro Schacht	1,45 m³
Erweiterte Abwasserleitung pro Schacht	max. Abwasser (günstig) pro Schacht	0,95 m³
Erweiterte Abwasserleitung pro Schacht	max. Abwasser (günstig) pro Schacht	0,95 m³

Überprüfung der Abwasser:

Angebotene Abwasser:	R/R =	0,95 m
Erweiterte Abwasser:	R/R =	0,95 m
Abwasser (günstig)	R/R =	0,95 m

Rechenweg (günstig) pro Schacht

erforderlicher Regenwasserentlastung:

1

SW R/R 18-60

Design for sinkage of rain water for standard residential objekt (same location)



1998 **Q=150l/s/ha**

Simple standard design tools and simple structures

N=5

Cost = 1,0

Q=270l/s/ha 2019

Advanced methods for soil tests, design and execution

N=30

Cost = 2,0 to 3,0

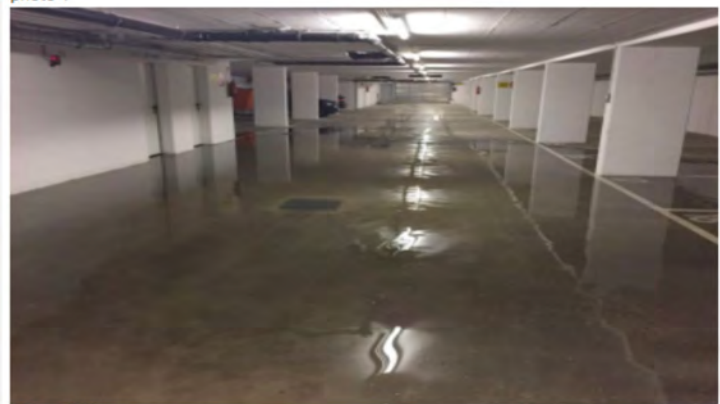


What is the biggest thread on a site in this days....

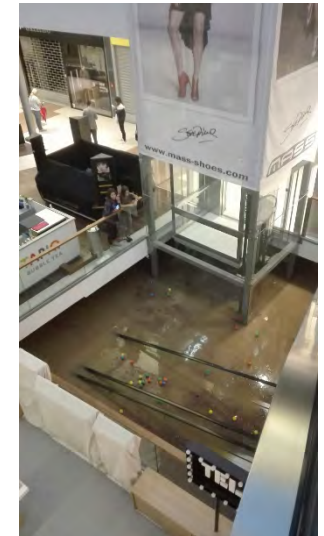
➤➤➤ Hazardous water is the most destroying element on many of our sites, samples from 2018



Bild (18).jpg



➤➤➤ The question about water stands on the beginning and end of our work.....



➤➤➤ Civil engineering is about responsibility for developing solutions for future generations



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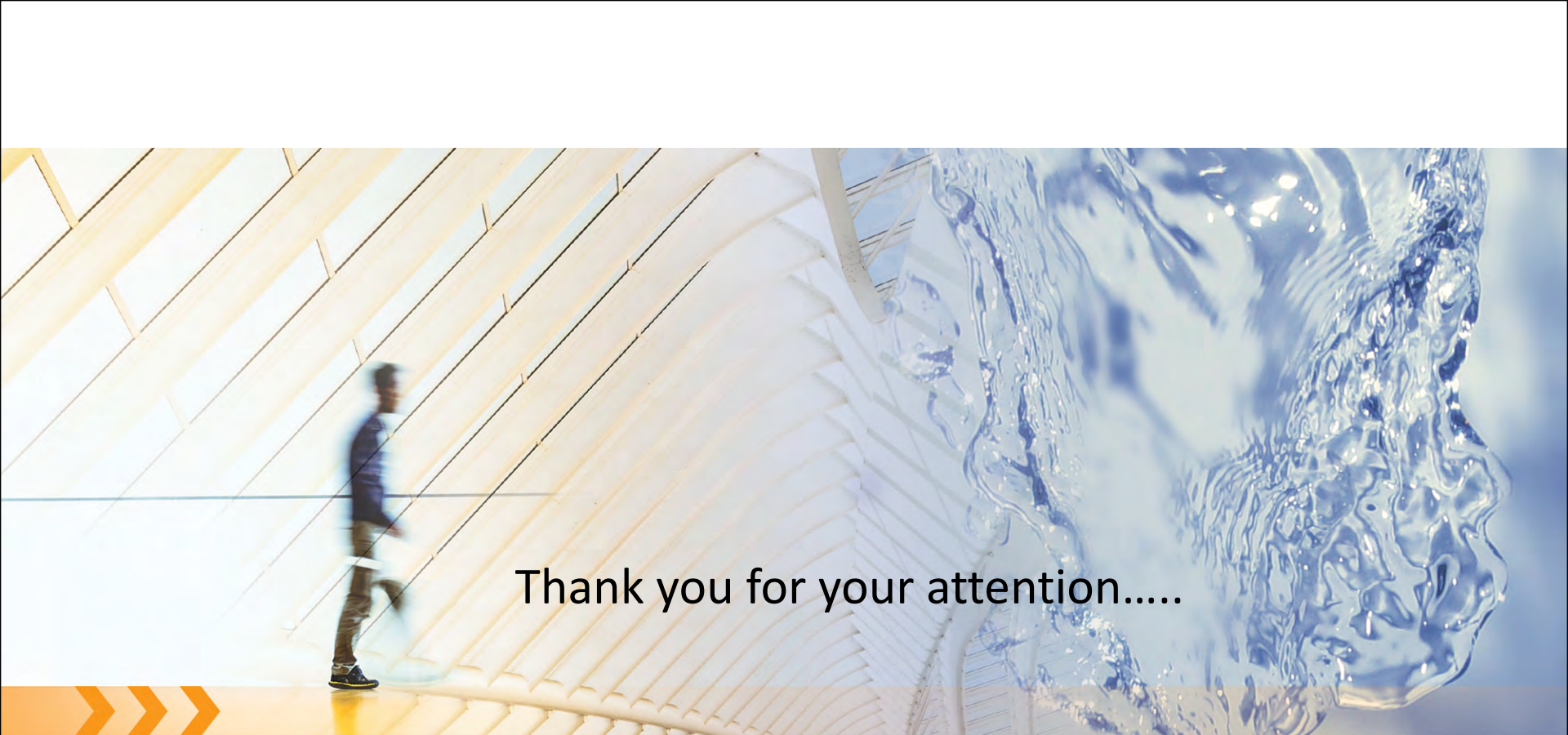


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»»» We are here to.....

Cooperate with the best local engineering experts, establish long term relationships

We are searching for the best young talents to expand our teams



Thank you for your attention.....

Every project has its genesis

State authorised and sworn civil engineers
Generally sworn and legally certified experts

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