

# Digitization of BH-logs

*DigiShape Day*

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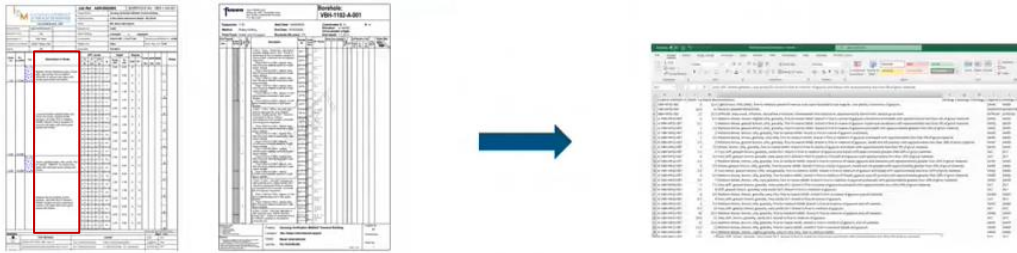
# The typical challenge

- Large infrastructure projects with a lot of geotechnical investigation data delivered in PDF
- Reviewing and processing this large volume of data on live projects

Depth (m)	RL (m AOD)	Layer	Description of Strata	SPT, blowcount					Depth		Sample No.	TCR (%)	SOR (%)	ROD (mm)	Notes
				1	2	3	4	5	Point (m)	Tip (m)					
0.50			Soft, greyish brown, very gravelly, very sandy S&T. Gravel is fine to coarse of base and gneiss with approximately less than 70% gravel material.	1	1	1	2	14	0.05	5.90	5	1			
1.00			Medium dense, greyish brown, very gravelly, very silty, fine to coarse SAND. Gravel is fine to coarse of gneiss and base with approximately less than 70% gravel material.	3	5	3	3	13	0.02	0.97	5	2			
1.50			Medium dense, greyish brown, gravelly, very silty, fine to coarse SAND. Gravel is fine to coarse of gneiss and base with approximately greater than 20% gravel content.	3	3	3	4	12	1.02	1.47	5	3			
2.00			Soft, greyish brown, gravelly, very sandy S&T. Gravel is fine to coarse of gneiss and base with approximately greater than 70% gravel material.	4	3	4	3	13	1.50	1.95	5	4			
2.50			Very soft, greyish brown, gravelly, very sandy S&T. Gravel is fine to coarse of gneiss and base with approximately greater than 65% gravel material.	2	5	4	4	21	2.01	2.46	5	5			
3.00			Soft, greyish brown, gravelly, very sandy S&T. Gravel is fine to coarse of gneiss, siltsand and base with approximately less than 15% gravel material.	1	2	2	2	15	2.02	2.87	5	6			
3.50			Grey, sandy, very silty, fine to coarse Gravelly of gneiss and base with approximately 70% gravel material.	-	-	-	-	140							
4.00			Very soft, greyish brown, gravelly, sandy S&T. Gravel is fine to coarse of siltsand and gneiss with approximately less than 15% gravel material.	3	3	5	5	26	3.00	3.95	5	8			
4.50			Very soft, greyish brown, gravelly, sandy S&T. Gravel is fine to coarse of gneiss and base with approximately less than 20% gravel material.	5	5	5	5	21	4.01	4.46	5	9			
				3	4	3	3		4.00	4.90	5	10			

# Examples of solutions

- Automated data extraction and processing developed on a project
  1. Python script to extract data from selected area within BH-log and tabulate into CSV-format
  2. Python script to post-process and filter tabulated data in CSV-format



- Feed into subsoil modelling packages and automated design workflows

