Georg-August-Universität
Göttingen

Green IT -

Current situation, potential measures and benefits

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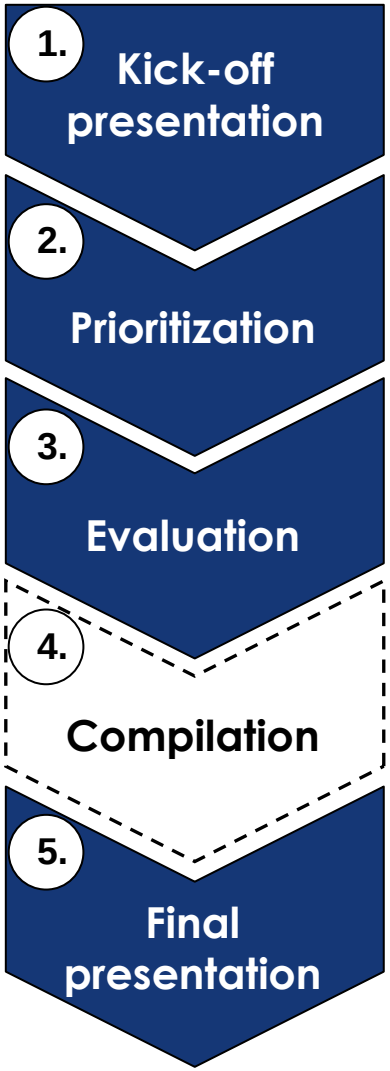
Our approach at the Chair of Information Management



	What	When
1. Kick-off presentation	On-site introduction presentation to the topic of „Sustainable IT management“	Beginning of the meeting
2. Prioritization	Prioritization of main objectives, relevant stakeholders and scopes of “Green IT”	Discussion after the presentation
3. Evaluation	Evaluation of the current “as-is” situation in IT sourcing, office environment, data centers, working practices and deliver commitment	During interviews with IT experts
4. Compilation	Preparation of the obtained information and data. Prioritization of identified issues. Design and analysis of possible solutions	In Göttingen (4 to 6 weeks)
5. Final presentation	On-site final presentation of the results. Outline of possible short and medium-term measures for the IT organization. Evaluation and prioritization of measures	Date needs to be determined

IT related electricity consumption

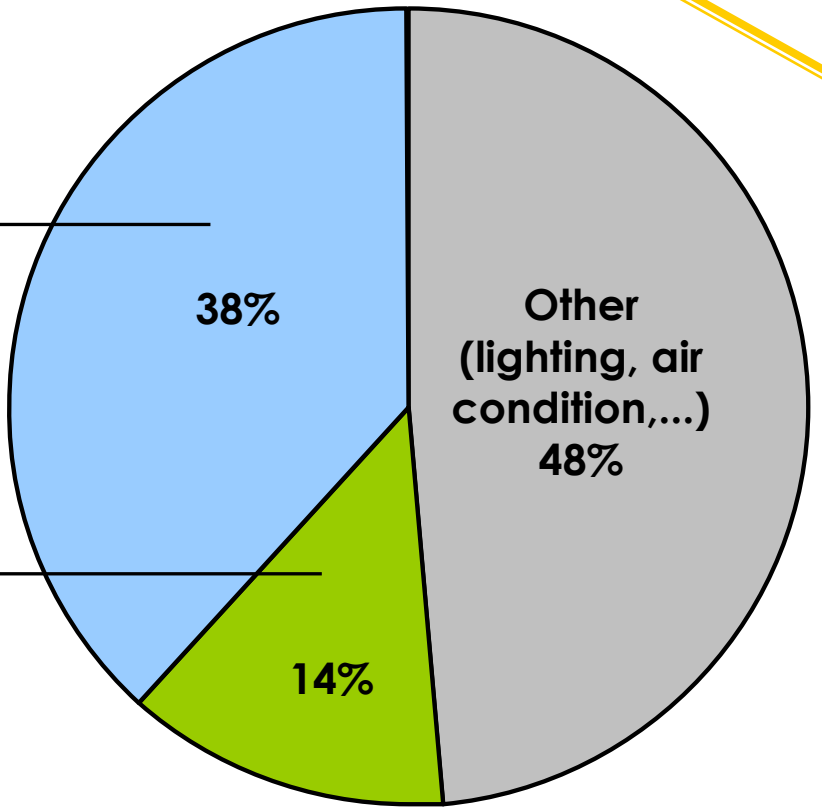
Sample from a Polish Bank

Data centers (servers, auxiliary)

981.207 Euro

Office IT (PCs, printers, laptops)

361.449 Euro



Total costs for electricity: 2.564.014 Euro

Office environment

Sample from a Polish Bank

	Units	Per capita rate	Electricity consumption (kWh)		Costs
PCs	8.385	1,43	3.054.521	(80%)	287.916 Euro
Laptops	1.905	0,32	172.924	(5%)	16.299 Euro
Printers	2.215	3/8	607.200	(15%)	57.234 Euro
				Total	361.499 Euro
					Procurement costs
Cartridges	6.500	1,11			648.996 Euro
Paper	40.502.723	6892			215.842 Euro

Source: IT infrastructure / Power estimations: PC 85 W, PC (switched off) 5 W / Laptop 20 W, Laptop (switched off) 2,5 W / Printer (idle): 600 W (30min a day), Printer (stand-by) 50W, Printer (switched off) 5 W,
switch off rate 60%

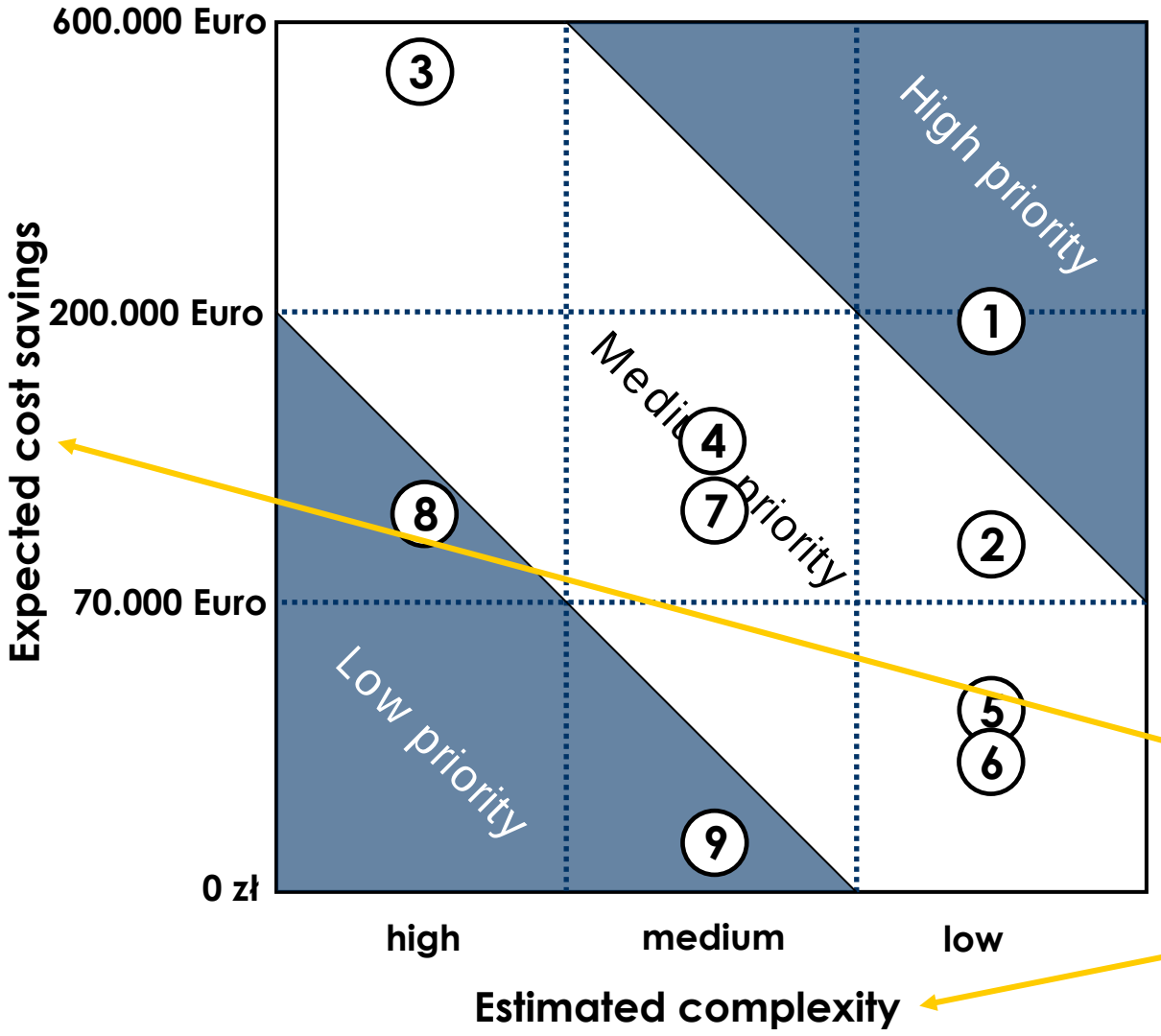
Overview of the proposed measures

Sample from a Polish Bank

Ranking by estimated cost savings and complexity			
	Measure	**Estimated cost savings (Euro)**	**Complexity**
1	Reducing paper consumption	206.653	low
2	Extending infrastructure lifecycles	93.239	low
3	Reorganization of printers	536.634	high
4	Presetting printer configurations	128.341	medium
5	Switching PCs off	43.795	Low
6	Increasing temperature in data centers	34.611	low
7	Optimization of data centers	117.294	medium
8	Remote shut down of PCs	104.776	high
9	Enable remote work via VPN	12.742	medium

Prioritization of proposed measures

Sample from a Polish Bank



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8. Remote shut down of PCs
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Bank's target system

Research team

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