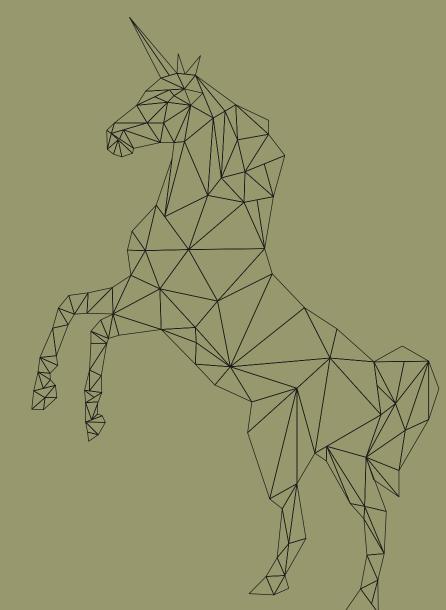
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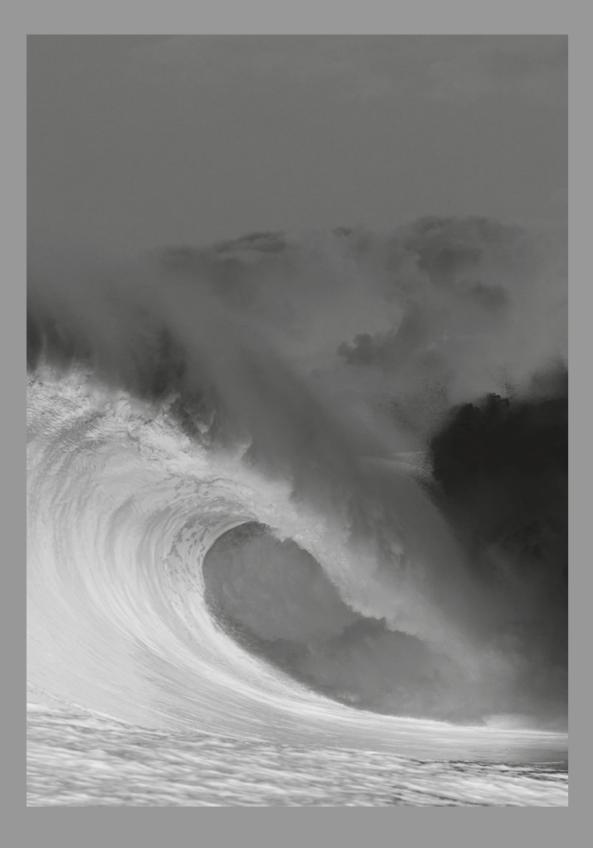
Operational due diligence: The smart route to assessing M&A deals in tech and infonomics

How to catch a unicorn! From Risk to Business









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<u>Welcome</u>

Five years ago, the two of us came together to support audius clients with methods and metrics that can curtain their operational risks and enhance operational security. The comprehensive module of these practices is what we today offer through our thriving business division called ,Security and Audit Services'.

Our methodology is derived from acute business intelligence gleaned from over a quarter-century of deep technical testing and analysis. This is aeons in technological time, throughout which audius has constantly sharpened its technical insights while ensuring they remain firmly rooted in actual operational needs. Today industry leaders and investors around the world seek out our services to contour their strategic and operational decision-making. Critical among such decisive processes is the business end that deals with Mergers and Acquisitions.

The M&A due diligence, without doubt, already has extensive risk reduction mechanisms in place. And we are proud that our service is in great favour by clients who want to achieve fresh perspectives on prospective deals and view them in totality.

In this paper, we set out how we add value to the M&A process.

Matthias Kraft Board Member



Joerg Simon Division Director Security & Audit Services

Summary

<u>audius</u> expands due diligence with a new assessment channel

audius operational due diligence Analysis and evaluation of non-capital assets with the Loss Control Method Proofs of concepts, ideas, IP, code, products Early threat and impact detection Reduced risk of bad investments Decisions based on facts, not on assumptions Requires orchestration of new expert skill sets

From Risk to Business:

Provides context, comparability and measurability

Better decision-making for infonomics M&A deals

Traditional M&A business evaluation: legal and financial due diligence

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Highly valuable expertise in capital assets evaluation

Not equipped to evaluate non-capital assets in the infonomics space

Critical for any M&A deal

Risk of missing hidden deal-breakers

Introduction

Introduction

The new diligence

<u>Why?</u>

For the simple reason that tech startups do not have classical assets and generally do not behave in familiar ways.

Tech is a shape-shifter that does not conform to traditional rules. It likes to spring a surprise. Tech startups – potential unicorns, after all – may not enter the profit zone for a long time. The winning bet is most often the idea, the code, the information assets, the proof of concepts or the future results expected of the company, rather than conventional balance sheet criteria.

No surprise, then, that "classical" methods, effective as they are, fail to convey the whole picture when assessing an M&A candidate from the tech field. Or even to leverage the surprise. Historically, top-notch consulting firms and lawyers are relied upon to check the health of a target's assets and its legal and financial build. But if a startup's true value lies in its intellectual property (IP), the scope of scrutiny needs to expand. IT infrastructure and security, for one, are then no longer one operational issue among others. They have taken center stage.

Consider a – fictitious – fintech startup with impressive prospects due to its uniquely effective user data management approach. Also imagine that you are assessing the viability of this target along the lines of traditional due diligence. Acquiring a startup with hardly any sales and highly valuable, yet equally vulnerable IP – what could possibly go wrong?

A lot, of course. That is why you have to check much more than its balance sheet, books and suchlike. In addition to traditional due diligence, it is essential to identify potential product risk, such as IP issues, and company-related risk, such as infrastructure weaknesses. To assess whether to ink a deal, a tech investor will therefore seek out ways to refresh the due diligence and expand it towards a "new diligence". In other words, schedule an upgrade!

How do you know what's going to be a game-changer? Do you know which horse to bet on?

Technology is changing at the speed of thought. And since it is driving business on the information superhighway, investors want to be the first to spot the next big thing ahead. They are focused on smart tech such as IoT, automation, AI and digitalization. However, as co-travelers on the ever-changing territory of infonomics – monetizing and the speed of thought. And since aroused their interest. Here, business practice to hit a brick wall. The for Mergers & Acquisi cient for a fair and efficient

information as well as the resulting intelligence – investors need to be able to see beyond the bend in the road. Especially when assessing the potential of a tech firm that has aroused their interest.

Here, business practices not tailored for smart tech tend to hit a brick wall. The "classical" due diligence approaches for Mergers & Acquisitions (M&A) alone are just not sufficient for a fair and efficient assessment. And that is exactly what audius has been doing successfully for a number of years now.

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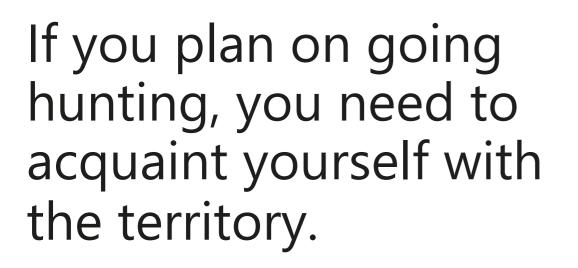
Over a decade, audius has developed a toolkit for better informed decision-making, the **Loss Control Method**. Truly unique in its holistic orchestration of in-depth auditing across all operational channels, it delivers context and business intelligence in a reliable, outcome-oriented process. The approach achieves a healthy balance between adequate operational control and compliance with standards, laws and regulations. audius has contributed metrics to evaluate operational risks in M&A, helping you to make sense of the information technology, appraise security and risk, gauge trustworthiness, and put the intelligence gathered in a practical context. In recent years, more and more investors have employed our system to streamline M&A activities and get effective results faster.

Our mission is **"From Risk to Business"**: a continuous process of assessing operational risk, implementing mitigations and treatments – and generating success. The result is three-pronged:

- More realistic evaluation obtained through transparency
- Investments to be made in future and associated **risks revealed early**
- **Impostors exposed promptly** as the gap between the marketing and the reality is laid bare

The hunt

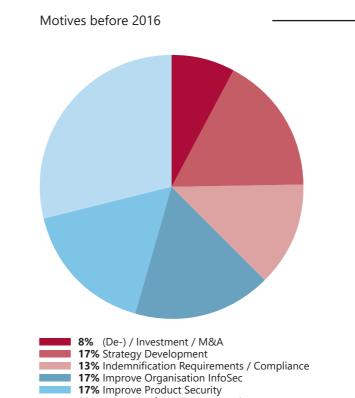
The hunt



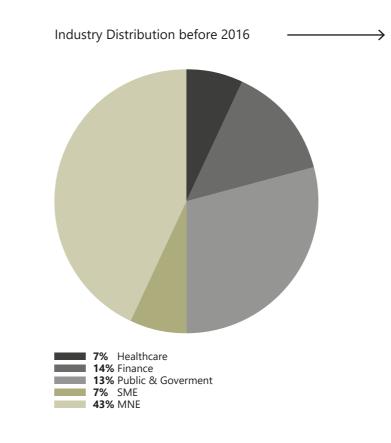
And as far as the M&A landscape is concerned, the territory has changed fundamentally in recent years. For instance, a noticeable shift has occurred in the motives of audius clients for using our operational due diligence approach. Statistics we extracted from over 200 security and audit projects for 35 of our clients show that operational due diligence projects to support M&A evaluation and decision-making have increased by 15% in the last three years.

The audius security and audit methods have always provided services across all industries, delivering a strategic approach to evaluating loss of control, security and operational risk. In the last 24 months, both small and medium enterprises (SME) and multi-national enterprises (MNE) have increasingly invested in digitalization by acquiring innovative companies and startups. Yet it is in the SME segment that the number of projects has grown most – from 7% to 31%.

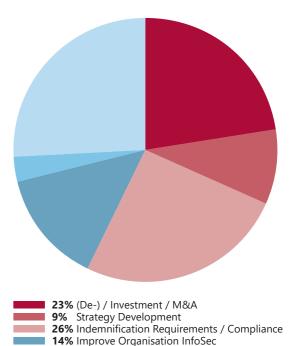
M&A activity is gaining more and more important for smaller companies too. With our streamlined offerings, these businesses have access to highly efficient services that are not only fast but also affordable.







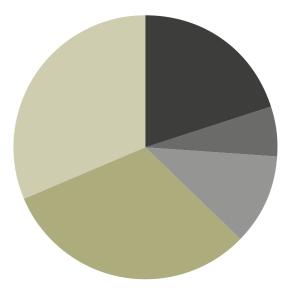
Motives last 3 years



Industry Distribution last 3 years

3% Improve Product Security

26% Improve Infrastructure Maturity





20% Healthcare 6% Finance 11% Public & Goverment 31% SME 31% MNE

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From Risk ...

Don't believe, verify. And to verify, focuses on detecting unknown look beyond the apparent. The due diligence audius performs threats – and checking how likely to assess smart-tech candidates known threats are to occur. puts the firms, whether young or old, through deep technical checks Such threats could be a **deal-brea**ker if detected. And if undetected, to reveal their inner workings. This unearths any concealed risks they could cause extreme finanfacing the company right at the cial injury. The following realoutset and predicts their practilife examples illustrate some such scenarios encountered by **audius** cal consequences. We define risk by three elements: the threat, and extrapolate their respective its impact and the probability of damage potential.

occurrence. The audius approach

Risks from Product Cluster

Threat

| PURIOUS PRODUCT | TECHNICAL VULNERABILITIES | BASIC SECURITY DESIGN FLAW | ARCHITECTURE DESIGN FLAW | TECH ABOUT TO GET OBSOLETE | INTELLECTUAL PROPERTY RIGHTS |
|---|--|---|---|--|---|
| he idea, product or a umber cited is not ge- uine; there is no proof ne product works as aimed kample: Features are puted but do not work or users | Software or hardware open to system breach Example: Backdoor in IoT device which could be exploited by an attacker | Example: Outdated or hazardous chipsets, like some that work with dangerous radio waves Easy accessibility, like reboot from a normal USB key | Example: Code or infra- structure cannot be scaled | Chipsets shipped, but not supported by vendor in near future Ageing IoT hardware in- tegrated with customers | UNCLEAR Example: It is ambiguous who owns the idea Wrongful use of open source code, or bad code Use of libraries that do not allow com- mercial use or proprie- tary development |
| | | | | | |
| Maturity of product and user or product numbers lower than expected | Noncompliance, leading to a tainted reputation (Often this can be fixed | Cause for liability Having to start from scratch | Non-functional flaws in maintainability Low scalability and | A lot of avoidable legwork Entire framework | Future obligations and liabilities Unsolvable |
| Investors are oversold | with money) | | usability | shatters | dependencies |
| the merits | | High financial damage Irreparable, therefore a deal-breaker | Business flops | Hefty bill for repairs owing to heavy main- tenance costs | Legal tangles and lice dependencies |

Likely Impact

LACK OF **SELF-AWARENESS**

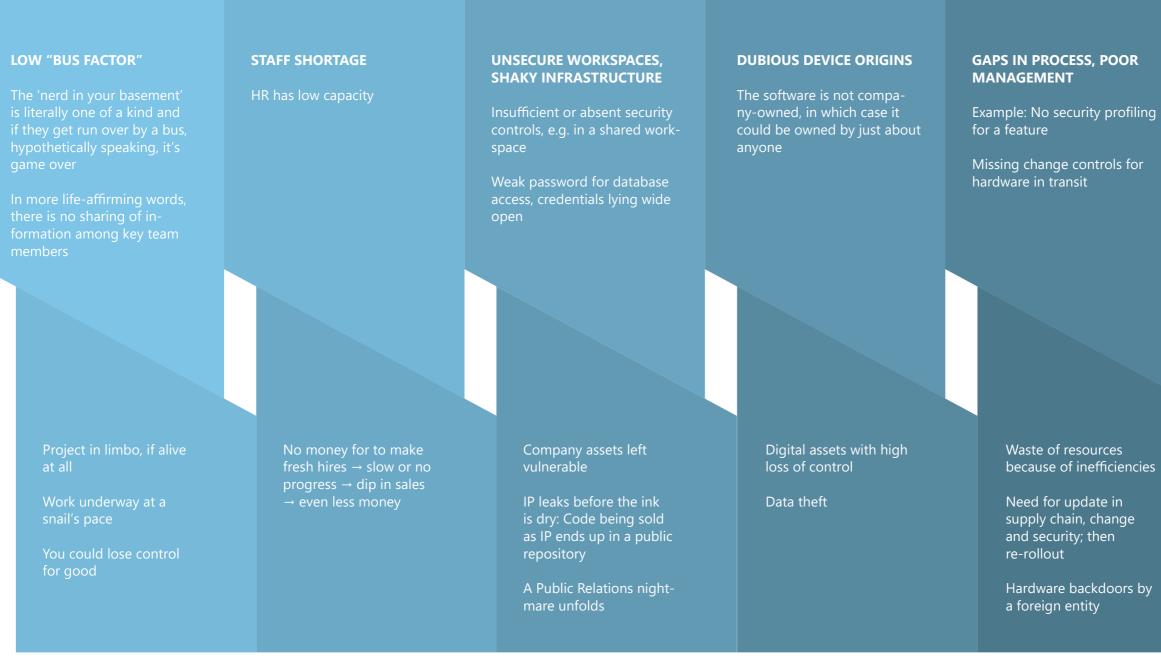
Example: The alleged USP is not so unique as the product developed "in a basement" already exists in a bigger and better form

Big investments needed to overtake established competition

Investor left playing catch-up

Risks from Company Cluster

Threat



Likely Impact

"GLOOMY" CLOUD ENVIRONMENT

Your cloud doesn't have the 'silver lining' of security, and invites attackers to "pwn" you, as the internet slang goes (i.e. to own you, to dominate you)

Digital assets with high loss of control

Loss of IP which is costly to fix

Data protection regulation (GDPR) breach and ensuing damages

... to Business -The Method

Now to the heart of the matter.

How do we ferret out the threats menacing a company which a normal audit would have missed? In relatable terms, think of it as the M&A audit that you already know but under a well-calibrated magnifying glass with a new scope.

As it is, mergers and acquisitions are exacting, protracted processes. To add more complexity to this makes little sense. So audius has worked out a method which plumbs the depths without taxing the already arduous process more than necessary.

The **Loss Control Method** – our well-adjusted magnifying glass, so to speak – is sturdy. It has been well-tested and proven and sets us apart.

The method employed today by our Security & Audit Service in fact germinated in our engagement within an ecosystem of IT communities spanning the globe that work towards enhancing the world's experience of technology. As such, audius became the go-to player in the field – particularly for tricky penetration tests (which only insiders are privy to).

It was during our contributions, in the form of research and other support, to Fedora Project, Alpine Linux, ISE-COM, home-assistant.io, explloT, nullcon, nullcommunity and hardwear.io among others, that the **Loss Control Method** began taking shape.

Building our reputation with the Security & Audit Service over a decade, the **Loss Control Method** has equipped audius to deliver results quickly and with reasonable effort. On top of that, we have ensured that our operational due diligence talent is armed with a whole cluster of skills to contribute to M&A projects for investors worldwide. In fact, the efficient orchestration of expertise is one of our main competitive advantages. Today we cover the whole plane of a tech check with a **quadruple assessment:**

Spectrum Channel – SpecOps (Wireless)

Human Channel – HumOps (Processes, Compliance)

Communication Channel – CommOps (DataSec/TelSec/AppSec/NetworkSec)

Physical Channel – PhysOps (Building, Facility, Hardware etc.)

The checks empower the interested parties to make decisions based on verifiable fact – and not just approximation, best practice assumptions or feeling – by supplying a trifecta of **context, comparability and measurability.**

We learned quickly that even the most dazzling discovery – findings that blew our minds – was of little value without an appropriate context and the propensity to be measured or compared. And rather than restricting ourselves only to IT, we compiled penetration testing, infrastructure maturity assessments, compliance management, process management and risk management in an unparalleled approach. At the end of all this labor was born the Loss Control Method. It helped us remain true to our motto, **From Risk to Business**, and became the whole and soul of our mission. Though it was harder than we initially anticipated, we were finally able to get to the bottom of the question: "What does it mean for your business?"

Risk Assessment / OpRisk Management

Know what stops your business operations, know what harms your reputation! Know where to put your money first!

be a threat to the business!

Structural Analysis / OpSec

Know your operational security! Know what is where! Know your trust! Know your controls! Know functional & non-functional reguirements!

Risk Treatment / Actionplan

as catalyst to learn how your

controls need to work!

Design perfect operational security! Balance your assets, trusts, controls & limitations!



Improve & Mitigate

Implement technical & process measures to improve current operational security!

build Second

Monitor

Continuously measure / manage operations, security, limitations & trusts!

It uses unbiased metrics and produces comparable results. This in turn enables the analyst to define the gap between the as-is and the "Ideal Loss Control". Only after you have identified a gap can you proceed to close it in a controlled manner. The method has been expanded and refined, so as to encompass a variety of functional and also non-functional requirements of operations; "functional" referring to the core functionality, "non-functional" to properties of operations as a whole. These non-functional requirements such as resilience, confidentiality or maintainability of course also matter a great deal to businesses. With this method, audius delivers insights, metrics and transparency regarding operational risk, security and readiness – abbreviated as OpRisk, OpSec and OpReadiness – for all assessment channels: efficiently, objectively and fast.

Conceptually, the Loss Control Method is based on an approach that evaluates an organization's "loss of control" for particular assessment properties or assessment channels. OpRisk

Operational Risk refers to building intelligence on how business continuity is established, and how a company or product is able to handle high loads quickly as well as cope with emergency situations like attacks and any disasters. In particular, non-functional requirements like availability, short-term scalability and resilience are analyzed, considered and measured.

OpSec

Operational Security concerns intelligence on access, treatment of secrets and information, and how these are secured. More specifically, the focus is on non-functional requirements like confidentiality and change control.

OpReadiness

Operational Readiness gathers intelligence on how the business operations are managed, documented and prepared for the future. In this domain, non-functional requirements like efficiency, maintainability and long-term scalability are of particular relevance.

<u>Success Story by</u> ebmpapst



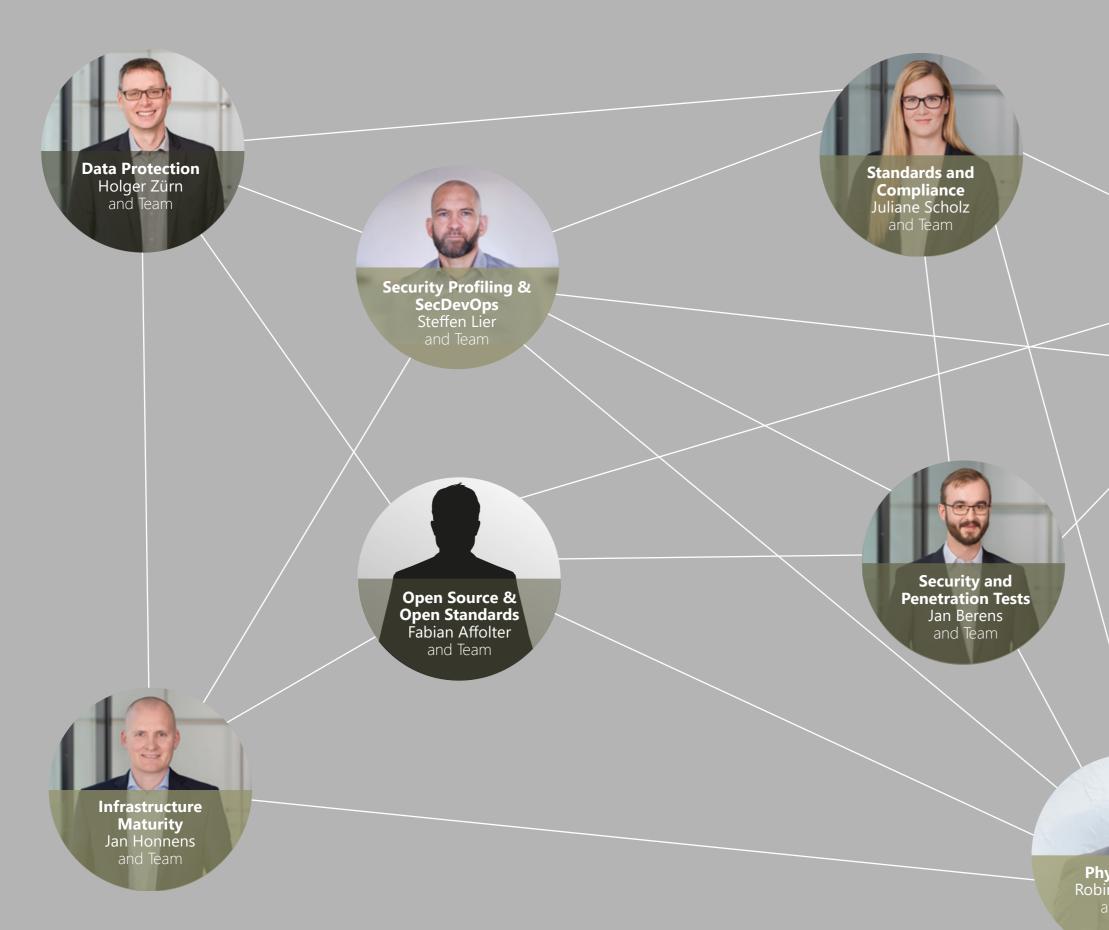


We would like to illustrate an instance of how operational due diligence allowed a leading company secure its ends swiftly for its startup offshoot. Recently, ebm-papst, a world market leader for energy-saving fans and motors, used its offshoot ebm-papst neo to gain a stake in two strong international partners and allow for rapid transfer of technology.

Thomas Sauer Managing Director at ebm-papst neo GmbH & Co. KG The decisions concerning the investments were supported by concrete facts made evident by the operational due diligence audius performed. "We managed to integrate the broad base of special knowledge and expertise of audius into our decision making process and have almost instantly gathered insights, we would not have been able to get without", states Thomas Sauer, Managing Director at ebm-papst neo GmbH & Co. KG.

With a thorough understanding of the company's needs, we concentrated on the specific requirements of a highly virtual startup where the team is scattered across continents. Moreover, we conducted assessments on site in Europe and Asia. audius delivered its intelligence in time and on budget, without straining too many company resources. The result was a useful and valuable addition to the to-do lists from legal and financial due diligence. Moreover, the products provided by the startups had been refined through the value added by audius.

We are happy to report that we received extremely positive feedback from the company. We were told audius has done an incredible job and that its results and metrics were invaluable in the decision-making process.



Backup & Recovery Andreas Limberger and Team

Physical Risk Robin Prowasnik and Team

Why audius?

There are many answers to this question. The high caliber of our market-leading services results from decades of experience, state-of-the-art technologies, certified quality management and award-winning innovations. But in the end, it boils down to our ability to listen – "Erfolg durch Zuhören", as our motto has it. For us, focusing on our customers' actual business needs is the foundation of success – theirs and ours. Our history as a business has been a continuous trajectory of rapid growth. Founded 1991 as an IT distributor with a workforce of four, audius has since evolved to a leading medium-sized German software and IT services provider with more than 600 employees, global operations and numerous subsidiaries. Our customer base now includes organizations from all industries and sectors – medium-sized companies, global corporations and public sector institutions.

What has not changed over the decades is our company-wide team spirit. We are still an owner operated business with lean structures and effective decision processes.

This is why audius is able to provide bespoke solutions efficiently and quickly. As the saying goes, not the big ones beat the little ones. But the fast beat the slow.

Our wide service range includes:

- High quality IT services, consulting and cloud solutions
- CRM systems for customer service and sales
- Mobile enterprise application platform for all business sectors and areas
- Mobile data infrastructure

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