







Introduction

Vaultinum – Technology as a Service



About us

- Technology provider combining automated tools and experts
- Protecting IP and source code for over 40 years
- Providing Equipped Cyber and Tech Due diligence
 - For Investors, Vendors and Corporates
 - Meeting the need for assessment, compliance and monitoring



40 employees -50% in IT and R&D Hosting 250,000+ source codes Proprietary technology

Holistic Approach to Tech DD



elDAS READY

Vaultinum – Technology as a Service





A comprehensive, data-driven approach to technology due diligence



Unique scanning technology to detect threats



Expert contextualization of data and actionable recommendations



Identifying technical debt and reducing risk



Verifying the technology aligns with the business objectives

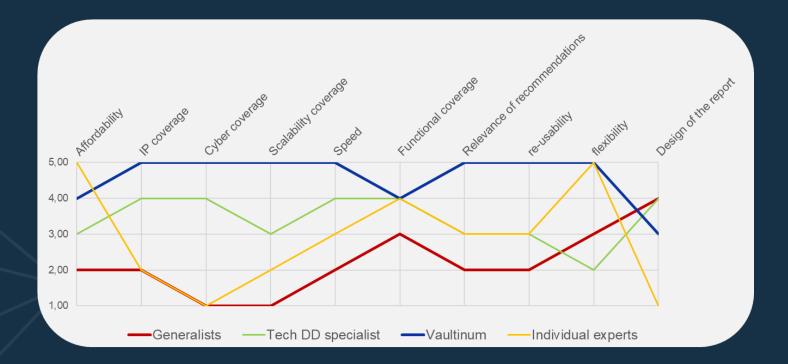


Monitoring, de-risking and enhancing your tech portfolio





"Without data, you're just another person with an opinion"

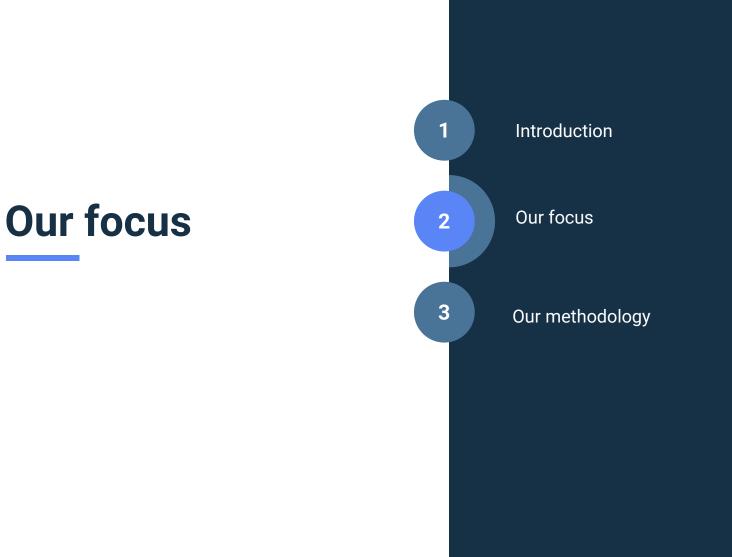


They trust Vaultinum









Understand software risk and impacts



Our Tech Due Diligence Assesses:









Adding Expertise to have a full comprehensive view on the business

Understanding the Industry and the positioning



Allowing matching analysis with Business expectations

ALIGNMENT WITH STRATEGY



ORGANISATION / ROADMAP

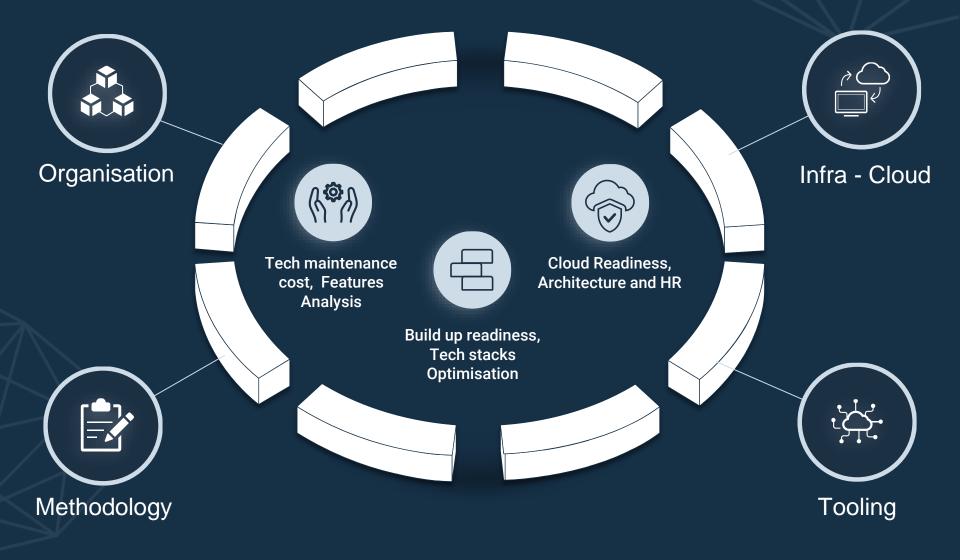
APPLICATION ARCHITECTURE

METHODOLOGY / HUMAN CAP

SOFTWARE DNA

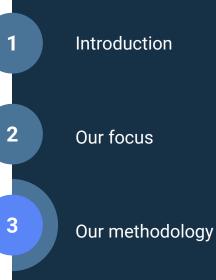
360° view of the IT environment











From quantitative data to expert guidance



What we do: Using data to go deeper, faster



What we deliver: operational insights for impactful decisions and better exit value

- Thorough analysis of the tech's strengths and vulnerabilities
- Report focusing on the main areas of risk and how to address them
- Action plan with estimated time of fix and costs
- Dashboard to track and monitor performance over time

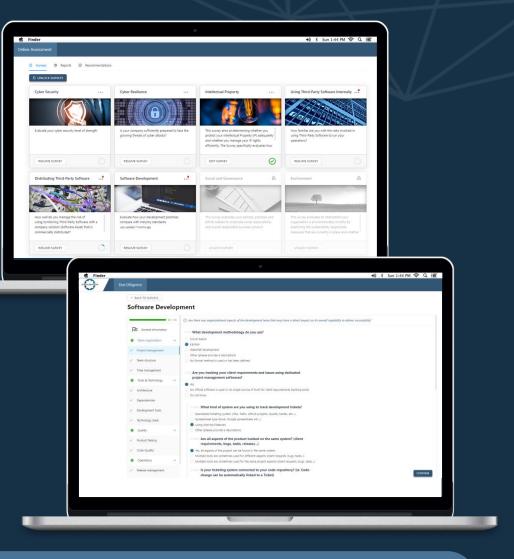
Step 1: Online assessment



Evaluate organisation & management of

- Cybersecurity practices
- Intellectual Property Protection
- Software development and IT <u>infrastructure organisation</u>

GDPR processes



Created by international experts - Vaultinum collaborative Platform

Step 1: Online assessment



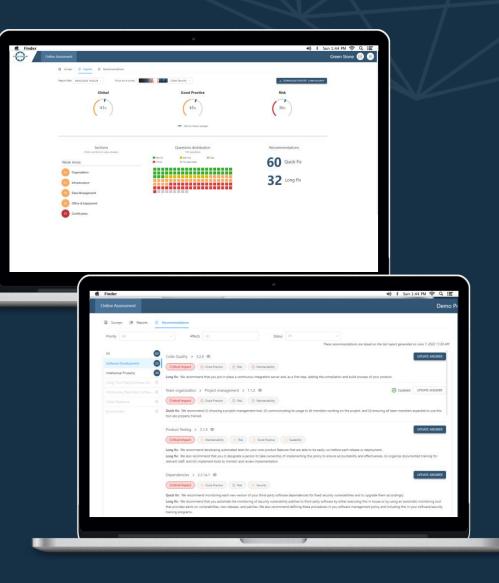
Control Panel for rapid view of



Identified opportunities and vulnerabilities

Scoring compared	to	industr
average		

Report with expert recommendations



Step 2: Source code scan



Unique proprietary methodology gathering data analysis from 7 scanners

-) Cyber vulnerabilities scan
- Code hygiene and maturity
-) OSS dependencies scan
-) OSS copy/paste scan
-) OSS modifications scan
- Git analyzer for scalability
- Analysis of quality and security
- Access security risk
- **Optional Pen testing**
- Tooling efficiency





Step 3: Contextualization with Experts

Interview with IT & Legal Experts to



- Review findings in context of business objectives
- Identify mitigating factors

- Understand technology environment and end use
- Assess timelines to formulate action plan

_							📢 🕴 Sun 1:44 PM 🤿	≥ d IE
Total				944			29.19 kB	
Tools								
Name	Build	CI/CD	SCM	Dependency Manager	Platform	ORM	IDE	Code
android	None detected	None detected	Gt	Gradie	AWS	GraphQL		
арі	None detected	Docker	Ge	Composer NPM			Generic	
app cron sync	Webpack	None detected	Gt	MPM		GraphQL	Generic IntellU	
data export	Welipack	None detected	Ge	HPM				Eslint
105	Meke XScheme	Travis	Gt	None detected			XCode	
iPhone app	Kicheme	None detected	GR	NIPM	ANS	GraphQL	Mode	
Core server	Olike Mate	Tani	Ga	Grade				
lambda get providers	None detected	None detected	None detected	None detected			Intella	
lambda export handler	Webpack	None detected	Gt	NPM			Intelki	Esliet
webapp_core_sdk_laye	None detected	None detected	None detected	None detected			Intella	
MQ message handler	Webpack	None detected	Gt	NPM			Generic	Epint
client webapp	TypeScept Wetpack	Dicker	Ga	Camposer NPM			Generic	
Windows desktop app	None detected	None detected	Gt	Nu/Get			VisuatStudio VSCode	



Step 4: Delivering a risk report and action plan



A risk report and action plan that shows

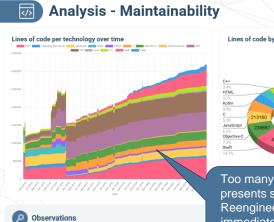
- Scalability of the tech asset, cloud readiness, build up readiness
- OPEX and CAPEX estimated risk
- Bottom-up analysis leading to better accuracy
- Deep tech background to factualize risks and recommendations

 $(\bigcirc$

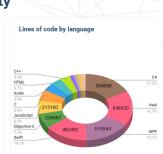
<complex-block></complex-block>	Finder	verall Score from (Online Asse	essments	40 8 Sun 1:44	™ ବି Q IE	
<complex-block></complex-block>			Cybersecuty	a a Software	e Development		
<complex-block></complex-block>		Development		Intellectual Property			
<image/>	E	Property	79 Total critical impact		Section Section		
Pic current vulnerabilities and implement ISMI based on applicable instructivy standards Implement and enforce accura development process with ball in code procession procession on the standards Run an external presentation test to verify remediation of vulnerabilities Implement procession Grade tast Bit mere API version Implement procession Grade tast Bit mere API version Implement procession Develop and motionary as part of CVCD Implement procession Develop and motionary as part of CVCD Implement procession Review aff the starting aspectation (starting) parts and releasing and finedode, tang and complement automated testing parts of the complement parts and the starting parts of the motionary parts and the starting parts of the complement parts of the starting parts of the complement part of the complement parts of the starting parts domain name. Part in place DSS corrests to small domain name. Implement parts of the starting domain name. Expect task parts to the starting domain name. Implement parts of the starting domain name.							
Inclusion Inclusion Inclusion Inclusi	Finder	Suggestee	d Action Pla	n		• • •	un 1:44 PM (\$ Q IE
Interpreter and only one secure development process with bolk in order privilege principies Image:	ft Finder				Q3	G	un 1:44 PM 중 Q : 프
Run as stemaj penetration test to verify remediation of vulnerabilities Image: Ima	f Finder	Recommendati	ions		Q3	G	un 1:44 PM 🗢 Q 🖅
Sincle test the new AP version Image: Imag	d Tinder	Recommendati Fix current volverabilities and implement IS security standard Implement and enforce secure development security currentor, security envelopment	ions SMS based on applicable		Q3	G	un 1:44 PM 🗢 Q া 🚍
Clean the code/files/dependencies and begin reflectionry/porting legity code. Implement automated code scanning as part of CICC Develog and implement automated code scanning as part of CICC Develog and implement automated code scanning as part of CICC Develog and implement automated code scanning as part of CICC Develog and implement applement specific and commercial) iscense terms and if needed, term is to complex. Previous all reducting to the complex. Previous all reductions the reduction and reductions addition The leadons are the code domain comes. Previous all reductions the reduction and reductions addition The leadons are the code domain comes. Previous all reductions the reduction and reductions addition Previous all reductions the reduction and reductions addition Previous all reductions the reduction and reduction and reductions addition Previous all reductions the reduction and reduction and reduction and reduction additions Previous all reductions the reduction additions Previous additions P	et Finder	Recommendatil	ions SMS based on applicable Int process with built in code of druites and least		03	G	un 1:44 PM 🗇 Q 🏣
Implement automated code scanning as part of CrC0 Develop and implement automated toticity policy including unit tests, Inversesses in the on-functional assessment of testing policy including unit tests, Review all Relectory tests in transmitty? at fictory and relevancy Review Rev	et Finder	Recommendatil Fix cumert universatilises and implement 15 excerting standard Implement and refores secure development excertly scanning peer reviews segregator privilege principles Run an external penetration test to verify re	ions SMS based on applicable Int process with built in code of druites and least		Q3	G	w 1:44 M ♥ Q IE
Develog and implement auctionant testing policy including unit tests, non-regression in on-diversity approximation approximatio	et Finder	Recommendation Fits current outwardslifes and implement is security standard implement and reforce secure development processing prescripts Run an external pertention test to verify re Smale test the new API version Clamb teacher filter development Clamb teacher filter development Run and Reservers and Reservers Run and Run and Run and Run and Run and Run and Run Run and Run and Run and Run and Run and Run and Run and Run Run and Run and Run Run and Run and	IONS SMS based on applicable or process with built in code or of duties and least emediation of vulnerabilities		03	G	wi 1:44 M ♥ Q IE
Interview Interview Interview Interview Interview Review Interview Interview Interview	et Finder	Recommendation Fix cument vulnerabilities and implement 15 excernity standards Implement and enforces secure development excluty scanning peer reviews segregatory privilegies Ruin an externial penetration test to verify re- Smake test the new API version Clean the code/Tiles/dependencies and be gaven to de	Ions SMI based on applicable Information of duties and least on of duties and least Information of university of the second seco		03	G	wn 1.44 PM ♥ Q. JE
Review Development team in "country 2" efficiency and relevancy Put in place DSS controls the means that acknet external discuss addition to the source of the first weefline and approved. Extend toolemark protection to the Steel loop and the Steel softmare tops and doplane other external domain names	et Finder	Recommendation	Ions SMS based on applicable of the second s		03	G	un 1:41 PM 🗢 Q 🗷
Pet la glace OSS contrate la emuse that each antennal source addition to the source code la fast vertified and approved Exceed tradeater lapacitica in the See language the Steel software lago and acquire stater essential domain name.	et Finder	Recommendation	Ions IIII Stated on applicable IIII Stated on applicable IIII Stated on applicable IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			G	un 1:44 IM ♥ Q. IE
to the isource code is first verified and approved Extend trademark protection to the Steel software logo and acquire other resential domain names	et Finder	Recommendation Fix control columnities and implement 53 security standards Implement and enforce secure development socially sciencing per reviews tegraphics and the security sciencing per reviews tegraphics Run an external perstation test to verify re Sincike test the new API version Run the code/Test/Adopendencies and beg lagary code Implement and code sciencing as part Develop and implement actional assess Review and Interface on performance testing pen-regression from functional assess Review and Interface on performance on Review and Review and	Ions IIII State of applicable IIII State of a population of durine and least IIII State of a state			G	un 1:41 PM 🗇 Q 🗷
logo and acquire other essential domain names	e Finder	Recommendations and implement to security scalaring, per reviews tegraphics intermet and reforce secure development review prospect. Run an external generations test to verify re Smoke test the new API version Develop and implement automated testing non-regression non-functional assess. Review band implement automated testing non-regression non-functional assess. Review Develop and implement automated testing non-regression non-functional assess. Review Develop and implement automated testing non-regression non-functional assess. Review Development testing in "sourity 2" in Review Development testing in testing i	Ions SMS based on applicable of drafes and least of drafes and le			G	un 1:44 PM. 좋 Q IZ
	Tinder	Recommendations and implement to resummer sub-induced limits and implement to induced limits and an once accure development provide principles. An in a sterning internation test to verify re Smake set the new API version. Index the set the new API version. Receives and implement automated destances and he legary code index international aspects. Revise band implement automated testing newsign and implement tests in for course 27 eff Put in place OSS controls to ensure that as to the source code is first writefield and append Extended mademate presentation to the SMe IoO Extended mademate presentation to the SME IO Extended mademate presentation to the SME IO Ext	Ions Interpretation of vulnerabilities Interpretation of vulnerabilities Interfactoring/porting Interfactoring/por			G	un 1:41 PM 🗇 Q 😥
	Tinder	Recommendation	IONS International Internation			G	

The power of data, leading to insightful recommendations

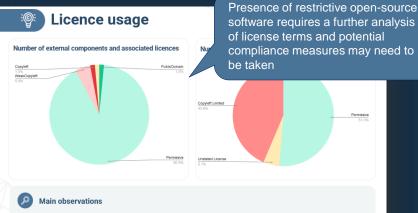




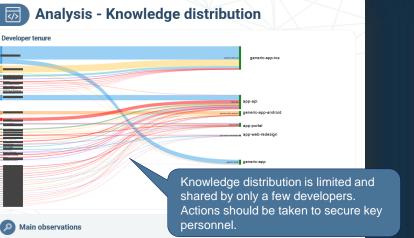
The number of lines of code is significant at 3.281.478 (note: the inclusion inflates the actual number of supported lines of code). PHP is the most gr diversity of technologies can be found within the source code presenting a characteristic of the supersenting a char



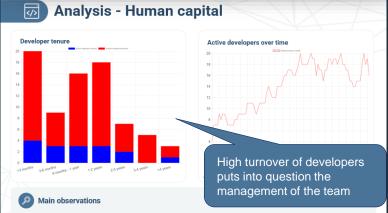
Too many coding languages presents scalability challenges. Reengineering to be planned immediately to address scalability issues.



The source code analysis identified three types of limited copyleft licenses attached to 17 components. The strict copyleft licenses require that any changes be released as free software, while the limited copyleft licenses require this only in certain cases. For example, the Mozilla Public License (MPL) only requires publication of changes to existing files, while added files can be licensed in any way. The LGPL (Lesser General Public License) for program libraries requires only that changes to the library itself be licensed under the LGPL.



The vast majority of contributions are made by the Country 1 team with 100% ownership for all mobile applications. Some redundancy with the team in Country 2 exists on the two most critical repositories Web + API



A high turnover rate can be observed with more than half of contributors staying less than 1 year. This can have a negative impact on the code quality.

 Country 1 team:
 14 active developers [53 no longer active]

 Country 2 team:
 2 active developers [7 no longer active]

An illustrated overview of detailed data

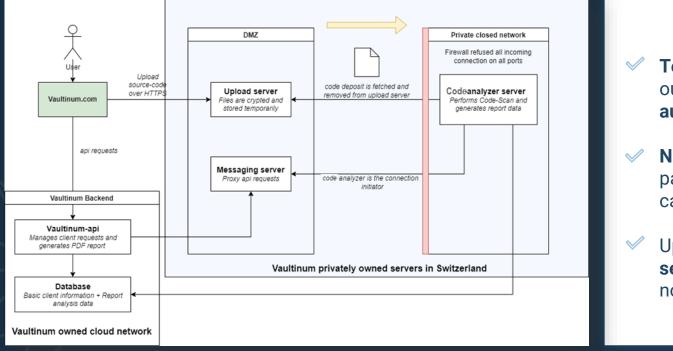




100% secure - 100% of the time



- Securing source code for 40 years with the biggest European software vendors
- Secrecy of the source code assured through a strict workflow
- No human access to the source code
- Letters of guarantee and certificate of destruction





- No access by external parties. Only the scanner can read
- Upload made through secure server (no email, no SFTP)

• Trusted third party since 1976

• Sovereign servers in Switzerland

ISO27001
 eIDAS READY

Meeting your needs



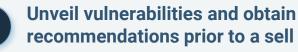


FOR A TECH COMPANY

Run a full tech health check



Ensure compliance with industry best practices





3

Obtain operational recommendations on action plan, timeline and cost



FOR INVESTORS



Gain critical insights about the value of the tech asset



Validate the scalability and cybersecurity of the asset



Identify short and long-term main areas of risk



Obtain operational recommendations on action plan, timeline and cost



Monitoring Progress

01980.000	E and a second
Vocania International	An and a sin airs and a second state (1993)
Note: Price	ater salam ater sine success of a constraints ater ater ater ater ater ater ater
BackerFind AFV Teners on and televise consulta- (01)memb	and an and a star with star star or events in second star and an and a star star
Comment & Call International processor	8 8 8
GPT Chub systems	0-0-0

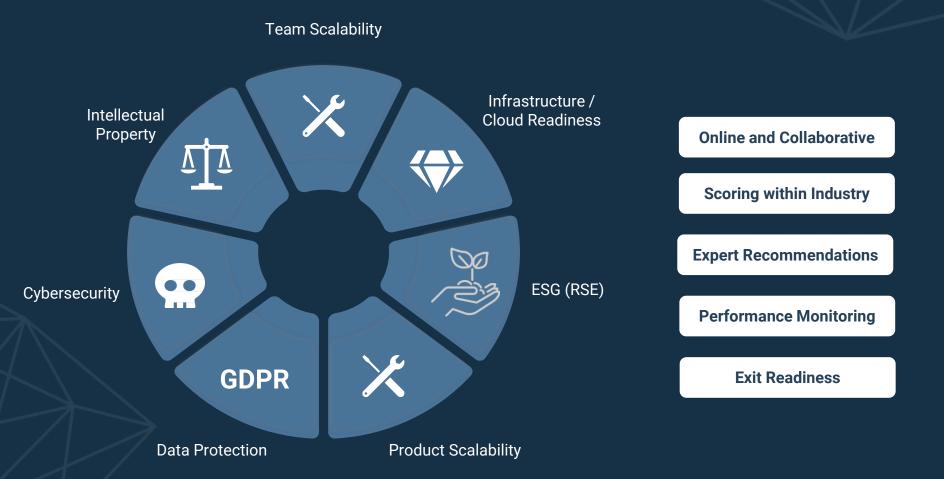


TECH to Value – Ongoing progress monitoring



Ongoing Assessment – What does it cover ?







About Vaultinum

Vaultinum is a trusted independent third party specialized in the protection and audit of digital assets.

Since 1976, Vaultinum has enabled thousands of digital creators and investors secure their innovations by :

- protecting their intellectual property
- ensuring the continuity of their business activity
- mitigating cyber and software risks

Double expertise IT and Legal • ISO 27001, eIDAS Ready

Contact us

Address

World Trade Center Route de Prés-Bois 29 1215 Meyrin, Switzerland

ontact@vaultinum.com	
^{one} 41 41 511 82 08	
ebsite ww.vaultinum.com	\oplus
ıkedin	

www.linkedin.com/company/vaultinum