



March, 20th 2024 | Frankfurt



Softwaregestützte Umsetzung des EUCS



Björn Fanta
Head of Research | Fabasoft

Fabasoft®

> whoAmI...



bjoern.fanta@fabasoft.com



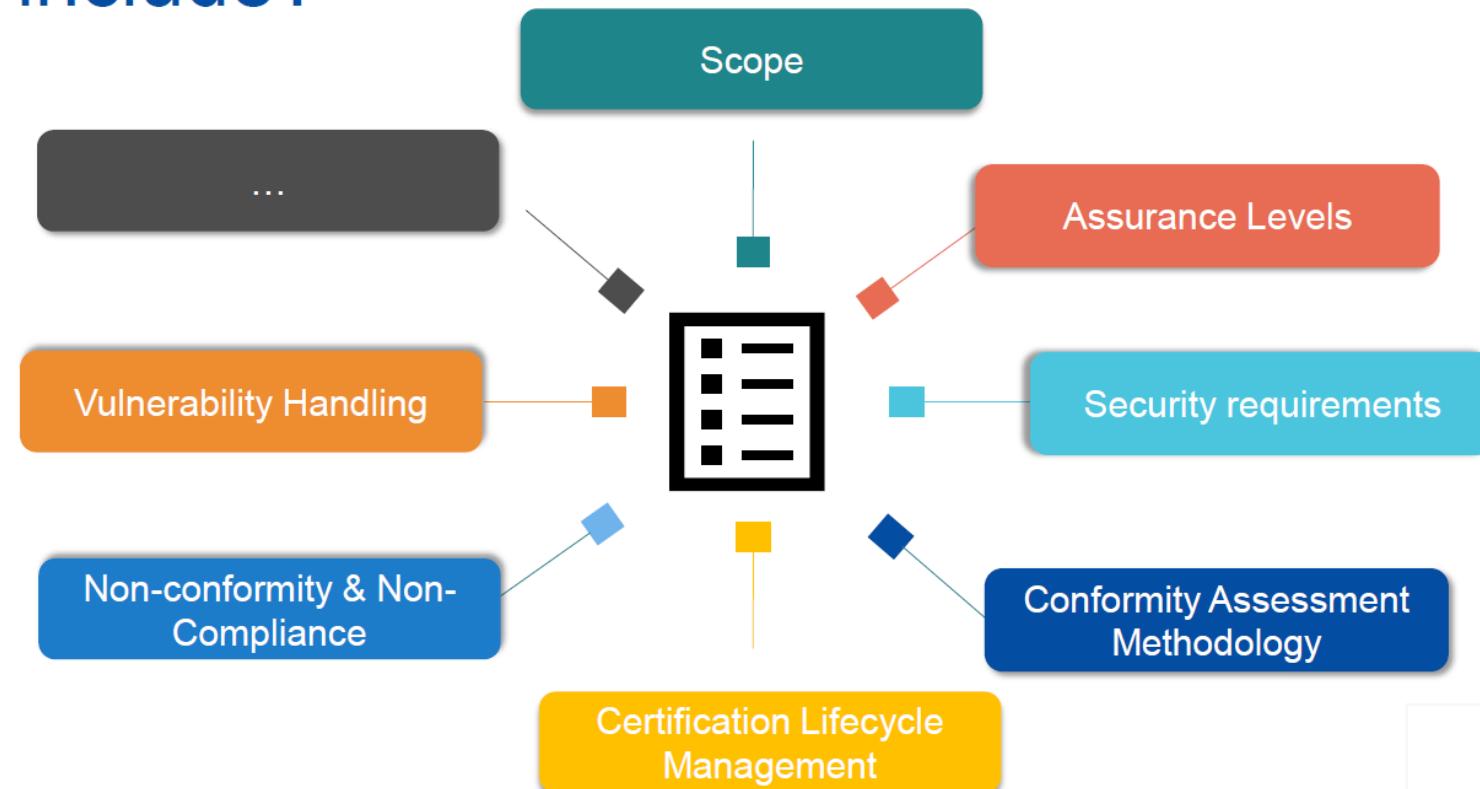
Was ich heute vorhave

Fabasoft®

- Was konnte uns MEDINA zum EUCS zeigen?
- Wie greifen wir diese Erkenntnisse in EMERALD auf?
- Wie denken wir, kann EMERALD zukünftige Audits – vor allem im Rahmen des EUCS – unterstützen?
- Worauf konzentrieren wir uns dabei?
- Ich möchte einen „Call to Action“ starten

- **Zertifizierungen in der Cloud:** Cloud-Dienste nutzen Zertifizierungen, um Vertrauen in ihre Leistungen zu schaffen.
- **Herausforderungen:** Die wachsende Komplexität erschwert den Zertifizierungsprozess sowohl für Cloud-Dienste als auch für Auditor:innen.

What does a cybersecurity certification scheme include?



<https://medina-project.eu>



Certification
metrics and
specification
languages



Automated
evidence
management



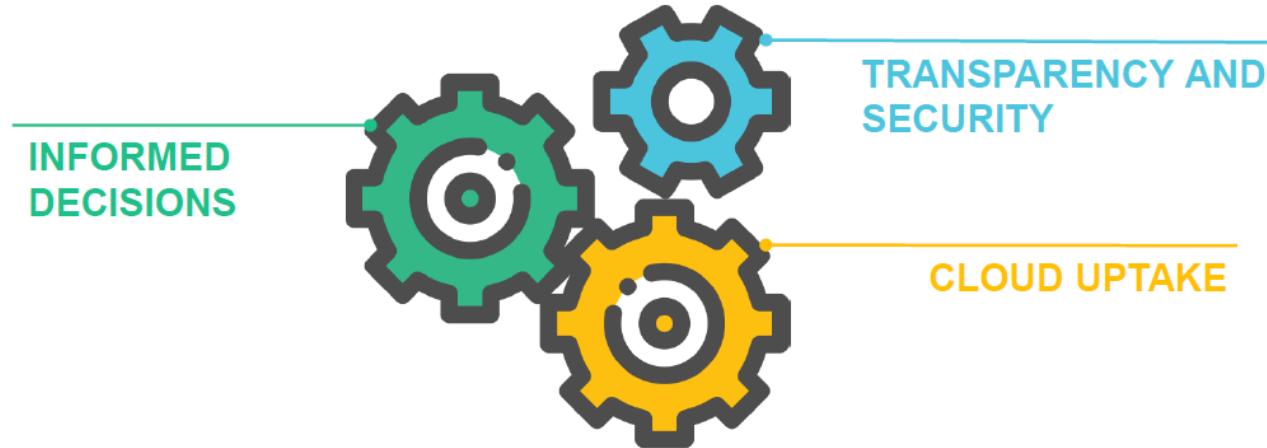
Lifecycle
management of
certificates



Continuous
compliance

- MEDINA betonte die Bedeutung von Unterstützung und Agilität bei der Überwachung und Bewertung von Cybersecurity-Audits.
- Automatisierung spielt eine große Rolle und ist mit geeigneten Tools durchaus möglich.

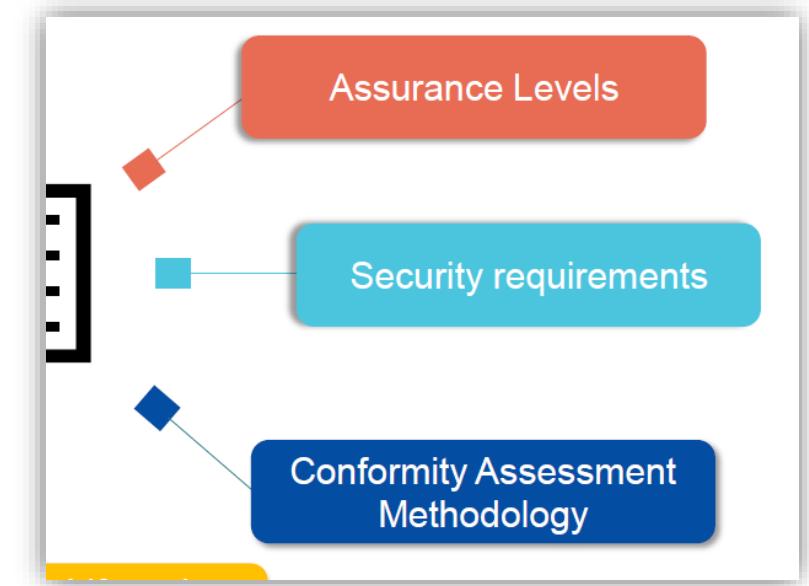
Customer in the first place



- Technische Anforderungen

vs

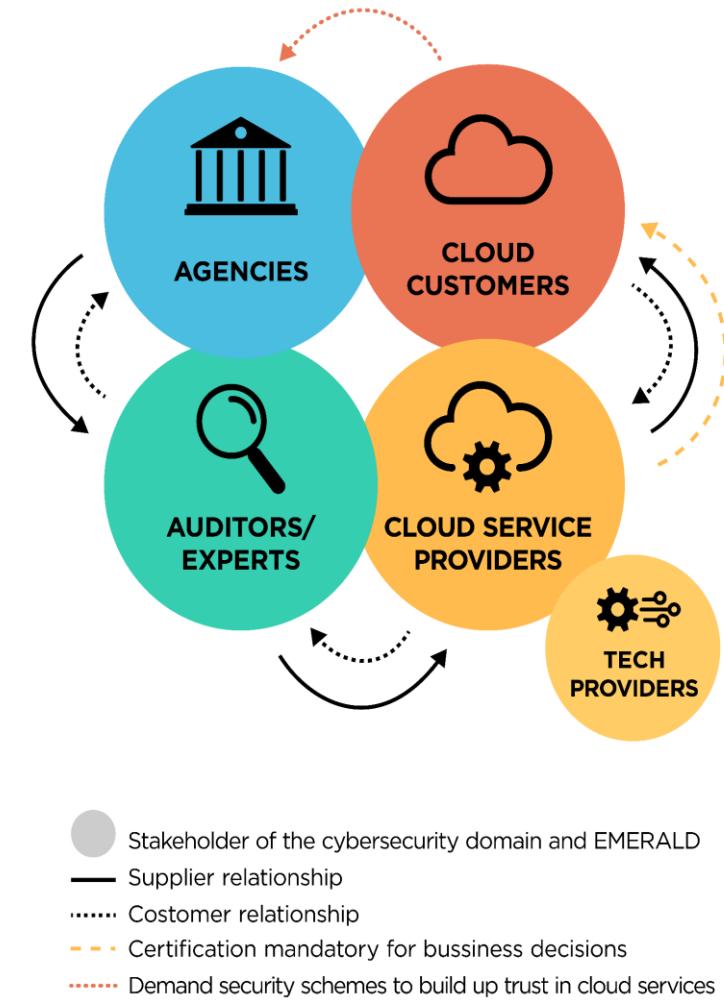
- Organisatorische Anforderungen



EMERALD (2023 – 2026)

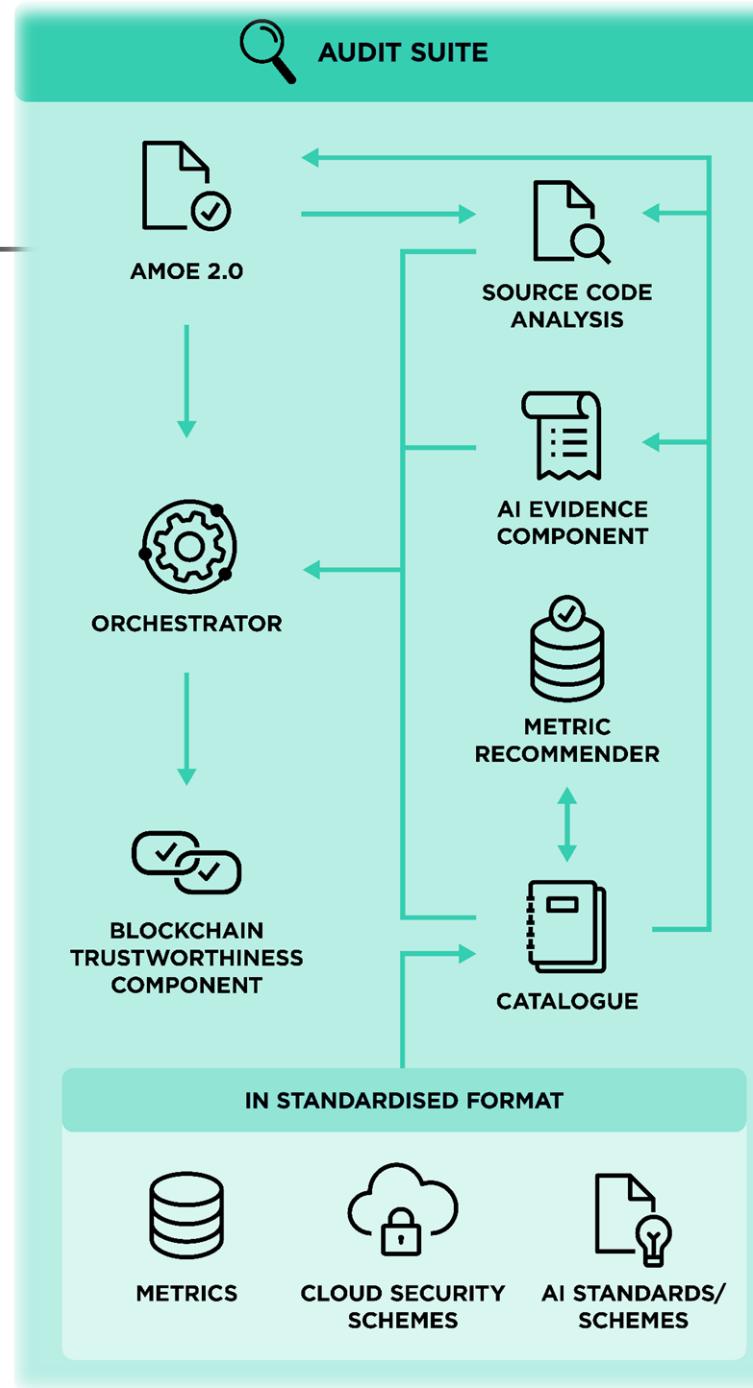
Fabasoft®

- EMERALD beschreibt, wie ein Certification-as-a-Service (CaaS) Ansatz alle Stakeholder im Audit unterstützen kann.
 - Evidence Management: Verwaltung von Nachweisen für kontinuierliche Überprüfungen.
 - User Interaction: Transparenz und Nachvollziehbarkeit für alle Beteiligten.

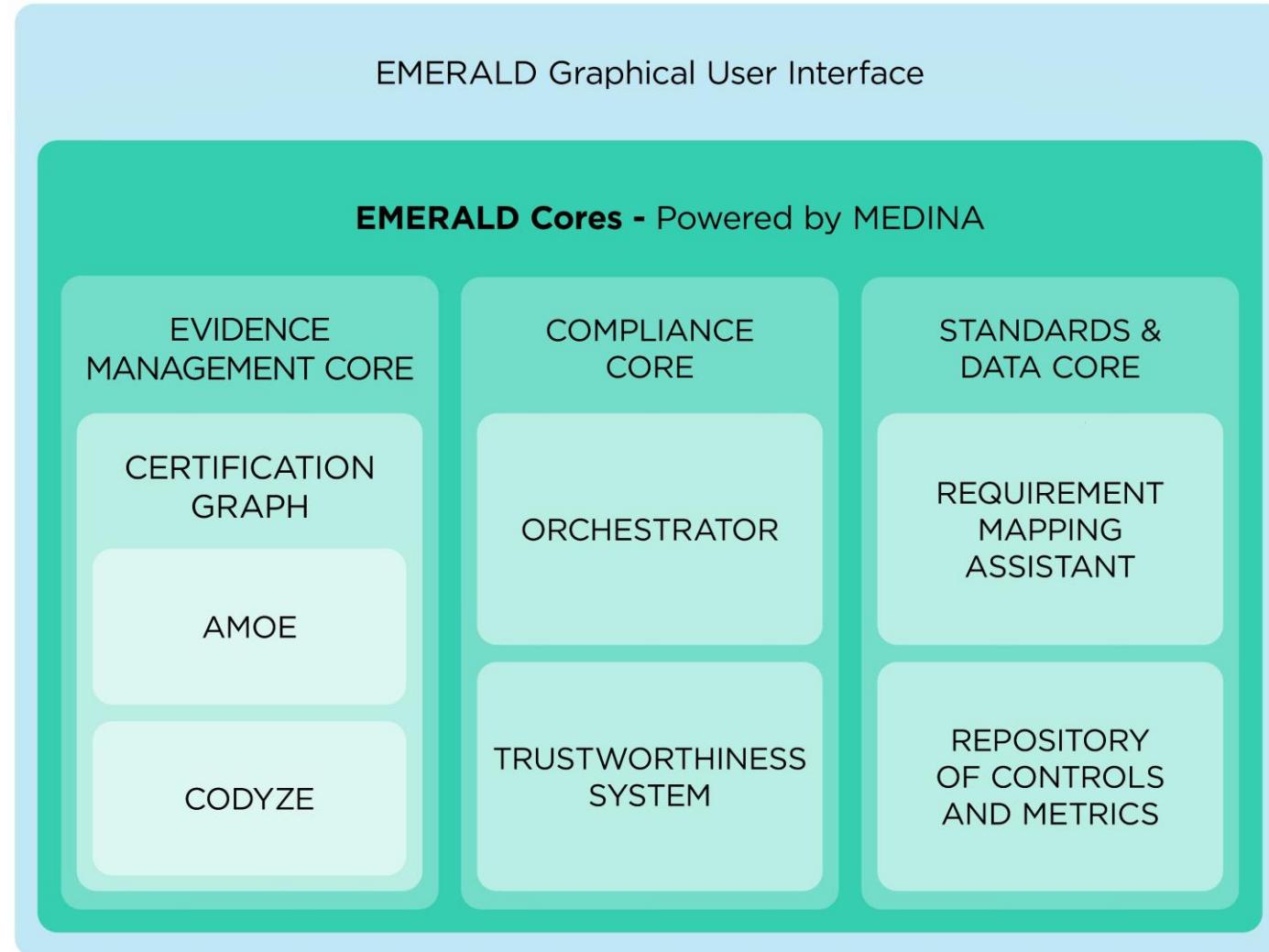


EMERALD

Erste Überlegungen

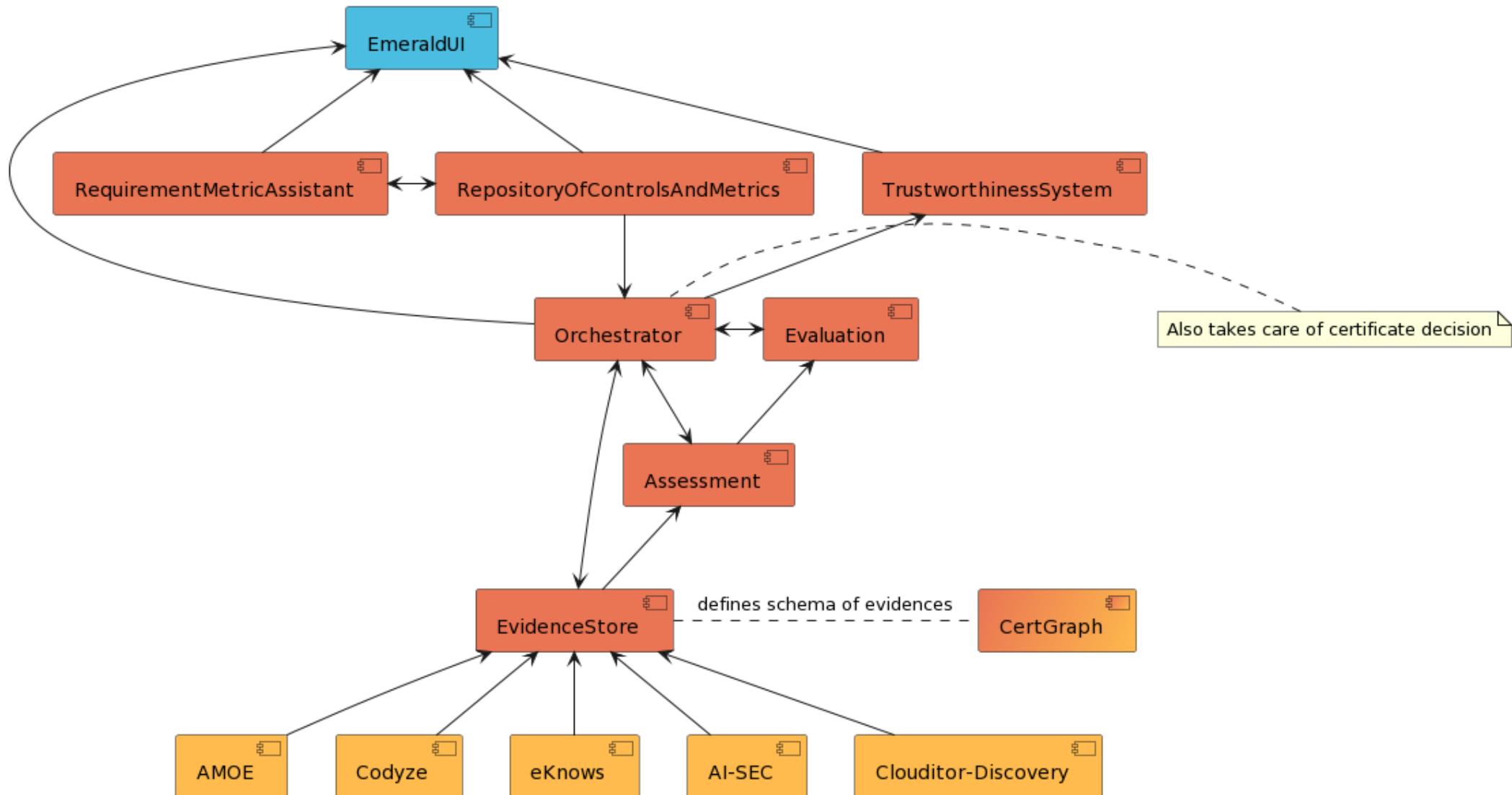


Fabasoft®



EMERALD Komponenten

Fabasoft®



- **Nachvollziehbarkeit und Protokollierung**

- Komponenten sollten alle Aktivitäten und Änderungen protokollieren.
- **Audit Trails** ermöglichen es, den gesamten Prüfungsprozess nachzuvollziehen.

- **Vertraulichkeit und Datenschutz**

- Komponenten müssen sicherstellen, dass sensible Daten geschützt sind.
- **Verschlüsselung und Zugriffssteuerung** sind wichtige Aspekte.

■ Automatisierung

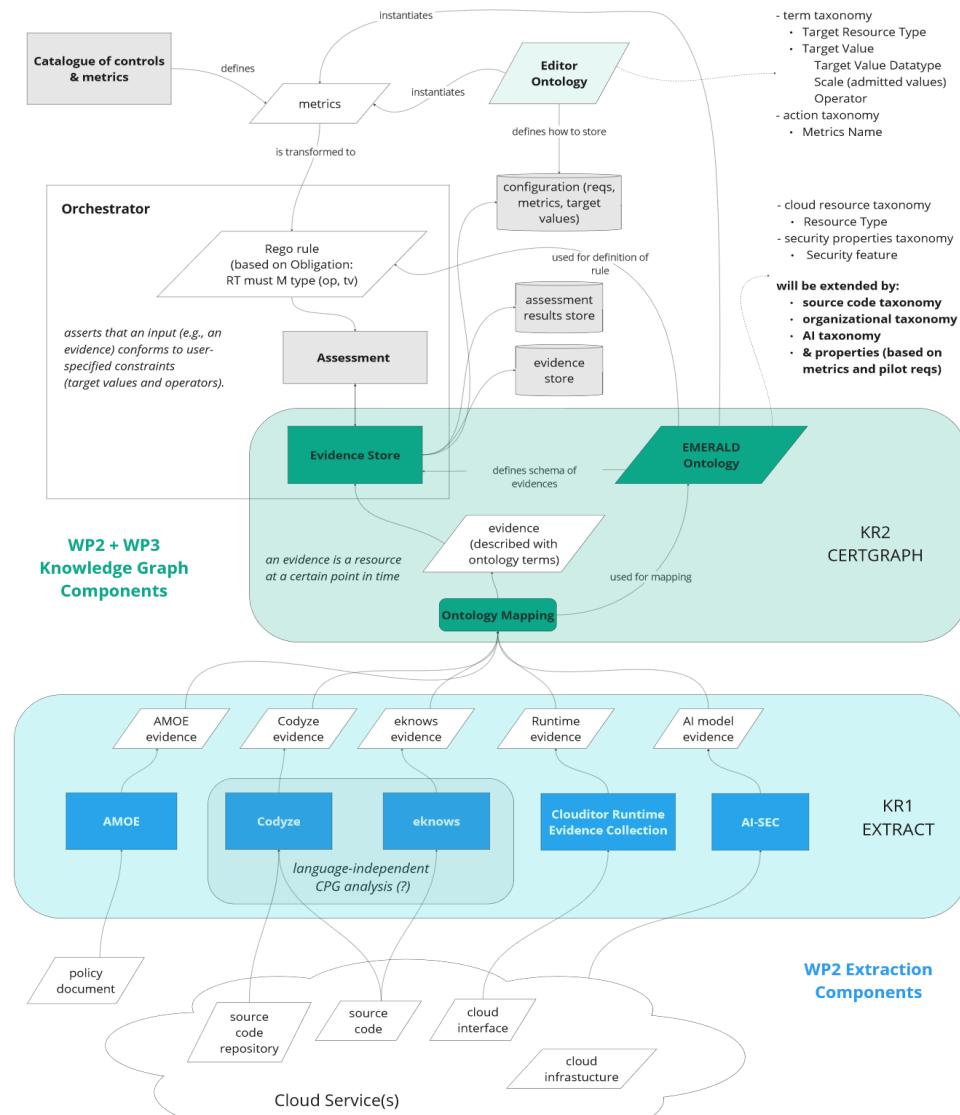
- EMERALD wird automatisierte Prozesse implementieren, um repetitive Aufgaben zu bewältigen.
- Fehler können minimiert und die Effizienz gesteigert werden.

■ Konsolidierung

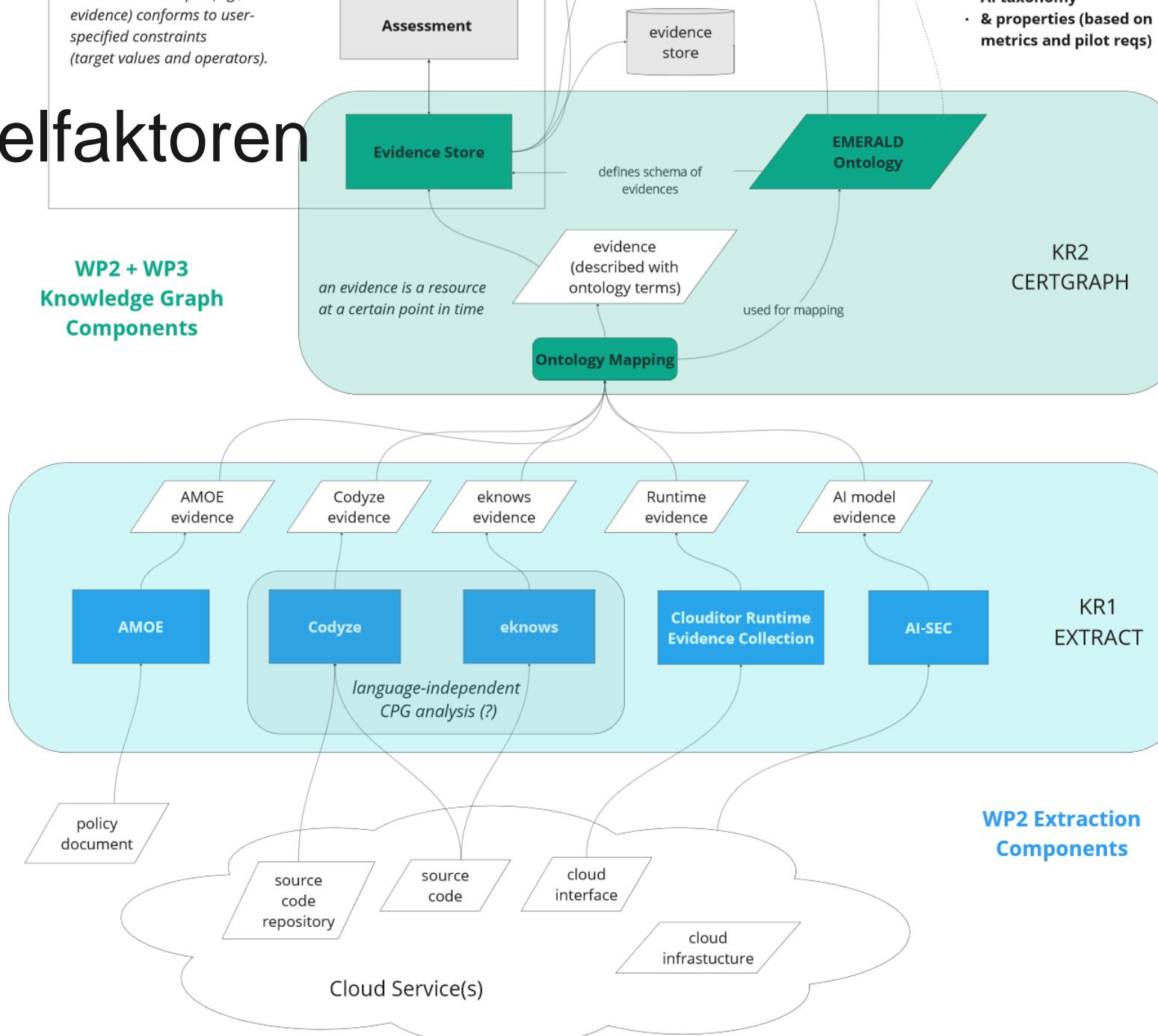
- EMERALD wird verschiedene Audit-Aspekte (Compliance-Prüfungen, Sicherheitsüberwachungen, ...) in einer einzigen Plattform ermöglichen.
- Verwaltung und Nutzer-Interaktion können erleichtert werden.

Schlüsselfaktoren

Fabasoft®

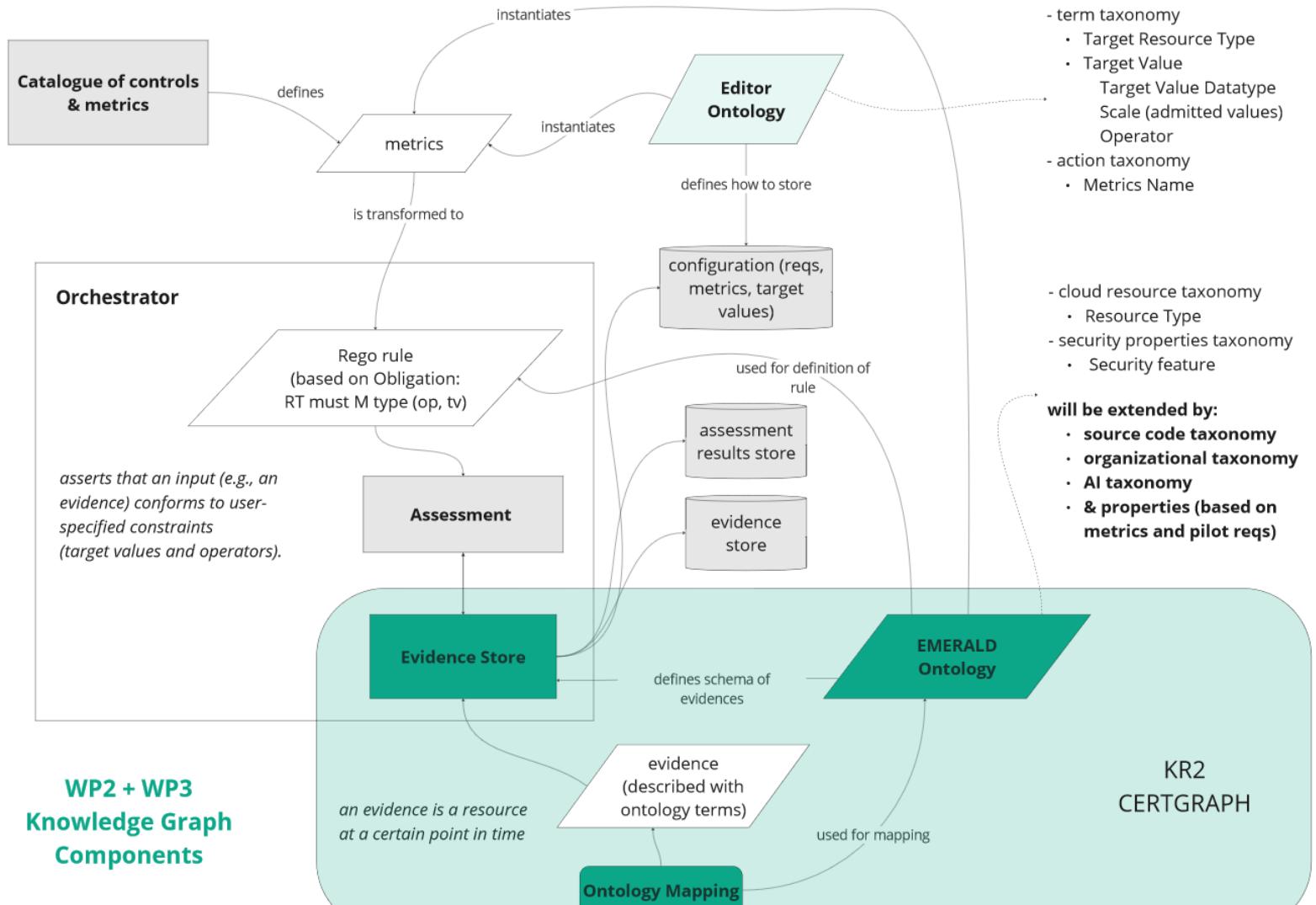


Schlüsselfaktoren



Schlüsselfaktoren

Fabasoft®

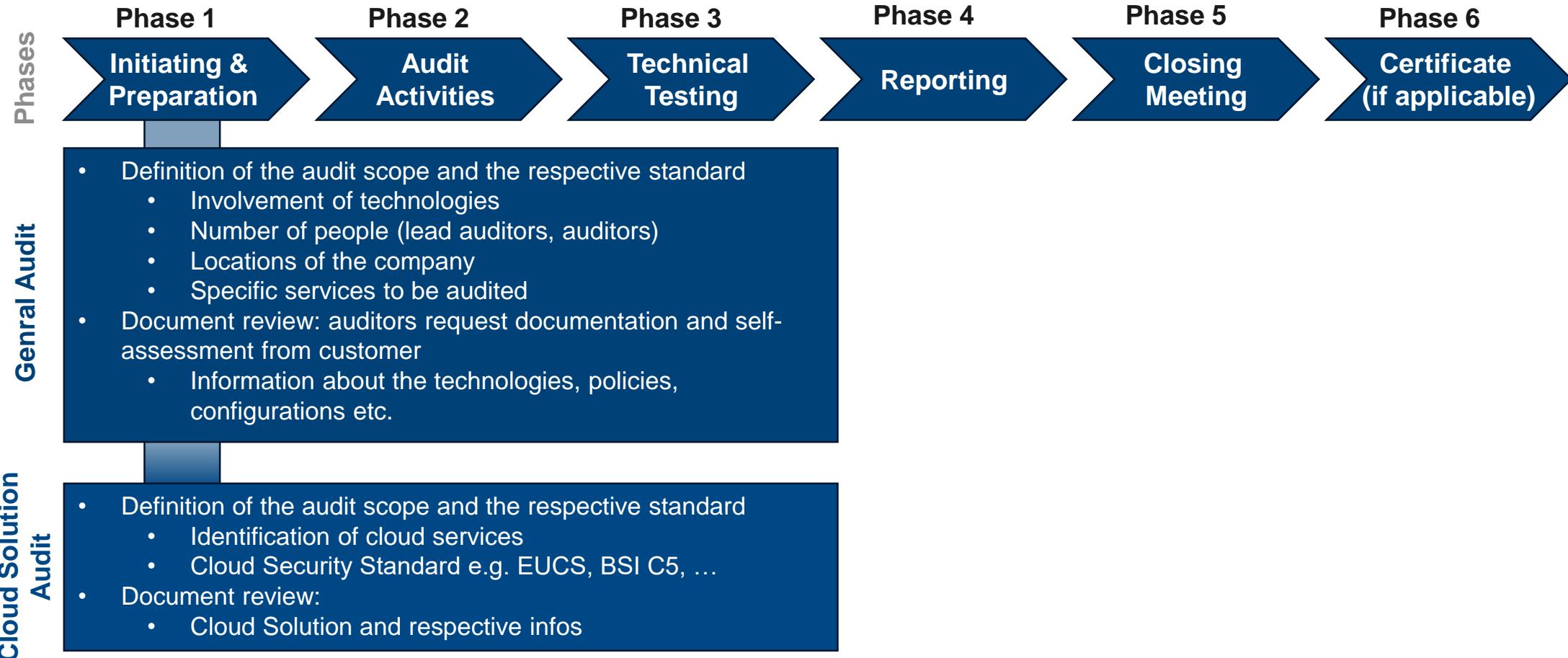


- Eine **intuitive Benutzeroberfläche** ermöglicht es Stakeholdern, Informationen leicht zu überprüfen und zu verwalten.
- **Visualisierungen** wie Diagramme und Dashboards können komplexe Daten verständlich darstellen.



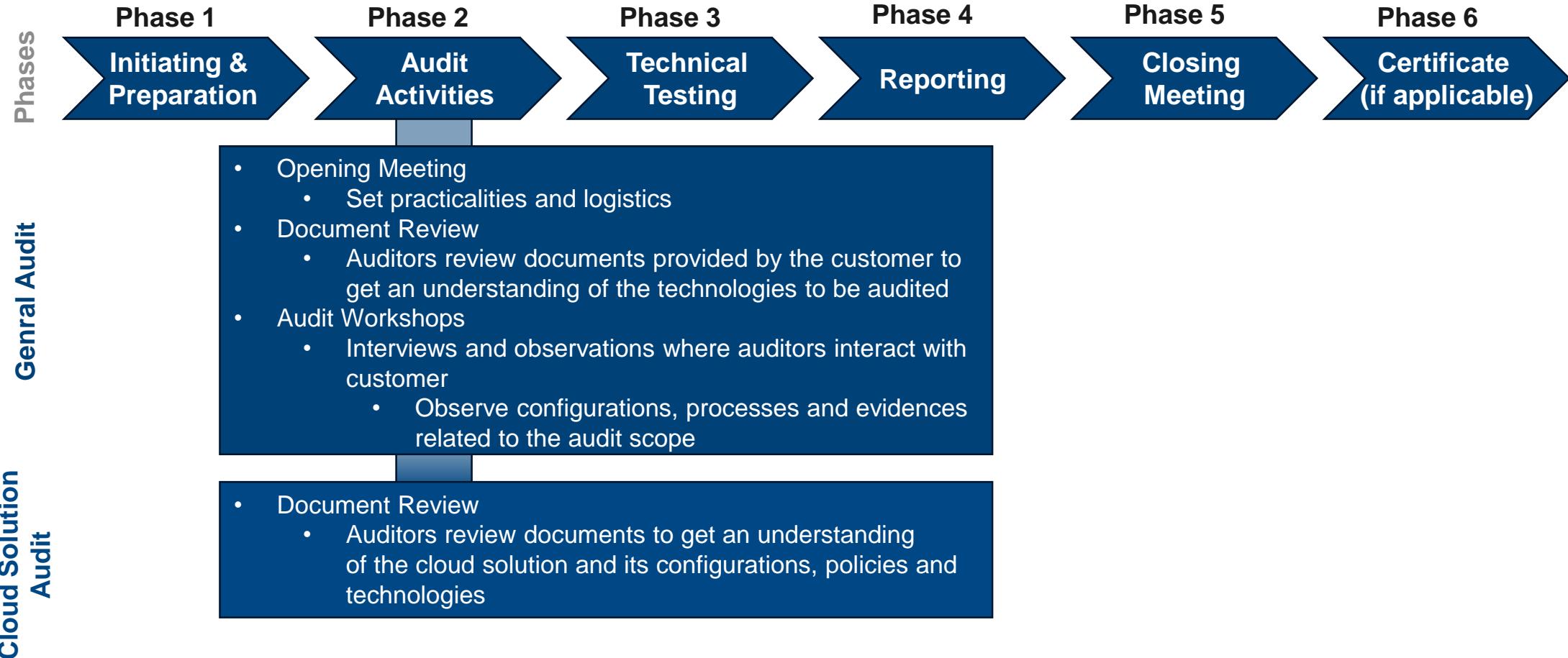
Phasen des Audit Prozesses

Fabasoft®



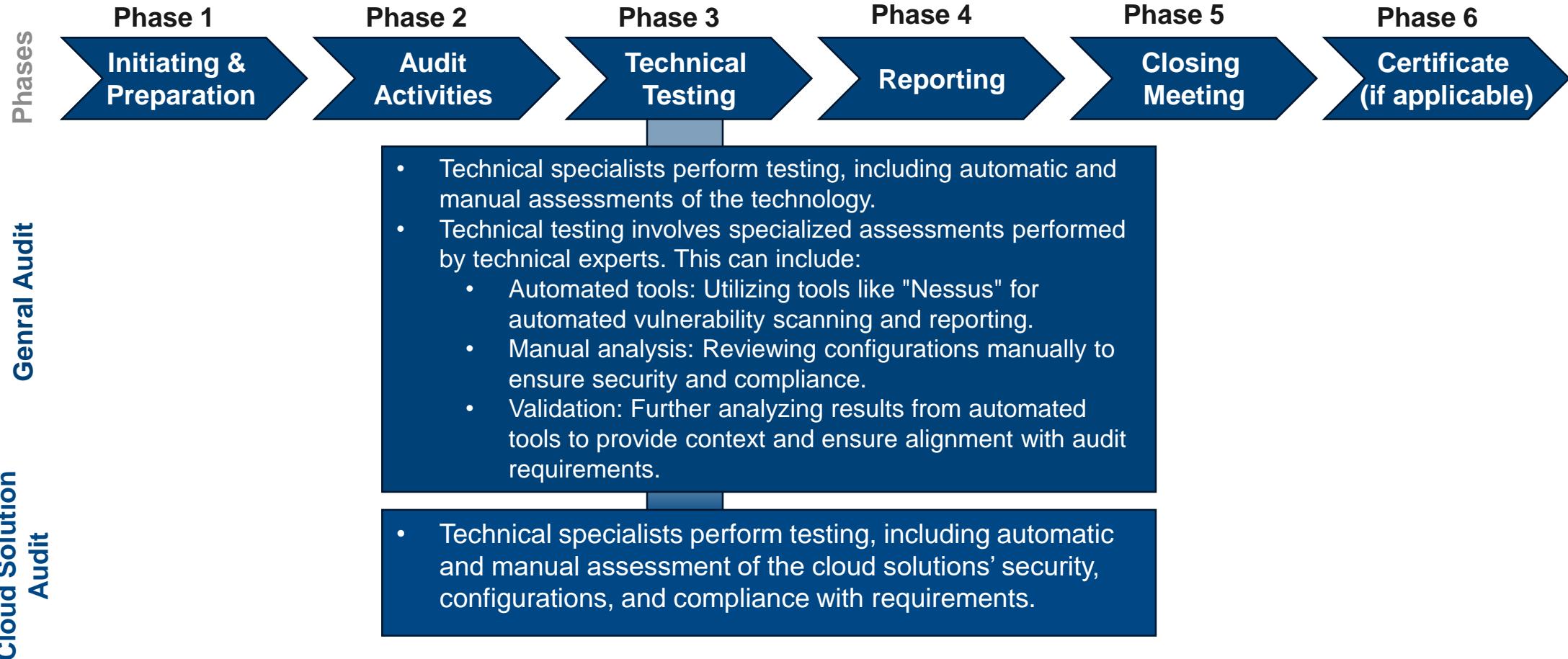
Phasen des Audit Prozesses

Fabasoft®



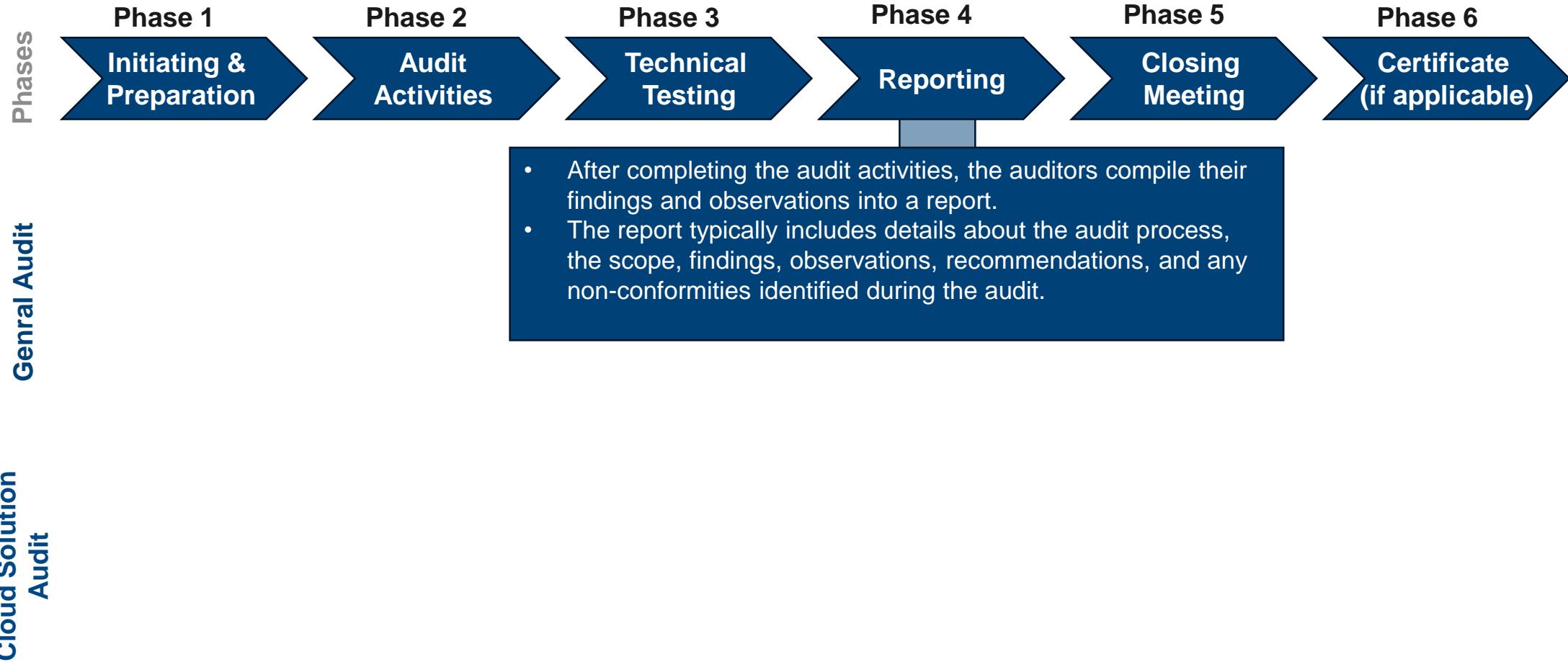
Phasen des Audit Prozesses

Fabasoft®



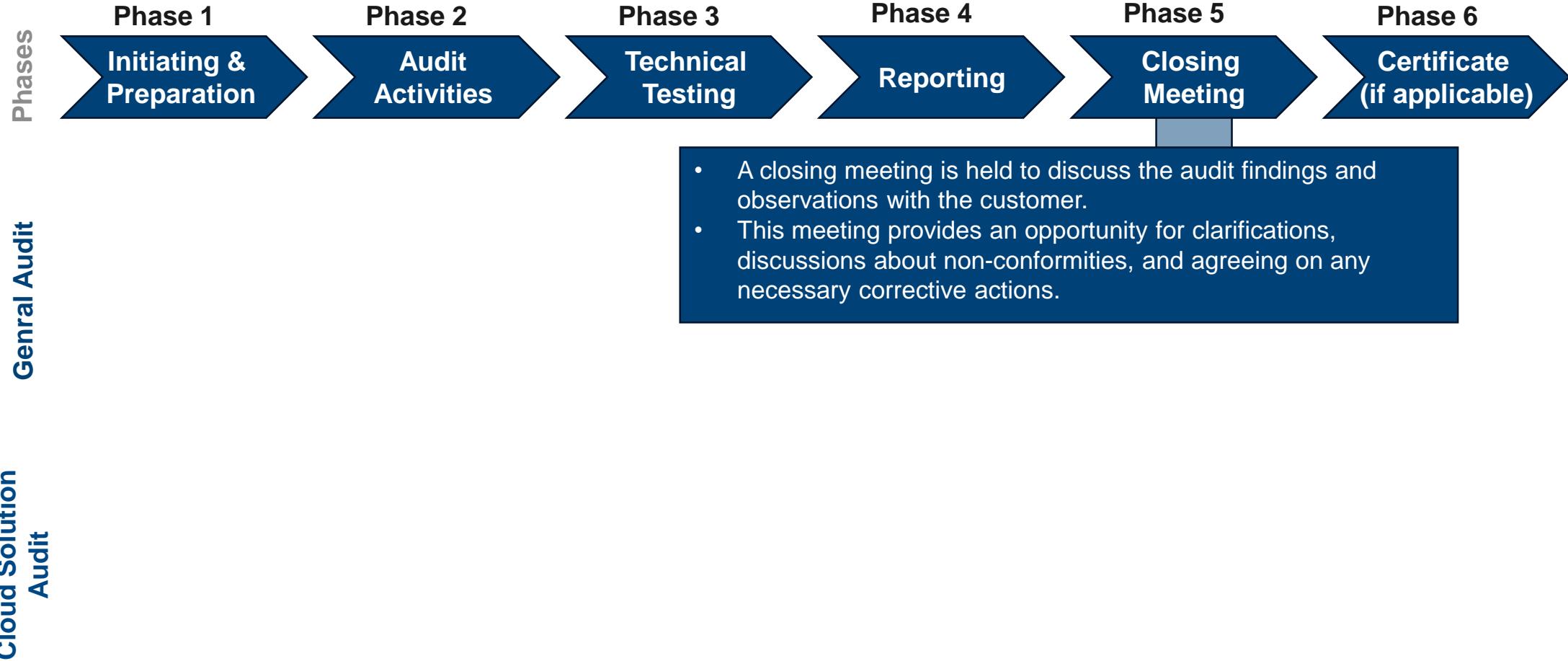
Phasen des Audit Prozesses

Fabasoft®



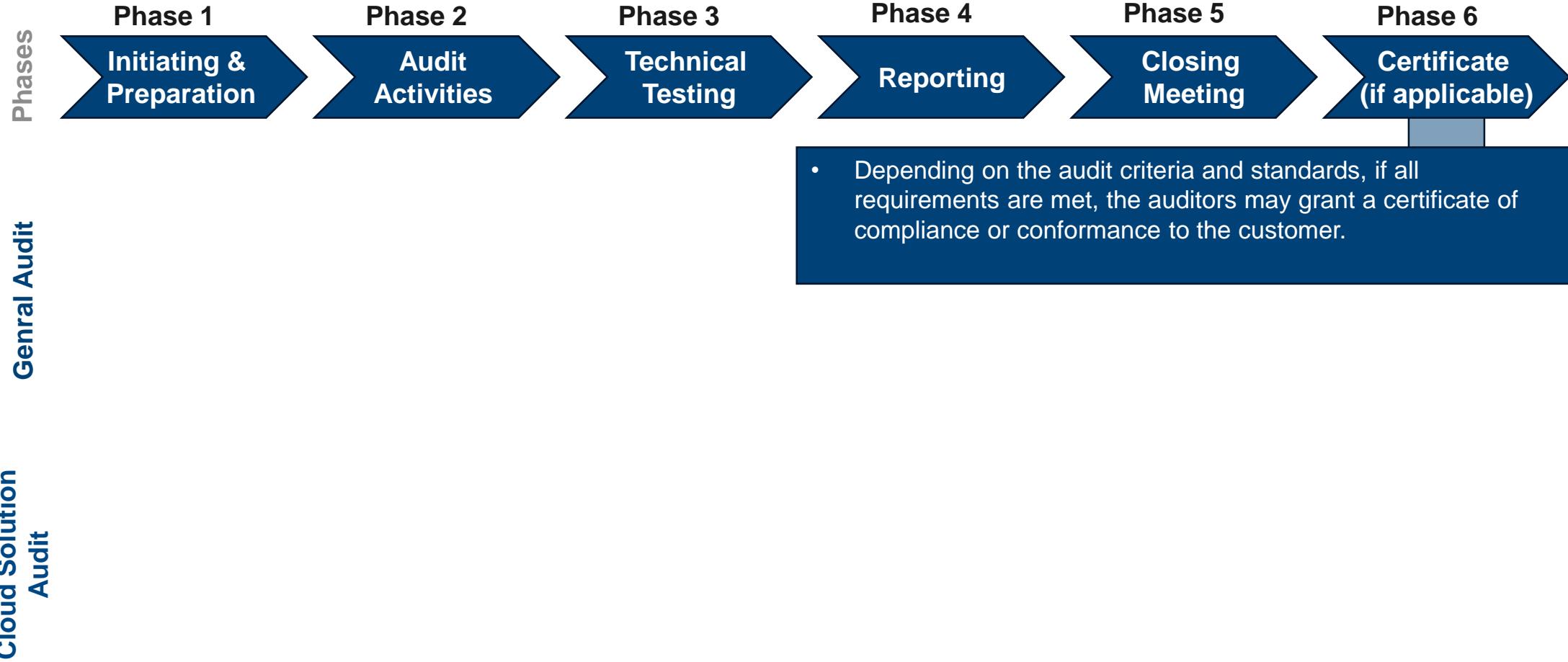
Phasen des Audit Prozesses

Fabasoft®



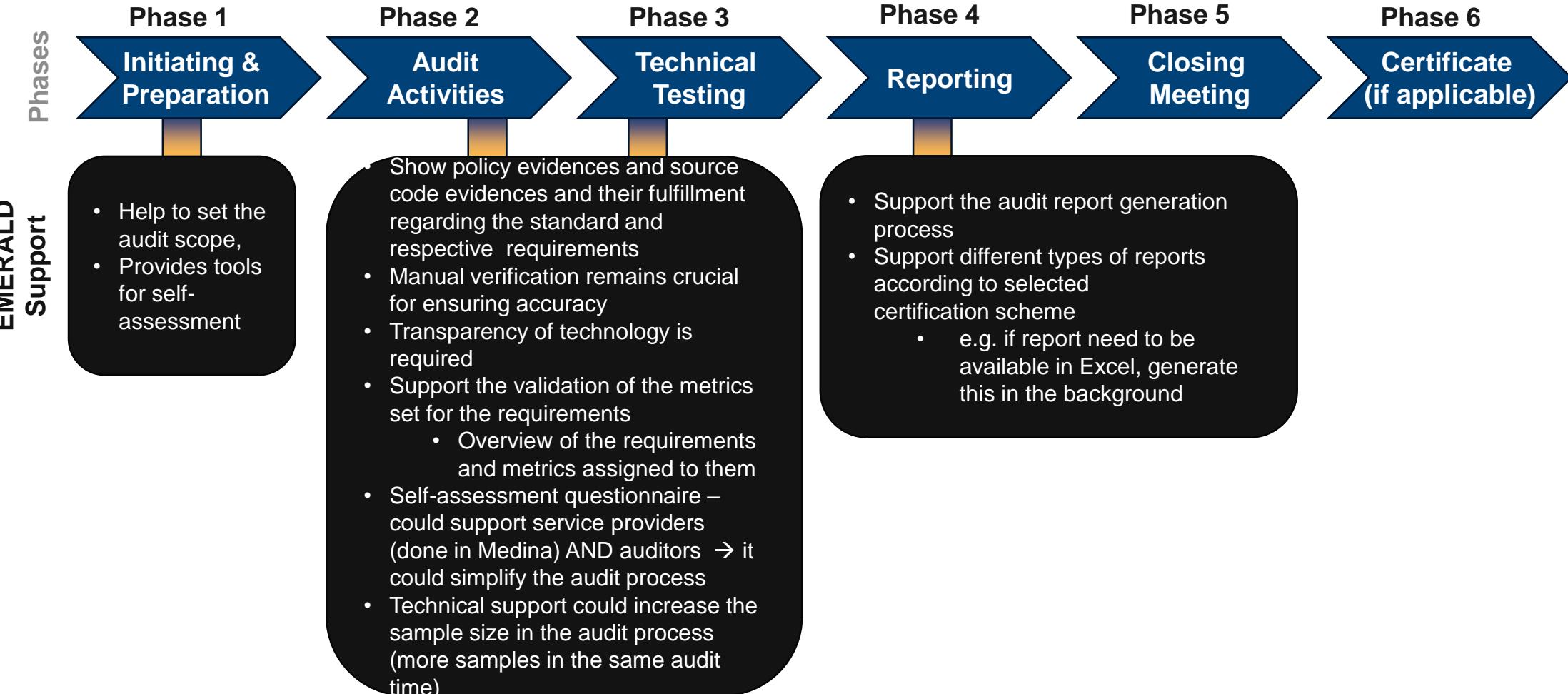
Phasen des Audit Prozesses

Fabasoft®



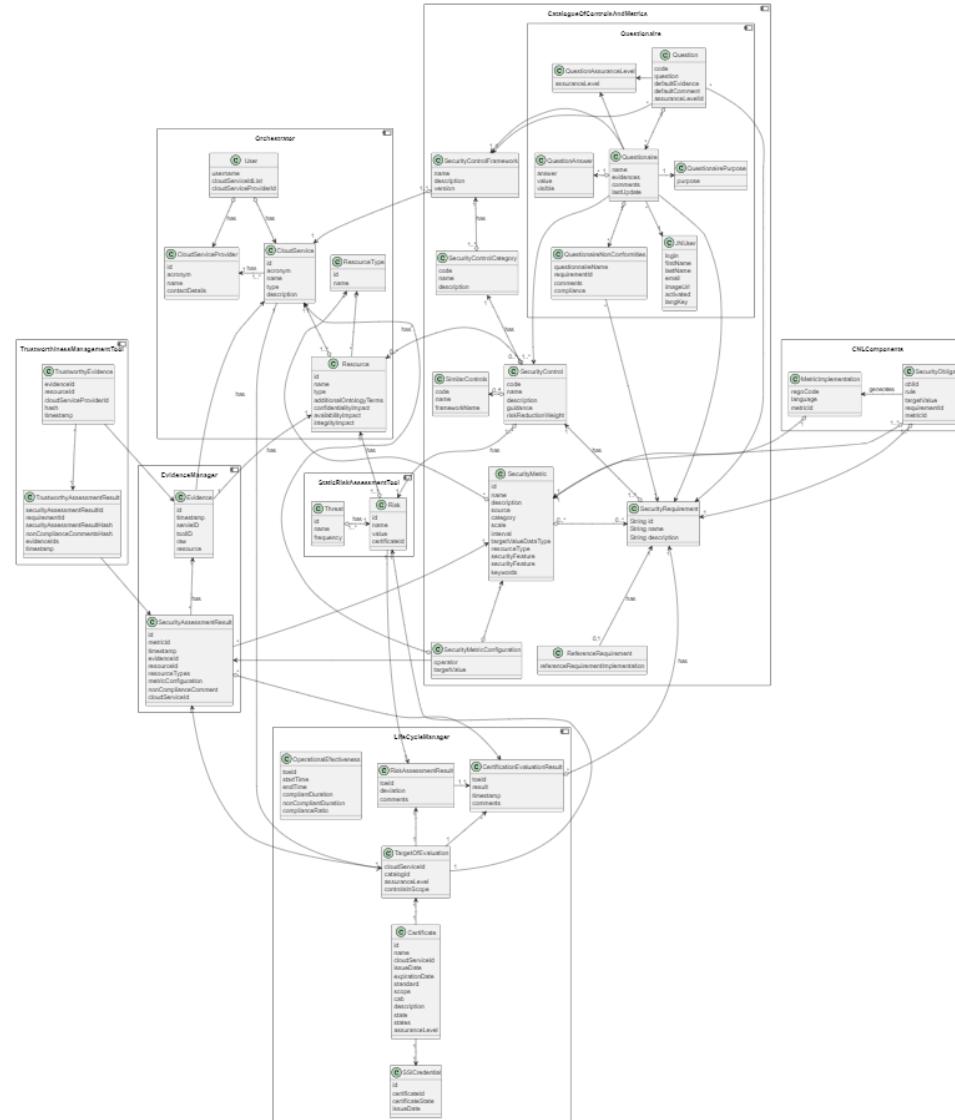
Unterstützung durch EMERALD

Fabasoft®



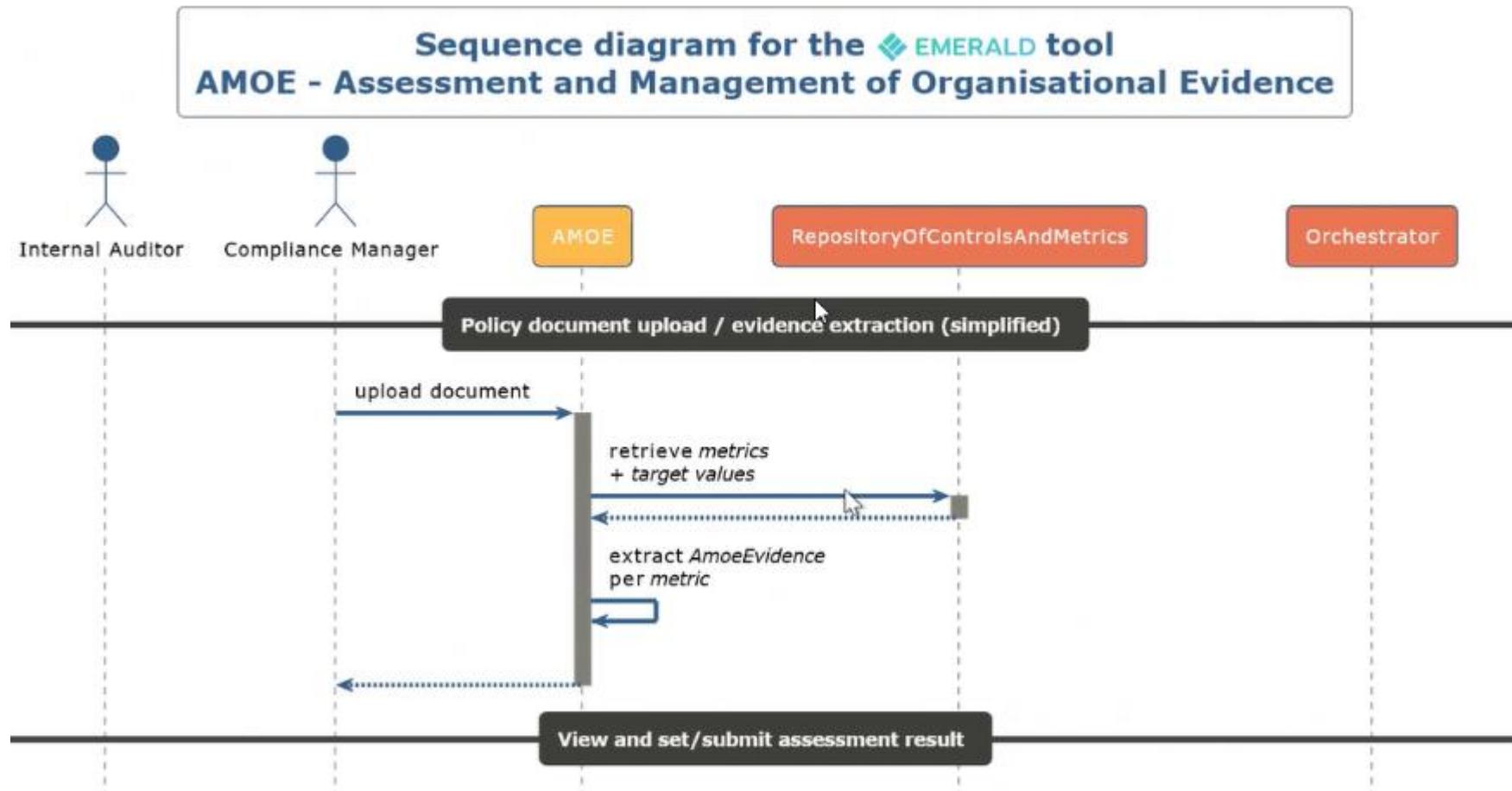
Wo wir uns derzeit befinden

Fabasoft®



Wo wir uns derzeit befinden

Fabasoft®



- **Hypothese:** es ist möglich, dass Softwareanwendungen in Zukunft auch die Komplexität von Audits reduzieren, ohne dabei die Integrität und Transparenz des Auditprozesses zu beeinträchtigen.

Herausforderungen: „Call to Action“

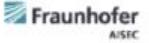
Fabasoft®

- Interviews über Nutzer:Innen Verhalten
 - in Bezug auf Transparenz und
 - Nachvollziehbarkeit
- Experten:Innen Meinungen zu Metriken
 - individuell
 - abgeleitet & allgemeingültig
- Test- und Trainingsdaten für Komponenten wie AMOE

PARTNERS



TECNALIA is the largest centre of applied research and technological development in Spain. It provides specific solutions to the major global challenges and transforms technological research into prosperity.



FRAUNHOFER AISEC, a leader in cybersecurity research, develops customized security concepts and solutions to protect businesses and the public sector against cybercrimes and to enhance data security.



Fabasoft PROCEO is a unique business ecosystem providing selected, powerful and seamlessly integrated solutions for document-intensive business processes.



CNR is the largest public research institution in Italy. Founded in 1923 it is focused on carrying out, disseminating and enhancing scientific and technological research in the main fields of knowledge.



SCCH is a non-profit COMET center that focuses on data and software science. Excellent research is conducted in both areas at SCCH. SCCH was founded by the Johannes Kepler University Linz in 1999.



The **Know Center** is a leading European innovation and research center for trustworthy AI and data science.



CaixaBank is the leading financial group in Spain and one of the most significant in Portugal. Constantly striving for the innovation, it will provide a large experience on cybersecurity in finance.



IONOS is the leading European digitalisation partner for small and medium-sized businesses (SMB).



CloudFerro provides innovative cloud services. The company delivers and operates cloud computing platforms for demanding markets, such as the European space sector, climate research and science.



OpenNebula Systems is the deep tech company behind OpenNebula, the only European open source Cloud & Edge Computing Platform in the market and a success story of EU-funded research and innovation.



NIXU, a DNV company, is a trusted cybersecurity services partner. We help our customers ensure business resilience with peace of mind across multiple industries, enabled by some of the best cybersecurity professionals in Europe.

GET IN TOUCH



www.emerald-he.eu



@EmeraldHEproj



emerald-he-project

Scan me!



PROJECT INFO

Overall budget: € 5,498,900

Start date: Nov 1st 2023

End date: Oct 31st 2026

Coordinated by: FUNDACION TECNALIA RESEARCH & INNOVATION

Tel: +(34) 946 430 850

Email: juncal.alonso@tecnalia.com



Funded by
the European Union



EMERALD

Evidence Management
for Continuous Certification
as a Service in the Cloud

Copyright © Fabasoft R&D GmbH, A-4020 Linz, 2024.

All rights reserved. All hardware and software names used are trade names and/or brand names of the respective manufacturer. Microsoft, Windows and the Windows Logo are registered trademarks of Microsoft Corporation in the United States and/or other countries.

Fabasoft accepts in this document no explicit or implicit responsibilities, in particular not as regards the completeness and correctness of the document. Fabasoft does not provide legal consultancy services. The outlined presentation serves to provide a rough overview of the requirements of GDPR and the offered products by Fabasoft.

This presentation contains data which relate to expected future developments. These forward-looking statements are normally but not exclusively paraphrased with words such as "expect", "assume", "plan" etc. If these assumptions on which the statements have been based do not prove true or if risks materialize – such as those mentioned for example in the issue prospectus or in the risk report or if the current situation changes in the future, the actual results may deviate from the result expected at present. The forward-looking statements assert no claim to correctness or completeness, are not updated and should therefore be treated with all due caution. This annual report has been compiled with the highest degree of diligence and all data published have been checked. Rounding, typesetting and printing errors cannot be excluded, however. The addition of rounded amounts and percentages may result in differences in figures calculated due to use of automatic calculation aids. The translation of the original German version of the report has been included for the convenience of our English-speaking shareholders. The German version is authoritative.

Changes, errors and mistakes are reserved.

