

How can technology support remote and analytical audit activities?



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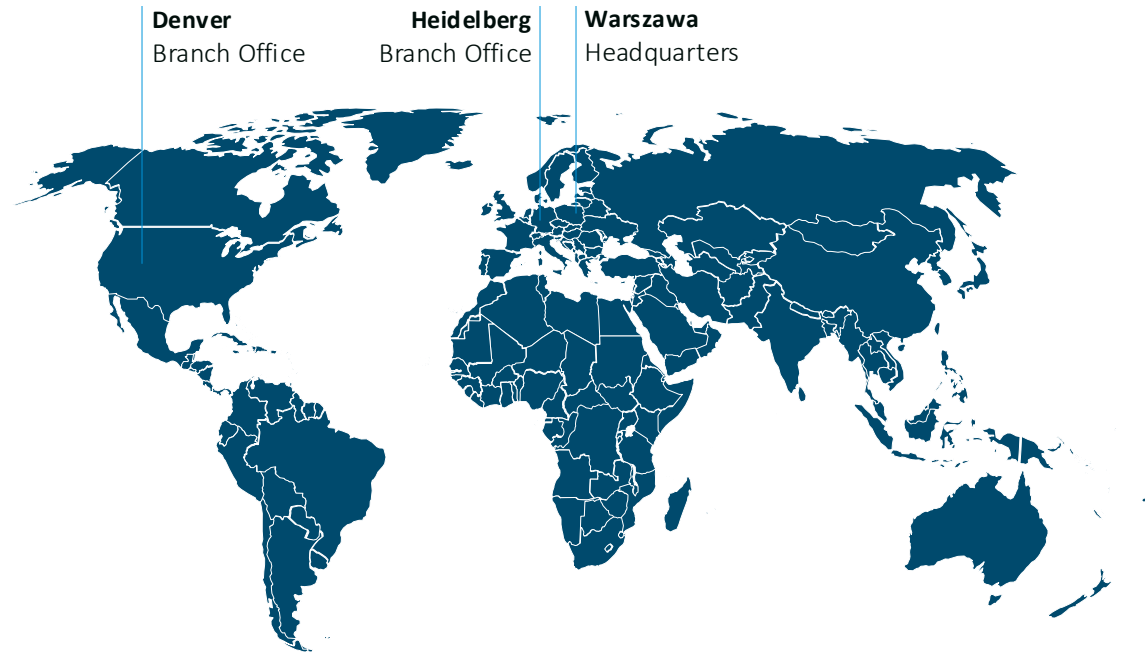


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20+

More than two decades of experience in serving world's largest companies



60+

Countries all over the globe have businesses executing our programs and projects



420+

Highly skilled and qualified professionals, having both technology and business processes knowledge



24/7

Non-stop support for users, whenever necessary

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For more than 20 years now C&F has been providing solutions for the largest international organizations, including those listed in Fortune 500.

Our 100+ Clients: Leaders in their industries

- Pharma
- Animal Health
- Human Resources
- Financial Services
- Transportation/Logistics

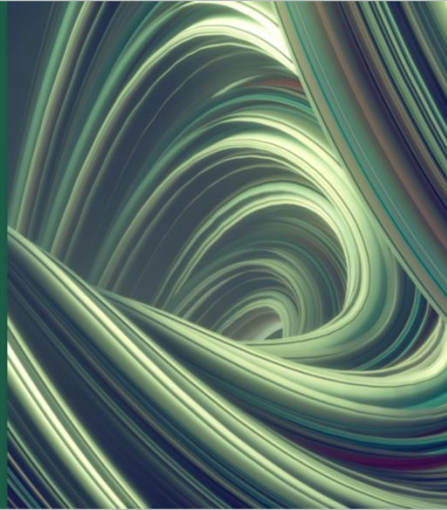


Agenda

1

The Evolution of Auditing

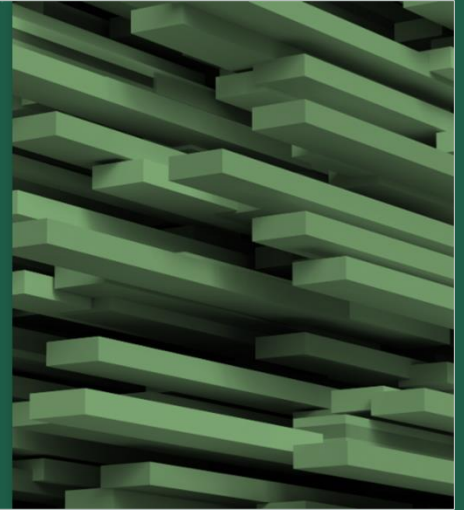
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2

Challenges in remote and analytical auditing

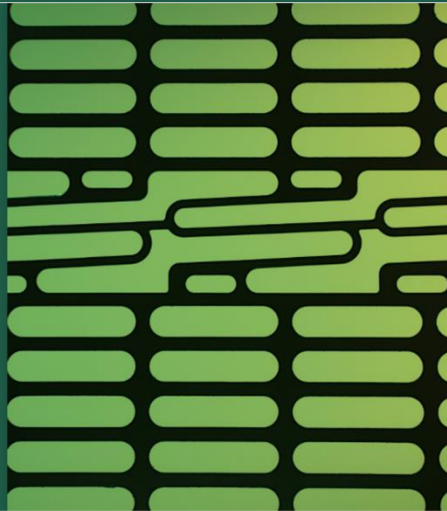
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3

Audit support with technical solutions

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4

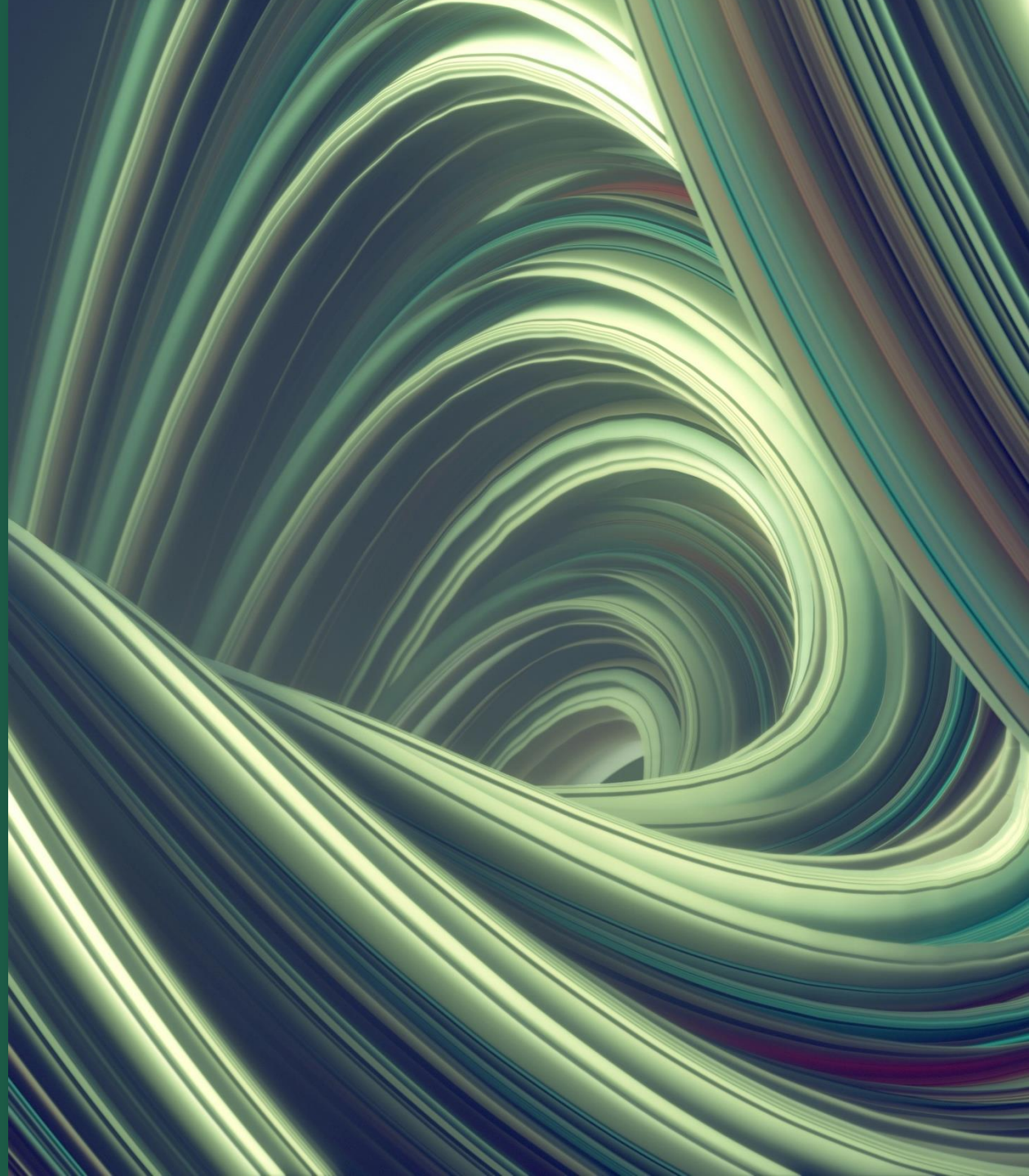
Summary

AdaptiveGRC™

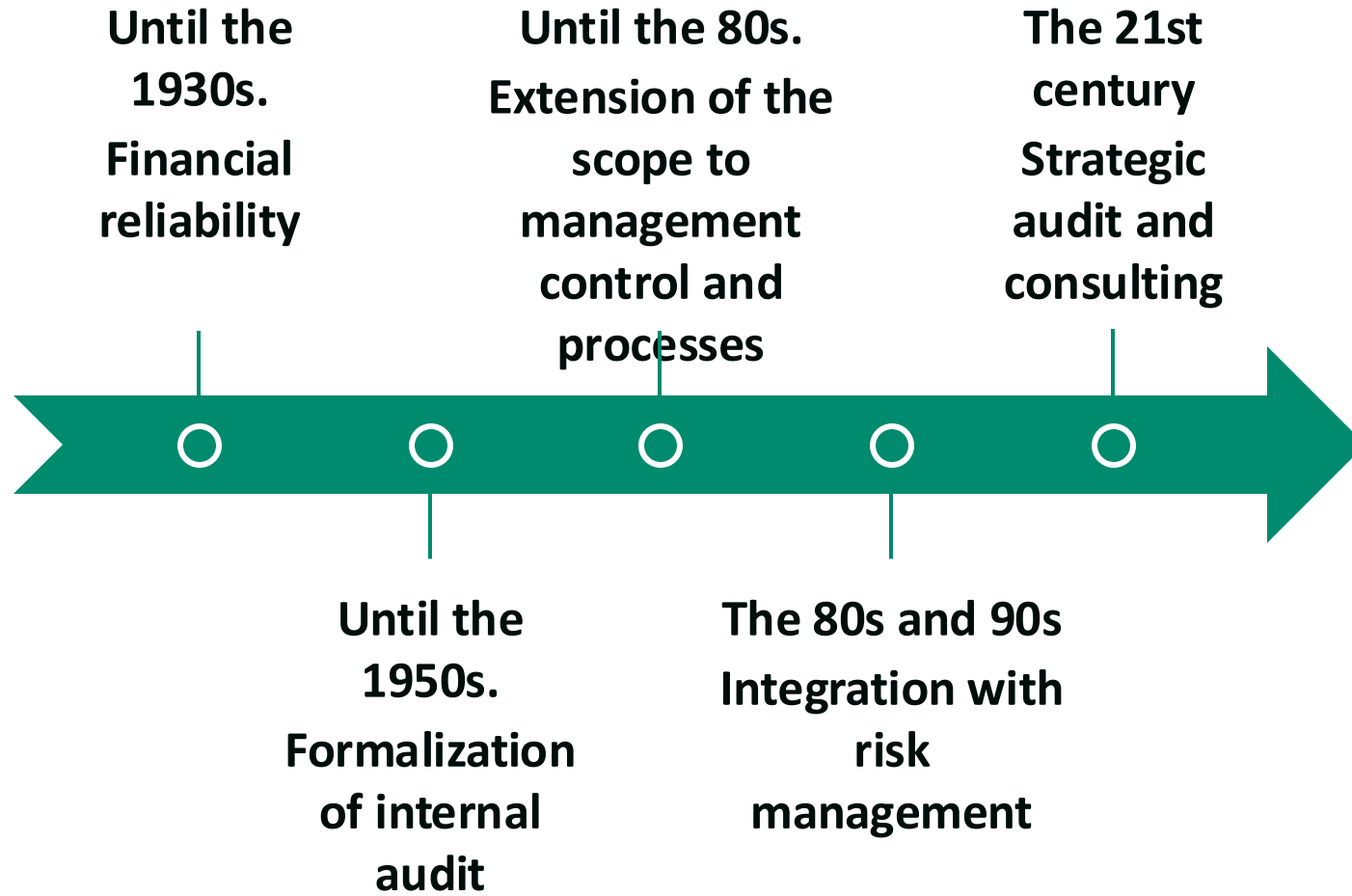


1

The Evolution of Auditing



The evolution of auditing over the last 100 years



What happens after 2025?
Synergy between the auditor and artificial intelligence?

What is the main role of audit today?



We have moved from a simple control function to an advisory and strategic operation.

- ❖ Greater responsibility
- ❖ Greater scope of work
- ❖ Higher expectations
- ❖ **The day has still only 24 hours 😊**

This is how AI viewed the 40-year-old auditor in 2023...



This is how AI views a 40-year-old auditor in 2025...



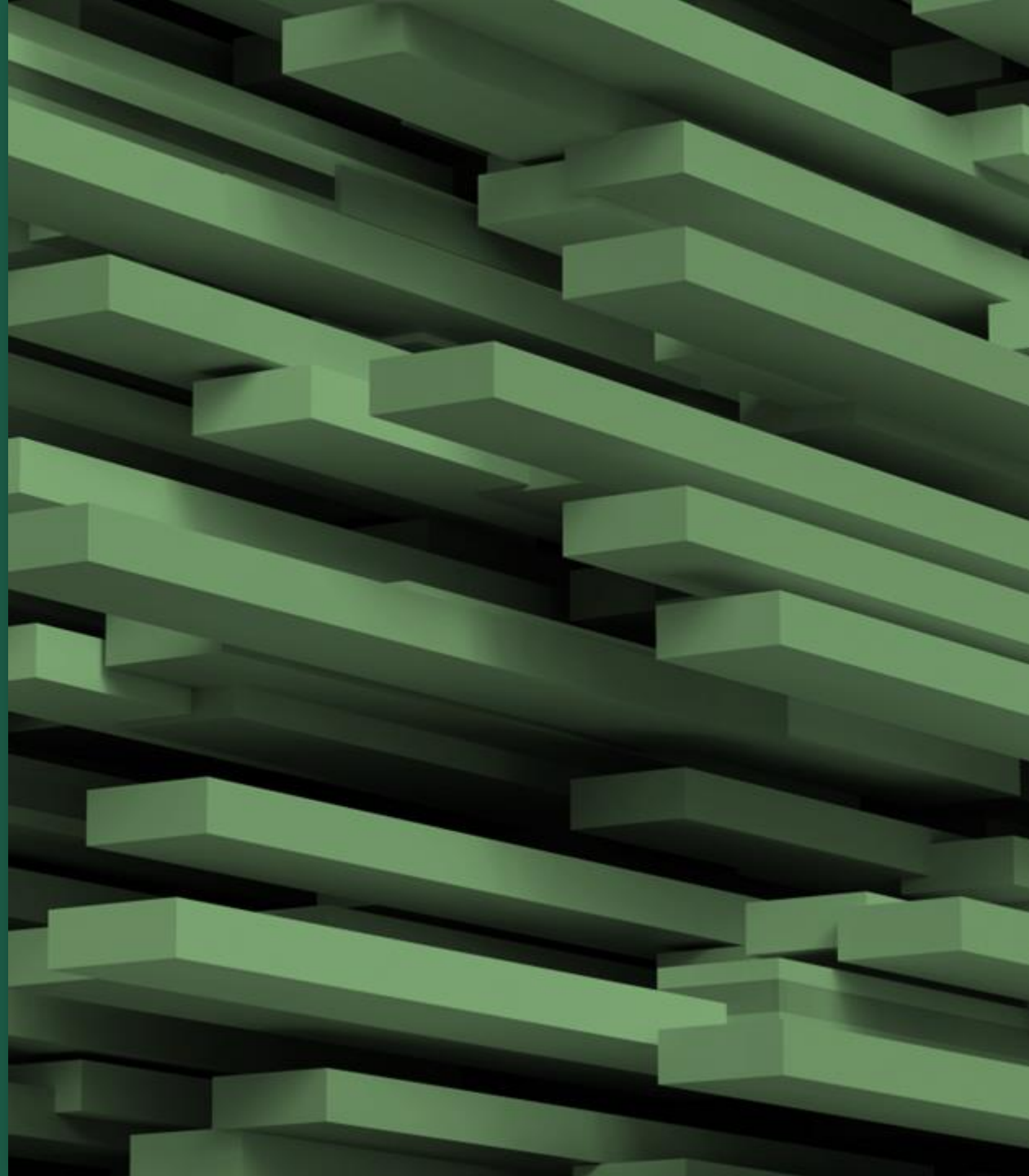
2023



2025

2

Challenges in remote and analytical auditing





Remote audit

It **transforms** your internal audit practice by enabling you to assess your organization's processes and control systems **without the need for an auditor to be physically present** on site.

Shorter time, lower costs, more audits, but **additional tools** are required to support the auditor's work.




Remote audit

Data for the US market:

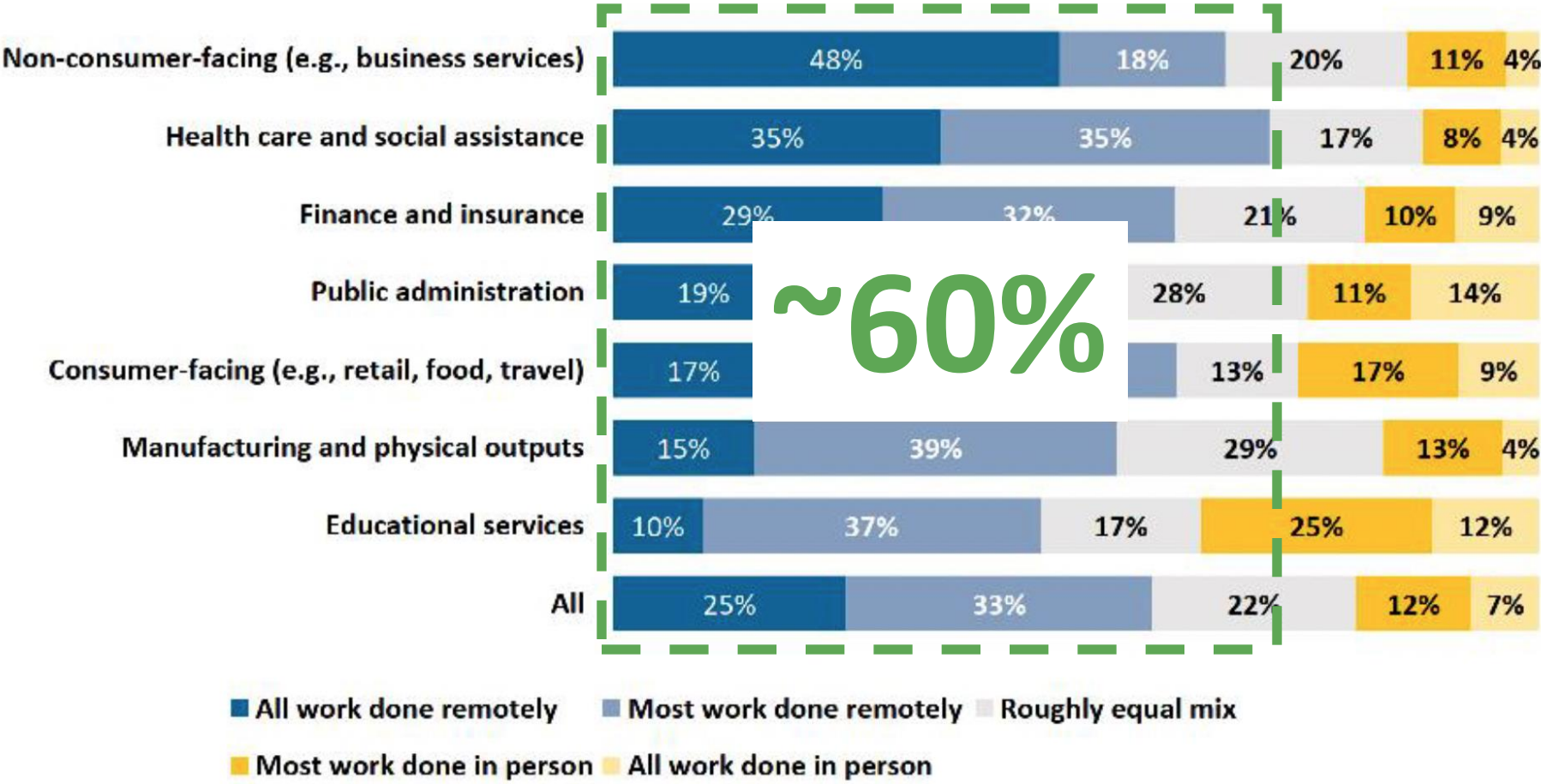
- ❖ Before the COVID-19 pandemic – less than 2% of remote audits
- ❖ During the pandemic, a significant decrease in the number of audits and an average of 38% remotely
- ❖ Post-pandemic situation – over 79% of audits in remote or hybrid form

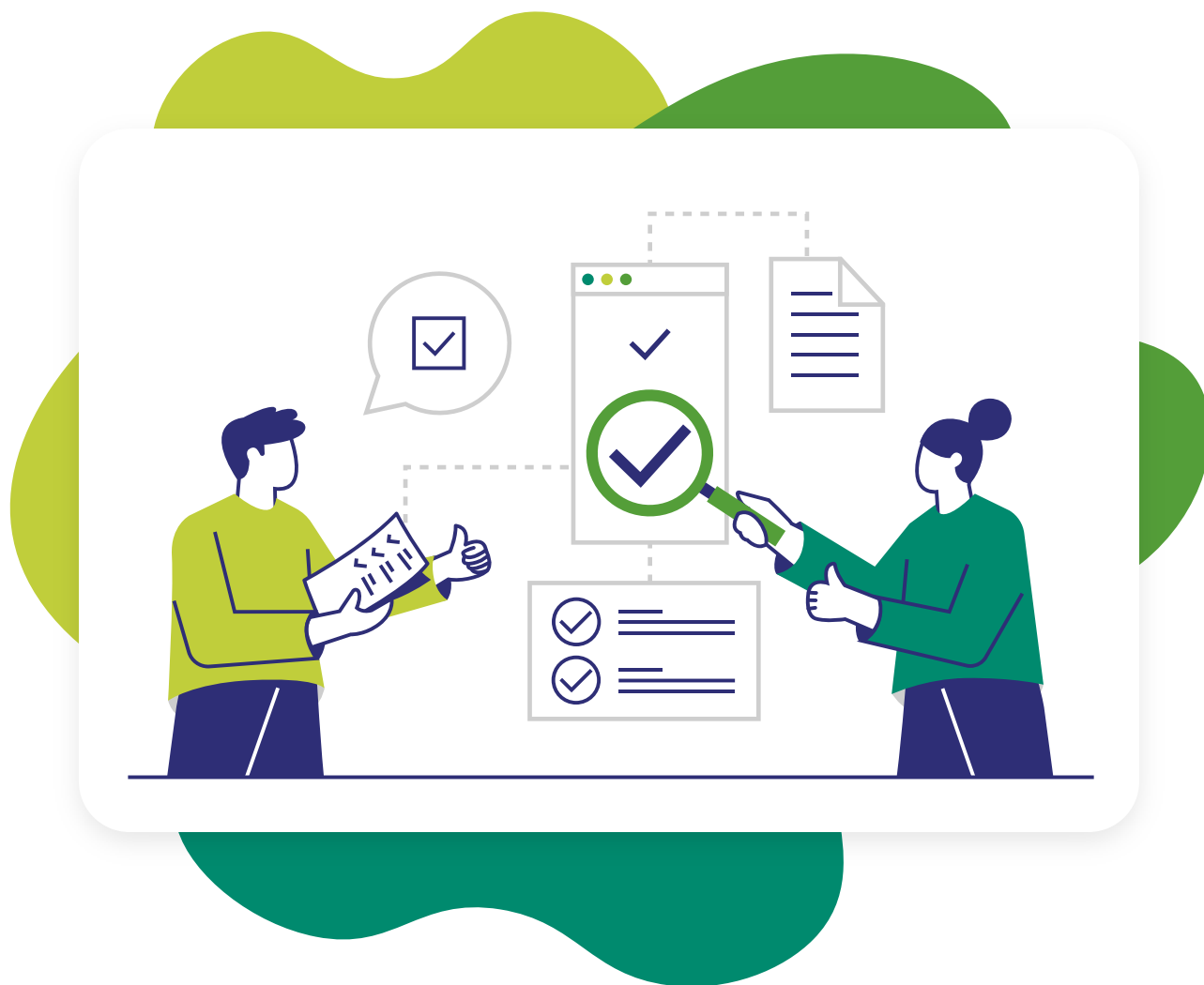
(*) Study by the Independent International Certification Organization (IIOC)



Remote Audit

Exhibit 1: Internal Audit Remote Work Compared to Industry Types





Analytical audit

Analytical auditing uses advanced analytical methods such as **predictive algorithms and big data analysis tools**, identifying trends and anomalies that may **indicate potential areas of risk or non-compliance**.

Analytical and remote audit – a successful implementation example

Abu Dhabi National Oil Company (ADNOC)



Challenges facing this organization before change:

- ❖ Dispersion of audit functions
- ❖ Technology challenges (multiple technologies)
- ❖ Limited remote and analytical audit capabilities

Analytical and remote audit – an implementation example

Abu Dhabi National Oil Company (ADNOC)

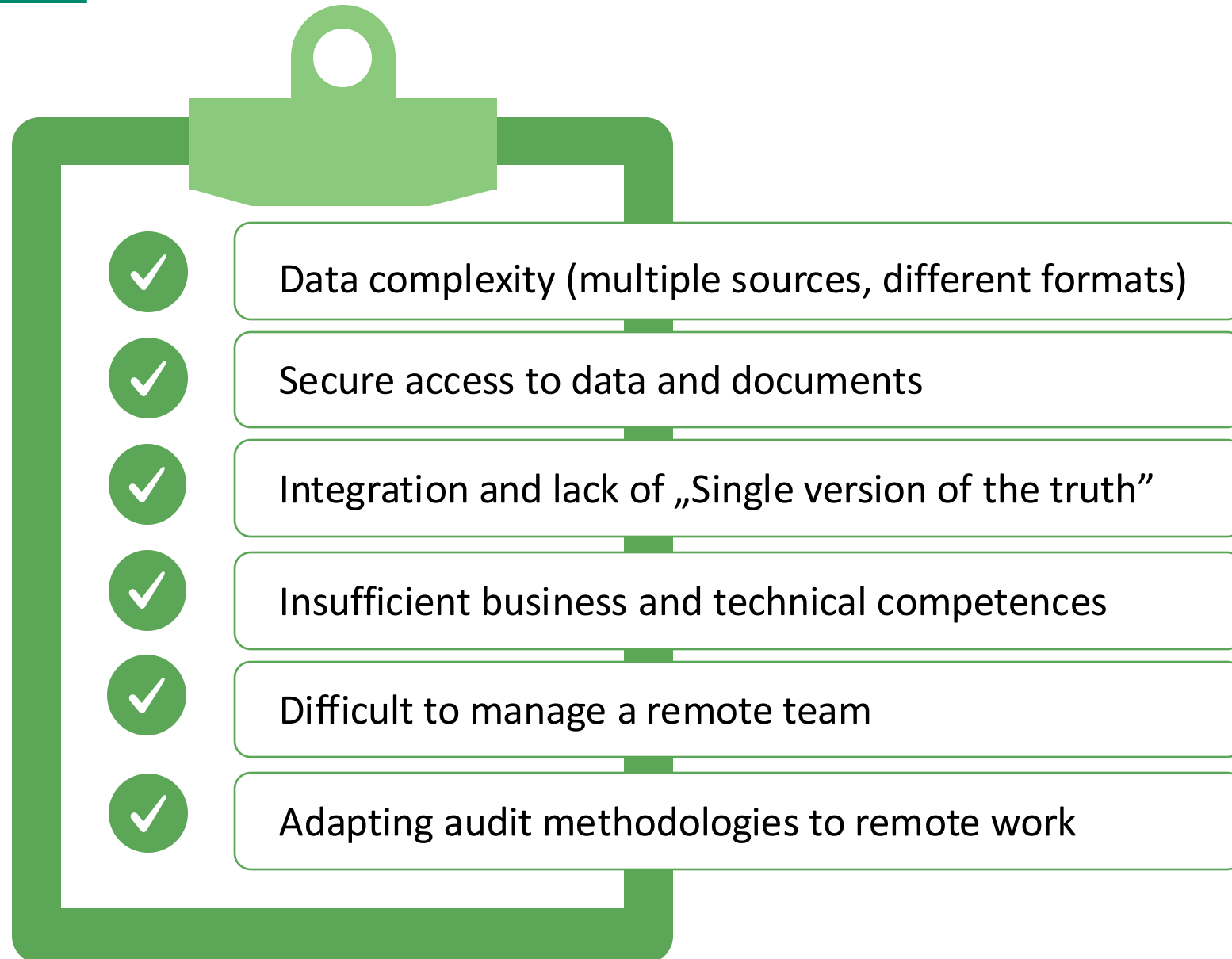


5 steps:

1. Standardization of the approach to Audit function
2. Digitization of business processes and staff training
3. Integration of platforms and systems
4. Technology optimization and new BI solutions
5. **New goal added: Ready for "AI in IA"**

Transformation took ...
5 years!

What are the challenges of conducting an analytical and remote audit?



... and more ...

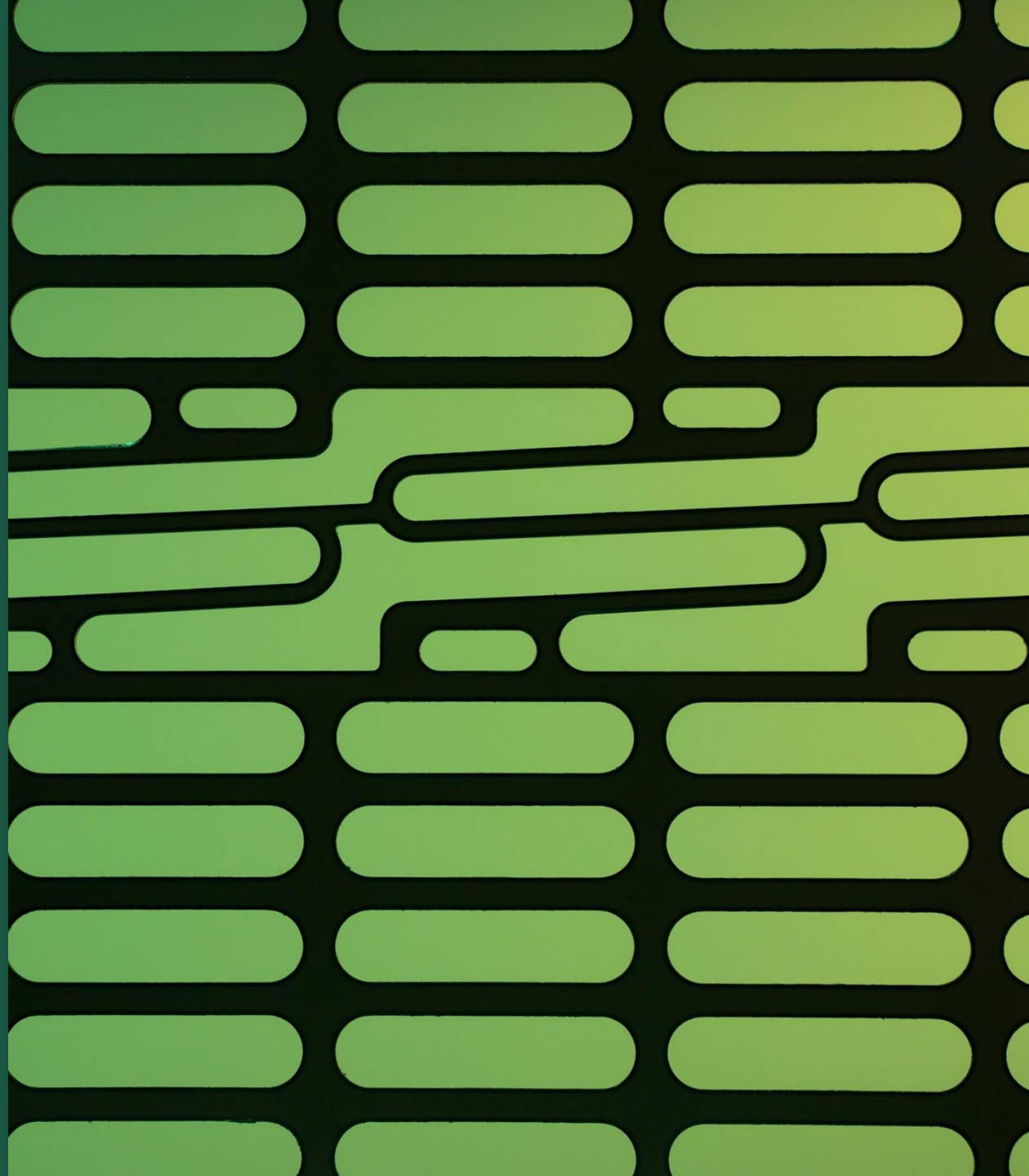
What are the challenges of conducting an analytical and remote audit?



YOU ARE SAFE 😊

3

Audit support with technical solutions



Four key areas of technology support

01

**Audit management
tools**

02

**Integration and
data quality**

03

**Analytical
and reporting
capabilities**

04

**Artificial
intelligence
as an assistant**

Master Yoda, why do we need technological support in audit activities?

ORGANIZED APPROACH, THE KEY TECHNOLOGY **IS.**

SOLUTIONS THAT INTEGRATE AUDIT, RISK, COMPLIANCE, SECURITY, **THEY MUST BE.**

WORK AUTOMATION, DATA MANAGEMENT, CONTROL MECHANISMS, AND THE

'SINGLE VERSION OF THE TRUTH' **IMPORTANT ARE!**

May the force be with you!



What can be affected by the lack of supporting solutions...



The area known (more or less...) ✓

Who knows...

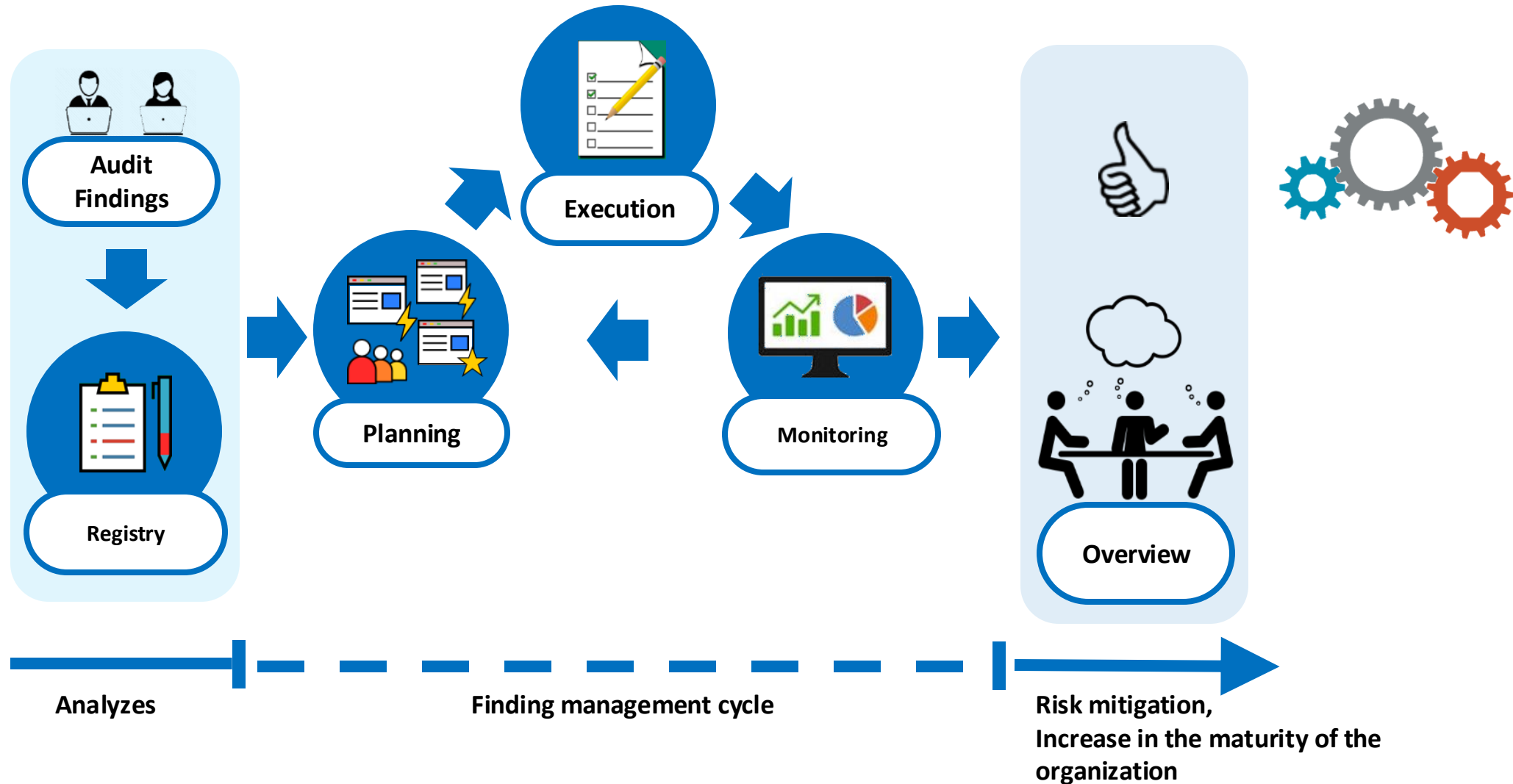


Consolidated GRC functions (Audit, Risk, Compliance, Control)

AdaptiveGRC



Managing audit recommendations (example of an important function)



Four key areas of technology support

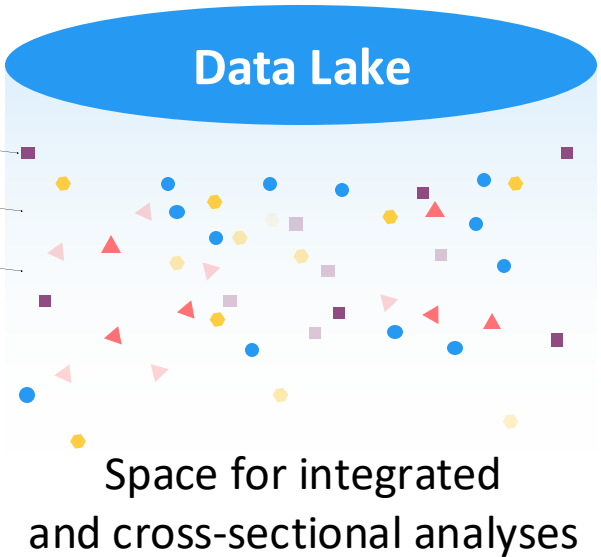
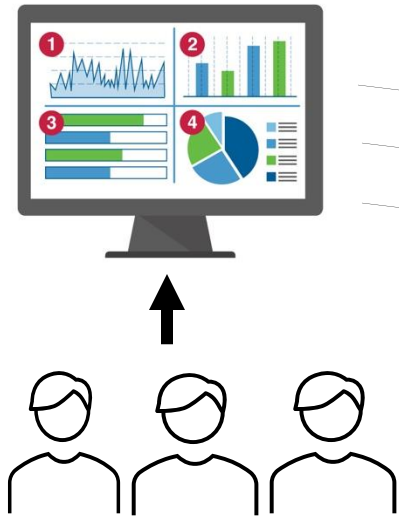
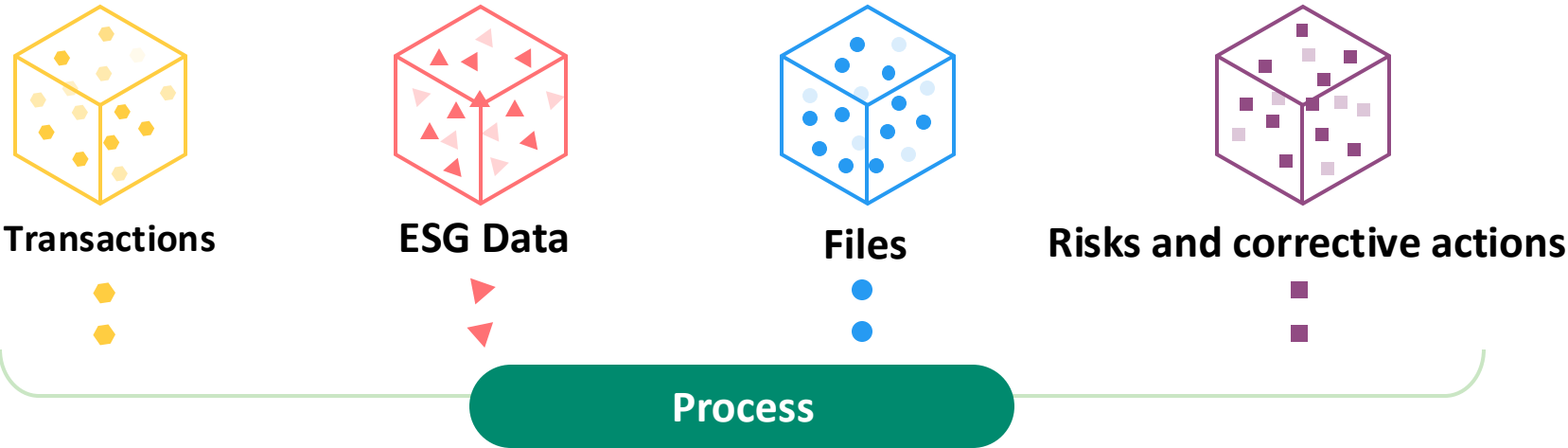


Data Lake Integration and Quality



Data for internal Audit purposes aggregated in a Data Lake – AI proposal

Data Lake Integration and Quality



Key Benefits of Data Lake for Auditing



❖ **Centralize and consolidate data.**

It allows you to collect and store large amounts of data from different sources in one place. This allows internal auditors to easily access the information they need without having to search through different systems and databases.

❖ **Improved data accuracy and quality.**

It enables the integration of data from different systems, which minimizes the risk of errors and inconsistencies.

❖ **Faster and more efficient data analysis.**

With the ability to store raw data in a data lake, auditors can quickly process and analyze large amounts of information using BI tools and advanced analytical algorithms and machine learning techniques that can help identify patterns that indicate abnormalities.

❖ **Flexibility and scalability.**

A data lake offers great flexibility in storing and processing data of different types (structured and unstructured). Can grow with your organization's needs. Possible baseline for **continuous auditing**.

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ANALYTICS DASHBOARD

Last Updated:
3 min ago

92%

Data Availability



More info >

95%

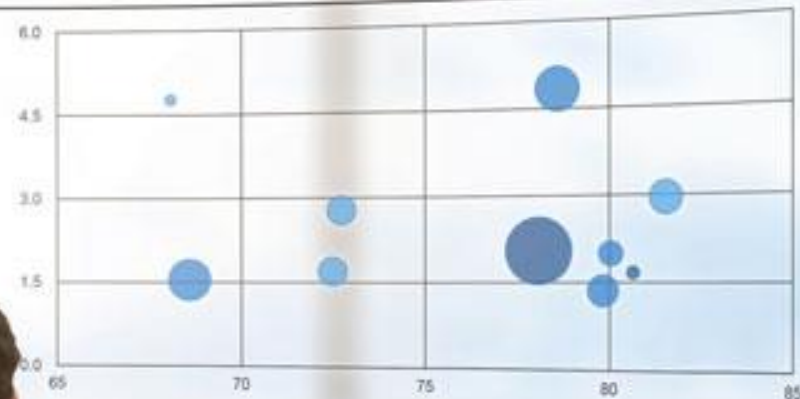
Actual vs Target



More info >

Evolution	Metric	Actual vs Target	Actual	Target
	Revenue		\$3.4M	82.0%
	Profit		\$1.2M	108.7%
	● Avg. Order Size		\$850.3	71.0%
	On Time Delivery		96.0%	96.0%
	New Customers		15432	145.0%
	Cust. Satisfaction		98.3%	105.0%
	Market Share		46.9%	80.0%

Products positioning



Sales per countries



Top 10 products



What can analytical and reporting capabilities look like in an organization ...😊



Challenges in automating the reporting process in analytical audit



Challenge

- 200 slides Power Point requires constant changes
- Time-consuming process of ppt creation
- Low level of cooperation
- Low level of confidence in data due to the number of errors in the data



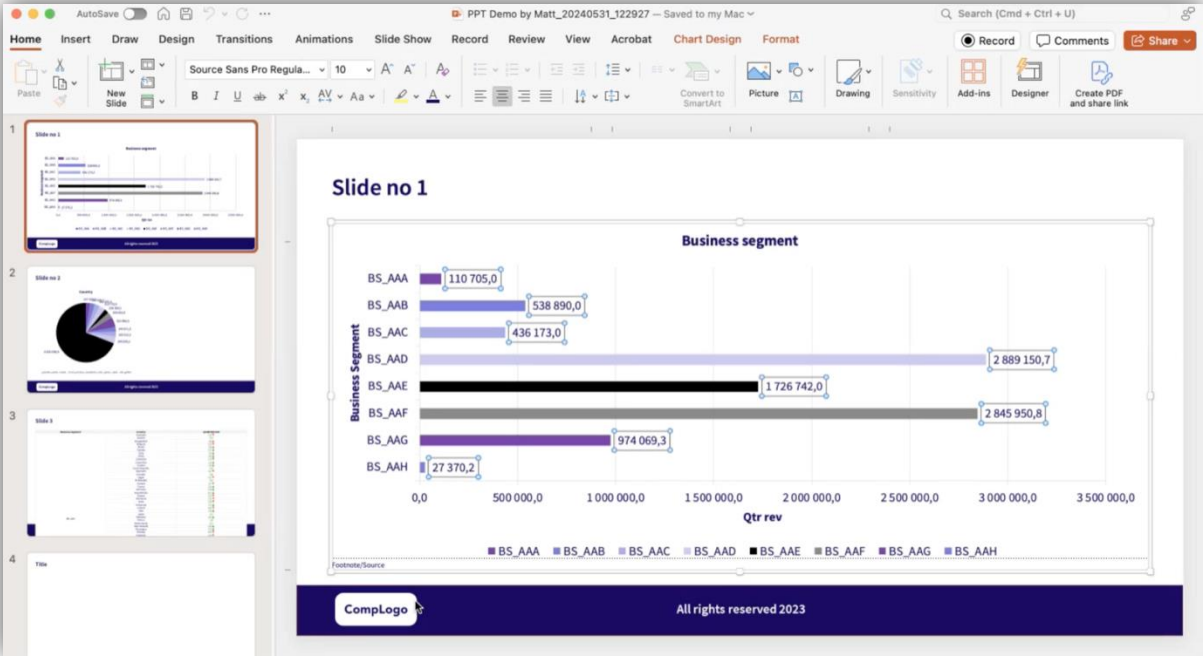
Goal

- Standardize and optimize the process of building an analytical slide deck
- Process automation, time reduction
- Re-use of content, exchange of information between auditors
- Improve cross-team collaboration

Automation of analysis and preparation of the summary (visual form)

Audit system

Data Lake
(Data)



Automated PPT Preparation Solution on Analytical Data

Step 3. Customize

New project

PPT DECK Creation Wizard

Save project

Preview

Export

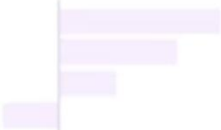
Exit project

1


2

3


Drag object from the left to the placeholders to add content



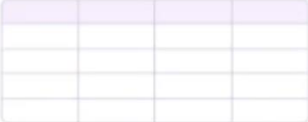
Bar Chart



Stacked Bar Chart



Waterfall Chart



Table

Slide Title

Slide no 1

To start customising, drag and drop object here.

One Column
Slide 1

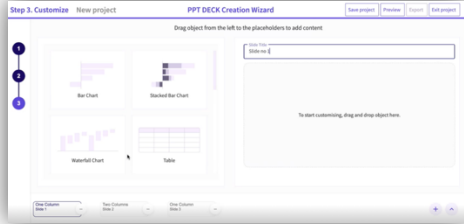
Two Columns
Slide 2

One Column
Slide 3

+

^

Automated PPT Preparation Solution on Analytical Data



Step 3. Customize New project Edit Bar Chart

Go Back Save project Preview Export Exit project

Selected filters: YearQuarter, Format, Currency

YearQuarter* 2023Q4 (2 more) Format* QUARTER Currency* USD Region Country Company Business Segment Clear Show more

Chart type Bar Chart Dimension* Business Segment Top* 10 Metric* QUARTER USD Scale None Sort By* Business Segment Sort Direction* Ascending ☒ Show Others Preview

☐ Show Total

Data view

Business Segment	QUARTER USD
BS_AAA	110.705,0
BS_AAB	538.890,0
BS_AAC	436.173,0
BS_AAD	2.889.150,7
BS_AAE	1.726.742,0
BS_AAF	2.845.950,8

1 - 8 of 8

Table view

Business Segment	QUARTER USD
BS_AAA	110.705,0
BS_AAB	538.890,0
BS_AAC	436.173,0
BS_AAD	2.889.150,7
BS_AAE	1.726.742,0
BS_AAF	2.845.950,8

Name Business segment X-Axis Label Y-Axis Label

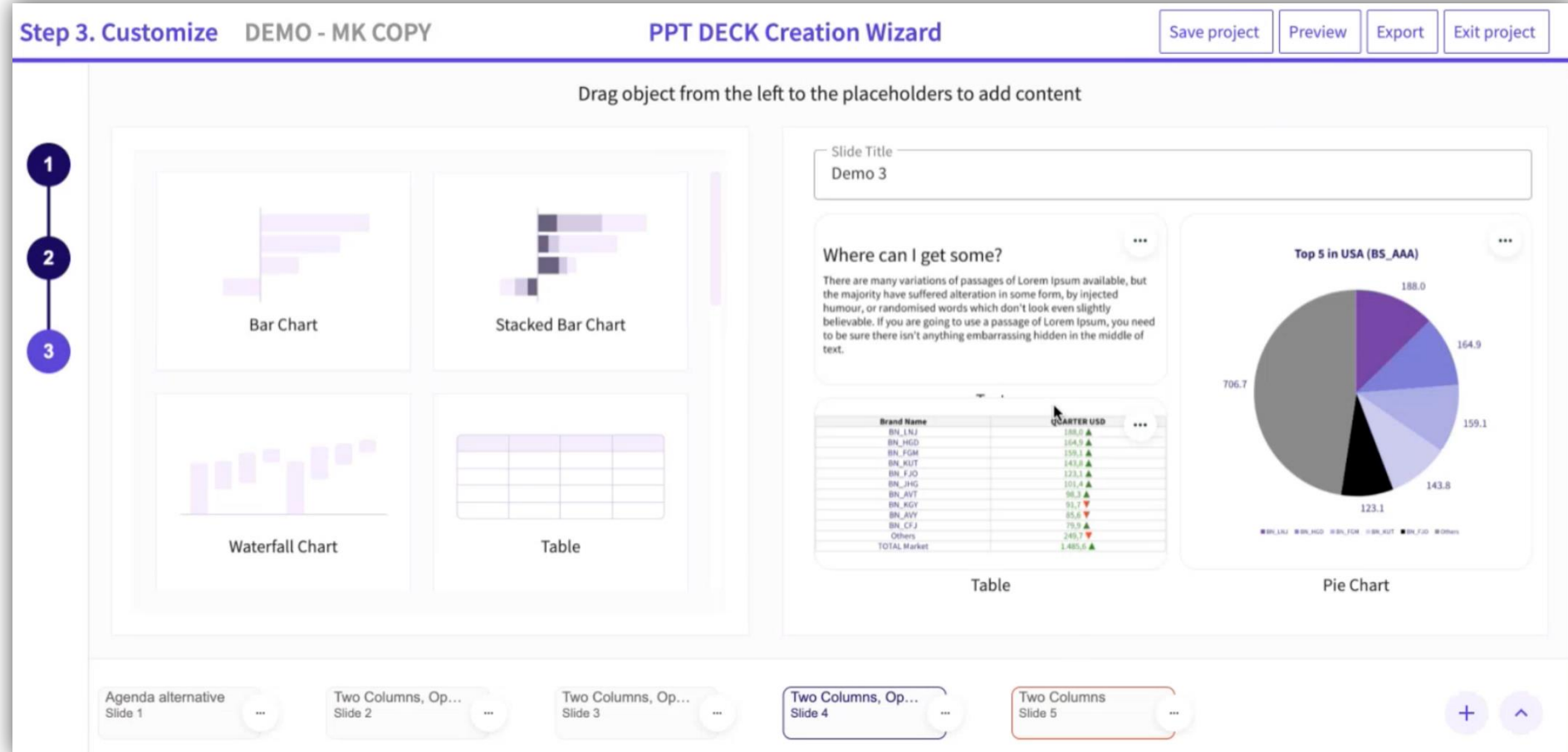
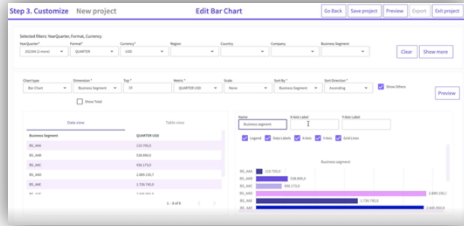
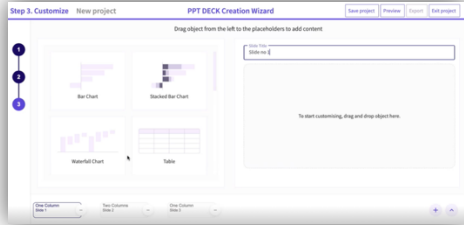
☒ Legend ☒ Data Labels ☒ X-Axis ☒ Y-Axis ☒ Grid Lines

Business segment

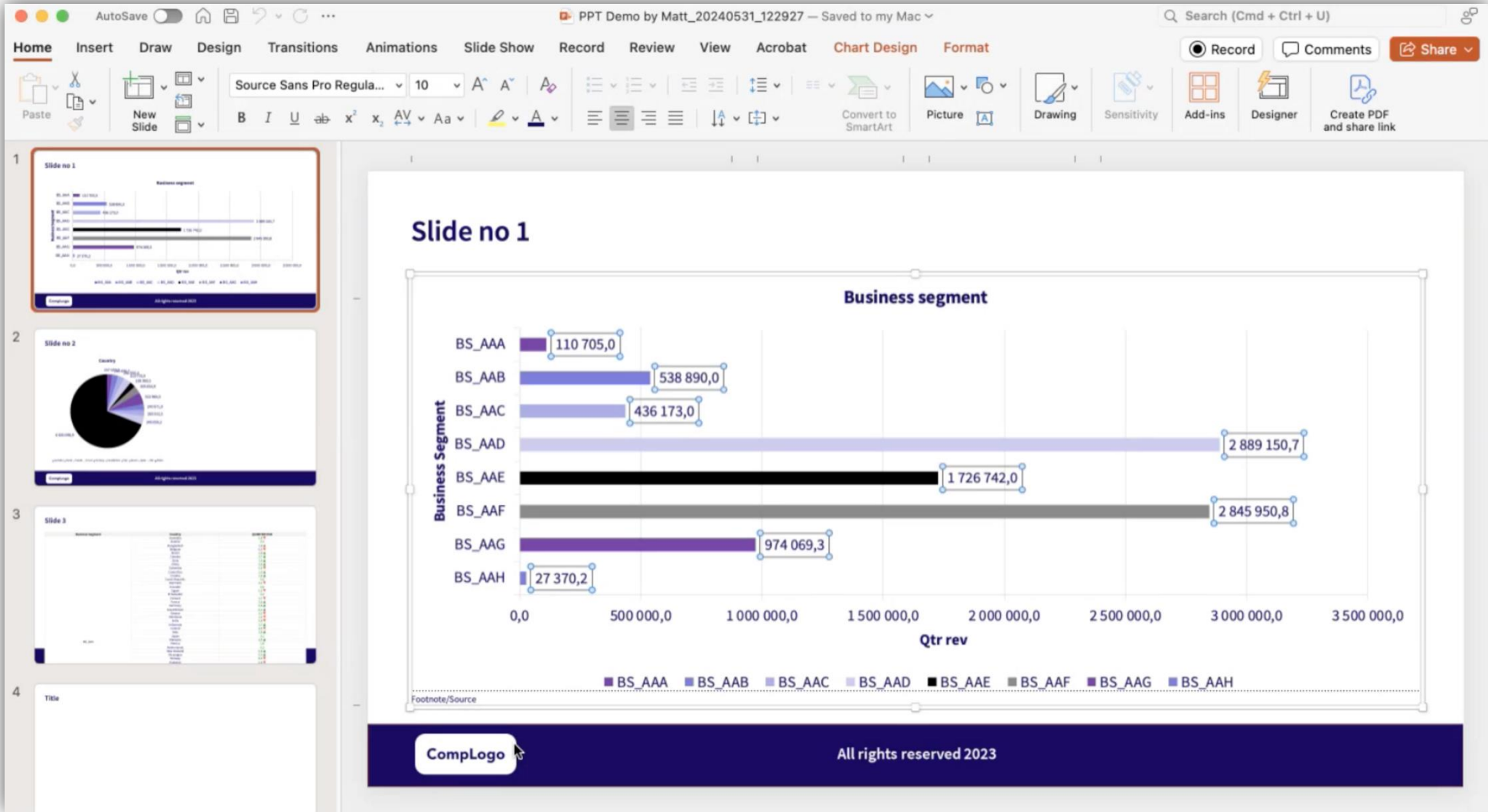
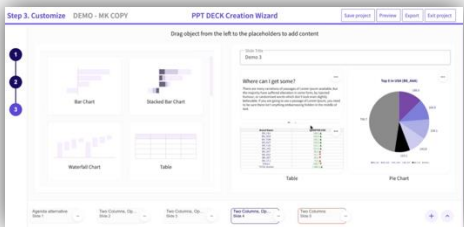
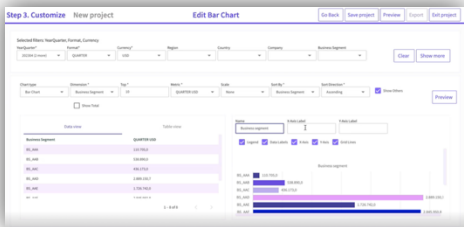
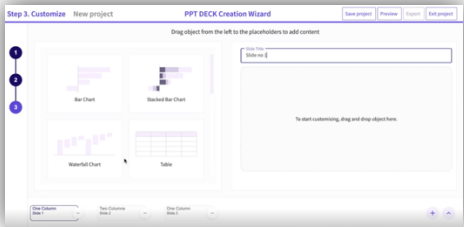
A horizontal bar chart titled 'Business segment' displaying data for six segments. The bars are colored in shades of blue and purple. The values are: BS_AAA (110.705,0), BS_AAB (538.890,0), BS_AAC (436.173,0), BS_AAD (2.889.150,7), BS_AAE (1.726.742,0), and BS_AAF (2.845.950,8).

Business Segment	Value
BS_AAA	110.705,0
BS_AAB	538.890,0
BS_AAC	436.173,0
BS_AAD	2.889.150,7
BS_AAE	1.726.742,0
BS_AAF	2.845.950,8

Automated PPT Preparation Solution on Analytical Data



Automated PPT Preparation Solution on Analytical Data



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intelligence
as an assistant**



Potential AI support

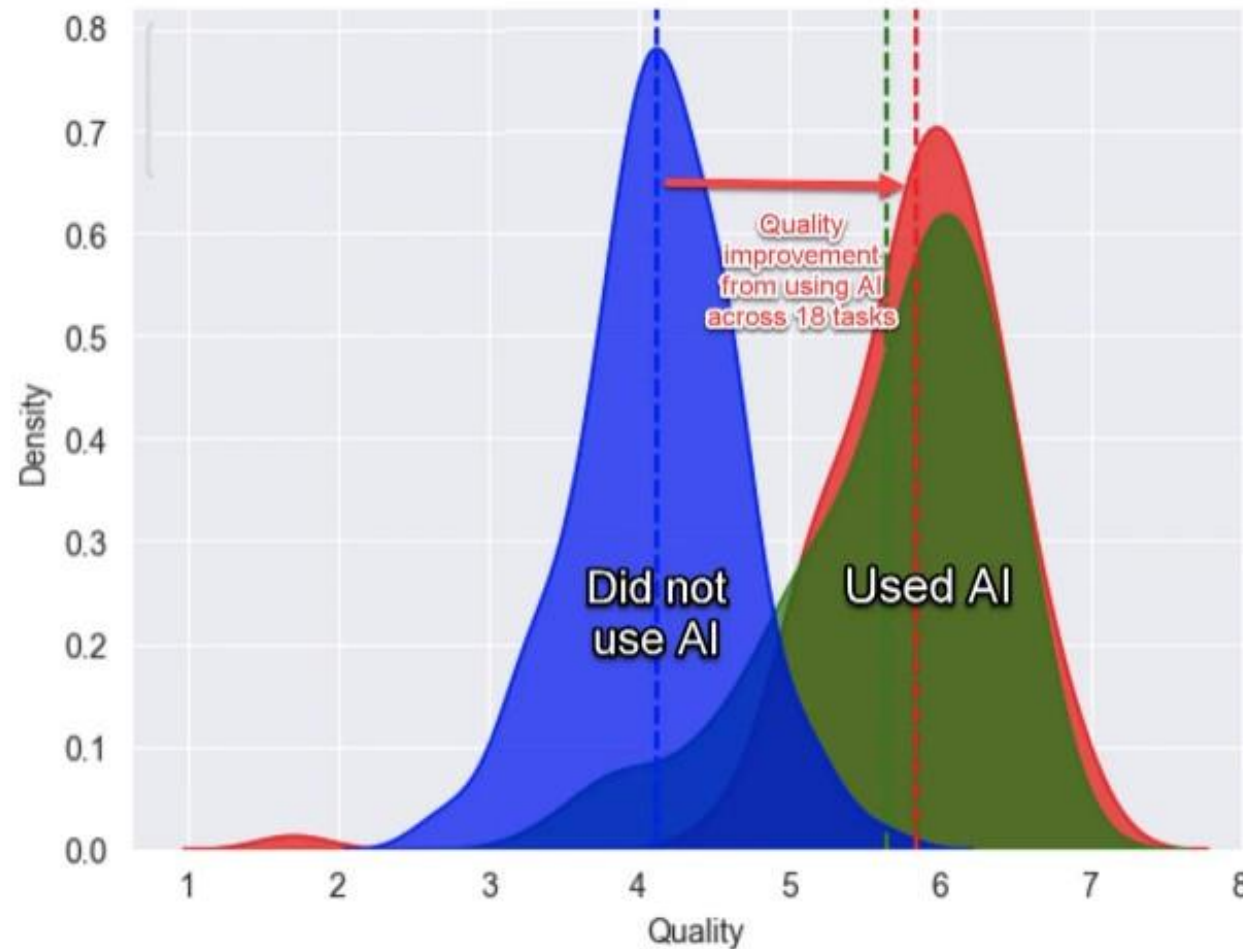
Variety of options:

- **AI Assistant (chat)**
- Search documents
- **Content creation**
- **Content Summary**
- **Translation**
- Data analysis
- Image/Video Analysis and Creation
- ...

Key benefit:

Increased productivity

Potential AI support – observations from the study



Distribution of output quality across all the tasks. The blue group did not use AI, the green and red groups used AI, the red group got some additional training on how to use AI.

Productivity: **+40%**

Quality: **+25%**

How AI Assistant can support auditors?



AI Assitant

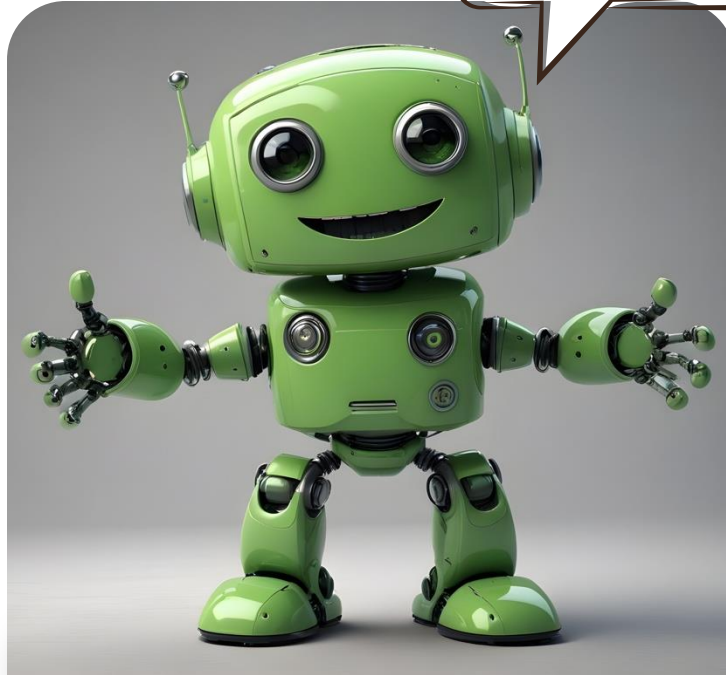


- Secure access to internal systems in the organization
- Real-time interaction
- Scope limited to the business context (audit, risk, etc.)
- Data Ownership and Privacy
- Easy integration with systems in the organization (data lake preferred)
- We must trust Data – AI hallucinations kept to a Minimum
- ISO 42001 and the EU AI Act
- Local LLM's can be a solution

AI Assistant



Access to systems



Hey!
How can I help you??

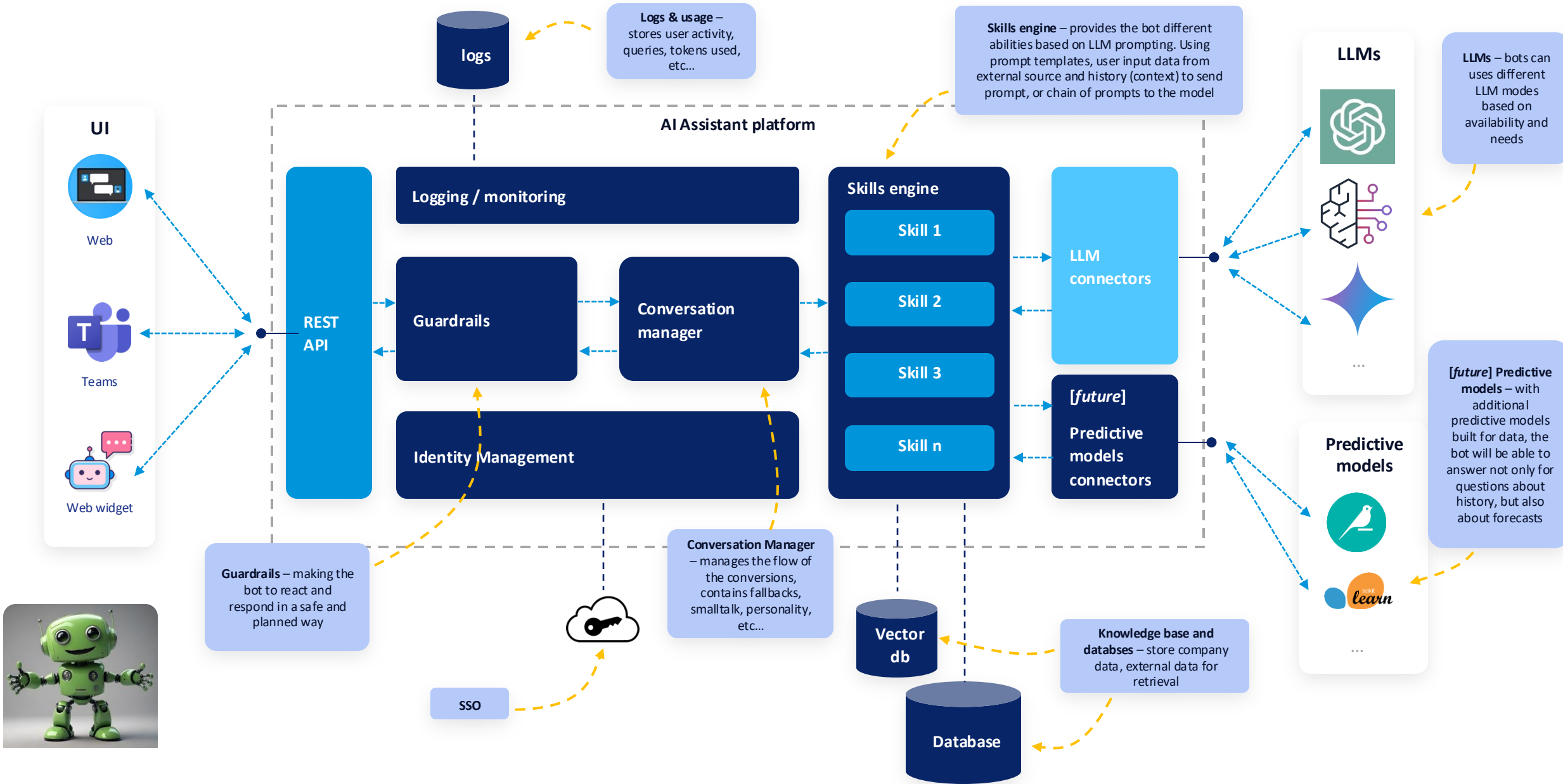
AI Assistant



Systems in the organization

chatGPT 4.0
Microsoft
Azure
(Private)

In more details - the architecture is quite complex and security-oriented



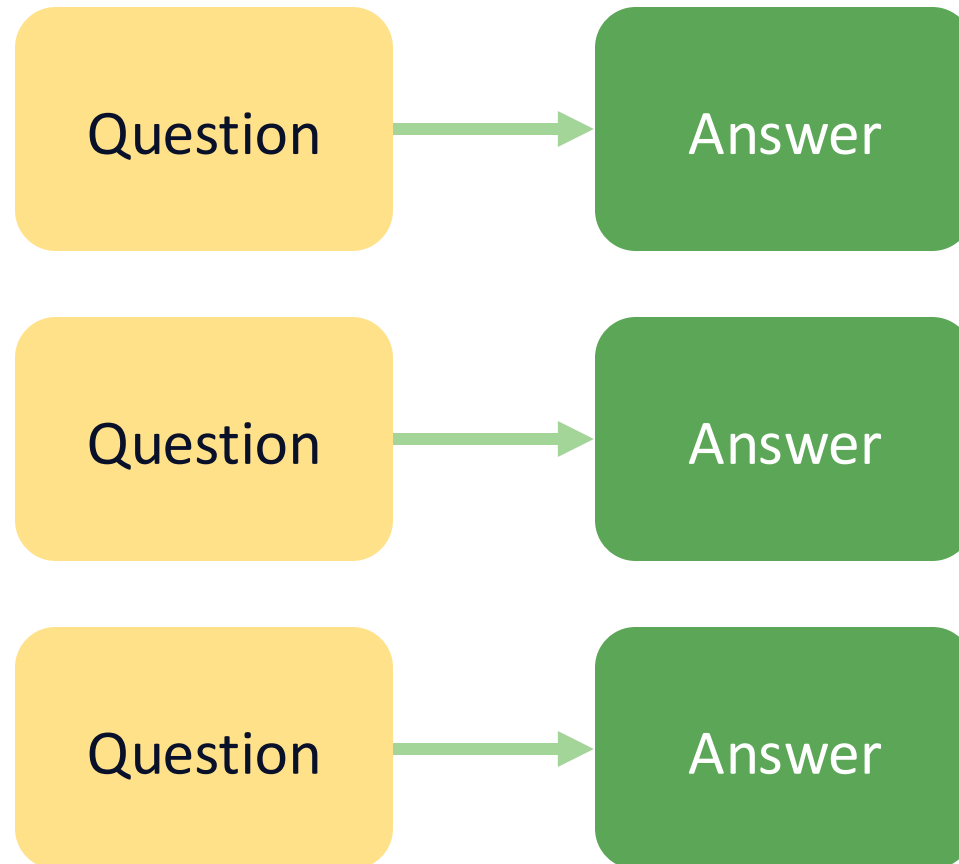
How AI Assistant can support auditors?



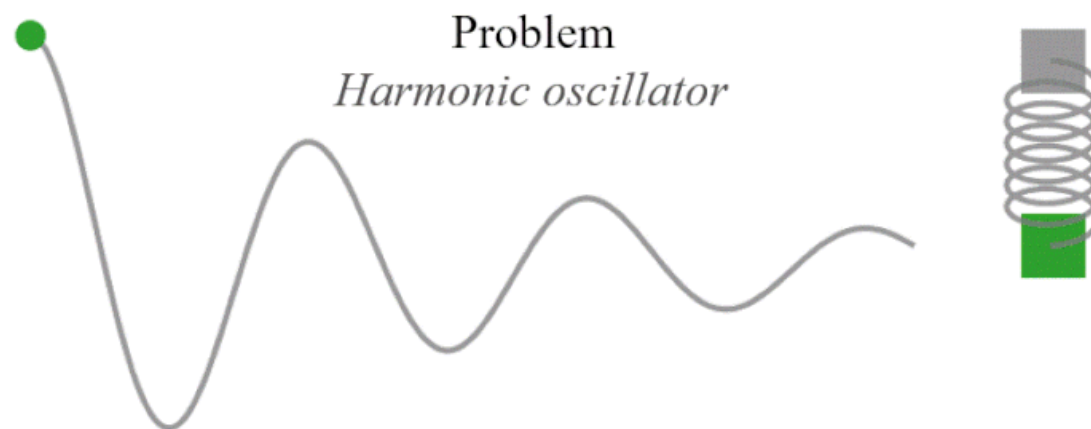
AI Assitant



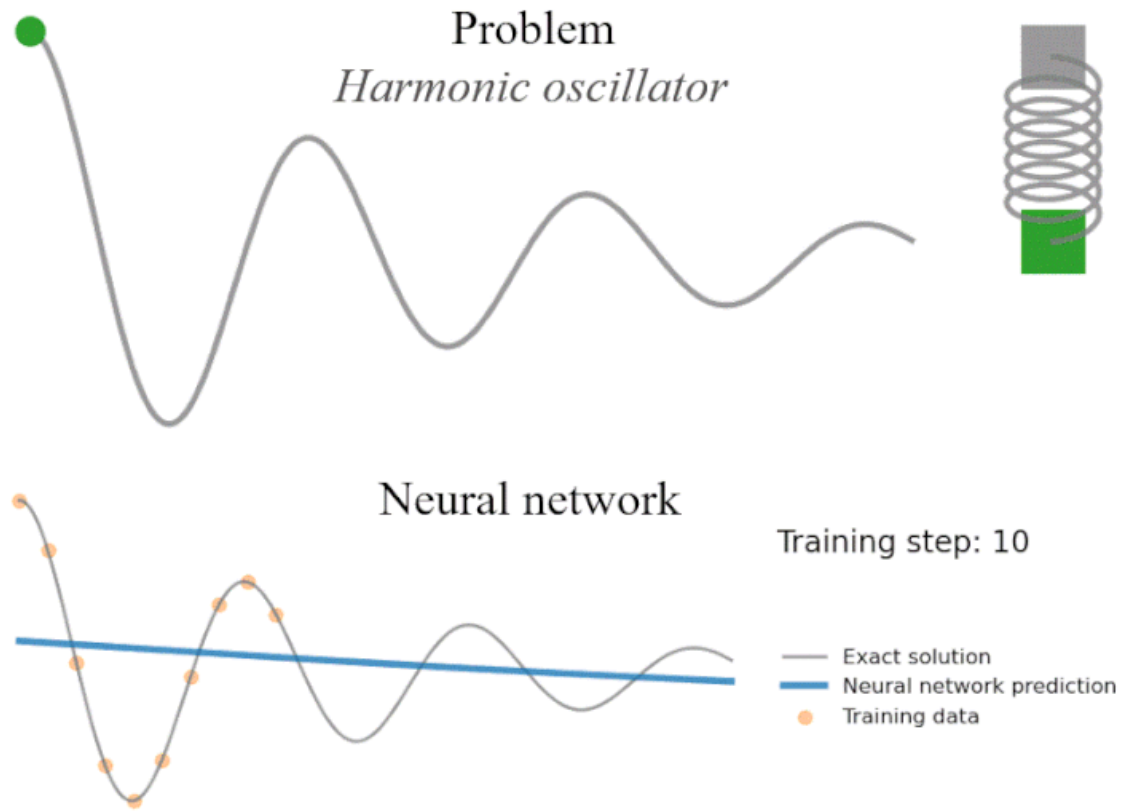
Is this how interaction with
generative AI works?



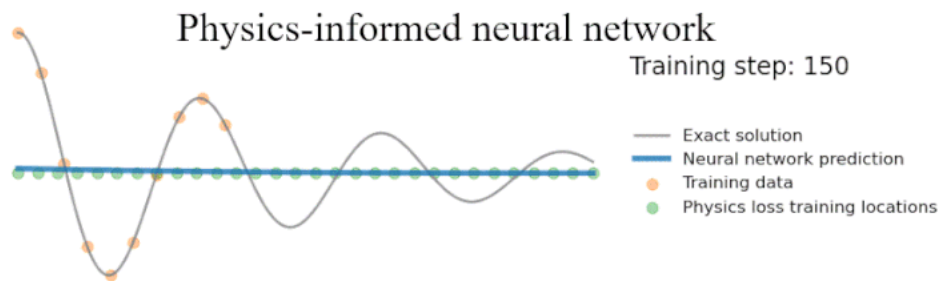
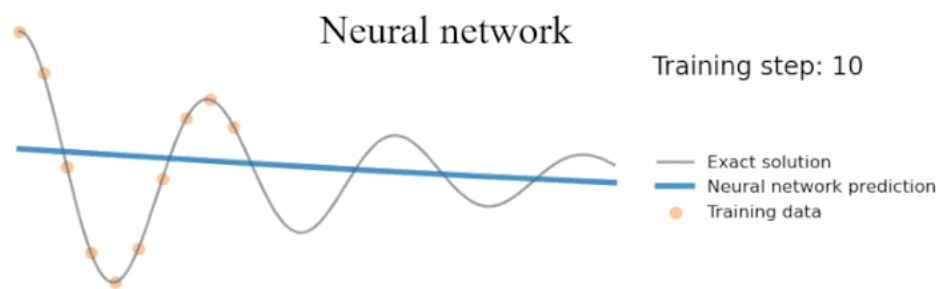
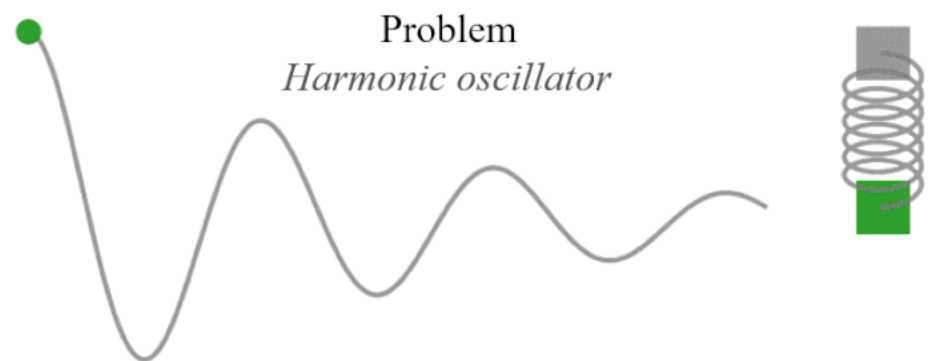
Why good AI interaction is key?



Why good AI interaction is key?



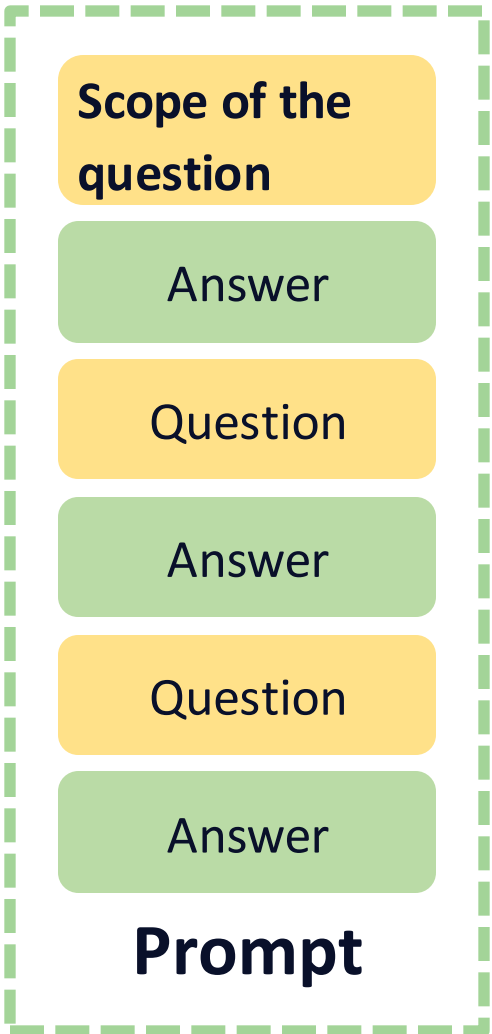
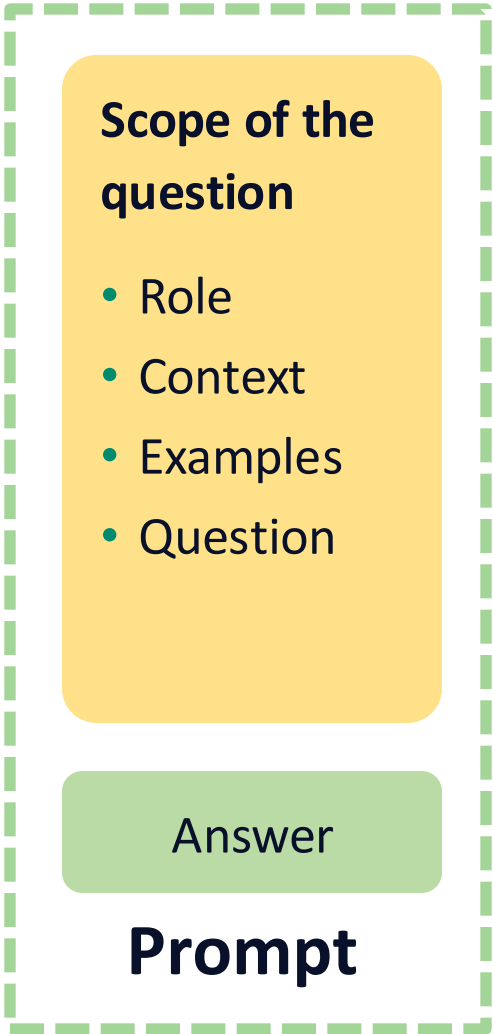
Why good AI interaction is key?



How AI Assistant can support auditors?



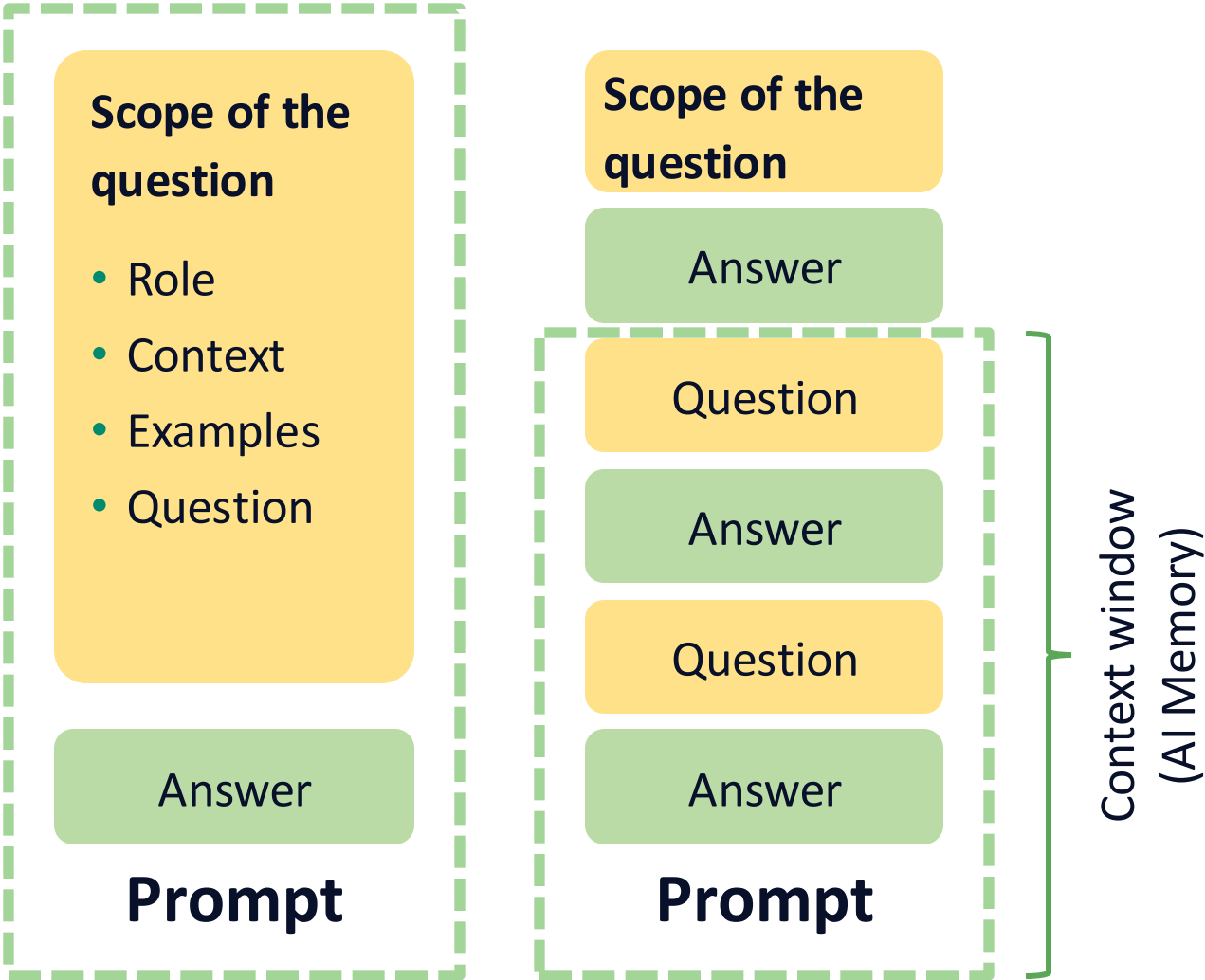
AI Assitant



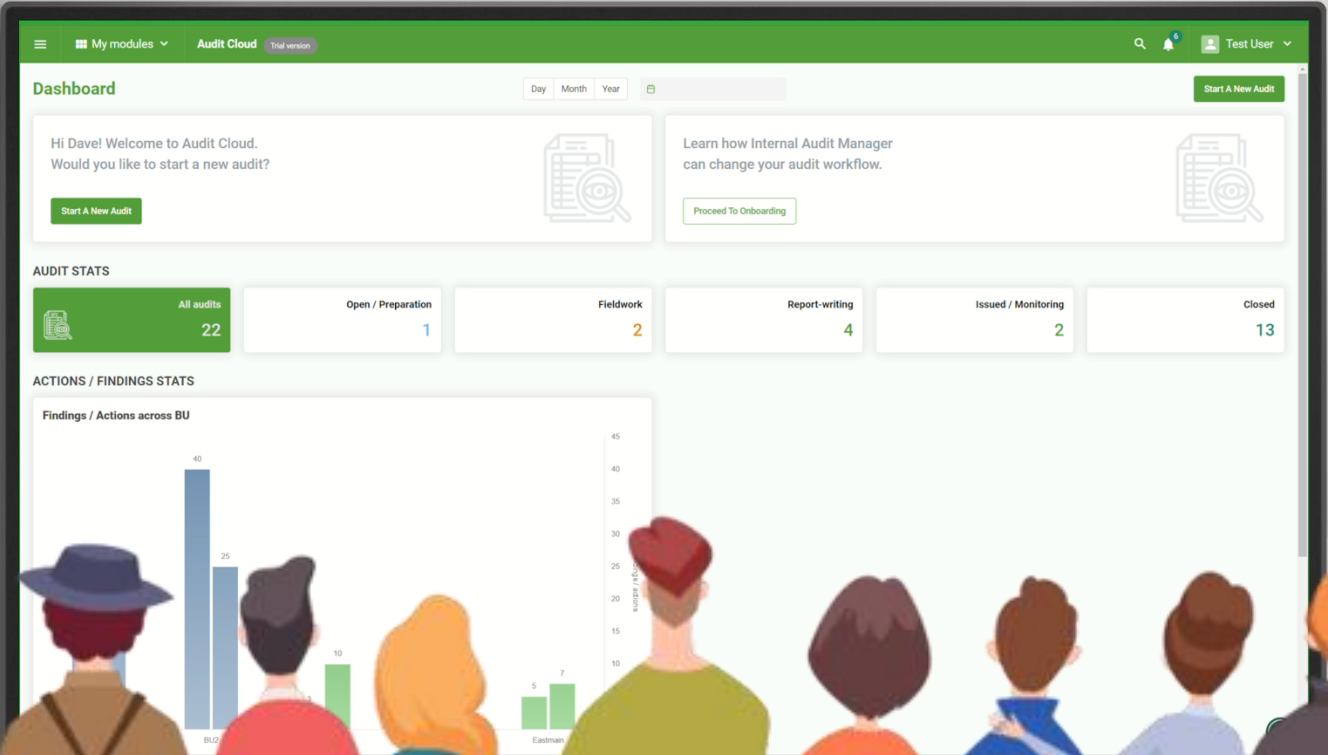
How AI Assistant can support auditors?



AI Assitant



Przykład



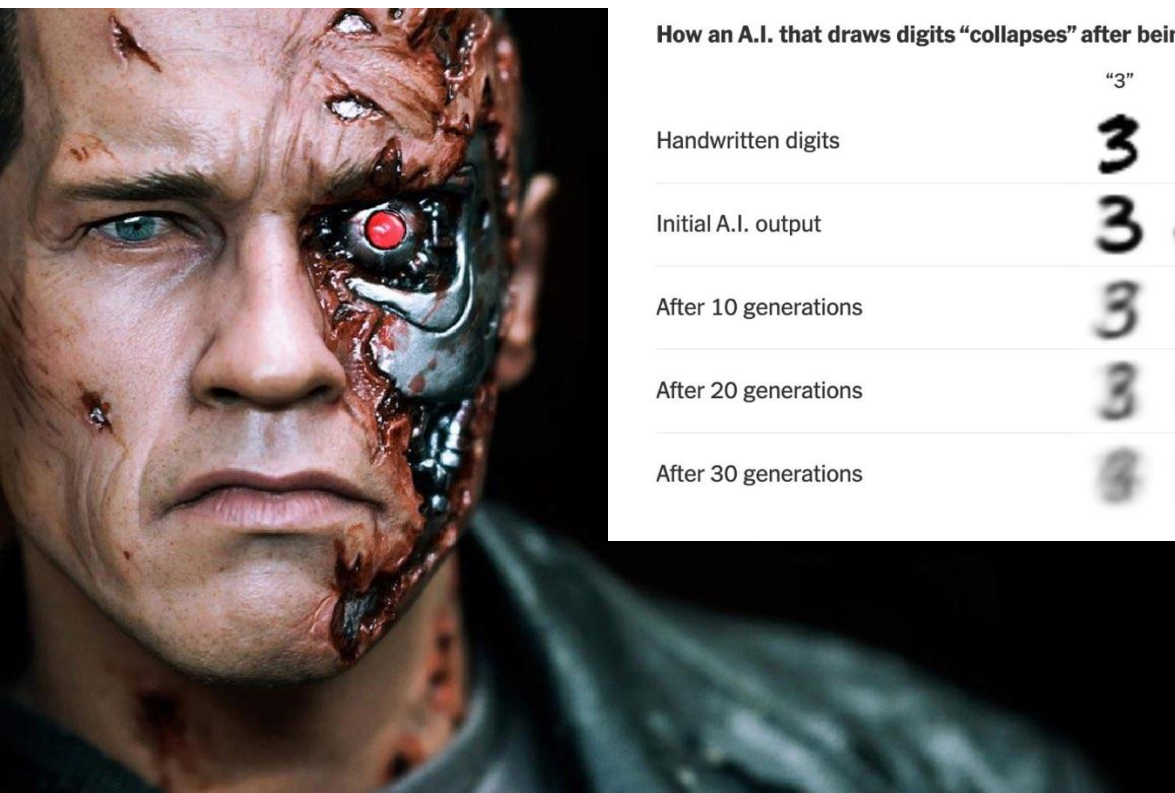


Why does AI need people?

How an A.I. that draws digits “collapses” after being trained on its own output

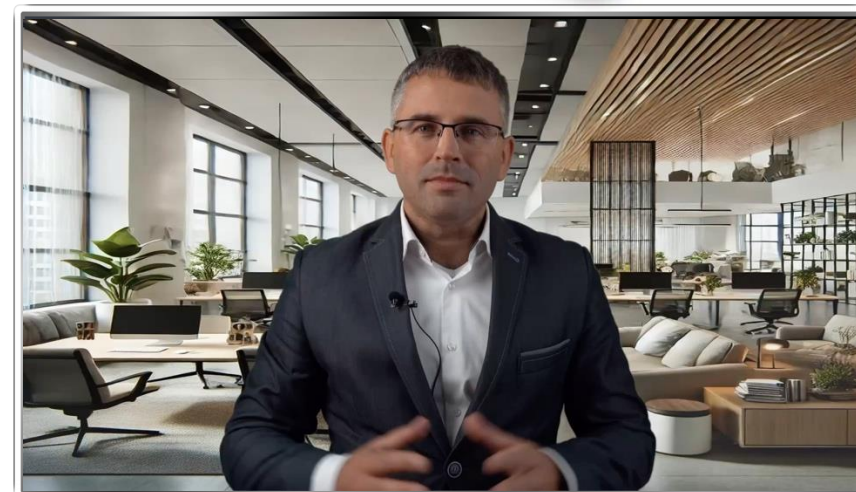
	“3”	“4”	“6”	“8”	“9”
Handwritten digits	3	4	6	8	9
Initial A.I. output	3	4	6	8	9
After 10 generations	3	4	6	8	9
After 20 generations	3	4	6	8	7
After 30 generations	3	3	3	3	3

Why AI Needs People



How an A.I. that draws digits “collapses” after being trained on its own output

	“3”	“4”	“6”	“8”	“9”
Handwritten digits	3	4	6	8	9
Initial A.I. output	3	4	6	8	9
After 10 generations	3	4	6	8	9
After 20 generations	3	4	6	8	7
After 30 generations	8	8	8	8	8



4

Summary



Key takeaways – how to get started? ADRAI Approach

- ❑ **Application:** Get started with integrated auditing tools
- ❑ **Data:** Integrate data across your organization in a data lake solution
- ❑ **Report:** Build analytics around integrated data
- ❑ **AI:** Use AI as an audit assistant

START SMALL **AND GROW**



A close-up shot of a woman with dark, slightly damp hair, looking off to the side with a serious, contemplative expression. The background is a blurred view of a modern building with white railings, suggesting an outdoor setting like a balcony or terrace. The lighting is soft and natural, highlighting her facial features.

**THERE'S A DIFFERENCE
BETWEEN KNOWING THE PATH**



95%

Webinar Human + AI integration



Thank you for your attention!

Feel free to contact me



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