Objectives

What are the motivations, values and behaviors of the global audit workforce? And how can we address them to impact their efficiency, efficacy positively?

How can we enhance the journey of an auditor on a project using digital tools? Meaning, how effective are the current tools at enabling auditors to be effective and enabled.

Can the underlying technology service the needs of an enhanced auditor?

Does the technology framework allow us to deliver the features and functions that will best enable auditors? If not, what are the recommended technology enhancements?





Approach

- Conduct qualitative research on the global audit workforce
- Define their motivations, values and behaviors
- Map their motivations and values to the current audit process and identify pain points
- Create series of auditor archetypes that define the dimensional needs of the auditor and how to motivate them through digital tools
- Create an matrix of opportunities, features and recommendations for enhancing digital tools to better serve auditors
- Utilizing recommendations from the matrix of opportunities, understand how the current user interface technology can be enhanced to better serve the needs of the auditor





User research

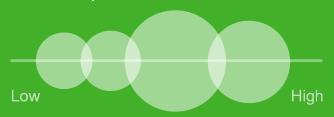




User research - interviews

Interviews 31 % 10

Audit experience



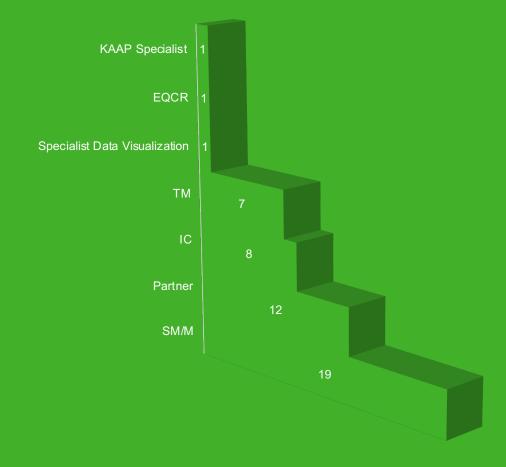


United States, United Kingdom, Canada, Germany, Australia, Netherlands, France, China and Japan



User research - interviews







User personas & empathy mapping







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Empathy profile



There has to be a more efficient way of doing this.



Behind, overworked, but a valuable member of the team.



Creatively solving problems for herself and team.

Behavior progression tactics

- √ Focused project status + tracking
- ✓ Centralized documentation + data import automation
- √ Visual learning opportunities
- ✓ Increased interaction with specialists
- ✓ Simple + easy to use + customizable D&A for testing

Meet Maria.

Behavior Profile

Thinks big

Problem solver

Visual thinker

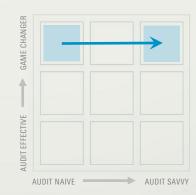
Comprehensive notes

Meticulous researcher



Why this persona?

Maria represents the up-and-coming team member. She know what she wants from her career and takes pride in her work. A big picture thinker, Maria is always looking for efficiencies for herself and her team.



Progression summary

Reward creative problem solvers with advanced learning opportunities covering complex issues. Increase bilateral learning between auditors and specialists. Standardize and automate menial tasks when possible.



Empathy profile



I need to update my team on the new relevant standards.



feeling

Constrained by limited status and communication tools.

Meet Kelly.



doing

Providing individual quidance and best practices to team members.

Behavior progression tactics

- ✓ Automated audit health + status
- ✓ D&A for improved risk assessment
- ✓ Integrated project management + tracking capabilities
- ✓ Promotion of team space, enhanced communication standards
- √ Mobile learning opportunities, mobile push updates

Why this persona?

Kelly represents the well rounded auditor who prides herself in effective communication, understanding of audit health, and enabling her team to grow and evolve into savvy auditors of the future.

Behavior Profile

Ambitious

Enables others

Transparent

Visually + text minded

Aware



Progression summary Promote team dynamic and big spaces and unified

AUDIT SAVVY

picture thinking with team communication. Increase audit savvy with enhanced use of D&A, mobile access to audit health, and micro / mobile learning opportunities.



Empathy profile



We're on track. Team is optimized and they have the tools they need.



feeling

Informed and confident. I have insight into all aspect of this engagement.

Meet Emily



Effectively presenting findings to clients using client portal.

Behavior progression tactics

- √ Advanced analytics to increase audit efficiency + reduce risk
- ✓ Automated engagement / portfolio health + status
- √ Insights into industry developments and client competitors
- Customizable KPI widgets + notifications
- √ Mobile audit health, notifications + feedback

Why this persona?

Emily represents the audit leader of the future. She is well informed, creative in her audit approach and effectively leverages her team's skills while empowering them with modern tools and enhanced guidance.

Behavior Profile

Visionary

Enabler

Creative + intuitive

Aware: client + audit

Informed: audit + tech

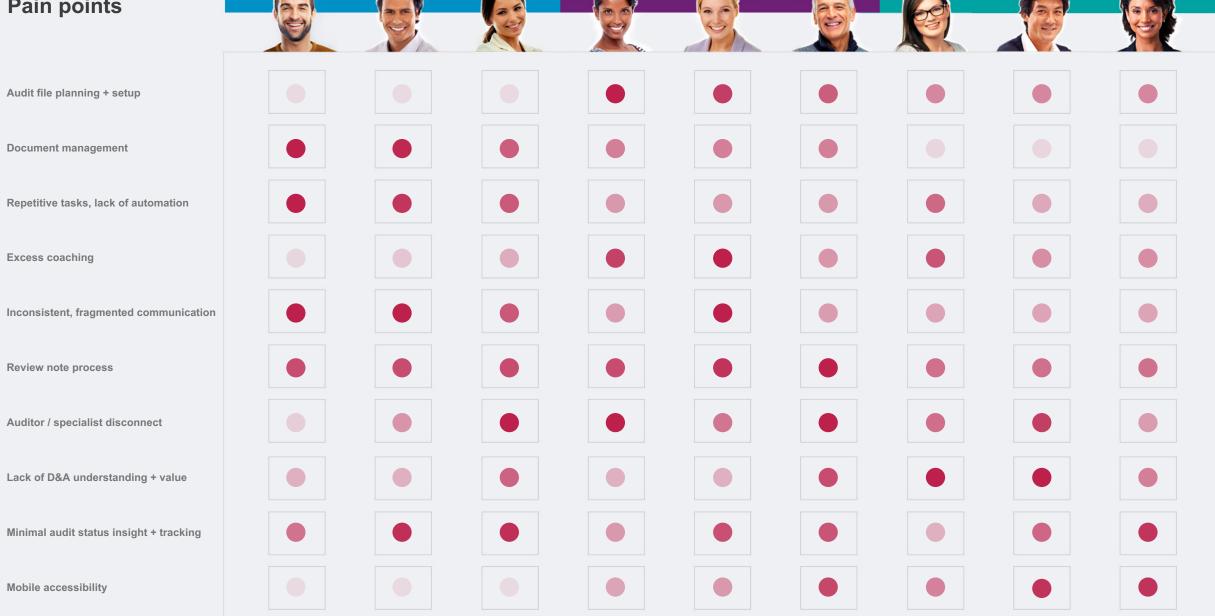


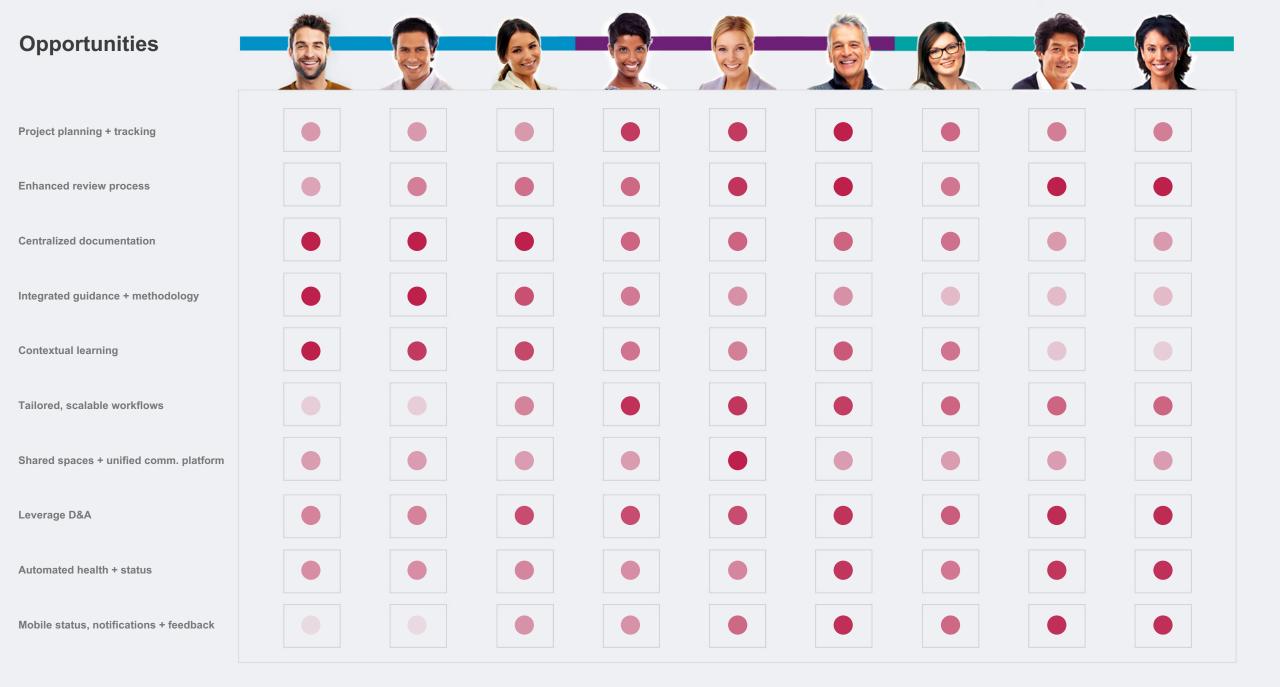
Progression summary

Empower auditors of the future with advanced audit technology and insights into client and industry specific data. Drive insight and efficiency with audit / portfolio health and status regardless of device.



Pain points

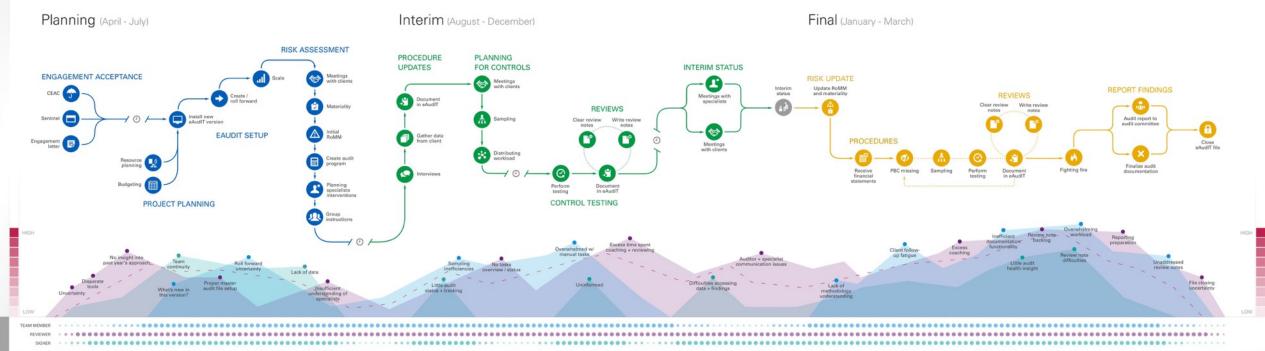




Journey mapping









STRUCT, CHOICES

Project planning is cumberome and rarely changes from the previous year. Can it be simplified / automated?



- · Centralize and integrate tools and systems · Reference previous year's planning / budget
- · Integrated resource tracking
- . Addition of visual deadline tracking
- . Ensure roll forward completeness

Tailored workflow

Leverage D&A

- . Adapt workflow from KAM to PCAOB and other standards
- · Improve specialists sections with enhanced dialogue / documentation of routine risk mitigation and how to interpret results, etc.

Scalable + customizable workflow

- scale up questions, and guidance to ensure
- audit files fit engagement needs. · Provide prototyping view when scaling-up



the ability to tailor audits to lients' needs would save time

Tailor workflows, scale up, assess

risk + back it up with data

. Use D&A during Risk Assessment

benchmarking, historical data

· Machine learning to automate audit

. Financial KPIs for Partners

. Slice & dice Fin Rep (BI),

program creation

Contextual learning +

integrated methodolgy

Contextual learning opportunities

- . Discovery mode (enable / disable learning opps)
- . In-line, contextual learning opportunities . Quick, convenient and targeted
- · Illustrations, videos, audio clips
- · Micro learning library
- · Social learning + sharing accomplishments

Integrated guidance + methodology

- . Just in time guidance + methodology . There when you need it, hidden when you don't
- · Progressive disclosure: activity, requirement, guidance and audit examples

Automated health + status

· Automated, on-demand, customizable dashboard . Overview screens in eAudIT for team members (Controls status, accounts, activities in general, RF needed or not, results effective or not)



Communication in our team approach this section. I know is good, but inefficient. I do we covered this in training, my best to coach them, but finding time is difficult."

Team enablement through spaces + unified communication

Shared spaces + centralized communication

- · Shared team space
- . Group coaching + learning
- Standardized communication within eAudIT
- · Comments, activities, newsfeed, etc.

Automated health + status

. Enhanced tools for understanding engagement progress and status

Project planning + tracking

- . Milestones / team calendar / planning to keep deadlines in mind and involve team
- . Integrated audit files: tracker items, finding: and review notes, etc.

w D&A can bring value to ur engagement. I just don't

KAIROS

D&A education + bi-lateral learning between auditors and specialists

- Leverage D&A . Integrate D&A education, IT Audit, and
- IRM audit approach . Provide tools and insights to be successful

. Automate mapping & analysis

. Use D&A to accelerate audit testing activities, cover full population, reduce human error, reduce stress, ask smarter questions (outliers)

Shared spaces + centralized communication

- · Shared team space · Auditors + specialists
- D&A coaching + learning . D&A best practices

Embrace + advocate audit

technologies of the future

Leverage D&A . Integrate D&A education, IT Audit, and

My clients don't always

audit tech and analytics.

- IRM audit approach
- . Provide tools and insights to be successful

Automated health + status

- · D&A based reporting . Visually appealing reports for client consumption
- · Automated deliverable creation
- · Financial statements for small audits
- · Management letter points
- · Engagement letters
- . Status report, findings, etc.

Enhanced review process · Risk-based guided workflow

Prioritize issues, tracking

+ enhance the review process

- · Assign (ownership), track (timely clearing), notify (alert)
- . Consolidate review notes in a single screen
- . Pivot workflow for reviewing ease (review mode)
- · Targeted review notes (specific sections)

REVIEWER

"I want to focus on what

most, regardless of whether I'm

in the office or at a client site."

- · Customizable notifications
- · Mobile enabled review capabilitie
- Automated health + status

Mobile status, notifications + feedback

· Customized urgent push notifications

. Status, dashboards, overview

· Creation of review notes

· Automated, on-demand, customizable dashboard completeness by process/activity, etc.)

- . Automate what can be, outsource to central · Role based KPIs (tasks status, time tracking,
 - teams (easy and specialized tasks)

Centralize, standardize

Centralized documentation

and link them to activities

delays + notify when recieved

+ automate

- Modern UX / UI + tech enhancements
- · Automate mapping & analysis

. Unified document repository, integrated

access, viewing, management within eAudIT

. Send automated reminders to client + measure

. Build trust with client regarding data securit

· Integrate PBC into eAudIT (+ placeholders)

. Use a single repository for all attachments

. Provide team with standardized templates and

Is there a better way?

- working papers for recurrent activities
- . Prevent errors (large buttons, rules preventing inappropriate actions, explain errors).
- . Integrate Office Suite capabilities to eAudIT · Dynamic flowchart visualization capabilities

udit health tracking + status would keep me informed and

Shine with industry leading audit health, status + reporting

Automated health + status

- . Visually appealing reports for client consumption
- · Automated deliverable creation
- . Financial statements for small audits
- · Management letter points
- · Engagement letters . Status report, findings, etc.

Mobile status, notifications + feedback

. Status, dashboards, overview

- . Customizable, priority based, push notifications . Creation of review notes

Insights & future state opportunities





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Ensure successful audits with integrated project planning & project tracking capabilities.

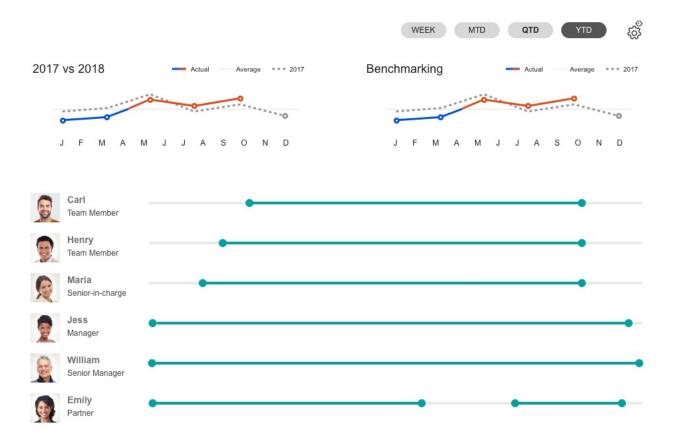
Audit engagements require meticulous project planning and tracking. Proper planning and budgeting for engagements, large or small, is of the utmost importance to ensuring a high quality audit. Today, auditors juggle multiple disparate systems, resulting in reduced insight and quality.

Audit teams should be able to track status throughout an audit. Software tools should enable teams to be flexible and react to unplanned situations proactively. Real-time budget and planning metrics that provide critical insights can reduce the amount of context shifting, budget and execution churn and stabilize team efficacy.

Opportunities

- Integrate with current project management systems
- Provide the right data during budgeting, resource planning, tasks assignment
- Build in milestone creation, deadline definition and resource involvement
- · Real-time visual status throughout an audit engagement
- Set proper role definition and expectations





Milestones

Insight 3

Save time, reduce redundancies, & unify teams — use a **centralized documentation repository**.

Current methods for managing client documentation, working papers, and attachments are overly complex and time consuming. Files are exchanged with clients and colleagues through multiple channels including email, flash drives, and cloud based solutions resulting in lack of team insight, versioning issues and wasted time. This lack of centralized documentation creates unneeded friction and overall frustration throughout the course of an audit.

Opportunities

- Create a single source of truth for audit documentation
- Create permission based 'spaces' for team and client
- PBC placeholders and task list
- Link (reference) documents within controls and activities
- Updates, reminders, notifications
- Documentation templates (global and local)
- Seamless document and workflow management

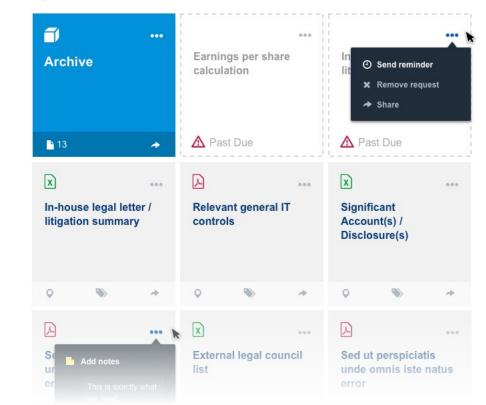




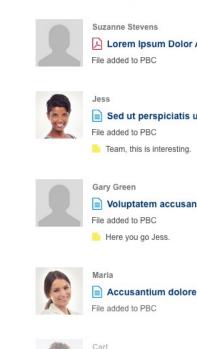
Client ABC - Prepared by Client (PBC)



Spaces



Recent activity



ASU 2010-17 - Rever

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Empower auditors, in real time, on the move, with mobile audit status, notifications & feedback.

Within the global audit workforce, managers and above often juggle multiple clients and are consistently on the move. As part of the effort to enhance our audit workforce, we should focus on ways to be mobile-first in our approach. By providing a limited but valuable subset of functionality, including audit health, milestone and task tracking, review comments and approvals, and push notifications, we can empower the global audit workforce with the information and tools needed to succeed.

Opportunities

- Responsive interface for tablets and phones
- Mobile optimized audit health
- · Access to milestone and task tracking
- Mobile enable review workflow
- Customizable push notifications



General recommendations



Optimize auditors' experience with product-based, modern UX/UI & technology enhancements.

The modern employee expects more from his or her digital experiences. Workforce digital experiences need to be as effective, user friendly and easy to use as the tools they use in their personal lives. Responsive web, cloud based technologies with rich text formatting, auto-save, change tracking, version control, edit what you see, are the norm in today's digital workforce. The delta between current digital functionality and user expectations leads auditors to often turn to outside solutions.

User expectations and needs will never stop evolving. To meet the needs of this ever-evolving workforce, it is imperative to plan for progressive, user-centric enhancements well into the future.

Opportunities

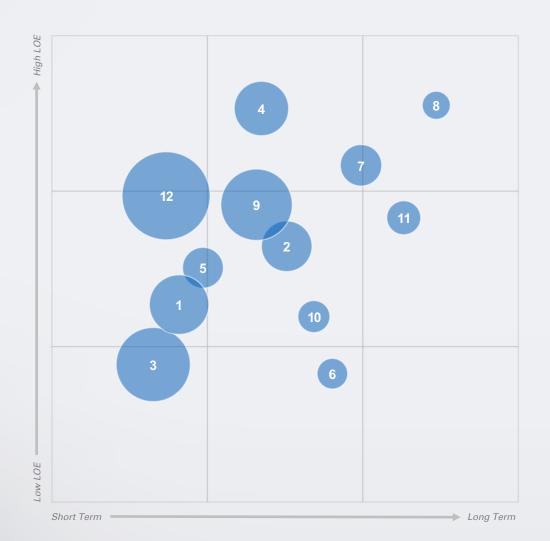
- Future state roadmap
- Product-focused approach
- Workflow solutions that match the users and their needs
- Functional update to meet modern UX standards
- Visual alignment with modern brand standards

Automation, data mapping & analysis standardized templates and working papers process mining VISUA modularity flowcharts for processes unify screens

User experience impact





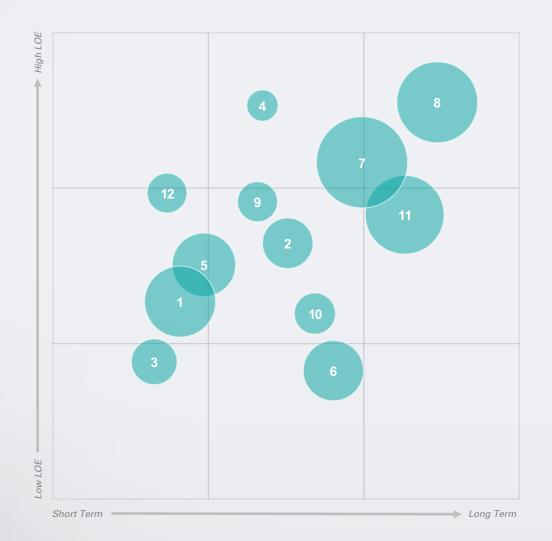


- 1. Integrated project planning & tracking capabilities
- 2. Enhanced review process
- 3. Centralized documentation repository
- 4. Mobile audit status, notifications and feedback
- 5. Integrated guidance and methodology
- 6. Contextual learning opportunities
- 7. Advanced scalability & customizable workflow engine
- 8. Tailored to requirements of local standards
- 9. Shared spaces & centralized communication platform
- 10. Automated audit health & status
- 11. Leverage the power of D&A
- 12. Modern UX/UI & technology enhancements

Audit quality impact







- 1. Integrated project planning & tracking capabilities
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