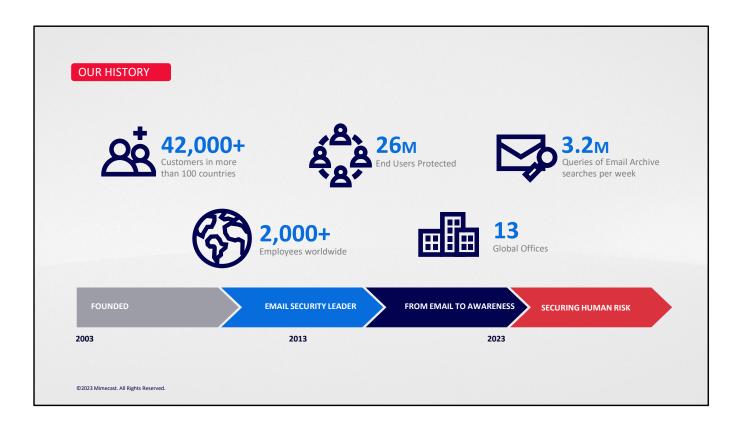
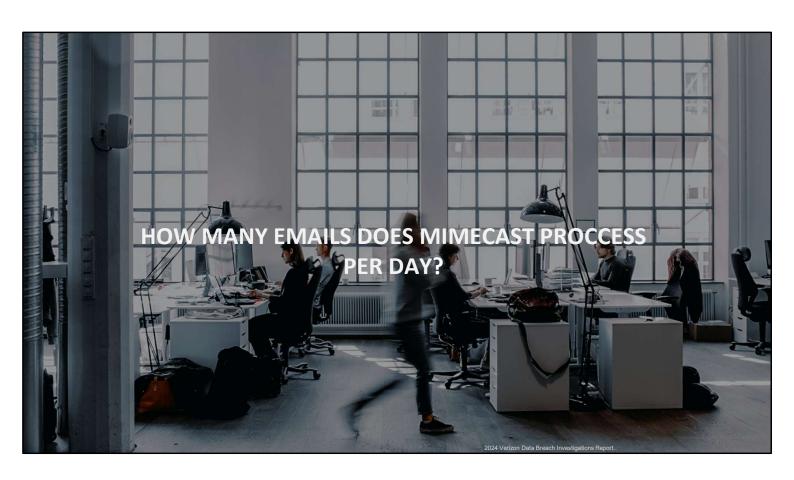


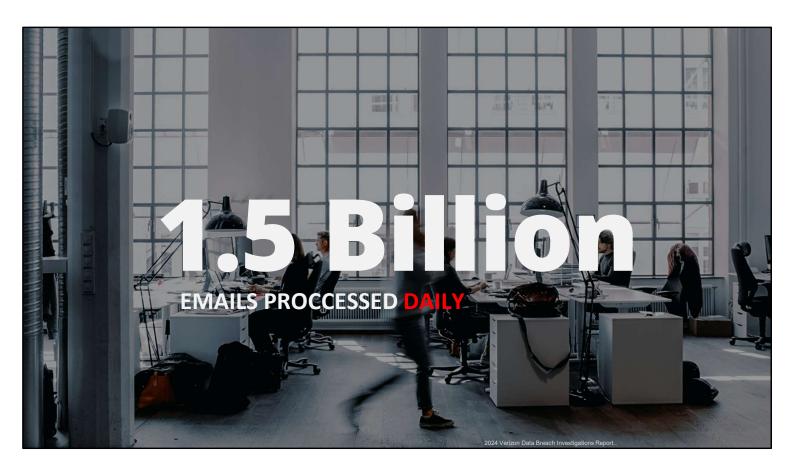
I'm Harpreet, SSE at Mimecast. Over my career, I've directly with the tech, with people and supporting sales functions and my recent roles in my career blends both together which gives me a unique view over how organisations are faced with an ever changing threat landscape. So today we will exploring everything to do with Human risk, what exactly is it, how do we expose it and what to mitigate it. But before we do that, who is Mimecast...



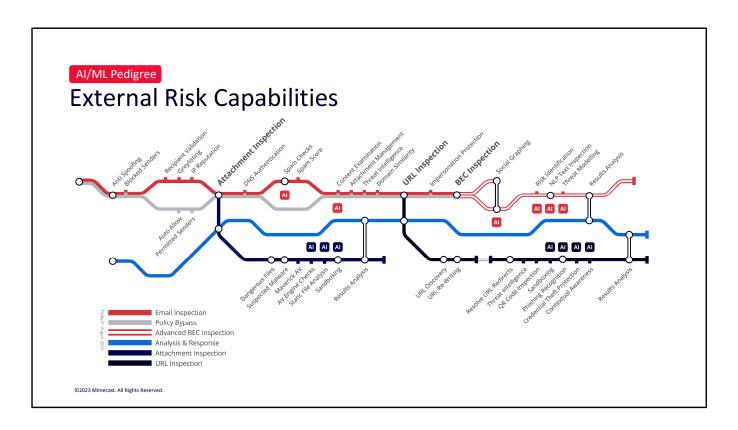
Today, Mimecast is a human risk management platform but we didn't start off that way. Mimecast was founded over 2 decades in 2003 as a email security solution, then as times moved on and more advanced threats were being faced by customers, we adapted with multi-layer, AI/ML enabled technologies to catch advanced threats.

since 2013, we saw that the risk was shifting from the tech to the users, humans, us guys and we moved into user awareness and human risk. Today, we secure over 42k orgs over 100 countries. Now you have some stats on the screen here and we're going to check if the caffeine has hit your system yet as I am going to as you ladies and gents a question.. And that question is...





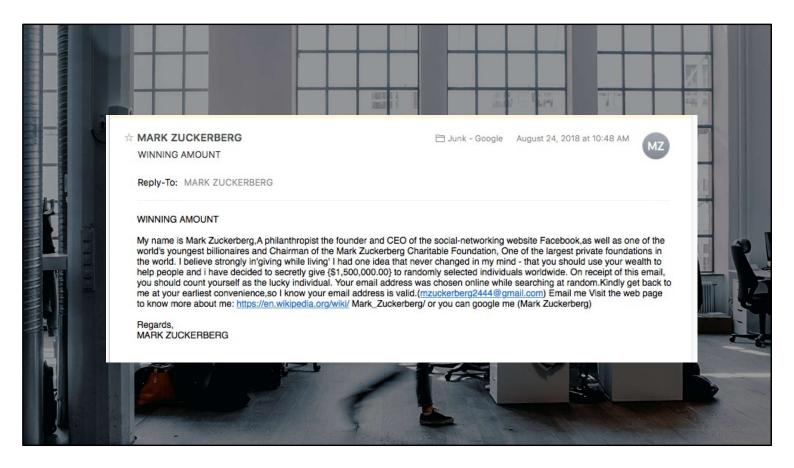
- Which is a LOT of emails. But that also gives a great opportunity to view the treasure trove of data which we will be exploring.
- Each one of those emails goes through our AI/ML enabled multi layer scanning engines...



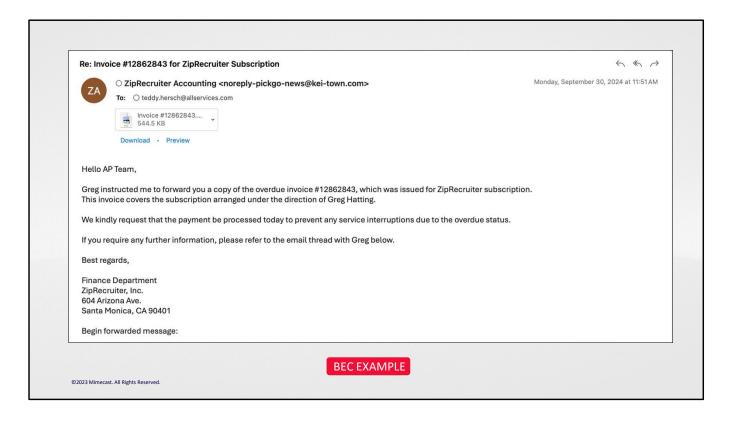
Everything from sandboxing attachments to detecting advanced impersonation right down to NLP extraction to read the sentiment of an email.

AS AN ENGINEER, spend all day talking about each individual part of this but point to takeaway, an email does not have to be technically advanced to do LOT of damage. analysing threats all day everyday, we realized that the attacks that has done the most reputational and financial damage, have no attachment, a virus or URLs. They caused a major breach because what they were able to do was incite trust in the target, they knew the responsibilities of an individual, when someone was out of the office by monitoring out of office replies, alongside knowing who they worked with through siphoning off information from the likes of LinkedIn.

NOW, having said that, some of the emails coming in look like this....



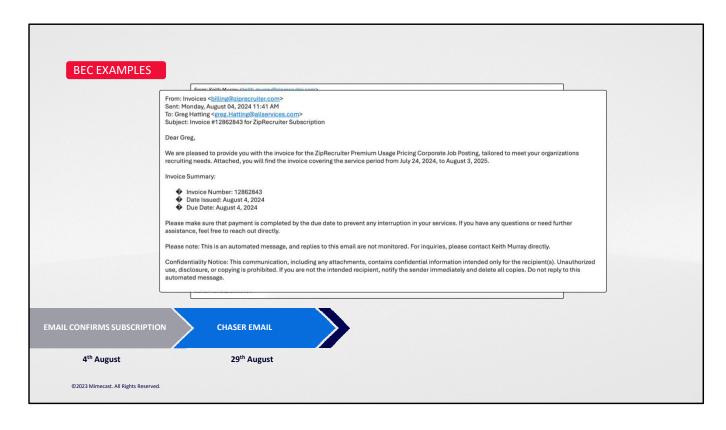
- if I sent you an email claiming to be mr Zuckerburg himself claiming I've got money billions burning a hole in my pocket, would you be able to spot this email as maybe idk slightly fake? Would your users? Yes probably or we sure do hope so.
- WHAT ABOUT THIS ONE..



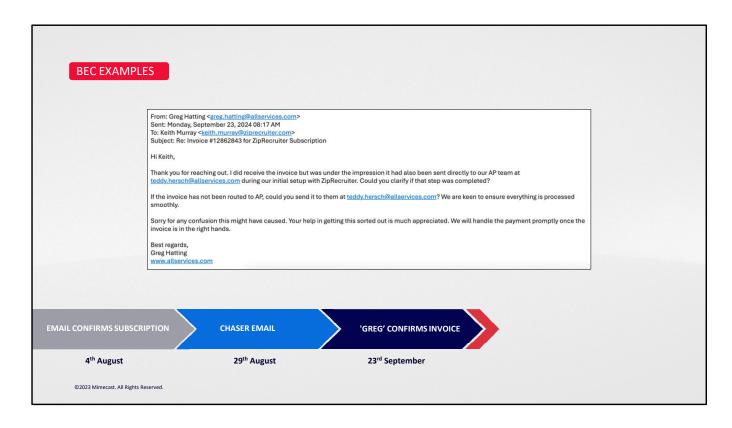
Okay, it get's a lot lot trickier, This attack is making use of social engineering to refer to another internal member. A lot harder to detect, and a couple second misstep replying to the wrong person and poof, there goes a healthy chunk of change, likely followed by a heart warming conversation with your HR department, So to make things tougher, let's put it into context as this was an actual attack to one of the organisations we support, it has been anonymized of course but these attacks are happening and in large numbers and THEY ARE DIFFERENT EACH TIME, WE CANNOT USE A BLACK OR WHITE RULE BASED APPROACH...



Ziprecuriter is TARGETTING all services. gentleman called Teddy however does not appearance until later. They send an email supposedly to Greg who is a legitimate employee in the business and works with Teddy.



Greg is emailed again from Ziprecruiter as a reminder to pay the invoice.



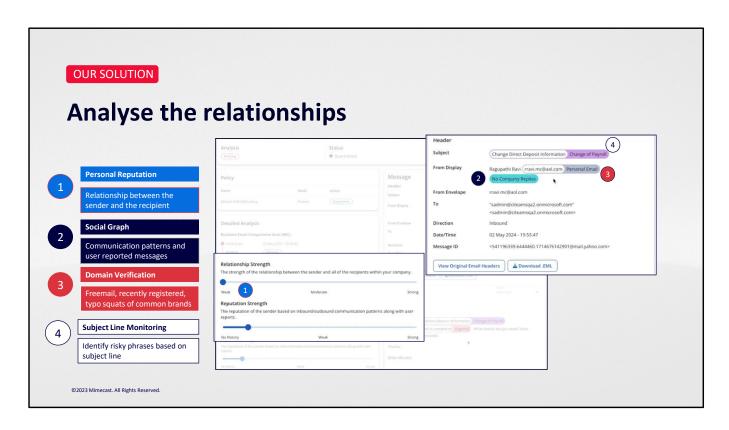
Supposedly Greg replies back to the same thread and mentions that in the meeting with ziprecruiter, the invoice should be sent to Teddy in the AP team.

BEC EXAM	PLES	
	Re: Invoice #12862843 for ZipRecruiter Subscription	
	From: Greg Hatting Sent: Monday, September 23, 2024 08:17 AM To: Keith Murray keith:keith.murray@ioiprecruiter.com Subject: Re: Invoice #12862843 for ZipRecruiter Subscription Hi Keith, Thank you for reaching out. I did receive the invoice but was under the impression it had also been sent directly to our AP team at teddy.hersch@allservices.com during our initial setup with ZipRecruiter. Could you clarify if that step was completed? If the invoice has not been routed to AP, could you send it to them at teddy.hersch@allservices.com? We are keen to ensure everything is processed smoothly.	
	Sorry for any confusion this might have caused. Your help in getting this sorted out is much appreciated. We will handle the payment promptly once the invoice is in the right hands. Best regards, Greg Hatting www.allservices.com	
	Santa Monica, CA 90401 Begin forwarded message:	
EMAIL CONFIRMS SUE	CHASER EMAIL 'GREG' CONFIRMS INVOICE EMAIL SENT TO AP TEAM	
	29 th August 23 rd September 30 th September	

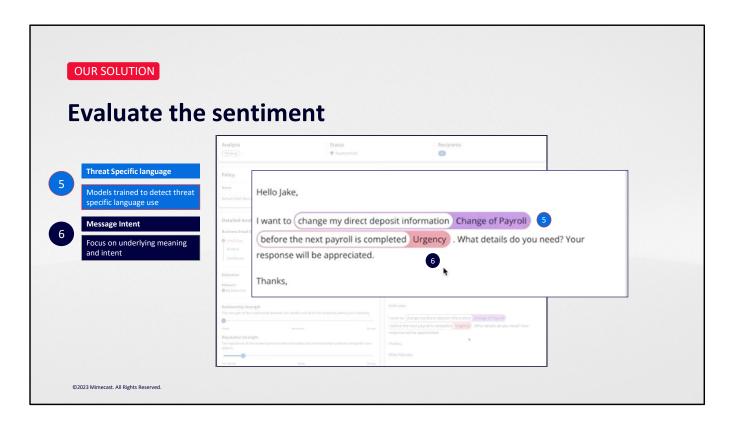
An email consisting of the entire thread is sent to an accounts payable employee to finalize the payment with 'Approval' from Greg.

Attackers are choosing to build relationships and trust, use unique knowledge about you and everyone you work with to craft detailed email chains.

The question is, are you able to detect these style of attacks? Statistically..



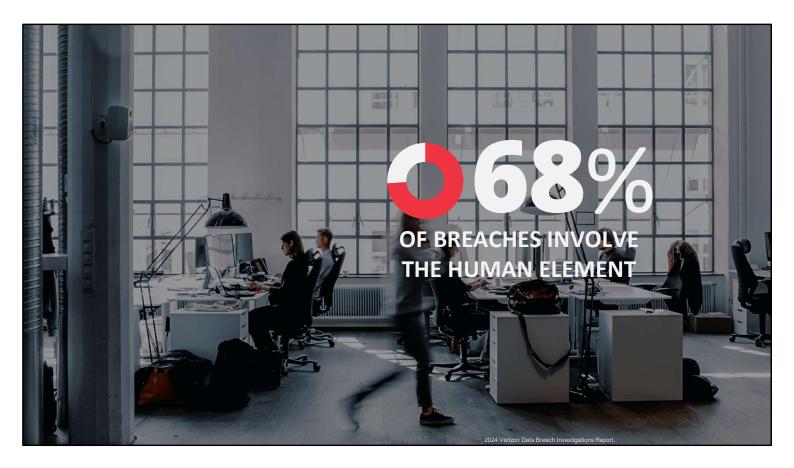
How can we then help in these scenarios?



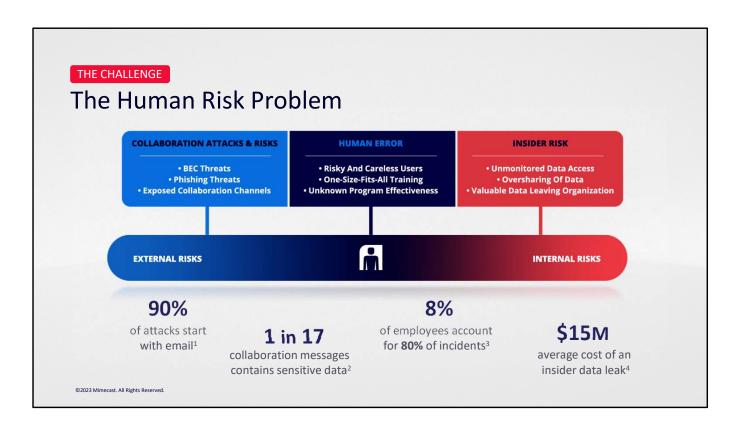
We have trained our models on messages reported to us by our more than 42,000 customers and have focused our detections on the semantic usage or meaning of the words along with context seen in those messages - the subject line and message body are inspected in the same way.

By using all these indicators improves our resilience to changing attack patterns but will also reduce the number of messages being incorrectly flagged just because they happen use the same keywords. This will result in our BEC protection identifying fewer false positives - which means as an admin you are spending less time releasing messages from the held queue.

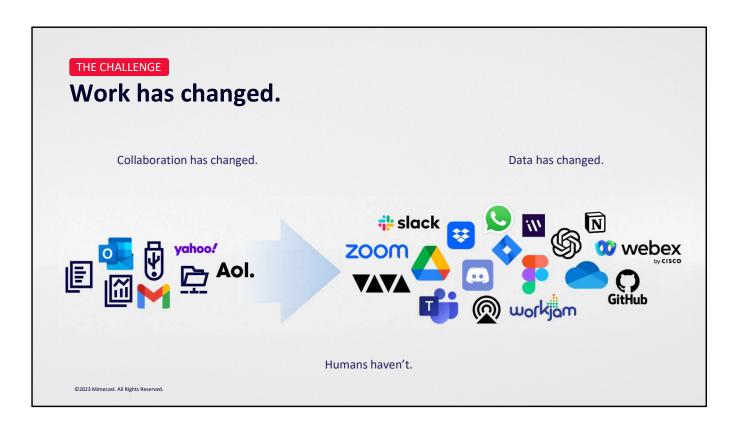
But don't think you lack control - as an admin you can take the final action; do you want to mark the message as safe or remove it?



- People are your primary attack vector.
 - **68%** of breaches involve the **human** element, and years prior showed similar staggering numbers according to the **verizon** breach report
 - But as our research teams looked closer into **where** this risk was coming from, we began to see that the risk **wasn't distributed** evenly.

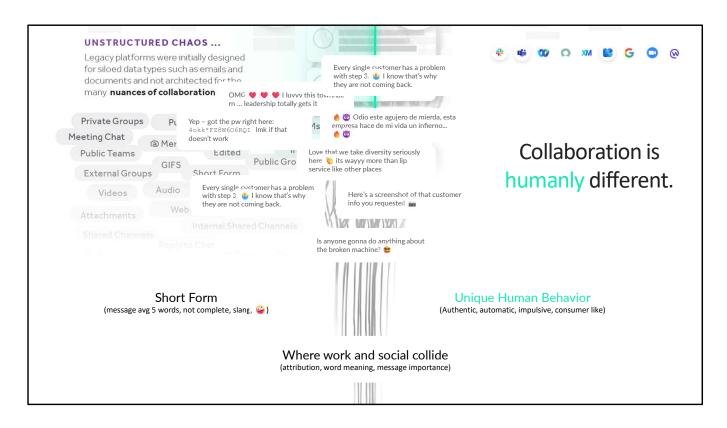


And those numbers paint human risk problem. We have EXTERNAL risk, INTERNAL and center HUMAN RISK. we spoke about identifying insider risk but data leaving your organization may not be a bunch of files attached to an email that an employee who's handed in their notice is sending to their personal gmail account, it might be a personal DROPBOX account, their ONEDRIVE .. Let me be clear, 90% of all attacks start with email but the fact is that now, with the great cough of 2020 and INCREASE in working from home policies..THE WAY WE WORK...HAS CHANGED.



...has changed. The way we collaborate has changed.. I regularly speak to customers on teams chats because it's quicker and easier than email, I might drop a few memes on slack to colleagues in a lukewarm attempt to be funny, in slightly more serios cases, you might share specialist data such as source code on github repositories

Where our communication is happening has significantly changes, BUT so has the way in which we communicate.. instead of sending an email saying hi Jimmy, please find an invitation for a discussion around security at 4PM. I might actually say...



.. I might send jimmy a message on teams, you alright for a quick chat at 4 lmk if that works for you? And he might respond back with a thumbs up (I've always thought thumbs up to a response felt like a shutdown but that's not the point)

The point is that in our working lives and in our organisations, we have UNSTRUCTURED CHAOS, even if we could have it all, where would we even start in order to identify risk? we have gifs, emojis, screenshots, abbreviations and slang. And somewhere in there is our risk, somewhere in there are passwords being shared in plain text, somewhere in there is sensitive customer data leaving your organization. This is why Mimecast has the capability to look into all of these platforms and realise the sentiment, the context and therefore quantify high risk users. Then you can begin to put mitigation and user education initiatives in place targeting the high risk users.



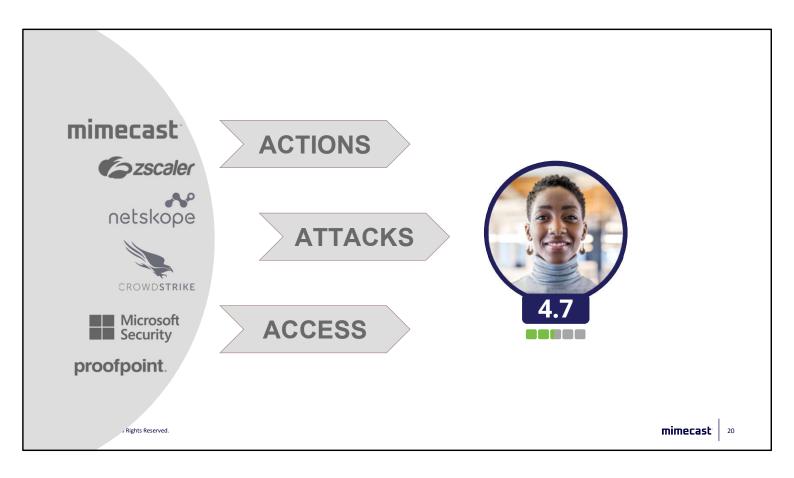
- In fact, what we saw was that **8%** of users cause **80%** of security incidents.
- So one-size fits all approaches aren't going to be effective.

Transition: Which is why we can start **thinking** about this problem in a **new way**.



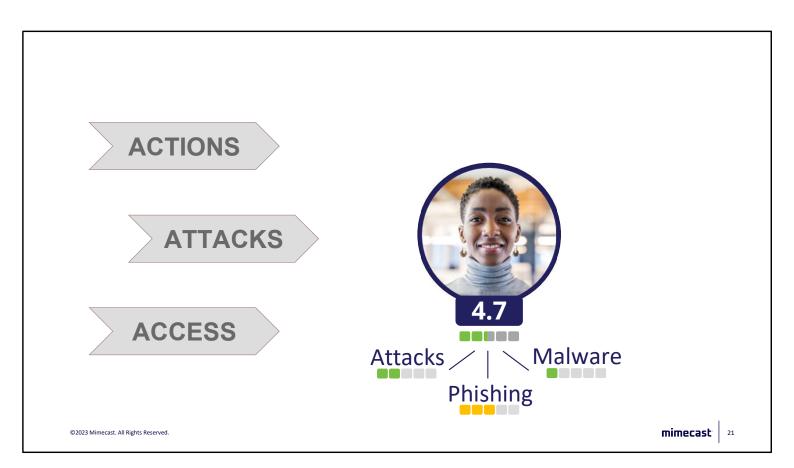
The reality is, we don't know what we don't know. We cant manage and mitigate the risks, if we don't know them in the first place? Do you wait for a breach to happen or do you spot a pattern earlier and mitigate the risk then, do you wait for you to find out that actually that employee that's watched all the training videos and answered all the questions, gives up his credentials to an impersonated email or message? No, we want to blend the simulated risk with the actual risk data, we want to reach into all of the collaboration tools we use and scan the URLs, sandbox the attachments in your OneDrive

We've made it our mission to secure human risk, by putting the human beings at the center of everything we do

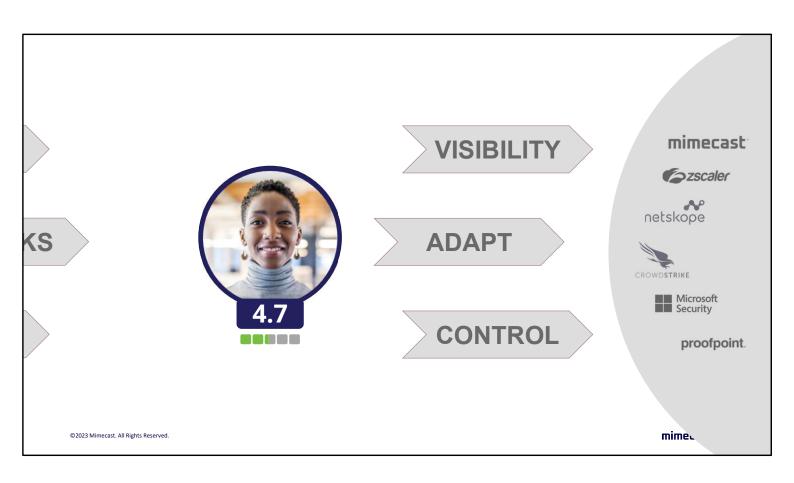


Part 1 animation:

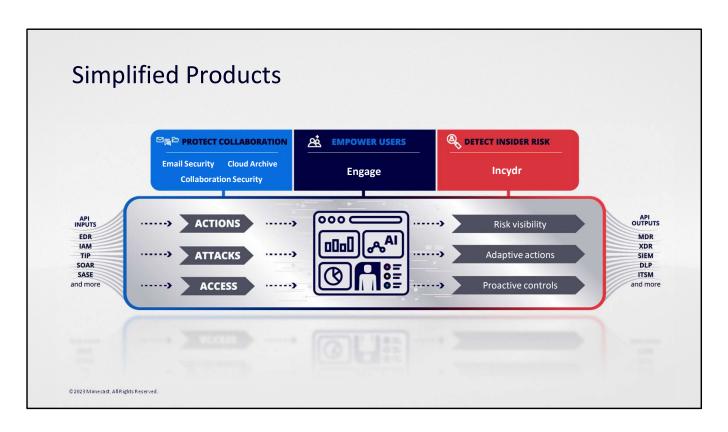
- •We **measure** the risk of an individual based on 3 factors: **their** security **decisions** (good and bad), how **frequently** they are being **attacks**, and context about their **role** and **access**.
- •The risk **profile** takes into context security actions like does Jean **click on links**, browse to **blocked sites**, attempt **malware downloads**, or **mishandle sensitive data**, just to name a few.
- •We gain an understanding of factors by **integrating** with security tools you **already** have in place today.



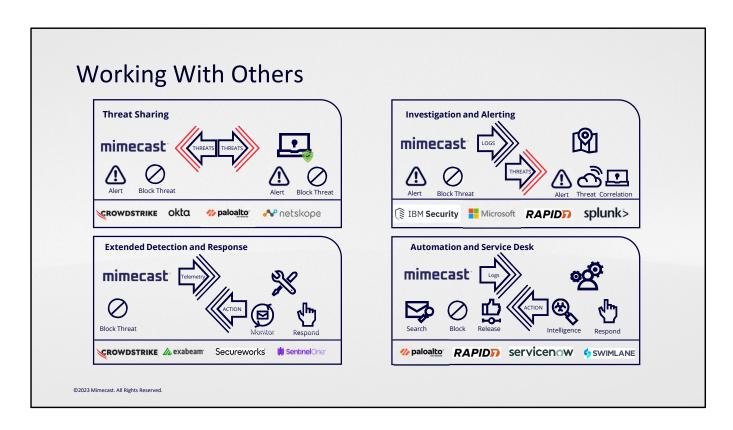
- •We pull this information back, **correlated** with your **HR data** to give you insights into **individual risk**.
- •This will let you **understand** your **human risk** like never before. You are able to gain insights like riskiest **departments**, **geographies**, and **individuals**. You'll understand your **repeat** offenders and who your security **champions** are in a single dashboard.



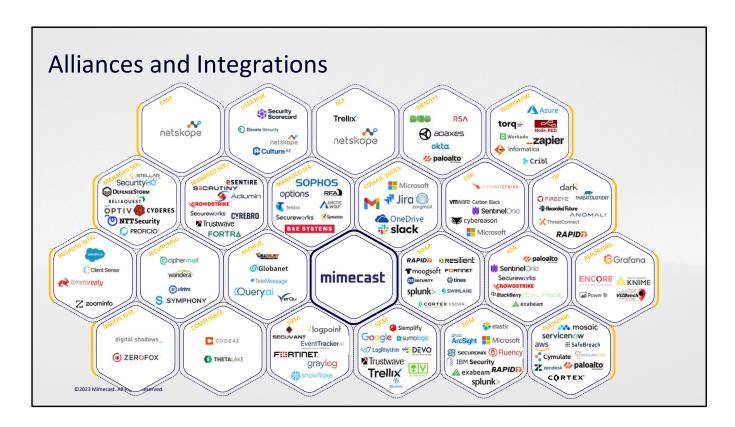
- •But we dont just equip you with the **visibility**. The platform also lets you **take action** on the findings through pre-built **playbooks** and automated **workflows**.
- •an example of these workflows include the ability to **assign training**, send personalized **scorecard** to individuals and managers, and provide real time **nudges** via slack/teams.
- •We are also **incorporating** this risk insight into our secure email **gateway** solutions, giving you recommended **policies** based on user risk.
- •We also understand that you and your team make security decisions in a variety of **other technologies**, so this user risk data can be pushed to other partner technologies, helping making more **context rich decisions** in workflows the **access reviews**, **incident response**, and others.



We need to take everything into account to build a pattern for your organization and then work with AI/AL to really hone in on the anomalies. Every org is different, every user is different, so why should each user be treated the same when it comes to risk? We provide the ability to expose the risks, and mitigate the risks through personalized training, dynamically changing protection in line with user risk profiles and proactive controls to make sure we spot breaches before they happen.



We spoke about external risks, BEC attacks, insider threats, and of course the user education but one thing that takes it to the next level, you guessed it, even more data! WE HAVE A TREASURE TROVE OF RISK DATA BUT SO DO OTHER TOOLS. Sharing our data with other tools you have and vice versa compounds the value you get from multiple tools you are using.



We have over 100 prebuilt integrations ready to go in 5 minutes. This is where we take the human risk to the next level. The measuring of simulated vs actual risk, the incorporation of data from your HR platforms, your endpoint solutions giving us a rich details of what users are doing outside email and collaboration tools and the ability to mitigate the now exposed risk through well defined workflows means exposing, preventing and containing threats is now so much easier and can be done all under one roof and that's why Mimecast is a leader.. NEXT SLIDE.. in the Human risk management space.



Thank you everyone for being a great audience, any questions please feel free to reach out to be as myself and my team Alex and Catherine will be here after the sessions today.