

HFS Horizons Report

Process Intelligence Products, 2023

January 2023

AUTHORS:

Reetika Fleming, Executive Research Leader Sam Duncan, Practice Leader Hridika Biswas, Senior Analyst

"

The vendor landscape for process intelligence looks radically different today than just a few years ago. Many vendors have been snapped up by larger enterprise technology platforms, automation, and workflow vendors. All the while, we've seen new entrants use different approaches to gathering and analyzing how people work. The net result? Enterprise clients are spoiled for choice more than ever before, and we see the adoption of process intelligence across a wide range of use cases, from process excellence to automation ROI, ERP modernization, organizational visibility, risk and compliance, and training and development. The playbook for process intelligence is very much still in development.

Reetika Fleming, Executive Research Leader

"

Process intelligence is one of the hottest emerging technologies we track at HFS. The market landscape is continually changing as an increasing number of vendors see the value of delivering process excellence for enterprises, and they're willing to aggressively partner, invest, and acquire to mature their own capabilities. For enterprises, there's never been a better time to dive into the world of process intelligence. Market consolidation is making the technology more accessible than ever, and the business value we see today is only the tip of the iceberg for process intelligence's potential.

Sam Duncan, Practice Leader

Contents

1	Introduction and the HFS value chain	4
2	Research methodology	8
3	Market dynamics	12
4	Horizons results: Process intelligence products, 2023	16
5	Horizons profiles: Process intelligence products, 2023	20
6	HFS Research authors	40



Page



Introduction and the HFS value chain

Introduction

- This HFS Horizons: Process Intelligence Products, 2023 report evaluates leading process mining and task mining vendors' capabilities. Organizations have found themselves battling decades of technical and process debt, and in the digitally enabled economy, enterprises with efficient operations will succeed. Process intelligence products have the potential to help enterprises significantly impact operations and tackle technical and process debt.
- The HFS Horizons: Process Intelligence Products, 2023 report examines 20 tech vendors across a defined series of value propositions, execution and innovation, go-to-market strategy, the voice of the customer, and alignment with the HFS OneOffice criteria. The report highlights the overall positioning for all participants and the leaders for each sub-category.
- This report also includes detailed profiles of each tech vendor, outlining key company capabilities, strengths, and development opportunities.
- We supported this Horizons research with input from 400+ enterprise clients from the Global 2000. We asked specific questions about the innovation and execution performance of the tech vendors we assessed. We augmented the research with information collected in Q3 2022 through vendor RFIs, structured briefings, inputs from HFS' network, and publicly available information sources.

Key findings

1	Horizon 3 vendors	We assessed 20 product vendors across value proposition, execution and innovation capabilities, go-to-market strategy, and market impact criteria. The Horizon 3 leader is Celonis, with the potential to drive seamless cross-organization process improvement, leveraging a combination of data-collection approaches to analyze structured and unstructured enterprise data and deliver impactful insight at scale for enterprises. Further, it has curated rich ecosystems of partners to complement its own capabilities and has effectively attracted, trained, and retained industry-leading talent in a hugely competitive market.
2	The impact of market	Process intelligence continues to be one of the fastest-moving emerging technology markets we track. There are investments, partnerships, and acquisitions aplenty. In 2022 alone, we saw Celonis acquire PAFnow, Microsoft acquire Minit, and Pega acquire Everflow; 2021 was equally as active. Market consolidation can put process

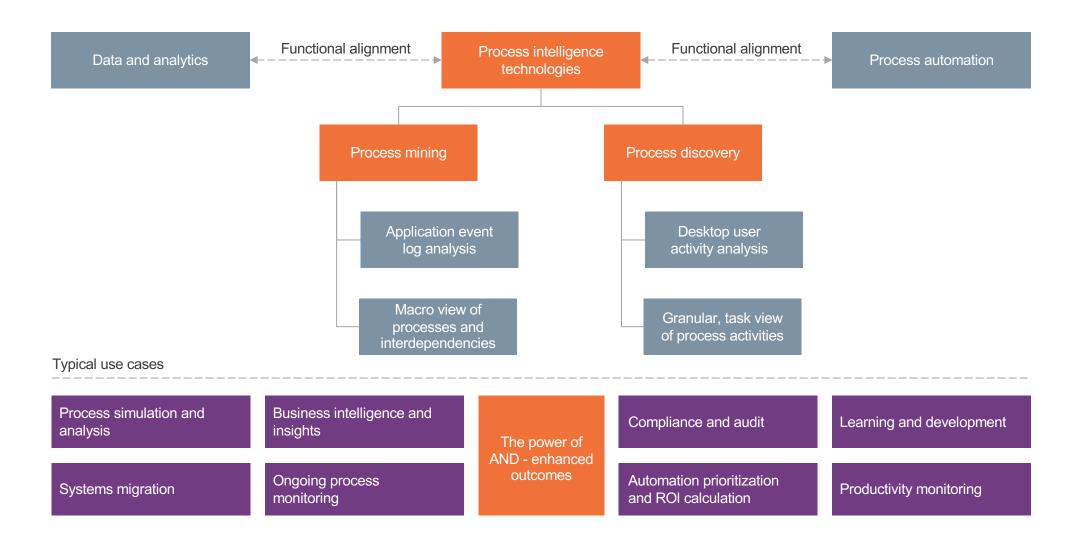
market In 2022 alone, we saw Celonis acquire PAFnow, Microsoft acquire Minit, and Pega acquire Everflow; 2021 was equally as active. Market consolidation can put process intelligence products into the hands of even more organizations, positioning the market for continued rapid growth. For example, Automation Anywhere rolled FortressIQ's process discovery capabilities into existing engagements at no extra cost. However, some enterprises told us they prefer to partner with pure-play process intelligence vendors, and the everchanging market landscape makes it increasingly difficult to select a long-term partner for fear of them being acquired.

3 The combination of process and task mining by the term of term o

4 Enterprises are looking for UI/UX improvements Adopting process intelligence is a daunting task for any enterprise, regardless of its experience level with other emerging technologies. To that end, leading process intelligence vendors offer streamlined onboarding processes, deliver effective support, and, critically, have clean and easy-to-navigate UI/UX, which clients told us could be a leading reason for selection. However, a handful of enterprises also told us that UI/UX was one of the leading areas of improvement for their chosen vendor, with some saying their vendor "could do more here" and "they can make it more user-friendly."

5 **Early integration** remains a challenge—or a selling point In a recent study assessing the state of the process intelligence market, we identified early integration challenges as a significant roadblock to process intelligence adoption. Our conversations with enterprise clients throughout this report confirmed this, as many stated it remains a challenge. However, several enterprises also told us that "easy integration" was one of the key selling points for their vendor, which means the vendors that solve the integration challenge could be poised for success in 2023.

Process intelligence product scope





Research methodology

Vendors covered in this report



Note: All tech vendors are listed alphabetically

IFS horizons © 2023 | HFS Research

Sources of data

This report relied on myriad data sources to support our methodology and help HFS obtain a well-rounded perspective on process intelligence vendors in our study. Sources are as follows:



RFIs and briefings

Each participating vendor completed a detailed **RFI**.

HFS conducted **briefings** with executives from each participating vendor.



Reference checks

We conducted reference checks with active clients of the study participants via phone-based interviews and detailed surveys.



HFS vendor ratings

Each year, HFS fields multiple demand-side surveys in which we include detailed vendor rating questions. For this study, we leverage the HFS Pulse data featuring **400+ vendor ratings from Global 2000 enterprises.**



Other data sources

Public information such as press releases, websites, etc.

Ongoing interactions, briefings, virtual events, etc., with in-scope vendors and their clients and partners.

Assessment methodology

The HFS Horizons: Process Intelligence Products, 2023 report evaluates vendors' capabilities across a range of dimensions to understand the Why, What, How, and So What of their process mining and task mining products offering.

-	4	Assessment dimension	(weighting)	
	Value proposition: The Why? (25%)	Execution and innovation capabilities: The What? (25%)	Go-to-market strategy: The How? (25%)	Market impact: The So What? (25%)
	 Strategy for process intelligence function and vision for the future of process mining and process discovery Process intelligence products aligned to addressing the top problem statements of enterprise clients across different use cases Differentiators—Why enterprises would choose your product 	 Depth and breadth of key functionalities that go across process intelligence technologies Scalability & flexibility to drive large-scale process intelligence adoption Extensibility to seamlessly plug into an enterprise technology landscape Level of focus to provide training, service, and support capabilities to enterprise customers. Helping clients treat data as a strategic asset Applied technology innovation 	 What are you selling to different levels of a client organization? Approach to and strength of ecosystem partners Nature of investments in building process intelligence products: M&A, non–M&A, intellectual property (IP) Co-innovation and collaborative approach with customers and partners, including commercial models Geographic presence 	 Scale of process intelligence products: revenue, growth, and number of clients Proven outcomes showcasing the nature of value delivered to process intelligence clients Voice of the customer feedback on overall performance (reference and non-reference clients)
Horizon 3	• Horizon 2 + ability to drive "OneEcosystem" synergy via collaboration across multiple organizations with common objectives around driving completely new sources of value	 Horizon 2 + comprehensive depth and breadth of key functionalities across process intelligence Cutting-edge product innovation that is adopted by multiple clients seeking broad-based technology transformation 	 Extensive process intelligence products Investments aligned to Horizons 1 and 2 and ecosystem enablement Horizons 1 & 2 + co-creation with customers & partners Horizons 1 and 2 + new value creation C-Suite coverage across lines of business and geographies 	 Proven scale and growth driven by Horizon 2 + ecosystem synergy Top marks as a global growth partner driving new processes Referenceable and satisfied clients driving process excellence leveraging process intelligence products.
Horizon 2	• Horizon 1 + enablement of the "OneOffice" model of end-to-end organizational alignment across the front, middle, and back offices to drive unmatched stakeholder experience (EX, PX, CX)	 Horizon 1 + highly scalable and flexible set of process intelligence technologies Creation of accelerators, connectors, and other points of integration to a wide range of enterprise technologies Strong strategic process intelligence expertise and talent pool to support enterprise adoption 	 Horizon 1 + investments aligned to large enterprise clients, range of personas and LOBs, Tiers 1 and 2, broad geographic coverage Range of process intelligence-specific partnerships Driving seamless process improvement 	 Proven scale and growth driven by Horizon 1 + stakeholder experience Top marks as a process improvement partner emphasizing stakeholder experience
Horizon 1	 Ability to drive functional optimization outcomes through cost reduction, speed, and efficiency 	 Robust products with the ability to support end-to-end process mining or task mining projects for enterprise clients 	 Robust process mining or discovery products Investments aligned to functional optimization outcomes Target-focused personas and lines of business (LOBs), majority Tier 2 and 3 firms, geo-specific 	 Proven scale and growth driven by functional optimization focus Top marks as an optimization partner

Distinguishing tech vendor characteristics

8

Market dynamics

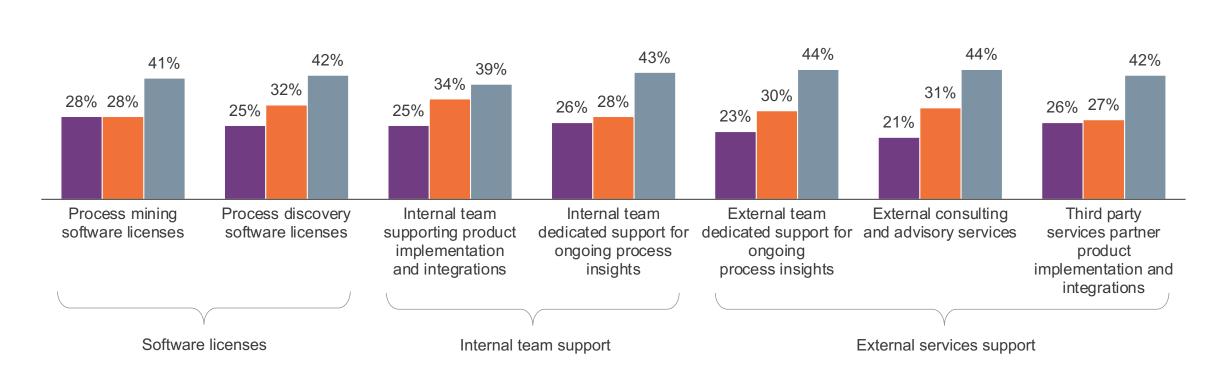
The process intelligence market shows no signs of slowing down as most enterprises predict significant spending increases"

Q: What is your current level of investment in process intelligence technology and associated services and expected spending in the next 12-18 months? % respondents

High (10%+ increase)

Medium (5-10% increase)

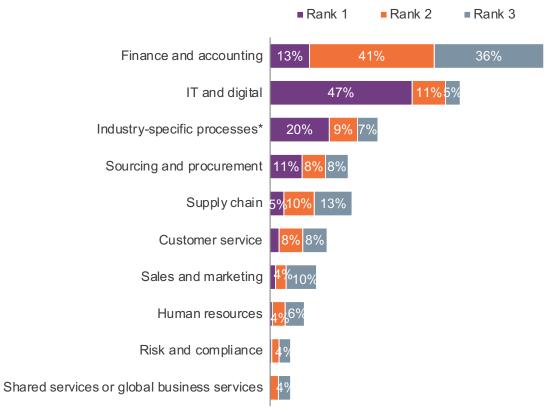
Low/No change (0-5% increase)



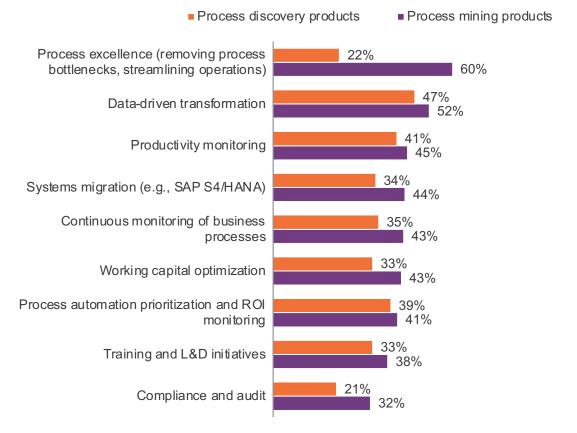
Sample: Study by HFS Research and Genpact, 2022; 400 executives from G2000 enterprises Source: HFS Research, 2023

F&A and IT departments are leading the charge for process intelligence adoption, while process excellence and data-driven transformation emerge as leading applications

Q: Where is the biggest demand for process intelligence coming from in your organization?



Q: How are you using process intelligence technologies in your organization today? (Select all that apply)



Note: The values less than 4% are not shown in the chart. Sample: Study by HFS Research and Genpact, 2022; 400 executives from G2000 enterprises Source: HFS Research, 2023

Enterprises must tackle challenges across people, data, process, technology, data, and change management

Q: What are the biggest challenges holding you back from getting more business impact with process intelligence? % respondents selecting 4 or 5 on a scale where 1 is "not a challenge" and 5 is a "major challenge today"

ິ People	Process	Technology	Data	⊗ Change ^{⊗-⊗} management
71% Lack of in-house talent with process intelligence expertise	71% Complexity of inter-related business processes	72% Failure to fully implement or productize process intelligence tools	71% Inability to extract insights from existing data	58% Lack of resource, talent, or time given to manage change properly
67% Lack of senior management mandate and vision	69% Non-standard for incomplete end-to-end processes	67% Lack of scalability of current implementation	70% Deficiency in overall data quality	51% Lack of organizational clarity & accountability for driving the process intelligence agenda
66% Lack of external service partner talent and capabilities	67% Lack of knowledge on which business processes would most benefit from process intelligence	66% Lack of clarity of full technology "stack" that aligns with process intelligence	70% Inability to invest in foundational data readiness to get more value out of process intelligence	48% Change management concerns over the effect on employees

Sample: Study by HFS Research and Genpact, 2022; 400 executives from G2000 enterprises Source: HFS Research, 2023

Horizons results: Process intelligence products, 2023

HFS Horizons—summary of process intelligence tech vendors assessed in this report

Vendors (alphabetical order)	HFS point of view
ABBYY Timeline	Potential to combine process and task mining to identify automation opportunities
Appian	End-to-end workflow management with a particular focus on government and BFSI
Apromore	Smaller vendor with mighty ambitions and a unique access into the Salesforce ecosystem
Automation Anywhere (FortressIQ)	AI-driven process intelligence in the Automation Anywhere ecosystem
Celonis	Ecosystem enabler for execution management with process intelligence
Fluxicon	Small process mining vendor steeped deep in academic history
IBM (myInvenio)	IBM-fueled end-to-end process optimization
Mehrwerk (MPM)	Qlik-based process intelligence complemented by "storytelling" data visualization
Microsoft (minit)	Hierarchical process insights with out-the-box templates, all in Microsoft Power Automate
NICE	Automation-focused, always-on process monitoring

Vendors (alphabetical order)	HFS point of view
Nintex (Kryon)	An established vendor with rich automation capabilities
Pega	Decades of process understanding now getting amplified with Everflow toward developing autonomous enterprise
QPR	Integration with Snowflake Data Cloud helps deliver quick time-to-insight and scalability
Signavio	Process intelligence embedded at the core of the SAP ecosystem
Skan.Al	Quickly x-raying operations for a detailed, holistic view of process data
SoftwareAG (ARIS)	An established process mining product doubling down on the linkages to process modeling
Soroco	Cross-industry process discovery with a bold vision on developing work graphs for enterprises
StereoLOGIC	BFSI-focused vendor that looks beyond automation to drive process excellence
UiPath	End-to-end offering from opportunity identification to deploying automation
UltimateSuite	Experienced task mining vendor with a scalable approach to data capture

HFS Horizons—Process intelligence products, 2023



Horizon 3 is Synergy

Tech vendors demonstrate Horizon 2, plus

- Ability to drive "OneEcosystem" approach by finding completely new sources of value
- · Compelling thought leadership that helps clients to articulate their North Star
- Effectively envisioning outcomes and providing business assurance for not just process intelligence, but broader enterprise operations
- Well-rounded capabilities across all value creation levers: culture, talent, domain, technology, data, and change
- · Driving co-creation with clients and ecosystem partners
- · Referenceable and satisfied clients driving new business models based on the partnership

Horizon 2 is Experience

Tech vendors demonstrate Horizon 1, plus

- Ability to drive real business outcomes and stakeholder experience while achieving functional transformation
- Highly scalable and flexible set of process intelligence technologies
- Creation of accelerators, connectors, and other points of integration to a wide range of
 enterprise technologies
- Strong strategic process intelligence expertise and talent pool to support enterprise adoption
- Referenceable and satisfied clients for the ability to blend technology and business
 objectives

Horizon 1 is Optimization Outcomes

Tech vendors demonstrate

- Ability to drive functional optimization outcomes
- Driving cost reduction, speed, and efficiency
- Robust products with the ability to support end-to-end process mining or task mining projects for enterprise clients
- Referenceable and satisfied clients for the ability to execute

Note: All tech vendors within a "Horizon" are listed alphabetically



Horizons profiles: Process intelligence products, 2023

Celonis: Ecosystem enabler for execution management with process intelligence

Celonis, founded in 2011, is headquartered in New York and Munich, where the firm was founded. Valued at \$13 billion, Celonis is a global leader in process intelligence and rose to prominence thanks to its focus on "execution management" and its Execution Management System (EMS). Celonis claims to have pioneered the process mining category and reports over 3,000+ customer deployments since inception.

HORIZON 3 – Market Leader	Strengths	Development opportunities
celonis	• Ecosystem driver: The next step is for Celonis clients to take EMS cross-organization and establish a data network to follow processes seamlessly across organizations, which it is already doing with a handful of clients.	PAFnow acquisition: In March 2022, Celonis announced the acquisition of PAFnow, which we praised in the 2020 iteration of this report for the Microsoft PowerBI integration. HFS would like to see Celonis leveraging this
	• Size and scale: Alongside its own size, Celonis pulls heavily on its ecosystem strings with 15,000 consultants trained in EMS across 250 partners, alongside a catalog of execution apps	acquisition and PAFnow's capabilities throughout more of its client engagements.
HORIZON 2 – Enterprise Innovator	developed by clients and partners in the EMS Store.	 High expectations: Celonis makes a lot of bold claims and shows
	• R&D investment: Celonis is well known for continued investment in research and development for the process intelligence market. Its offerings are some of the most cutting edge available.	impressive client success stories throughout its marketing. This, combined with the market perception of Celonis being a premium offering, means
	 Market leader: Celonis is well established as a market maker, which means it is often the first vendor organizations consider. This was confirmed in client reference conversations when 	clients have high expectations from the vendor. Celonis must manage these expectations and ensure it continues to delivers to its high standards.
HORIZON 1 – Disruptor	several non-Celonis clients told us they initially considered the vendor.	 Premium pricing: Client references of other vendors told us that often they
	Client success stories: Celonis has an extensive catalog of accessible client case studies and success stories to help organizations understand the benefit of leveraging the Celonis' catalog of activities.	didn't select Celonis due to its premium price point. While the market leader continues to expand its client base in the global enterprise market, targeting the biggest deployments and essent it must consider how its efferinge could
Process mining Task mining	solutions.	the biggest deployments and scope, it must consider how its offerings could be made more accessible to clients and projects of different sizes.

Clients split			Key clients	Key partnerships and acquisitions	Go-to-market approach	Top five recent developments
Industries	Man ufacturin g	Retail and CPG	Total number	Acquisitions	• Sales model: Direct and indirect	August 2022: Secured \$1 billion to help
^{3%} 2% 4%	■ High tech	BFS	of clients: 1,300+	2022: Acquired PAFNow to bring Celonis' intelligence to other platforms	through partners; platform approach with complementary pre-	customers fight economic and supply chain challenges, increasing valuation to nearly \$13
5% 24% 6%	Insura nce	Utilities	Key clients	through Celonis Experiences, starting with Microsoft Power BI	built apps for specific processesHeadcount: 2,800	 billion. November 2021: Announced a new process
7% 18%	Travel, ho spital ity, and logistics	Life sciences and pharma	include	2021: Acquired Lenses.io to enable	Key locations: Headquarters in	mining and execution management operations
9%/10%	■ Tele com	Energy	• Dell	data-streaming as a process-intelligence	Munich, Germany and New York,	center in India.
	He althca re	Public sector	 Deutsche Bank 	data source2010: Acquired Make.com (formerly	NY, United States. Twenty-two regional offices worldwide in the	October 2021: Launched execution graph technology for linking processes across
Geographies	■ No rth Ame rica	■ Europe ■ Other (specify)	 AstraZeneca L'Oréal Siemens AG 	Integromat) to expand low-code automation capabilities Partnerships • Key implementation partners: Accenture, IBM, Deloitte, EY, PwC • Key technology partners: ServiceNow, Conexiom, Rossum, Microsoft, IBM	United States, Germany, France, Spain, India, Italy, the Netherlands, Sweden, Denmark, the United Kingdom, and Japan, including sales, consulting, implementation, support, and training.	 business units with a graph database. August 2021: Appointed "Godfather of Process Mining" Professor Wil van der Aalst as Chief Scientist. June 2021: Announced a series D funding round of \$1 billion at a valuation of more than \$11 billion.

Appian: End-to-end workflow management with a particular focus on government and BFSI

Appian is headquartered in Mclean, VA. In 2004, it first introduced its BPM Suite, which offered real-time process intelligence and business activity monitoring for all processes executed on Appian. In 2021, Appian acquired Lana Labs, which helped the company expand its process intelligence offerings and capabilities by releasing Appian Process Mining in 2021.

	Strengths				Development oppo	rtunities
HORIZON 3 – Market Leader HORIZON 2 – Enterprise Innovator appian HORIZON 1 – Disruptor Process mining	 Novayre Solutions SL, vendor expects clients addressing inefficiencie Industry focus: Appia insurance sectors. It pl BFS' complex regulato Clean UI/UX: Analyzin 	Appian looks beyo to leverage its offe es, before re-evalu in told us it is tailor lans to develop ind ory environment. Cl og complex process HFS noted Appian	ite having solid automation capabilities, helped by its 2020 acquered automation toward the larger digital transformation opportularing to manage entire workflows, from discovering processes thating them for further improvements. Ing its solutions to the government, banking, financial services, lustry-specific solutions that navigate unique process challenge lients have told us they would like to see vendors doing exactly s data can be a daunting task for any organization, and comple a's clean and straightforward UI/UX, making its process intellige	nity. The o and es, such as this. x UI/UX	 it is planning to in its wider process drive significantly clients. Manufacturing a iteration of this re the logistics and r Given Appian acc leverage the dom these industries. 	process and task mining: Appian told us tegrate the data from its task recorder into mining offering. HFS believes this would more impactful insights for Appian's nd logistics expansion: In the 2020 port, we highlighted Lana Labs' focus on manufacturing industries as a key strength. quired Lana Labs, it has an opportunity to ain expertise of Lana Labs to expand into This would complement its government, services, and insurance focus and create log of industry-specific use cases.
Clients split		Key clients	Key partnerships and acquisitions	Go-to-ma	arket approach	Top five recent developments
Industries		Total number	Acquisitions	Sales	model: Direct and	January 2022: Appian Process

Appian does not report indust

Geographies

· Appian does not report client

· For 2021, Appian reported that outside the US.

istry-specific data.	Total number of clients: Appian does not report clients by	• Key implementation partners: Infosys, KPMG, Kepner-	•	Sales model: Direct and indirect through partners Headcount: 2,300+ - Engineering: 650+	•	January 2022: Appian Process Mining is released for GA August 2021: Acquired Lana Labs Process Mining	
nt base by geography or product. that 34% of total revenue came from	platform technology. Appian reported 813 total customers in its 2021 10-K.	 Tregoe, Coforge, Vuram Key technology partners AWS: Appian Cloud Google Cloud: IDP Microsoft: No-code out-of-the-box (OOTB) integrations for AI services, Power BI, SharePoint, Dynamics, Office 365, storage, databases, and more Docusign: No-code OOTB integration and joint marketing for content management SAP: No-code OOTB integration and co-marketing activities to promote joint use 	•	 Sales: 600+ Customer success: 450+ Key locations: Appian has many offices in North America, EMEA, and APAC. Development offices only McLean, Virginia (US) Seville, Spain Berlin, Germany Chennai, India 			

Automation Anywhere: Al-driven process intelligence in the Automation Anywhere ecosystem

FortressIQ was founded in 2017 to address a business challenge that technology had been unable to overcome. The firm has since raised \$46 million between seed and Series A and B investments. The FortressIQ platform is the firm's flagship product, allowing companies to gain insights and process details on the current state of their business operations. It was acquired by Automation Anywhere in December 2021 becoming their Process Discovery product.

	Strengths		C	Development opportunities		
HORIZON 3 – Market Leader HORIZON 2 – Enterprise Innovator HORIZON 1 – Disruptor Task mining	 collect unstructured d is complemented by it and their Al-powered information. Automation capabili became part of its ecc Automation Anywhere automation opportunit Client list: Automation of the biggest global content 	ts cognitive and AI capabilities to 'Privacy Enhances Gateway' whit ities: FortressIQ was acquired by osystem of offerings. To that end, e's entire suite of solutions, which ties to implementing them. on Anywhere's Procewss Disocver clients, which means new and exis	accuracy into processes. However, this recommend processes to optimize,	 ensure its process intelligence tools don't become purely devoted to identifying automation opportunities. For example, their product could be leveraged to drive process excellence through training and process standardization too. Staying relevant: Since the acquisition, Automation Anywhere must ensure its process intelligence product, Process Discovery, remains relevant and isn't absorbed in the wider Automation Anywhere ecosystem; otherwise, it may struggle to compete with pure-process intelligence vendors. 		
Clients split		Key clients	Key partnerships and acquisitions	Go-to-market approach	Top five recent developments	
 Industries Key industries include financial services, manufacturing, food and beverage, retail, telecoms, logistics, and healthcare. Geographies North America, Europe, Asia-Pacific, LATAM 		 Total # of clients: 4,250 Key Clients: Fortune 10 retailer Top 5 global system Integrators Top 5 global staffing firm \$60+billion financial services firm Top 5 Australian financial 	 Acquisitions 2022: None Partnerships Key implementation partners: Deloitte, PwC, Cognizant, HCL, Accenture, Reveal Group Key technology partners: Google, Celonis, Signavio, Blueprint 	 Sales model: Direct and Partner-led Headcount: 1,800 Key Locations: US, Canada, UK, EU, Australi and New Zealand, LATAM 	 October 2022 – Automation Anywhere launched the Automation Success Platform integrating Process Discovery December 2021 – Acquired by Automation Anywhere February 2021 – FortressIQ launches process intelligence foundation platform 	

Note: Automation Anywhere declined our request for information, but we included it in this HFS Horizons report. HFS leveraged a wide range of data sources (public and private).

Top 10 global mining

institution

company

IBM: IBM-fueled end-to-end process optimization

IBM Process Mining helps businesses quickly make informed decisions for process improvement through data-driven insights. IBM Process Mining covers the process analysis lifecycle, offering a solution for intelligent automation and providing capabilities to automatically analyze processes, identify improvements or corrective actions, and automatically apply the required changes through Al-powered automation. In April 2021, IBM acquired myInvenio as part of its hybrid cloud and AI strategy, believing it could leverage the acquisition to help clients streamline business processes and reduce the time to market of the best automation journey.

	-	Strengths				Development opportunities	
HORIZON 3 – Market Leader HORIZON 2 – Enterprise Innovator IEINI HORIZON 1 – Disruptor		 complemented well mining capabilities, la automation solutions end-to-end process Size, scale, impact it, allowing it to roll ir grow into IBM's exis will receive. Process and task m capabilities to allow 	Since the acquisition, IBM Process Mining has the full weight of IBM behind its other offerings like IBM Cloud Paks and enabling IBM Process Mining to ing relationships. New clients can be confident in the support services they sining: IBM has successfully blended its process and task mining clients maximum transparency and insight into its processes, using a bottom- advises we can expect to see further investment into its proprietary task		 customers the opportunity to design their own process intelligence jour rather than being solely focused on IBM. Geographic expansion: myInvenio was historically mostly Europe for but we have noted significant growth in North America since the last ite of this study. However, the vendor has an opportunity to leverage IBM reach to further its North American expansion and look toward expand real presence in other regions like Asia-Pacific. 		
Clients split			Key clients	Key partnerships and acquisitions	Go-to	-market approach	Top five recent developments
Industries	Ban king & fina ncia I ser	vices	Key clients	Acquisitions		es model: Direct and indirect	July 2022: IBM Process Mining
3% 1% 7 % 10% 10%	 Retail and CPG Manufacturing Energy Life sciences and phare High-tech (tech nology. 	ma hard ware , software , ne tw ork)	 include Credito Emiliano (Italy) MaxMara (Italy) Large bank in 	 2021: Acquired the process mining company myInvenio 2020: Acquired the RPA company WDG Automation Partnerships 	• Hea res imp on	bugh partners adcount: IBM has thousands of ources that can provide consulting elementation services and support a worldwide base	 releases the Bot Generation Capabilit (1.13.0) May 2022: IBM Process Mining releases the Insight to Action capabilit (1.12.0.5)

Geograp



NOUA II	_ mana dotann g									
32%	= Energy		Emiliano (Italy)	• 20)20: Acquired the RPA company WDG		resources that can provide consulting	•	May 2022: IBM Process Mining	
	Life sciences and pharma	•	MaxMara (Italy)	A	utomation		implementation services and support		releases the Insight to Action capability	
6	High-tech (tech nology, hard ware, software, network)	•	Large bank in	Part	nerships		on a worldwide base		(1.12.0.5)	
31%			Europe	• K	ey implementation partners	•	Business partners: 300+ globally	•	September 2021: myInvenio product	
	Insura nce	•	Large	_	Salient: Process mining and RPA	•	Key locations: Americas, Europe,		becomes IBM Process Mining and the	
phies	■ Tele com		multinational	_	Prolifics: Process mining and RPA		Asia-Pacific, Japan		new version of Task Mining is released	
2%1%			energy	_	Heartcore: Process mining		•	•	May 2021: IBM acquires myInvenio	
6%			company	_	Comparus: Process mining			•	October 2020: IBM includes mylnvenio	
%	North America Europe Asia Pacific	•	Multinational	_	SCAI Consulting: Process mining				OEM within the IBM Cloud Pak for	
52%	Middle East/Africa Latin America Other (specify)		pharma company		ey technology partners: Red Hat: penShift; AWS: Hosting Cloud				Business Automation	

MEHRWERK: Qlik-based process intelligence complemented by "storytelling" data visualization

Founded in 2008, MEHRWERK focuses on helping enterprises shape the present and the future of their business through its modular software solutions. Emphasizing software-based business process optimization, MEHRWERK Process Mining (MPM) is accompanied by extensive data analytics, task mining, and no-code/low-code automation capabilities. MEHRWERK's mission is to empower customers to get the most out of their processes and provide them with higher transparency, a better base for decision-making, and a single point of truth for process management and execution.

	Strengths	Development opportunities
HORIZON 3 – Market Leader	• Industry experience: MEHRWERK has been in the data and analytics business since 2008, and it expanded into process mining around seven years ago. Through this period, it has developed a strong client portfolio, including global firms like Siemens and Vodafone. This experience makes the company a credible vendor in this market,	 Focus on client outcomes: MEHRWERK must ensure it looks beyond technology and the capabilities of its process intelligence product toward the actual value it can deliver
HORIZON 2 – Enterprise Innovator	and positions it well to support clients process intelligence journeys, providing best practices and services support alongside its product.	 clients and the business outcomes it can impact. Market narrative to help clients understand its vision:
Mem MEHRWERK ProcessMining	 Quick time to value: MEHRWERK's process mining tool is based on the data analytics platform Qlik, a unique differentiator that allows clients fast return-on-investments. AutoML integration: MEHRWERK recently announced it has fully integrated AutoML in its process mining tool, which will lower the barrier to entry for organizations considering MEHRWERK's tool. Data visualization: Rather than just providing screenshots and static visualisations of an organization's process 	While HFS was impressed with MEHRWERK's process intelligence offering, we noted that we don't hear enough about the vendor in the process intelligence market. To that end, MEHRWERK should invest in expanding its marketing function to get its product in front of enterprises and
HORIZON 1 – Disruptor	 data like some of its peers offer, MEHRWERK believes its tool is more useful for "storytelling," as clients can drag and drop process elements to analyze their processes. Vision around executing actions: MEHRWERK has a good narrative around identifying process insights using 	accompany it with a catalog of success stories from its impressive client list.Geographic expansion: MEHRWERK is almost entirely
Process mining Task mining	its tools; it also intends to integrate the execution of these insights within its product and through the API-first approach with clients' underlying backend systems.	Europe-centric, which means it has a great opportunity to expand into other regions like North America.

Clients split		Key clients	Key partnerships and acquisitions	Go-to-market approach	Top five recent developments
Industries	 Ban king & fina ncial service s Re tail and CPG Man ufacturing Energy Life sciences and pharma High-tech (tech nology, hard ware, software, network) Insurance Tele com He athcare Travel, ho spitality & logistics Utilities Public sector 	Total number of clients: 354 Key clients include • Vodafone • AOK (largest health insurance company in	 Acquisitions 2021: netgo (MPM Platform company) acquired arxes-tolina, which included a strong workflow automation and process digitization platform 2021: Qlik acquired BigSquit to enhance AutoML features 2020: Qlik acquired Blendr to support 	 Sales model: Direct and indirect through partners Headcount: 250 Key locations: Headquarters in Germany 	 March 2022: MPM eXecution 2.0, no-code/low-code workflow automation March 2022: New template application with automated insights February 2022: Provisioning of automation playbooks
Geographies	■ Others ■ Europe ■ Asia Pacific ■ North America ■ Latin America	Germany) • Deutsche Bahn • SEW Eurodrive • Siemens • REWE (largest retailer in Germany)	 automation within third-party systems (integration platform as a service) Partnerships Key implementation partners: Deloitte, Capgemini, DrakeAnalytics, Horn & Company, Celver 		 February 2022: Native AutoML integration November 2021: Announcement of real object- centric process mining (first and only vendor)

Microsoft: Hierarchical process insights with out-the-box templates, all in Microsoft Power Automate

Microsoft's Power Platform is a suite of no-code, low-code tools for hyper-automation, digital transformation, and more. Microsoft's first entry into process mining was the release of Process Advisor, a capability of Power Automate, in 2021. In 2022, Microsoft signaled its intention to make process mining a key piece of the Power Platform with its acquisition of Minit, a leader in the process mining market. Since this acquisition, Microsoft has been making progress on its integration of Minit by announcing the public preview of Minit + Process Advisor in November 2022.

	Strengths	Development opportunities
HORIZON 3 – Market Leader	• Out-the-box templates: Microsoft recently announced a set of out-the-box process mining templates, making it easier for enterprises to leverage their tools and accelerating time-to-value for new adopters. Microsoft cited procure-to-pay, order-to-cash, and accounts payable as early	Microsoft focus: For Microsoft, one of the biggest companies in the world, process mining—and Minit—is a small business line. However, the process intelligence market moves so quickly, it must continue to invest in its offering
HORIZON 2 – Enterprise Innovator	 Hierarchical process mining: We previously complimented Minit for its hierarchical process 	 to maintain market relevance. Market presence: Since Microsoft acquired Minit, we've noted limited activity
Microsoft	mining approach, and it's something we continue to see since the Microsoft acquisition. This approach involves the end-to-end monitoring of bots, user-clicks, and a wide range of data to allow clients to view data based on their company structure. For example, how much time a	from the firms in the process intelligence market. In fact, firms that previously competed with Minit told us they no longer see the firm when competing for clients.
	 business unit spends on a specific process. Microsoft integration: Since acquiring Minit, Microsoft has rolled its process mining capabilities 	
HORIZON 1 – Disruptor	 into its Power Automate offering. Microsoft's extensive client catalog puts process intelligence tools in the hands of more enterprises, reducing the barrier to entry for adopting the technology. End-to-end process automation: By integrating, Minit with its Power Automate offering, 	
Task mining	Microsoft can help clients all the way from identifying process inefficiencies to solving them with automation, if that is their chosen route	

Clients split	Key clients	Key partnerships and acquisitions	Go-to-market approach	Top five recent developments
 Banking and financial services, insurance, manufacturing, retail and CPG, telecoms, 	Key Clients: This information is confidential	 Acquisitions 2022: Acquisition of Minit to enhance Power Automate's Process Mining capabilities 2021: Acquisition of Clear Software to enhance connectivity to systems of record like SAP and Oracle 2020: Acquisition of Softomotive to enhance Power Automate's RPA capabilities Partnerships This information is confidential 	 Sales model: This information is confidential Headcount: This information is confidential Key locations: Worldwide 	 December 2022: Microsoft launched 20 new independent publisher connectors November 2022: Microsoft announces the public preview of a new joined version process mining product, Power Automate Process Advisor with Minit functionality September 2022: Cineplex drove digital transformation with Power Automate (RPA) led by citizen developers March 2022: Microsoft acquired Minit to further enhance process mining capabilities. May 2021: James Dening joined Minit Process Mining as new CEO

Note: Microsoft (Minit) declined our request for information, but we included it in this HFS Horizons report. HFS leveraged a wide range of data sources (public and private).

Nintex: An established vendor with rich automation capabilities

In February 2022, Kryon was acquired by Nintex, a process automation vendor. With the acquisition, Nintex is now offering a full suite of process intelligence and automation capabilities, including Nintex RPA (previously known as Kryon RPA) and Nintex Process Discovery (previously known as Kryon Process Discovery). Kryon was founded in 2008 when it developed its computer vision technology. Years later, the firm ventured into RPA by introducing attended, unattended, and hybrid automation solutions. In 2018, Kryon launched Process Discovery to solve a gap in RPA technology, providing identification and full visibility of business processes.

	Strengths			Deve	elopment opportunities
HORIZON 3 – Market Leader HORIZON 2 – Enterprise Innovator	 automation capability process intelligence Process discovery this has since been enterprises to exper Full process visibity machine learning al Early mover advantalso one of the earlity Paired with Nintex's the ins-and-outs of the enterprises of the single o	ties, Nintex has its own rich workflow offering. In particular, Nintex's RPA of trials: In 2021, Kryon announced a discontinued, it instead offers free tr riment with the tool on a small scale lity: Nintex's product aims to deliver gorithms to capture data directly fror tage: Alongside being an early mov est vendors to apply process intellige long-term experience in the automa	cess intelligence vendors partner or acquire v and robotic automation offerings to comple Studio offers "click to automate" style support in free, limited version of its process discovery rial periods and proof-of-concept options to a before fully committing to a large-scale project clients complete end-to-end process visibility memployees' screens. Fer in the automation space, founded in 2008 ence products to identifying automation opp ation market (Nintex was founded in 2006), if nce markets and can leverage this knowledge	ement its sh prt. wa y tool. While a g allow als ect. inv ty using its rat 3, Kryon was ortunities. t understands	utomation focus: While Nintex's automation capabilitie would be considered a key strength, the vendor must be ary of its process intelligence tools being considered on gateway to automation. Instead, Nintex should look to so highlight process improvement opportunities that volve process standardization and employee training ther than just automation.
Task mining					
Clients split		Key clients	Key partnerships and acquisitions	Go-to-market appr	oach Top five recent developments
 Industries Banking and financial services, insur healthcare, telecom, manufacturing, 		Total number of clients: 10,000 customers worldwide Key clients • Wyndham Hotels & Resorts	Acquisitions 2022: Kryon purchased by Nintex Partnerships Koy implementation partners: Wintex 	Sales model: A combination of di and indirect through partners	ugh Company" in 5th Annual Artificial Intelligence Breakthrough Awards Program

Geographies	• LTCG	Key implementation partners: Wipro,	 Headcount: 1,000+ 	February 2022: Nintex acquires Kryon
North America, Europe, Asia-Pacific, Middle East, Africa	Visma Raet	Capgemini, Genpact, IBM, EY, PwC,	• Key locations: The	• January 2021: Kryon V-Bot automates large-
	A multinational investment	Verint, Software AG, Amdocs, Naviant,	United States, Germany,	scale scheduling of COVID-19 vaccinations
	bank and FS holding firm	Navicom, Croc, HMS, Devoli, TeBiz,	the United Kingdom,	
	A large retail operator in	Sopra Steria, FIS Global, Virtual AI,	Israel, Australia,	
	Thailand	and Nexteria	Singapore	
	 A large US provider of 	Key technology partners: Software		
	service solutions for the	AG, AWS, Microsoft Azure, Sapiens,		
	senior living industry	and Verint		

Note: Nintex declined our request for information, but we included it in this HFS Horizons report. HFS leveraged a wide range of data sources (public and private).

Pega: Decades of process understanding now getting amplified with Everflow toward developing autonomous enterprise

Pegasystems was founded in 1983 in Cambridge, Massachusetts. It is a low-code platform for AI-powered decision-making and workflow automation. The company recently acquired Everflow to bolster its process mining and automation goals.

	Strengths	Development opportunities
HORIZON 3 – Market Leader HORIZON 2 – Enterprise Innovator	 Workflow: Because of Pega's workflow focus, the vendor thinks about the points of integration of how processes work, which means it can leverage process intelligence to bring unique perspectives to clients. Process and task mining: Pega leverages a combination of process and task mining. It can deliver complete process transparency using event logs and desktop recorders, while some of its peers continue to use a single approach. Always-on monitoring: Pega focuses heavily on developing the "always-on" monitoring aspects of workflow intelligence, something it is positioned well for due to the combination of its workflow expertise and Everflow's process intelligence capabilities. Meanwhile, many process intelligence vendors focus instead on leveraging their process intelligence offerings for point-in-time analysis. 	 Pega's focus: Pega must ensure the Everflow acquisition and its process intelligence product remain a core focus in the wider Pega ecosystem. If it neglects these items, Pega could fall behind other pure-play process intelligence vendors as they continue to invest and innovate. Market education opportunity: Given its unique experience, Pega can educate the market about the potential of layering different emerging technologies to improve operational performance. It should leverage its
HORIZON 1 – Disruptor Process mining Task mining		extensive set of capabilities (including workflow automation case management, and now process mining) to help show enterprise clients the potential of infusing process intelligence across business operations.

Clients split	Key clients	Key partnerships and acquisitions	Go-to-market approach	Top five recent developments
 Split of types of industries: Large: 89% Midsize: 8% Small: 3% 	 Key clients J.P. Morgan Chase Bank of America Cisco 	 Acquisitions 2022: Everflow Partnerships Key implementation partners: Accenture, Capgemini, Cognizant, EY, Google Cloud, Infosys Key technology partners: AWS, Areteans, Virtusa 	 Headcount: 6,000+ FTEs Key locations: Headquartered in Cambridge, MA, United States 	 August 2022: Announced the appointment of Dr. Kikelomo (Dayo) Belizaire as its first Chief Medical Officer to bring a clinical lens to Pega's strategy for serving its healthcare clients July 2022: Introduced Pega Launchpad to empower users to build and monetize new B2B SaaS apps June 2022: Launched Pega Process Extender for Salesforce Lightning on Salesforce App Exchange and Pega Marketplace; the component makes it easy to embed Pega into Salesforce environments to further automate customer service workflows May 2022: Acquired Everflow to add intuitive process mining to its product suite November 2021: Announced partnership with Google to enhance personalization in healthcare

Note: Pega declined our request for information, but we included it in this HFS Horizons report. HFS leveraged a wide range of data sources (public and private).

SoftwareAG: An established process mining product doubling down on the linkages to process modeling

Software AG was founded in 1969 and is headquartered in Germany. It has more than 5,000 employees and operates in more than 70 countries worldwide. Through ARIS Process Mining, Software AG can offer a process mining product that originated in 2000, supported by the firm's experience in process mining and the business process analysis market.

		Strengths			Development opportunities	
HORIZON 2 – En Sof HORIZON 7	Market Leader	global footpr hundreds of Valuable pro process data organization in-depth thar exactly how Establishing complement	int and client base. This means its proce existing clients, and new clients can be o ocess analysis frameworks: Software a a. For example, it defines a "fitness value 's process is to the standard. A "fitness s in a conformance calculation shows whet compliant a process actually is. g an ecosystem: Software AG is workin its process mining offering, including lea see this ecosystem expand further in the	endor covered in this report; it has an extens ss mining offering, ARIS, is more accessible confident of the firm's stability and support se AG has taken a unique approach to analyzin " for every process, defining how close an core" of 100 defines a perfect process. This her or not a process is fully compliant; it defin g to curate an ecosystem of partners to iding automation vendors and IPaaS vendors e coming years; however, the progress so fa	 to delivering strong foundational functional function that works well with its business provides and Software AG's clients would lik technology innovations in this mark preconfigured solutions, dashboard and extensibility. Continue to make progress on Ul this report, we explained that Software Softwa	ionalities as a process mining tool becess modeling capabilities. HFS e to see the vendor consider et; for example, in the areas of ing flexibility and customization, I/UX: In the previous iteration of are AG must invest in its UI/UX, ant room for improvement and ftware AG. Since then, we note at investment in this space, but it
Clients split			Key clients	Key partnerships and acquisitions	Go-to-market approach	Top five recent developments
Industries	 Man ufacturin g Insura nce Re tail and CPG Ban king & fina ncial service s High-tech (tech nology, hardweightech (tech nology, hardweightech (tech nology), hardweightech (tec	ware, software, network)	 Total number of clients: 900+ Key clients include Tesco Alicorp One of the largest shipping containers business One of the globally reputed telecom vendors based in the UK One of the largest banks in Africa Municipal corporation of a rapidly 	 Acquisitions 2022: Streamsets 2018: Built.io 2018: Trendminer Key implementation partners Ernst & Young, PwC, Accenture, KPMG, Infosys, Persistent Systems Key technology partners Amazon Web Service: Cloud hosting provider and intelligent automation 	 Sales model: Direct, indirect through partners, online shop Headcount: 5,000+ Key locations: Headquartered in Germany with global presence and hubs in North America, LATAM, EMEA, and Asia- Pacific/Japan 	 May 2022: Insight into action capability Early 2022: Launch of solution hub with accelerators built by Software AG and external partners October 2021: Root Cause Miner for automated process mining insights
			growing nation in the middle east	 Microsoft: Cloud hosting provider and 		May 2020: Real-time task

Soroco: Cross-industry process discovery with a bold vision on developing work graphs for enterprises

Soroco, headquartered in Boston, Massachusetts, United States, was founded in 2014 by Harvard, MIT, and CMU graduates. The firm's goal is to become a category-agnostic process intelligence firm.

A	Strengths			1	Development	t opportunities
HORIZON 3 – Ma HORIZON 2 – Enterp SORO © CO HORIZON 1 – E	 market. The vendor de document and applica Extensive portfolio o Quickstart and Scout of the maturity of their processes. Ecosystem: Soroco is and a number of acad Industry agnostic: Se industry emerging as i almost every industry, Data privacy: Soroco offerings anonymize a 	escribes a work gra tion it uses, which i f offerings: Soroco Felescope. This allo process intelligenc s working hard to cu emic institutions to proco has a good n ts clear favorite. Th but it must be care has a strong opinio	k graphs is compelling and could have a signifi ph as a real-time scalable map of a team's digi t believes will enable a software-driven continu o has a catalog of products built around its Sco ows Soroco to support organizations of all shap e journey and helps them gain very specific ins urate an ecosystem around its Scout platform, w train the next wave of Scout users. umber of engagements across virtually every ir is means Soroco has a good understanding of ful it doesn't become a jack of all trades but ma on around data privacy and ethical use of emplo	ital journey across every ous-improvement loop. out platform, such as Scout bes and sizes regardless sights into very specific which includes Celonis ndustry, with no one the unique challenges in aster of none. oyee work data. Its	quieter ven presence, i work to incr tech can or stories are adoption ar is worth not something Channel p partnership growth, but	esence: HFS noted that Soroco is one of the dors when it comes to marketing and market nstead focusing on its technology. Soroco must rease its presence in the market. The greatest hy be useful if people know about it. Client particularly powerful for emerging technology and an area for opportunity for Soroco. However, it ting we saw increased activity in 2022, the company should carry into 2023. artners: Soroco should expand its channel is on the sales side. This will help drive further also these partners can help Soroco clients age management and leverage Soroco Scout to ntial.
Clients split	Orrige	Key clients	Key partnerships and acquisitions	Go-to-market approach		Top five recent developments
Industries	 Services BFS Re tail and CPG Life sciences and pharma He althcare Insurance Manufacturing High tech Re al Estate Travel, ho spitality, and logistics Tele com Energy 	Total number of clients: 100+ Key clients include • Bayer • Mars • IQ-EQ	 Partnerships Key implementation partners: Tech Mahindra, Fujitsu, ISG, ABP Consultancy, Hindustan Global Solutions, Mphasis Key technology partners: Microsoft, Blue Prism, Workato, JiffyAI, Celonis, Whatfix, Automation Anywhere, UiPath 	 Sales model: Direct and through partners Headcount: 267 Key locations: Boston, New Jersey, Dallas, Sar Austin (TX), Charlotte (N London, Amsterdam, Bar 	New York, Francisco, NC),	 2022: Signed up 75 channel partners across USA, EMEA, and APAC 2022: Signed up 3X customers in CY22 vs CY21 2022: Holds ~40 patents
Geographies	■ Utilities ■ Public sector ■ North America ■ Asia Pacific ■ Europe	American Modern Insurance Group British Telecom (BT)				

UiPath: End-to-end offering from opportunity identification to deploying automation

UiPath was founded in 2005 in Bucharest, Romania and is now headquartered in New York, NY. It has 10,650 customers worldwide. Its process and task mining products are offered as part of its Business Automation Platform, which also includes RPA, AI, NLP, API integration, intelligent document processing, low-code app development, and process orchestration solutions.

1 A A A	Strengths		I	Development opportunities	
HORIZON 2 – En Ui F HORIZON 7	automation vendor can catalog of of deploy and • Data visualiz iteration of t visual intera • Existing rel which includ	providers, alongside its p support clients' end-to-en fferings to guide clients the monitor automation. ization: Clients had preve cation capabilities, and w his study. It's a trend we ctive dashboards. lationships: UiPath can le some of the biggest gl	 stem: UiPath is one of the leading global process mining capabilities. This means the nd process automation by leveraging its entire hrough opportunity identification to actually viously told us they were impressed by UiPath's re called it industry-leading in the previous have seen continue this year with the vendor's leverage its existing automation relationships, obal organizations, as a sales channel for its its process mining solution into automation deals. 	 Continued growth: UiPath was one of the earliest aut process intelligence market with its 2019 acquisition of then, we have seen limited activity from UiPath in the process intelligence market, as many of its smaller cor approaches that are attracting clients. Employee privacy: One enterprise told us that it consiches another vendor because it felt UiPath's solutions employee privacy and GDPR compliance. Look beyond automation: Several organizations told openly confessed that if they weren't planning on lever their process intelligence solutions wouldn't be worthw recognize that process intelligence is a significant stam always need to be a tool used to sell their automation 	f ProcessGold. However, since process intelligence space. vestments. he latest pricing trends in the mpetitors are adopting innovative sidered UiPath but ultimately s were lacking in terms of d us that the UiPath teams have raging UiPath's automation, then <i>y</i> hile for them. The vendor must hadalone market, and it doesn't
Clients split		Key clients	Key partnerships and acquisitions	Go-to-market approach	Top five recent developments
Clients split Industries	Man ufacturing High-tech (tech nology, hard ware, software, network) Ban king & fina ncial services Utilities Insura nce Tele com Life sciences a nd ph arma Oth er	Key clients Total number of clients: 10,650 Key clients include • Cognizant • JP Morgan Chase • EY • KPN • Verizon	 Acquisitions 2022: Reinfer for NLP 2021: Cloud Elements for API integration 2019: Process Gold for process mining; 	 Go-to-market approach Sales model: Both direct and indirect through partners Headcount: 4,000+ Key locations: New York, NY (HQ), Austin, Bengaluru, Bellevue, Brooklyn, Bucharest, London, Munich, Paris, Seoul, Shanghai, Singapore, Sydney, Tokyo 	 Top five recent developments December 2022: Partnership with Orica to scale application testing November 2022: Partnership with Neostella to deliver automation to midmarket businesses September 2022:

ABBYY: Potential to combine process and task mining to identify automation opportunities

ABBYY Timeline is an offering from ABBYY. It was founded in 2015 by Scott Opitz and Alex Elkin when the pair recognized that many business intelligence and BPM tools failed to provide intuitive process discovery and analytics based on how processes behave. The company is now a leading provider of intelligent automation, intelligent document processing (IDP), and process intelligence. ABBYY allows clients to deploy standalone solutions or as a package of RPA and BPM.

	Strengths				Developme	nt opportunities
HORIZON 3 – Market Leader HORIZON 2 – Enterprise Innovator HORIZON 1 – Disruptor ABBYY Process mining Task mining	 logs and identify patter deliver maximum insig Unstructured data an Timeline), we were exa with Timeline's proces versions of its product. Partnerships: ABBYY standout. The relations process data and level of growth in this space Integrated acquisition platform's process inter 	rns, and then its pro ht into processes a alysis: When ABE cited about the pros s analysis capabilit has an extensive ship sees Timeline rage it to develop d n: ABBYY announce elligence capabilitie	ABBYY explained that its task mining tools occess mining tools combine the task data wand how people work. BYY announced the acquisition of Timelinel spect of combining ABBYY's ability to anal- ties, and it's something we're seeing come partnership ecosystem; its Blue Prism part fully integrated within Blue Prism, allowing ligital workers with Blue Prism. ABBYY rep ced and completed the acquisition of Timel s are well integrated with the wider ABBYY de big acquisitions in this market in 2021, g	vith event data to PI (now ABBYY yze unstructured data to life in recent nership is the clients to export orts it is seeing plenty ine in 2019, and the ' ecosystem. In	intelligence can often have to be clients that interested process s noting that support cl • Complex complex a multiple d complexit	ion focus: ABBYY focuses heavily on the use of process be to identify automation opportunities. While automation be the outcome of process and task mining, it doesn't e the only outcome. ABBYY must be wary of neglecting at are less interested in automation and are instead d in process improvement through other channels, such as tandardization and training efforts. However, it's worth at ABBYY has recognized this and is making efforts to lients through process improvements and standardization. ity: One enterprise told us they found ABBYY Timeline and difficult to use, particularly when pulling data from ifferent screens, systems, and applications. Given that the y of process intelligence products remains one of es biggest challenges, it's something the vendor should
Clients split		Key clients	Key partnerships and acquisitions	Go-to-market a	pproach	Top five recent developments
 Industries Healthcare, financial services, insural and horizontal applications, such as s Geographies 		Total number of clients: 185 Key clients include	 Acquisitions 2020: Pericom (digital intelligence company) Partnerships 	Sales model: combination of indirect sales system integra consulting part	of direct and and through ators and	 October 2022: ABBYY reduces fraud losses and expedites customer onboarding with new Proof of Identity solution. July 2022: ABBYY opens new intelligent automation engineering centers in Serbia and Lithuania.

Geographies

 North Am Zealand

nies	Include	Partnerships	consulting partners.	engineering centers in Serbia and Lithuania.
America, Europe, the UK, Asia Pacific, Australia, New	Telstra	Key implementation partners: ABBYY	• Headcount: 1,000+	• March 2022: ABBYY strengthens partner ecosystem
d	Geisinger	has 1,000+ partners, including technology	• Key locations: The US,	with ABBYYOne, a global program to drive intelligent
	TriNet	partners, implementation and consulting	Germany, the UK, France,	process automation (IPA).
	Fortune 500	partners, and resellers. Key partnerships	Spain, Japan, Australia,	• September 2021: ABBYY speeds up its public sector
	financial	include 25 companies offering process	Hungary, Ukraine, Cyprus,	go-to-market strategy with Carahsoft distribution
	services	mining, such as Alteryx, RSM, Blue Prism,	Singapore, Hong Kong	partnership.
	company	EXL, Genpact, Deloitte, PWC, and EY.		May 2021: ABBYY receives investment from Marlin
	Large P&C	• Key technology partners: Blue Prism,		Equity Partners, the largest ABBYY shareholder, to
	insurer	Alteryx, ServiceNow		accelerate growth.
Y Timeline declined our request for information, but we included it	t in this HES Horizon	s report. HES leveraged a wide range of data source	s (public and private)	

Note: ABBYY Timeline declined our request for information, but we included it in this HFS Horizons report. HFS leveraged a wide range of data sources (public and private).

Apromore: Smaller vendor with mighty ambitions and a unique access into the Salesforce ecosystem

Apromore Pty Ltd is headquartered in Melbourne, Australia. Founded in 2009, Apromore closed Series A funding in 2020, raising US \$5.3 million after seed funding of \$7.7 million. A Series B funding round of \$10.3 million, including investment from Salesforce, closed in late 2022. Apromore offers enterprise-grade process mining addressing the scalability needs of large enterprises. Scaling is delivered across three dimensions, event log size (more than 500 million events), number of processes supported (hundreds), and the number of users (thousands). Apromore's solution is also resold by GBTEC.

Addition to		Strengths				Developmen	t opportunities
 HORIZON 3 – Market Leader Salesforce and MuleSoft integration: Apromore is early in its journey with MuleSoft and Salesforce, but embedding itself in the Salesforce ecosystem could position the vendor well for growth in the coming years. Ease of use: Citizen process mining is the key mission for Apromore, as it hopes to make the technology as accessible as possible. It claims it takes only 12 hours to learn how to use its platform thanks to its no-code focus, 					overed in this study and one of the latest entrants ket; it launched its enterprise product at the end espite this, the firm is growing quickly. It reported ure growth rate for the last 12 months. Apromore re it balances maintaining its impressive growth atisfying existing customers, signing new , and investing in its process mining solution to ring market demands. erican expansion: Apromore remains heavily Europe and APAC. However, North America largely untapped market for the company. With nding and backing of Salesforce, Apromore is		
Clients split			Key clients	Key partnerships and acquisitions	Go-to-mark	et approach	Top five recent developments
Industries 2% 1% 2% 3% 3% 2% 19% 20% 19% 19% 19% 19% 19% 19% 19% 19	 Insurance Ban king & financial service Public sector Re tail and CPG Man ufacturing Tele com High-tech (tech nol ogy, hare He althcare Travel, ho spitality & logistic Energy Utilities Life sciences and pharma Others North America Asia Pa cific Mid dle Ea st/Africa 	dware, software, network)	Total number of clients: 119 Key clients include • ANZ Banking Group • INAIL • Nexi • The University of Melbourne • Vodafone • Westpac Banking Group	 Key implementation partners Arvato: Process mining for SAP Deloitte: Consulting and delivery (APAC, EMEA) FPT Software: Consulting & delivery (APAC, US) HeartCore: Consulting and delivery (Japan) Nortal: Consulting and delivery (Nordics, GCC region) Nous Group: Consulting and delivery (ANZ, UK) PwC: Consulting and delivery (APAC, EMEA, US) Key technology partners Datamatics: RPA GBTEC: Process modeling and execution MuleSoft: Integration and automation UltimateSuite: Task mining Workato: Integration and automation 	via reselleHeadcouKey location	ions : e, Australia;	 December 2022: Apromore announced its Series B funding round, led by Salesforce. August 2022: Apromore releases MuleSoft Connector to deliver process mining to the Salesforce ecosystem. July 2022: Apromore announces predictive process monitoring capabilities to enhance operational excellence. May 2022: New digital twin capabilities in Apromore help enterprises make faster and better decisions. January 2022: Apromore announces partnership with Workato to help enterprises gain process intelligence across systems.

Fluxicon: Small process mining vendor steeped deep in academic history

Fluxicon was founded in 2009 by Anne Rozinat and Christian W. Gunther. Its process mining software, Disco, enables enterprises to take the data-driven path in a speedy manner. The software allows enterprises to get a view of their business processes based on real-time data. The company is headquartered in the Netherlands.

	Strengths	Development opportunities
HORIZON 3 – Market Leader	 Early-mover advantage and academic background: Fluxicon began exploring process mining in 1999 and spent its first 10 years researching the technology through an academic lens. Since then, Fluxicon has emerged as arguably the oldest process mining vendor, focused solely on the one technology, and this experience and focus could help clients. Simple licensing: While some process intelligence vendors adopt complex licensing 	• Vision and strategy: Fluxicon seems content being a small pureplay process mining vendor, while its peers have long-term visions and strategies for themselves and the wider industry. Fluxicon has an opportunity to think bigger and look to develop a vision for the future of process intelligence given its history and community engagement thus far.
HORIZON 2 – Enterprise Innovator	models, which enterprises describe as a deterrent, HFS noted Fluxicon's simple licensing model lowering the barrier to entry for process intelligence. Fluxicon offers multiple models, with the most popular being annual licenses which include unlimited events and processes, explaining that the typical client has only five licenses.	 Size and scale: Fluxicon remains deliberately small, reporting only three full-time employees. While this keeps overheads down and allows Fluxicon to be nimble, it means the company does not have the weight of some of its peers when it comes to supporting clients.
HORIZON 1 – Disruptor	Community development: Fluxicon places a heavy emphasis on building a community	• Innovation: While the rest of the process intelligence market invests heavily in
fluxicon	around its process intelligence product. For example, the vendor has held an annual process mining camp for the last decade. As a result, Fluxicon clients can learn best practices and roadmaps from one another, simplifying their process intelligence journey.	 innovation and evolving their tools, Fluxicon's small team means it is investing its time and effort into refining its existing tool rather than driving innovation. UI/UX: Fluxicon's UI/UX is basic and sometimes complex when compared to the leaders covered in this study. We recommend Fluxicon invest in it to continue
Process mining		competing at the highest level.

Clients split	Key clients	Key partnerships and acquisitions	Go-to-market approach
Industries Banks, telecom, insurance 	 Volksbank AIG City of Vienna Hasselt University Veco Precision Wacker Chemie AG Telefonica Cox Communications RWTH Achen 	Partnerships • Undisclosed	 Sales model: Direct sales Headcount: 3 Key locations: The Netherlands
	Lufthansa		

Note: Fluxicon declined our request for information, but we included it in this HFS Horizons report. HFS leveraged a wide range of data sources (public and private).

NICE: Automation-focused, always-on process monitoring

NICE was founded in 1986 and now has more than 6,000 employees with a presence across 150 countries. The firm also boasts more than 2,500 customers, including more than 85 of the Fortune 100. NICE's Attended Automation solution, NEVA, enables intelligent process optimization while unleashing employees' potential to ensure exceptional customer experiences.

	Strengths				Development op	oportunities
HORIZON 3 – Market Leader	 Always-on process monitoring including every click and keystrol peers. This approach allows cont on process monitoring rather that Automation expertise: NICE has 	te they make, as opposed to so inued data collection, due to its n point-in-time analysis. s extensive automation capabil	creenshots and videos us small size, which allows lities allowing clients to cr	ed by some of NICE's NICE to offer always- eate an end-to-end	typically offers identifying aut play a bigger r	centric: Given NICE's expertise in automation, it its process intelligence tools as a method of omation opportunity. Process intelligence can ole in digital transformation, and NICE should n't look past these opportunities.
HORIZON 2 – Enterprise Innovator HORIZON 1 – Disruptor NHCE®	working automation through its A This moves NICE into the "click to				an extensive of ensure focus a Discover, with hopes to conti	VA Discover: For its size and scale, NICE has eatalog of products and solutions. NICE must and investment funds continue to flow into NEVA continued innovation in process intelligence, if it nue competing with pure-play process ndors or those with deep investor pockets.
Process mining						
Clients split	Key clie	nts Key partnerships ar	nd acquisitions	Go-to-market approa	ach	Top five recent developments

Industries	Total number	A	cquisitions
Telecommunications, banking, insurance, public sector,	of clients: 700+	•	August 2021: Moxie
healthcare, utilities, many others		•	July 2021: ContactEngine
	Key clients	•	May 2019: Brand Embassy
Geographies	IKEA		
North America, EMEA, APAC	 Nationwide 	P	artnerships
	Charter	•	Deloitte, Capgemini, TATA, IS

Geographies • Key clients • May 2019: Brand Embassy • Headcount: 3004 • North America, EMEA, APAC • IKEA • Nationwide • Partnerships • Key locations: N • Object • Blue Cross of • Deloitte, Capgemini, TATA, ISG, BCG, PWC, Symphony, and Wipro • Key locations include	artners score for attended automation use case in the 2022 Gartner Critical Capabilities for Robotic Process Automation Report.
Idaho• Key technology partners: AWS,• SwintonMicrosoft, Google, IBM, ABBYY,• NHSHyperScience, and Minit	 November 2022: NICE drives exceptional patient care for one of the largest health authorities in the UK.

Note: NICE declined our request for information, but we included it in this HFS Horizons report. HFS leveraged a wide range of data sources (public and private).

QPR: Integration with Snowflake Data Cloud helps deliver quick timeto-insight and scalability

QPR Software PLC, founded in 1991 and headquartered in Helsinki, Finland, is a software solutions provider specializing in process mining, process and enterprise architecture modeling, and performance management. QPR Software is the first process mining software to run natively on the Snowflake Data Cloud.

S	trengths		De	evelopment opportunities
HORIZON 3 – Market Leader	Established player: QPR was founded in 19 making it one of the more established players strengths. Further, given the flurry of M&A ac Scalability with Snowflake Data Cloud: Ea on the Snowflake Data Cloud. This goes som large data volumes within the cloud, where it worth noting this could also go some way to i Al/ML predictions: QPR's ProcessAnalyzer delivery, and then suggest a handful of prever Time to insight: QPR continues to deliver in clustering and root cause analysis tools, amo	s in the market. One client told us this was of ctivity in this market, QPR's size and scale a arly in 2022, QPR announced that ProcessAn ne way to tackling the scalability challenge a already resides, without needing to move it increasing the security of QPR's ProcessAn eleverages Al/ML to deliver case-by-case pro- entative actions, which could deliver significant npressive time-to-value thanks to its low imp	ne of QPR's key dd to its stability. nalyzer could run natively s clients can analyze to QPR's platform. It's alyzer. edictions, such as a late ant savings for clients. elementation time and its	Ecosystem expansion: Once client told us they assessed QPR's ProcessAnalyzer but ultimately selected a competitor's tool due to its ability to effectively analyze processes across an ecosystem of stakeholders rather than just within their own organization. However, QPR assured us that its recent partnership with Snowflake will address this. Local player: Another enterprise told us that they considered QPR too much of a local vendor compared to its peers in the process intelligence market. The executive explained they would like to see QPR target aggressive growth and expand into new regions to better serve client needs.
Clients split	Key clients	Key partnerships and acquisitions	Go-to-market approach	Top five recent developments
 Industries Manufacturing, telecom, banking and final healthcare, pharmaceuticals, logistics Geographies Europe 	ncial services, Total number of clients: 100+ Key clients • Ericsson • Sanofi • KBC Group • Metsä Group	 Partnerships Key implementation partners: Delaware Consulting, EY UK, Infomotion, NTT Data, Sofigate, Tietoevry Key technology partners: Snowflake 	 Sales model: Both direct indirect through partners Headcount: 83 (55 focus process mining, 17% of wl sales and marketing, 41% consulting and customer consulting and customer consulting and customer consulting in product) Key locations: Finland, the sales and the sales of the sales and the sales and	 global healthcare company to expand its process mining SaaS bich are in in with PACE-XL November 2022: Partnership announced with Moore Belgium

and France

Solvay

Poste

Le Groupe La

Gedeon RichterBAE SystemsAllnex

developed SAP S4/HANA Vectorial Solution

May 2022: QPR Software joins Powered by

Snowflake Partner Program

with Tietoevry

Signavio: Process intelligence embedded at the core of the SAP ecosystem

Headquartered in Berlin, Germany, Signavio was founded in 2009 and now has more than one million users in approximately 1,500 organizations worldwide. Signavio's Business Transformation Suite is a cloud-based management platform enabling mid-size and large organizations to understand, improve, and transform their business processes. In January 2021, SAP acquired Signavio to help the former provide an end-to-end business process automation layer.

	Strengths	Development opportunities
HORIZON 3 – Market Leader HORIZON 2 – Enterprise Innovator HORIZON 1 – Disruptor SIGNAVIO	 SAP integration: SAP's acquisition of Signavio makes it easier than ever for SAP's clients to begin exploring process intelligence and streamline their migration to SAP S/4HANA. For Signavio, this provides a sizable growth lever as it has a unique competitive advantage for SAP customers. Collaborative hub: We highlighted Signavio's collaborative hub in the previous iteration of this study. The hub allows users within an organization to access shared data and provide context for processes and functions. This has become even more of a strength as an increasing number of organizations pivot to remote work. Simulation engine: Signavio's clients have once again complimented the firm's process mining capabilities, in particular its simulation engine, for enabling them to model changes and simulate them before actually actioning them. 	 Market placement: Since the SAP acquisition, Signavio has placed itself in direct competition with market-leader Celonis, as the vendor is also well integrated within the SAP ecosystem. Signavio should look to ensure it is implemented as SAP's native process intelligence layer to gain the edge on Celonis. Continued innovation: Clients had previously told us that Signavio's focus on innovation was lower than its peers, something the vendor must keep a watchful eye on since the SAP acquisition. If investment doesn't flow into innovation, Signavio risks becoming just a S/4HANA migration shop while the rest of the process intelligence market evolves.
Process mining		

Clients split	Key clients	Key partnerships and acquisitions	Go-to-market approach	Recent developments
 Industries Banking and financial services, insurance, telecom, manufacturing, media and high tech, travel, logistics, retail and CPG, healthcare, life sciences 	Total number of clients: 100+ Key clients include • Dimension Data Global Services • NBN Co • VEOLIA • CoreLogic • A large mobile network Australian organization	 Partnerships Key implementation partners: Deloitte, Accenture, PwC, NTT Data Intramart, KPMG Key technology partners: Blue Prism, Automation Anywhere Salesforce, FortressIQ, SAP Signavio also has reseller partners including Infor and NTT Data Intramart 	 Sales model: Both direct and indirect through partners Headcount: 500+ Key locations: Germany, Switzerland, the UK, France, the Netherlands, Sweden, the US, Canada, Australia, Singapore, India, and Japan 	 September 2022: Hosted the SAP Signavio Business Process Transformation forum March 2022: Announced availability of experience-driven journey to process analytics January 2021: SAP acquired Signavio to implement intelligence into its business processes

Note: Signavio declined our request for information, but we included it in this HFS Horizons report. HFS leveraged a wide range of data sources (public and private).

Skan: Quickly x-raying operations for a detailed, holistic view of process data

Skan, founded in September 2018 and headquartered in Menlo Park, California, is one of the newer entrants to the process intelligence market. Requiring zero-integration and powered by AI, Skan helps an organization build a digital twin of operations so that it can measure, analyze, and improve KPIs that drive business performance and compliance. In March 2022, Skan closed its Series B funding round, which raised \$43 million to help provide what Skan describes as the missing link in the evolution of automation and digital transformation.

	Strengths	Development opportunities
HORIZON 3 – Market Leader HORIZON 2 – Enterprise Innovator HORIZON 1 – Disruptor Skan ^{AI}	 Holistic process view: Skan's approach to data collection involves computer vision alongside several Al-driven collection and discovery techniques. It goes beyond Task Mining and allows clients to gain a detailed, end-to-end view of their business processes, spanning every front-, middle-, and back-office application. The fine-grain process data can then be analyzed in what Skan describes as a "control tower type view" to assess, improve, and help manage its end-to-end operations on a continuous basis. Zero-integration data capture: Thanks to Skan's data collection methods, there's no need for long API-integrations or connectors, which means clients can be up and running with Skan's process intelligence solution in days rather than weeks and months, which leads to faster time-to-value. Continuous monitoring at scale: Skan focuses heavily on continuously observing and monitoring processes at scale, even post-improvement, which is possible due to its zero-integration data capture approach. Focus on delivering client value, including dashboards and analytics: Skan offers analytics for value engineering, such as Statistical Process Control, Process Health Index (operations control tower to monitor Skan's weighted average index for process KPIs), and Automation Discovery and Analysis. 	 Pilot engagements: Skan has a high number of engagements in the piloting phase. It should look to move these towards the production environment to drive maximum value for clients and drive its own growth. Geographic expansion: Almost two-thirds of Skan's client engagements are in North America, which means it has a significant opportunity to expand globally. Skan should first look to enhance its presence in Europe, a real hub for process intelligence, before looking further toward APAC and LATAM. Industry growth: Skan should accelerate its penetration into banking, financial services, and insurance, where we see significant demand.
Task mining		

Clients split		Key clients	Key partnerships	Go-to-market	Top five recent developments
Industries	Man ufacturin g		and acquisitions	approach	
	Ban king & fina ncia I service s	Total number of clients:	Partnerships	• Sales model: 80%	• December 2022: Launched product version 3.0 featuring out-of-the box dashboards
2% 4%	Life sciences and pharma	25+	Key	direct and 20% indirect	and analytics for real-time operations management, AI-powered graphical
420	Tele com	 Key clients include Four of the top 10 	partners: PwC,	• Headcount: 100+	representation of automation discovery, and next-generation of virtual process agents for automated task discovery and accelerated deployment.
13% 56%	Travel, ho spitality & logistics	insurance carriers	WNS, Fujisoft,	Key locations:	Q3 2022: Launched insurance claims analytics framework to enable insurers to reduce
17%	Utilities	Four of the top 10	Coforge	Menlo Park,	unit cost of claims, reduce claims denial rate, improve claims accuracy and process
	Ene rgy	banking and financial	Key technology	California covers	compliance.
Geographies	■ Others	services companiesFortune 10 global health	partners: Microsoft	North America; Bengaluru, India	Q2 2022: Launched "Future of Work" analytics framework addressing virtual work model challenges like benchmarking and monitoring compliance processes, enabling
9%	■North America ■Europe ■Asia Pacific	 insurance carrier Fortune 10 high-tech electronics vendor Leading global data and analytics player 			 employee experience, and deploying pay-for-performance models. Q2/Q3 2022: Key executive hires: VP Marketing, Damaris Santiago, a proven leader in driving category, company and product growth; EVP Strategy, Vinay Mummigatti, 20-year veteran of building enterprise-level transformations and Centers of Excellence. March 2022: Series B investment of \$43 million, led by Dell Technologies Capital.

* Data included for clients at production only and not total

StereoLOGIC: BFSI-focused vendor that looks beyond automation to drive process excellence

StereoLOGIC Ltd., a Canadian process and task mining pioneer, was launched in 2008 under the leadership of Sofia Passova, who has a Ph.D. in modeling and diagnostics of computer systems. The company introduced innovative technology providing integrated process and task mining. The company specializes in process improvement, enterprise software, operations management, employee performance, task mining, process discovery, customer experience, RPA, workforce optimization, process mining, operational intelligence, AML, hyper-automation, and enterprise operations. The technology is both application- and platform-agnostic and is actively used by small businesses and large enterprises for worldwide transformation projects.

	Strengths	Development opportunities
HORIZON 3 – Market Leader HORIZON 2 – Enterprise Innovator HORIZON 1 – Disruptor	 Look beyond automation: StereoLOGIC told us that its goal is not to just implement automation, but to "make processes work"—a refreshing approach compared to some of its peers focused solely on identifying automation opportunities. Partnerships: While StereoLOGIC mainly focuses on task mining, the vendor offers APIs for easy integration with other leading process mining vendors to allow clients to import their models from StereoLOGIC into other process mining tools. Industry focus: StereoLOGIC focuses on the BFSI industry, giving it an extensive understanding of industry-specific processes, regulations, and nuances, which can be a significant benefit for clients in this sector, particularly given its uniquely complex landscape. StereoLOGIC boasts an impressive BFSI client roster. Time to value: StereoLOGIC's clients told us they could collect employees' operations in one day and have a process map the very next day, crowning the vendor one of the fastest for time-to-value covered in this report. This quick turnaround time allows clients to see perceived "quick wins" and justify further investment in process intelligence. 	 UI/UX: We noted that StereoLOGIC's UI/UX is dated compared to some of its peers. The company should improve the UI/UX if it hopes to stay ahead of this fast-growing market. Marketing: We would like to see StereoLOGIC be more present in the market. The vendor told us it relies on word-of-mouth for marketing. The vendor should ramp up its marketing activities to showcase its products and capabilities. Sharing public client success stories could be a great place to start. Look beyond BFSI: StereoLOGIC has an advantage in BFSI because of its understanding of the business, but its tool can be used in other industries. The vendor should expand beyond BFSI to drive further growth.

Clients split		Key clients Key partnerships and acquisitions		Go-to-market approach	Top five recent developments
Industries 1000000000000000000000000000000000000	 Insurance Man ufacturing High-tech (tech nology, hard ware, software, network) Retail and CPG Ban king & financial services Public sector Others 	 Total number of clients: Not disclosed Key clients A major Canadian Bank Wyth Financial One of five largest US medical insurance companies Sixth largest US bank in consumer deposits East West Bank Pitney Bowes One of the world's largest FMCG providers 	 Partnerships Accenture, Allevar, Appian, Genpact, CGI, Ciklum, Core, EY, Freestone Group, GoAutomate.AI, KPMG, L&T Infotech, Innovation Boutique, InXight, Wanliah 	 Sales model: Direct and partnership Headcount: 25 Key locations: Canada, the US 	 December 2022: 3X revenue growth from the prior year February 2022: Enterprise deal with one of the five-largest medical insurance companies in the US January 2022: Released the world's first unattended task mining tool, enabling business managers to discover, improve, and automate employee tasks without IT, process engineers, and data scientists November 2021: Wyth Financial selected StereoLOGIC for process and task mining solution to help streamline business operations

UltimateSuite: Experienced task mining vendor with a scalable approach to data capture

The Prague-based company was established in 2020 by a group of seven people. UltimateSuite provides pure-play task-mining solutions for automated business process analysis. The company's key focus is on enabling performance management in areas where customers are missing data. Data capture is done via direct interaction.

	Strengths				Development op	portunities
HORIZON 3 – Market Leader HORIZON 2 – Enterprise Innovator HORIZON 1 – Disruptor S ultimate.suite Task mining	 This streamlines the data-col deployment of UltimateSuite' the size of data. Rapid deployment: Ultimate easy to deploy, its clients told Industry focus: UltimateSuit services focused StringData. 	llection process, co is product and help eSuite's approach t d us this is a key st te has a heavy focu UltimateSuite has	g computer vision, UltimateSuite collects objeo officient of the vendor. It is a collection makes its task mining produ- rength of the vendor. Us on financial services, born out of its heritag a deep understand of industry-specific process ed to support clients in that sector.	ables rapid- nungry due to ct quick and e with financial-	 Expansion beyond financial services: While UltimateSuite's financial services expertise is a benefit to clients in the industry, the vendor should look to broaden its horizons and look to other industries to drive further business growth. Size and scale: UltimateSuite is one of the smaller vendors covered in this study. As it continues to scale its operations and client numbers, it should expand its team to ensure it has the capacity to service growing client demands. Late entrant: Having spun out of StringData in 2020, UltimateSuite is one of the newest vendors covered in this study, which means it doesn't have the catalog of client success studies and market credibility afforded to some of its peers. Further, it must address its headcount challenge to ensure it meets growing demands as it scales its operations. 	
Clients split	Кеу	clients	Key partnerships and acquisitions	Go-to-market a	ipproach	Top five recent developments
Industries BFSI		al number of nts: 40+	Partnerships BREAKAWAI, Capgemini, PwC, String Parts I///AA, Daggemini, PwC, 	Sales model partner chan	nel	January 2023: Introducing UltimateSuite Analytics for data analysis and support for the main the demonstrate analysis and support for the

		Cheffica. 40.	Brite/ ii V W/ ii, Oapgerinni, F WO,		7 maryles for data analysis and support for the
606%	Professional services		StringData, KYMA, ProcessPoint, Bilig	 Headcount: 25 	majority of process mining solutions
13%		Key clients	Opex, Opciber, EY, Apromore,	 Key locations: Prague 	 December 2022: The ability to leverage
	Tele com and high tech	Generali Insurance	Livejourney, Mazars		external data to allow instant scalability of the
13% 62%	Man ufacturin g	Media company			solution within an account
		(\$3.5 billion revenue)			November 2022: Launched global alliance
	■ Retail and CPG	Global			and partnership program
Geographies		Industrial processing			February 2022: Launched Robotic Process
20/ 3%		(€ 6,699 billion			Mining for Task Discovery
37		revenue)			October 2021: Apromore partnered with
	Operation what Frances All with Association Asia Data itin				UltimateSuite to drive process mining and
	Continental Europe North America Asia Pacific				task mining capabilities
94%					

HFS Research authors

HFS Research authors



Reetika Fleming

Executive Research Leader Reetika.fleming@hfsresearch.com

Reetika Fleming leads coverage for smart analytics, insurance, and finance and accounting at HFS Research. She studies the broad use of data and analytics within enterprises, with a research focus on emerging strategies to institutionalize machine learning and other AI techniques. Her research extends into the impact of digital business models, IoT, smart analytics, and AI on business process services for insurance specifically, and finance and accounting broadly.



Sam Duncan Practice Leader Sam.duncan@hfsresearch.com

Sam Duncan is a Practice Leader at HFS Research. His research includes exploring innovative applications of blockchain technology and delving into the latest trends in the Banking & Financial Services and Insurance industries. Sam is an Economics graduate from Bournemouth University where he took a particular interest in macroeconomics and global markets.



Hridika Biswas

Senior Analyst Hridika.biswas@hfsresearch.com

Hridika Biswas is working on the F&A and BPO / Outsourcing domain and has recently joined the HFS team.

She has seven years of experience in quantitative research and analysis in Kantar. She has serviced British American Tobacco for its primary and secondary research needs, catering to the company worldwide.

About HFS Insight. Inspiration. Impact.

HFS is a unique analyst organization that combines deep visionary expertise with rapid demand-side analysis of the Global 2000. Its outlook for the future is admired across the global technology and business operations industries. Its analysts are respected for their no-nonsense insights based on demand-side data and engagements with industry practitioners.

HFS Research introduced the world to terms such as "RPA" (Robotic Process Automation) in 2012 and more recently, Digital OneOffice[™] and OneEcosystem[™]. The HFS mission is to provide visionary insight into the major innovations impacting business operations such as Automation and Process Intelligence, Blockchain, the Metaverse and Web3. HFS has deep business practices across all key industries, IT and business services, sustainability and engineering.



www.hfsresearch.com

@hfsresearch



www.horsesforsources.com