

The Role of ERP in Al



Eric Helmer

SVP and Chief Technology Officer Rimini Street

Property of Rimini Street ©2023 | Proprietary and confidential

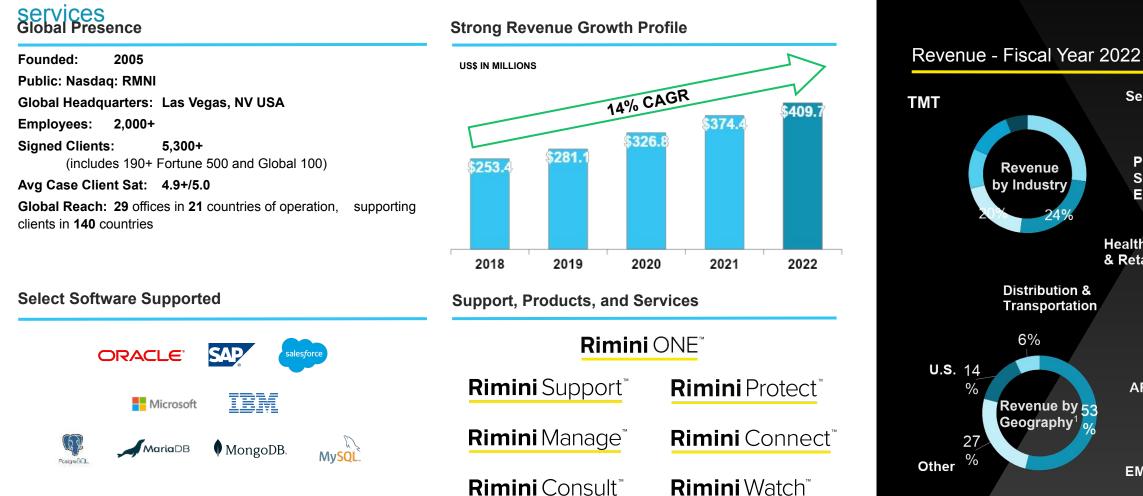
Legal Disclaimer

© 2024 Rimini Street, Inc. All rights reserved. "Rimini Street" is a registered trademark of Rimini Street, Inc. in the United States and other countries, and Rimini Street, the Rimini Street logo, and combinations thereof, and other marks marked by TM are trademarks of Rimini Street, Inc. All other trademarks remain the property of their respective owners, and unless otherwise specified, Rimini Street claims no affiliation, endorsement, or association with any such trademark holder or other companies referenced herein.

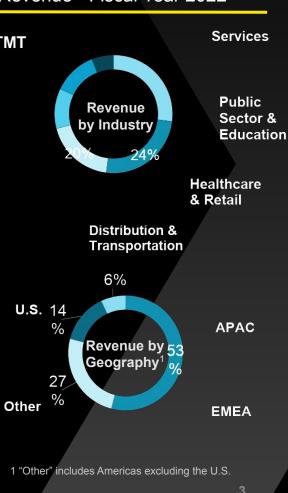
This document was created by Rimini Street, Inc. ("Rimini Street") and is not sponsored by, endorsed by, or affiliated with Oracle Corporation, SAP SE or any other party. Except as otherwise expressly provided in writing, Rimini Street assumes no liability whatsoever and disclaims any express, implied or statutory warranty relating to the information presented, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. Rimini Street shall not be liable for any direct, indirect, consequential, punitive, special, or incidental damages arising out of the use or inability to use the information. Rimini Street makes no representations or warranties with respect to the accuracy or completeness of the information provided by third parties, and reserves the right to make changes to the information, services or products, at any time.

Rimini Street – Company Snapshot

A global provider of end-to-end enterprise software support, products, and



Estimated Client Savings **Over \$8 Billion** in Client Savings



Rimini Street Solutions Portfolio

		Rimini ONE [™]	End-to-End Outse	ourcing Solution	for Enterprise \$	Software				
Select Software Supported			Support solutions Applications, databases,	Rimini Consult [®]						
	- Si	Rimini Support [™]	and technology support	support	performance support	nd Tax, legal, and regulatory updates	Project solutions			
ORACLE'			Named Primary Support Engineers (PSE)	800 engineers with avg 15+ years of experience	24/7/365 with 10-minut guaranteed response	e Up to 15 years of additional support	A COLORISA			
salesforce	ውው		Managed service solu	Rimini Smart Path™ application and technology assessments,						
		Rimini Manage [™]	Applications, databases, an technology management	roadmaps and strategies						
IBM				Software installation, configuration and upgrades						
Microsoft	\sim	Dimini Drotoct [®]	Security solutions	Enterprise architecture						
Informatica opentext	(ੵ) Rimini Protect [™]		Application, middleware, and database protection	Project management						
	ବ୍ଦ୍ରୁତ୍ତ ବ୍ରୁତ୍ରତ୍ତ Rimini		Interoperability solutions Cloud and database migrations							
PostgroSQL mongoDB MySQL.		Rimini Connect [™]	Applications, browsers, op systems, and email interop		•		Custom code and enhancements			
Additional software			Observability and change management solutions Reporting and analytics							
supported with Rimini Custom [™]		Rimini Watch [™]	Technical, performance, and business process monitoring24/7/365 monitoring with 10-minute guaranteed responseChange management			0	Security strategy and hardening Staff and skills augmentation			
Unlimited Model		ONE Trusted Part	ner Industry	y-Leading SLAs		e Models IS Open Source	Deployment Models Local Hybrid Cloud			

4



The Evolving Landscape of IT Departments



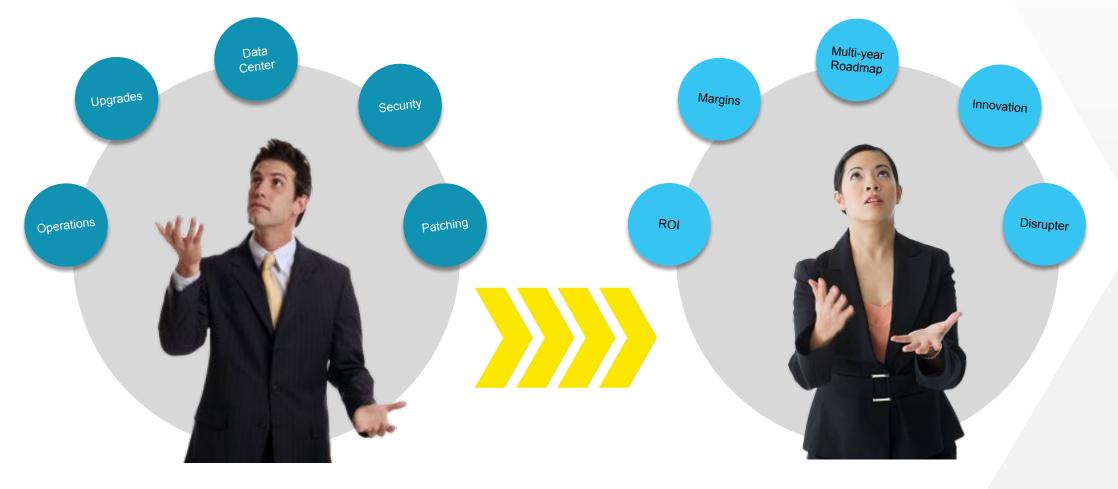
<u>RS</u>

Hot Issues and Topics of the Day

Most customers	Common	Common	Common
are…	aspirations	issues	debate topics
<text></text>	 Better reporting and analytics – lack clean data Want to experiment with AI but confused on security and ethics Need a better/modern user experience 	 Java – unclear what they have, licensing rules, fear of audit Data localization compliance Data integration complexity IT's involvement in ES&G World uncertainty, rising inflation rates, talent shortage 	 Top-down corporate shared service vs bottom-up autonomous divisions Vendor consolidation vs. multi-vendor approach Are customizations bad or a competitive intellectual advantage?

The Evolving Role of IT

Moving from Operations to Innovation



Front Office

So What Do We Do With All of This?

How to stay resilient in these times?

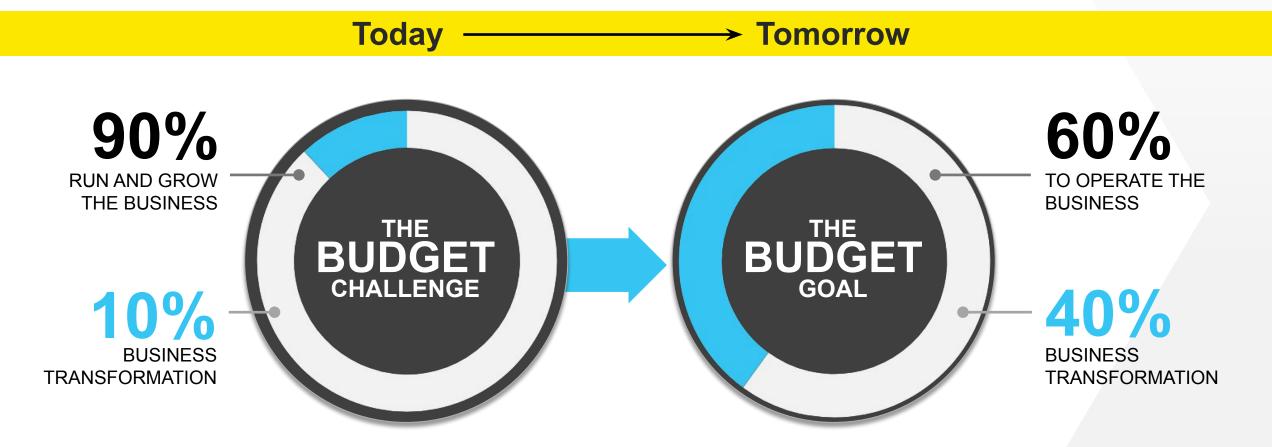




The Reprioritization of ERP in the World of AI

Managing the IT Budget Strategy

Refocusing resources from commodity systems to high-impact innovation projects



Source: Gartner - IT Key Metrics Data 2024: Industry Measures — Executive Summary, 14 December 2023, ID G00802506

Identify and Categorize all Systems

Build resiliency by categorizing systems

Resiliency, evolution starts with categorization

Standardize / Industrialize

Differentiate & Innovate

Internal system non-differentiating

- Non-differentiating from a customer standpoint
- Standardize & mutualize leveraging standards
- Business adapt their processes (use market standard)

SYSTEMS OF RECORDS

- Master Data (Partners, Product)
- Shared Data (Logistic, SCM...)
- Core Models (ie. Financial Transactions)
- Shared Services

Run

Focus: commoditize, outsource, minimum viable solution, lowest TCO

Moving the needle

- Customer differentiating (UX, sales & margin) through innovation
- Leverage "best of breed" SaaS (ext. innovation)
- Innovation with custom developments using PaaS <-> API / EAI



SYSTEMS OF DIFFERENTIATION

- End-user centric/intensive operations (productivity impact)
- Technology disruptive application

Grow

Focus: customer experience, agility, differentiation, experimentation, innovation

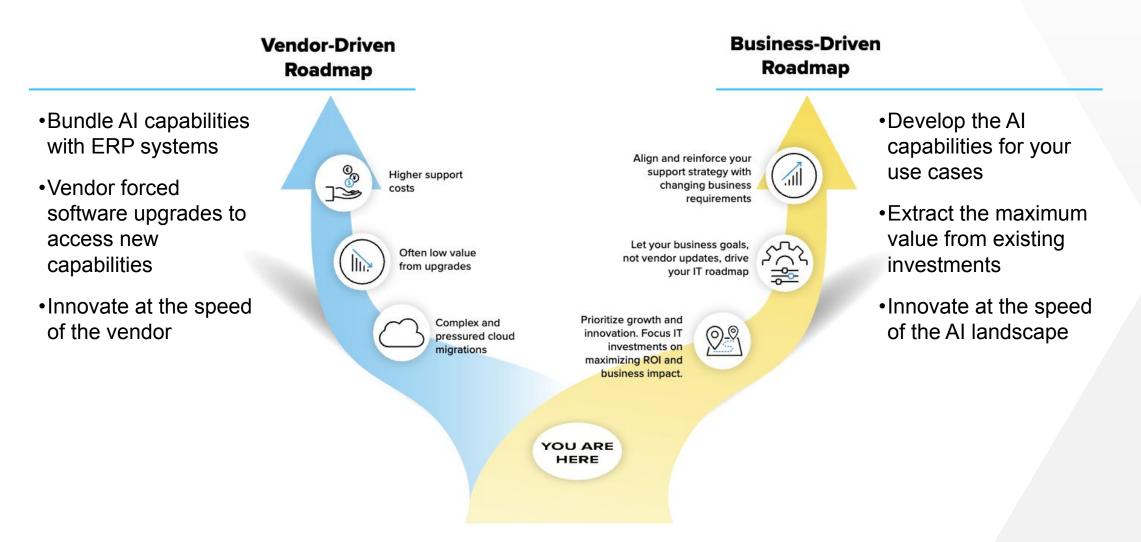


SYSTEMS OF INNOVATION

- New technologies (PoC, experimentation)
- Performance management
- Data driven business models

Transform

Roadmap Options



Anything to See Here?

Example of "new AI features" in SAP RISE

What's "New?"

Business process intelligence?

 Process mining tools such as Celonis, Signavio, or UiPath Process Mining can be used with SAP ECC to gain insights into business processes, identify bottlenecks, and optimize workflows.

Integration with intelligent technologies?

• **Microsoft Azure AI, IBM Watson,** or **Amazon SageMaker** can be integrated with SAP ECC using custom development to bring AI and machine learning capabilities. Middleware solutions like **MuleSoft** or **Dell Boomi** can also facilitate integrations.

SAP Business Technology Platform (BTP)?

 Cloud platforms like Microsoft Azure, Amazon Web Services (AWS), or Google Cloud Platform (GCP) can provide similar cloud services and infrastructure. These platforms offer a range of services for database management, analytics, and application development

Cloud infrastructure?

 Consider migrating parts of their SAP ECC infrastructure to cloud providers like AWS, Azure, or GCP. Using Rimini Street managed database services and cloud managed Services to fully outsource

Continuous innovation?

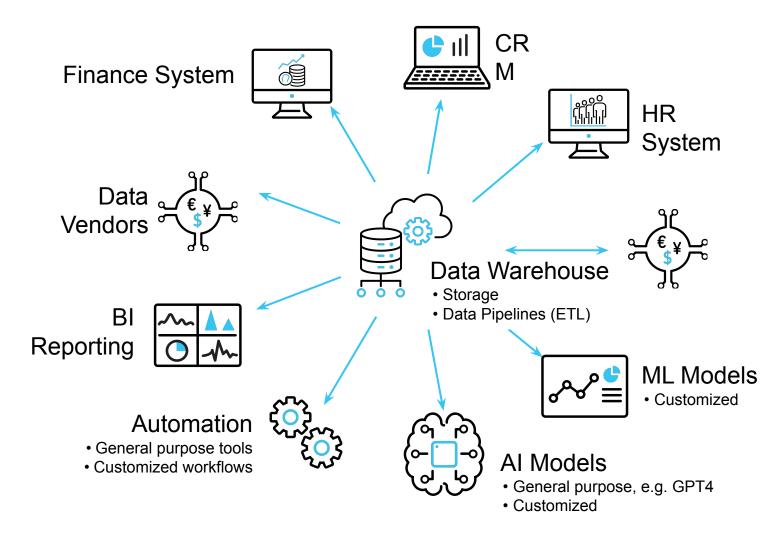
• For a more modern user experience, solutions like **Neptune Software** or **Kony** can be integrated with SAP ECC to develop Fiori-like applications.

The Data Landscape in 2023

These are Al companies

INFRASTRUCTURE		ANALYTICS		MACHINE LEARNING & ARTIFICIAL INTELLIGENCE			APPLICATIONS – ENTERPRISE							
TORAGE MPP DBs DAT		STREAMING /		UZATION	DATA SCIENCE	DATA SCIENCE	ENTERPRISE ML PLATFORMS		SALES	MARKETING	CUSTOMER EXPERIENCE	HUMAN	AUTOMATION -	DECISION
	HOUSES WAREHOUSES	IN-MEMORY			NOTEBOOKS	PLATFORMS			C 0000	Situation General attention Oppin			& OPERATIONS	OPTIMIZ
C	Iremio 😔 databricks 🛛 🐝 👾		and temperate	Fableau Microsoft Power Ei	= upyter == 00 0	IBM most toda ORACLE	lotabricks a	VS tantan 🖉 data	Ci Clari d'arrente		anteres (anterested Orestation III access () at	the Hereitze gloot	Bren d-	-
Google Claud IBM Strage VERTICA	Microsoft Microsoft Orway Claud	formation of present control Viewers		Google	Google Cloud aws	Relation	Morsoft	Detallobot	A more parginers	interest and a start	danage part unphowed motors ISH	Otesto @Bre	Brannen & total	Vnex
	Alare Alare		SSB Sistense ATSCALE	trato in plotiy Presentes	Coogle Cloud aws was				P tattal		ColMerer & frame at loore D O replant at	amone Jepter	Startman al Sate	A 01
B ALLUXIO PANASAS	Impro Barrow Bar		Sous Sisteme AISCALE	Observable	Monart Shinder Doputa	SSAS TIBCO	CEOMINO IL ABACUS.	AI 🐮 Wallaroo		brage @Nexelles copy.al Lily"		At house O houter	· Denese Corres	Bayro
COHESITY ACTIAN 21	Stramerer aWS Lake excuserer to	interior of Strandardine and Mathematica	ampi mana				Shorkel Continuel	dotData Modular	Section Disented	Scopponith Tecture argueord	Comment spillelle CRESTA D Month	Allowed Market	Autorn sindonalus	0
		svenere d'onduitor Aniven Disie	eGROW & kyvos Mandar	1981 Determapper	💭 Noteoble 🗲 count 🛞 COCALC	ANACONDA ALTAIR			Advances Octowerk	phrases IIII .	A beginnin woodable Lynnaporta (D.) Concer (D.)	viser 7 tales	R. SSIM & bordeen	Dim
WERA MINIO	tole ONEHOLEE CONT. H			treamit 4 Ra cumulio	Curvenote >Nextjournal		AIBLE obvieusly.ai cau	saLens @graft				1	LENTY	par
hackblase Aneroversas						1			LEGAL -	PARTNERSHI	COMPLIANCE	FINANCE		
DBMS NoSQL DATABASES NewSQL DA	DATADACEC	DATADASES ADSTRACTION	DATA ANALYST PLATFORMS	CUSTOMER DATA	DATA GENERATION	MLOPS			Closts		amento Comb	Anaplan Davan		
BM 082 Geogle Court and and and and	Google Cloud O'Seektlaw (neo4)	kiostico 4 setter	Mode Microsoft alteryx	STRALIUM C ActionQ	scole di HIVE	Weights & Biases T9CT	On Ocoge Claud aws	EVIDENTLY A	C	Protection W.				
Anna Coope Coope	Tedis TBM Graph	Chargesh Barres Barres Streets	Apyramid 🔝 💑 🖉 access		SCORE INHIVE	a moremones e comet des	CL. Baseten Verta drug	a Same and and	reveal	*	NEVER.	pilot burkeepe	dataralls	Ohighs
	Oimply	PG-Stoot Street	gumus Ande Otomer I Pasa	monticle Amperity&										
And	Paneticale [ROCKET] OPACLE	VECTOR - APOLLO	anada Steek Trance Boke	Slates The Original States	oppen 🕲 Unity	G feldler (3) iterative (3 R.5	ISGO ONLOWN OGGEN	Adrize 🔛			- APPLICATIONS - HORIZONTAL -			
	S isflaxdoto' N 7	DATABASES	Pecon a Equals of dean Bing	Gister daeshin optimove	Sana Laurer		tex medzy SSELDON W	TYLADS - Diesone						
Trescale		O Precore V found			Ellipsch.tt 🚺 bankenes @comme		Same Doctoff of Galard		CODE & DOCUMENTATION	TEXT	AUDIO & VOICE IMAGE	VIDEO EDITING		SEARCH
VOLT	BS DESERVES	Parried and an and an and an and and and and a	🔮 🖻 Lido 🖤 Workstreamie 🗟 carrvas	Mittels 🧼 a naddenstack	KE V7 Odobogen MLEGION				DOCUMENTATION		AN krisp o neght Miljourney waters	(B rumway 🕃 descript	& 3D Droveteer	n ne
speedb	An An	IgoDB Trvelve Labs Oceanvex	Dephoven OWeld Press Starstor	blueconic Cosyncari	MOSTLEAU TOUS gretel MAD	mindsob wzeamu	🗑 alequared 🛟reemo 🕜 awayee	7 0051 Hitmograin	Strongraphy of Martin		Anna Picopad	VIDEO GENERATION -	Осян	m 🕤
TL/ELT/ REVERSE ET	DATA INTEGRATION	DATA GOVERNANCE	PRODUCT LOG ANALYTICS	CRYPTO / WEB 3	COMPUTER - SPEECH	NLP	HORIZONTAL AL / AGI		Ginather Ordanabi		IRAGEN NAME	Constante O Bysthesia	traptie	Meta
ATA TRANSFORMATION		& CATALOG	ANALYTICS splank> @ Origin		VISION Siri dog	Comptone awstan	Street Constances Cooper	esenth O Dearter & OpenAL	De Modor	a state	Unteren De descript	Gates C synaks wanted	60	E Perg
dbt talend alteryx	Company Company		al ante Oderpitede suma legie solarwends	69	Dimpline 2005 to 2005 to		ANTIGETENE TEM new Adde			O NovelAl O Land	alpace magazere	orm toxus" 150	Distante M	ger
Finter Stitch & MATILLION highton	h boomi MuleSoft ≥TEALU	IBM prefabero Constantion	mineral entrate		anitz. Bour Birt	cotor - service a	Annest Osenen Co		an ()	(D.G. RALLE) O DOWN	Protestal Process Registered	Turnal An Auris Charger	Ominge	YO
Rambine kleene Colors & rubberts	esnaplogic Qlik@ atray.	EMMUTA Steamona ovica	Louis Outr		Shinese Parises method	-		2 Ann Instant for All Station	aws:=		M MURA Q		3	Beept
Airbyte Dimograte.is	celigo Omentie Informati	O Muntheman (+) INLECT STAR Seconda	Contentativare MESMD @ Caralog		Column Olle cogit			V METTON 2017 DES	_		() Experiors			
tany Mitchaso Ofentine R Rivery	@ snowp.ow 13 Flatfile	securiti ANT Cherry Porr	Il Heep @ astara		@ clastici 29 Poly	((Rum 🦉 ()	Clines Produm		-					
	0	Castor Derryst strano	fulstory quasters		Carrier A and	Crostiant @oreat		AIZIIobs Y BELITIN			- APPLICATIONS - INDUSTRY -			
Giat @ Prophery Come @ Interston Octoli	Statementers Hostated Districted	Carolina 12 million annual	Whotfix OlogicMonitor & sendo	3	Conversion Designment	OLET G-deepset			FINANCE &	HEALTHCARE	LIFE SCIENCES TRANSPORTATI	ON a AGENTITUES a INC		GOVT& -
	Eg sequentum Hoobsled merriclat	Onion 🕸 raito 💿 Solidotus	Contraction Designments with series	Case - Concerne	CREATER SHOWING BASE		-		INSURANCE	fation SALL & Only Stores	State Theolog Y-			INTELLIGE
		COMPUTE	QUERY ENTERPRISE SEARCH		AI HARDWARE	GPU CLOUD	CLOSED		KENSHO AUpsta		W cruise as			*04mm
	NAGED aws the P new relic	& SECURITY aws	ENGINE	ORACLE	Comprised Contracts into	A Paperspace	SOURCE MODEL		Amouste Diarosa	2 cherty addoc GAID	·APTIV- Cierry			Annes C
Chokel B constants mark	YHZ THE AppOynamics splunk>		@dremio		Stanballow Missee	CW CoreWeave	Expendit Com	SAI Google @OpenAI	A ACAPE SHI	FT selfore Obe Stiereds Oblas	Berendert DAvena K-10 Augungers @		enkeosio Tata	C C C C C C C C C C C C C C C C C C C
	nationCuta E splanwings odjestrace	Case Mary Tares	aws that aws the	Microsoft Adure		007 00 mentals	COTO-41 Canada Company	Desphind @OpenAI	FLANCE T Sends Ende	a menator poper Super Patron	Schodeger Investory	40X	- Cest - 825_ (7	N DAMES OF
	Ondrá borist vmoro	Channel Galler Bargacite (1) Madd Millions	Stature (C algolia Cov	wo Osinequa	OTM STATIANT GRAPHO	Long -		DeepMind Gaugis Research		suringhanth of month Was	A 30ME @m.m	Barresses -	MILT D	EPIRUS ¥
aws			Lucidworks O on		instantion Cambricon 23 tot	- EDGE AI	CO Meto Al	Table Barthamant	O coeber to ress 2 m		Anandin Disease nimbus A never 25	- region		
Acure Contract Contract	Nexts Interferences 100001.4	and the second se	anana		Ablacer Comes HAI	Qeexo H	INILO		C may Converse Alabati	d Landard Officeret HIPOPUL		A Citations		CROSS
	Tabely Doorseland	Azure nuclio	glean 🖌 vect	tara 🏘 очискиит	In mobileye and the California	Nonellie .			ZEST® Stern Toget	brage or marries strate VOro	Dackente Chierana heath	ni Dut	ider OAME	QPein
Coogle Cloud precisely Wignue Value \$	osto vertueity contractos Pagerbuty économo @cast	Banks ENVIL Dampting COUNTS	aws the CHAOSSEARCH	(), seva				Meto Al O DeepMed	Genera 🖬 table	Start & regard Noble FATHO	the moderne & country			dos V
- Booklass	Concercio Concercio	Arraditor	-	1.00000000	Stationer 1	hed				Basiaka 'Anomaly 19 sonio 2 am	pony ou	• I I I	2	\$ sparlog
	the second s				OPEN SOURCE INFR	STRUCTURE								
AMEWORKS FORMAT		BASES OLAP ORCHES			TOOLS & MLOPS & AI II	AI FRAMEWORI	KS & LIBRARIES		AI MODELS &		SEARCH LOGGING & MONITO	DRING VISUALIZATIO		COLLABO
toping sool and the sool	Spork & Spork	Margal Margal Contained Contained	Annual STRUCTURE A MARGINE MESSAGIN		SUAGES Apples	grateles TensorFlow O	PyTorch 🖪 Keras fast.ai 🖧	OpenCy Cain School	ARCHITECTUR		Sol/? Soli? Kitana	4 may 33 00 m		
m Okubernetes @ +1301		Ppinet Ppinet	The second second		Sola Grant Brenter Aller Grant			anet A Chainer @ ON		Binesi Binesi Binesi	Lucere hopen O	Yant Pridesh	3 1	0 BeakerX
docker GCDRP Ameren 🕅 🔍 🗠		n 💁 💇 🚔 sriak 🔬 💁	INION BUILDER AND LOUTS	Guru olta Water	DVC 2000	Pytorch Li				Coople Al Intervieway Review Review	III melliocorch () Sunt	realbri		@ 1000
HELDE Glask - Anno Announ	Tana Bren Steens Propio.	And And Address of Street Stre	(H (R 1995) 2 mmm	Con changes an arms	P Datasa (Reg California Californ	Enter Estatis HO	ROVOD Cover Sport	H,Ool Silver		AN Geogleterent Geogleterent	tent - tantivy	Greation b	okeh 😂 🏾	
1. Denoted	1	ion			1								1	
		DATA SOL	RCES & APIs							DATA & AI COM	SULTING			
TA MARKETPLACES FINANCIAL & MARKETPLACES		AIR / SPACE / SEA	PEOPLE / ENTITIES	LOCATION INTELLIGENCE -	ESG		- OugetuneRt		loitte. TRB	Lucambra Composa	LeewayHertz skalom	A BROOKLYN TEI	INARY 1	(1) TRI
	anton mortens D DOW JONES / States		OWARD Beenine Action Superior.	roussaure Omaphax S			QuantumBla	BCG De	stitute	Al Consulting Computation	LeewayHertz SIGIOM	/IT. DATA CO. TEI	Z	W 188
Brus Echoor	A		Facilian John Manutan	unacast. Place	L L L	esgbook ISS ESG>	R true 1	data roat	labs bona Lab		zoti addepto 🔗 UPRIC	HT Byteco	de IO	LEIT DA
	Contratente cornest enigne MX tink?	There are the other the ot	Quantcast Cognism				trox	TI NSKIHTS GATA TOUT	C) sous La					
Anter Otores from 12 O Keele		sease Sympetrice El eagleview	TYL Oranitation mellisse zignal i de Brandman	A Radar O Placet.al & cuebiq	Stanteuting 100" (CARITY	- Arcadia neviste 🧕	MERU DO	🕉 🕖 ata Captains	🔘 * X == 85 📕 🛃 454	Bundt BI Anaptios	BiphOata 🕥 Mulat kubrick 🖬 Fier	mFactors DATA	EY \$25	CapTe

A Composable ERP Approach to AI Innovation





The Role of ERP in Security

MIIIII

Addressing vulnerabilities is challenging

"...firms are able to fix between 5% and 20% of known vulnerabilities per month."

 Forum of Incident Response and Security⁶

"...patching this veritable tidal wave of new vulnerabilities every year is simply an unattainable and ludicrous task"

– Dark Reading⁷

"Don't try to patch everything...use threat intelligence, attacker activity and internal asset criticality to provide a better view of real organizational risk.

– Gartner⁸

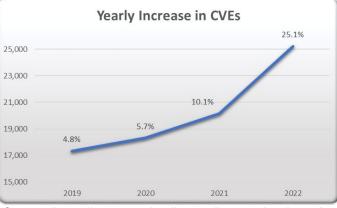
Security Industry Evolution

The case for risk mitigation

Known vulnerabilities increasing at alarming rate

- More than 23,000 new vulnerabilities reported in 2022¹
- 1,900 new CVEs per month in 2023 predicted by Coalition research²
- Critical vulnerability remediation takes 60 days on average.³
- Exploits for new vulnerabilities take 15 days on average.⁴
- 80% of public exploits are published before the CVEs are published.⁵

Change in known vulnerabilities in NIST Database:



Source: https://www.cvedetails.com/browse-by-date.php

Attack vectors are evolving

Common Weakness Enumeration rankings trend up as CWEs become well known, understood, and exploitable. CWEs with accessible Attack Vectors tend to trend high in the Mitre top 25⁹, as a result of increasing rates of exploited vulnerabilities associated with the CWE¹⁰.

CWE-based solutions that gain industry acceptance and adoption, cause the CWE's to trend back down, as they are no longer easy to exploit⁹.

Rimini Protect[™]

ERP and Security

The Challenge:

- ERP software is big, complex, and unique
- Typically, with extensive customizations not covered by vendor patches
- It's about risk management value

Patches Alone May Not Be Enough:

Security patching alone does not address the root of many exploitable attack vectors:

- Injection Flaws
- Insecure Deserialization
- Request Forgery
- SSO/MFA Limitations
- Service Segmentation

Defense in Depth

Purpose built solutions from specialist security companies

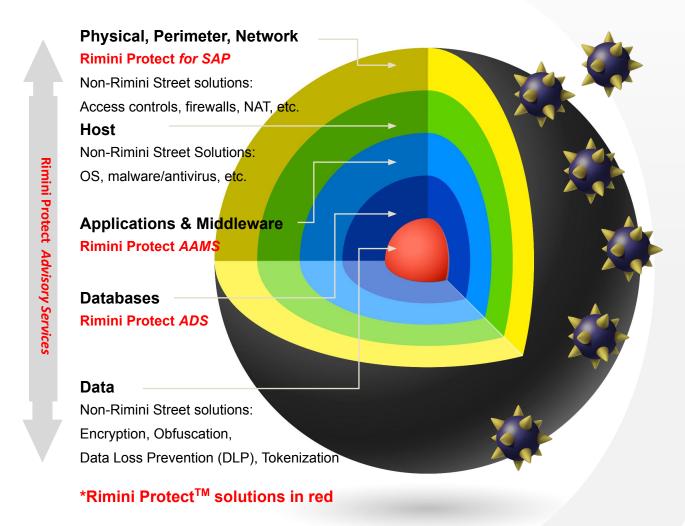
Purpose Built for Protecting Enterprise Software:

Every organization implements enterprise software ecosystems based on business requirements. Implementations vary widely with each business' requirements.

NIST promotes:

"Information security strategy integrating people, technology, and operations capabilities to establish variable barriers across multiple layers and dimensions of the organization."

Rimini Protect solutions are **personalized** to a client's ecosystem to **complement and enhance** existing security strategies to protect against **known** and **unknown threats** and vulnerabilities.



Summary

Use the Right Solution

Why Wait?

- Use ERP Companies for ERP Functionality
- Use AI Companies for AI Capabilities
- Use Security Companies for Security protection

- Technology exists today
- We cannot wait for individual software companies to catch up
- Data is the Asset

Composability Advantages

- Flexibility to easily change
- Maximize ROI
- Avoid monolithic lock-in

Rimini Street

