⠿SES | **COMPANY OVERVIEW**

A Trusted Technology Partner for Public and Private Sector Enterprises

TOP ENGINEERS FOR TOUGH IT CHALLENGES

Government and commercial entities alike face mounting regulatory[1] and competitive[2] pressures to embrace technology for better performance and less risk. Technology can power gains in efficiency, security, cost savings, and other ROI. Unfortunately, poor implementations expose the organization to more risk, complexity, and costs. The difference between success and failure comes down to choosing the right technology partner.

Founded by seasoned engineers and home to some of the best minds in government and commercial technology, Systems Engineering Solutions Corporation (SES) is the trusted partner of choice for government and private sector clients who understand the make-or-break role technology plays in the enterprise.

SES combines a platform-agnostic mastery of today's vast range of technology tools, together with the judgement and domain expertise needed to apply them in the complex, highly-regulated, production-grade environments where these technologies must operate seamlessly together.

SES is Home to the Nation's Best Technical Engineers

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SES was established in 2003 by a group of software engineers who had vision: A client-focused company founded by and for engineers — and built around the engineering ethos of no-nonsense, can-do perseverance in technology design, implementation, operations, and problem solving. Today, we're the employer of choice for top systems engineers.

DEEP EXPERTISE, BROAD CAPABILITIES

Whether it's hybrid cloud design, self service provisioning, cloud-native apps, microservices, data center and cloud migration, operations maintenance, technical support, IT financial management, or any number of services we provide, SES engineers and solutions architects are trusted by clients like the **U.S. Census Bureau**, the **U.S. Department of Veterans Affairs**, **GSA**, **FBI**, **National Archives**, and other clients.
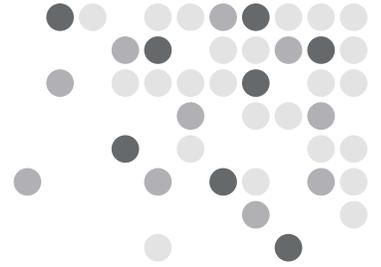
All SES program managers are PMP certified, 80% of SES personnel are ITIL trained, and we hold advanced ITILv4, AWS, and VMware expertise. Our staff includes certified scrum masters, and we have expert certifications not just in **VMware** and **AWS**, but also **Cisco**, **Oracle**, **Microsoft**, and additional technologies.

[1] H.R.5759 - 21st Century Integrated Digital Experience Act
[2] https://www.forbes.com/sites/jeffthomson/2018/03/26/digital-transformation-isnt-an-option-its-a-necessity/#7e19a10d7504

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CAGE	NAICS	DUNS	GSA Schedule 70	CIO-SP3 SDVOSB
3DXL7	541511, 541512, 541513, 541519, 611420, 561410, 811212	128578429	GS-35F-455AA	HHSN316201800036W

⠿SES

A HOLISTIC APPROACH

Regardless of exactly how clients engage us, they know we're working from a comprehensive understanding of client systems and a knowledge base as deep as it is diverse. The quality of our people means clients always get the skills, judgement, and commitment necessary to handle the nuances, surprises, and curveballs that arise with complex jobs and tricky implementations. Also, with the agility of a federally-recognized small business and a roster of more than 1,000 highly-certified technology professionals to draw from, we can adapt and scale to meet projects of any size or specificity.

The SES holistic approach is represented by six distinct but interrelated core capabilities:

Modernization

SES addresses the full modernization lifecycle — from system design and testing, to deployment across the enterprise and workforce adoption. Our engineering expertise and familiarity with client systems means we align everything with real world business needs, available technologies, and cost considerations.

Process Optimization

SES staff are masters of process optimization. From business rhythms and workflow diagrams, to performance protocols and integrated release schedules, we can holistically manage dozens of disparate, siloed systems — and we optimize, document, and transition everything so clients can inherit these process improvements as their own.

Integration & Test

Integration and test is not a pass/fail exercise, and clients should expect more than a check-the-box approach. At SES, we hire integrators, not just testers — people with the skills and judgment to troubleshoot the unknown, strategize solutions, and document them as actionable and repeatable steps the whole organization can use.

Leadership & Execution

Leaders rely on SES and our BizOps approach to release management, business integration, performance modeling, and other business processes to smooth the path from strategy to execution. We also help government clients navigate the hype-filled commercial marketplace to select optimal tools and solutions for agency environments.

Integrated Security

SES understands the entirety of client systems and security issues across the enterprise. Our DevSecOps approach leverages continuous integration/delivery, automated ITSM, and continuous software assurance for an integrated approach to security. And we employ risk-based prioritization as a targeted, cost-effective way to assess criticality and prioritize fixes.

Managed Services

Managed Service providers are only as good as their people. Whether it's systems/solution architecture, systems performance tuning, infrastructure engineering, or any other service, SES's level of expertise means you don't just get capabilities, but also judgement-as-a-service and experience-as-a-service in ways that no other technology partner can deliver.

ENGAGE WITH SES TODAY

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Systems Engineering Solutions Corporation
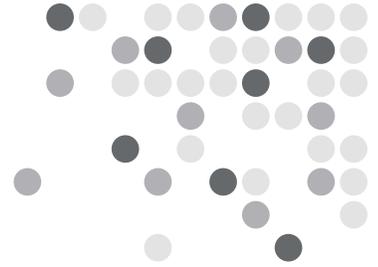Maryland Trade Center I · 7500 Greenway Center Drive, Suite 905 · Greenbelt, Maryland 20770

SES | **CORE CAPABILITIES**

Modernization

PARTNERING WITH CUSTOMERS IN THE MODERNIZATION JOURNEY

SES addresses the full range of modernization challenges involving how people, processes, and technologies intersect for better performance and security. SES breaks down silos, stabilizes legacy systems, and transitions organizations to modernized service delivery using **DevSecOps**, **Agile at Scale**, **Microservices**, **Software Defined Data Centers**, and **Application Modernization**.

Our engineering expertise helps align modernization efforts with real world business needs, available technologies, and cost considerations. We help clients pinpoint exactly where and how to modernize across the enterprise — from requirements, development, testing and integration; to operations, maintenance, optimization, and workforce adoption.

MODERNIZING WITH STRATEGY AND CONFIDENCE

SES understands modernization is not simply rip-and-replace; it requires a roadmap that thoughtfully and proactively addresses security, operations, and management challenges of concurrent operations. SES works with your organization to transition to agile methods, technologies, and systems through a virtuous cycle of learning that starts with a Minimum Viable Product — followed by quick iterative improvements that scale up as legacy systems are stabilized and/or retired. Our approach reaps significant ROI for clients.

SES CORE CAPABILITIES

- Integration & Test
- Leadership & Execution
- Process Optimization
- Integrated Security
- Managed Services

Modernization

Modernization is one of six distinct, but interrelated, Core Capabilities that make up the SES holistic approach to enterprise and emerging technologies.

- We modernized the 2020 Census operation — leveraging DevSecOps to move 54 systems, hundreds of developers, and thousands of servers to a Cloud-Smart hybrid design consisting of Edge, On-Prem, existing infrastructure, and the cloud

- We modernized one client into the cloud to realize a 10x cost savings while increasing availability from 92% to 99.9% in support of more than 60,000 endpoints.

- We created a unique enterprise infrastructure and continue to provide ongoing support to host the first-ever Internet Self Response for the U.S. Census Bureau's 2020 Census operation — developing capacity to serve up to 600,000 concurrent users through Rationalization, Automation, and Software Defined DataCenters to optimize consumption and resource efficiency.
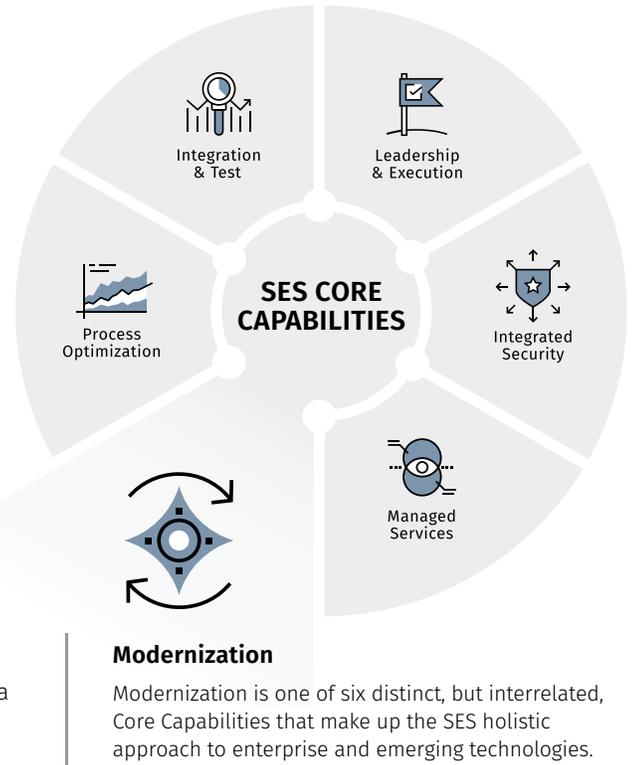
With every project, our engineers continually improve system design while taking a learn-it-and-share-it-all approach to promoting knowledge base documentation and sharing lessons learned across customer engagements.
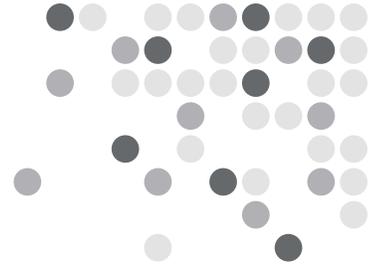
Engage With SES Today

Systems Engineering Solutions Corporation is the industry leader for designing, securing, evolving, and maintaining enterprise systems — including at the scale necessary to manage data for +300 Million U.S. Citizens in our support of the U.S. Census Bureau. Our solutions are proactive in helping Government and private sector clients evolve infrastructures; scale security and operational capabilities on demand; and overcome inefficiencies tied to legacy architectures. Where can your enterprise systems take you, with SES as your guide?

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SES | **CORE CAPABILITIES**

Process Optimization

SPEEDING DEVELOPMENT AND ADOPTION OF BETTER PROCESSES

SES personnel are masters of process optimization — identifying current processes, tying them to KPIs, and then further optimizing and customizing processes in strategic, cost-effective ways. From **business rhythms** and **systems engineering**, to **integrated release schedules** and **meaningful KPIs**, we can holistically manage and orchestrate historically siloed systems and lines of business. Throughout, SES will optimize, document, and transition everything so clients can inherit these process improvements as their own.

SES leverages a value-based governance approach to target exactly how and where to best optimize client processes. We conduct rigorous baseline assessments, build robust metrics, and execute a tailored approach to new processes within the preferences and realities of the client environment, including highly-regulated government settings.

POWERFUL ROI AND EFFICIENCY GAINS

SES covers the range of Process Optimization needs — from resource pooling and federated network management, to automated provisioning and data standardization — to reap more value from the enterprise.

- We created an Operational Readiness Board (ORB) as a process improvement for one client to mitigate risks and create a unified view of deployable changes across all operations. SES was able to get senior leadership involved as organizational champions and daily users of this ORB that we created from scratch.

- For one client, SES created an Integration Framework to align more than 50 systems in multiple stages of maturity and with multiple development structures (waterfall, agile, etc). For that same client, SES innovated process improvements to handle dozens of daily change requests — accelerating turnaround from 2-4 weeks, to less than 24 hours.

- For the U.S. Census Bureau, SES successfully created and socialized process improvements to regional staff via distribution of knowledge based articles (KBAs) — to the extent that 90% of nearly 2,000 daily tickets could be resolved at the local or regional level without needing to escalate to the national Decennial Service Center.
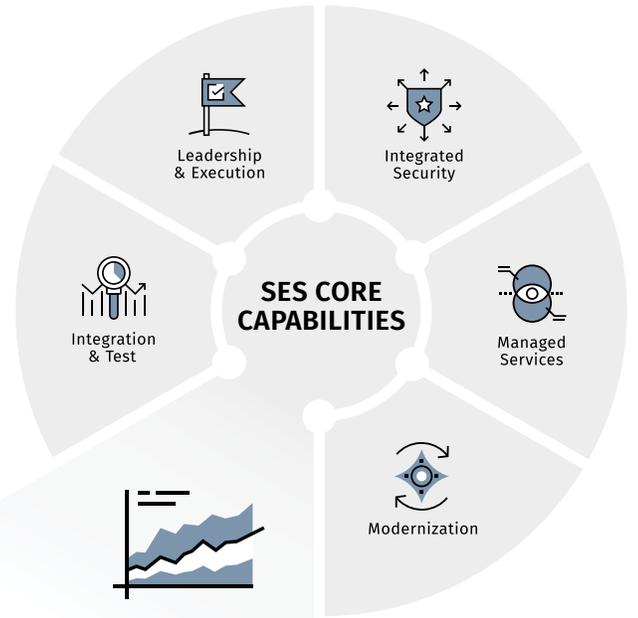
Throughout, SES ensures business value through a comprehensive refactoring of processes, together with socially sensitive ways to collaborate among business groups. This is strengthened by KPIs, metrics, and other measurable forms of continuous improvement.

SES CORE CAPABILITIES

- Leadership & Execution
- Integrated Security
- Managed Services
- Modernization
- Integration & Test

Process Optimization

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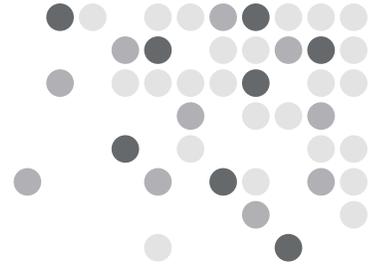
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Integration & Test

ADVANCED SKILLS AND JUDGMENT FOR I&T

Integration & Test can be complex and challenging work, and clients should expect more than a check-the-box approach. At SES, we hire integrators, not just testers — people with the skills and judgement to troubleshoot the unknown, strategize solutions, and document them as actionable and repeatable steps the whole organization can use.
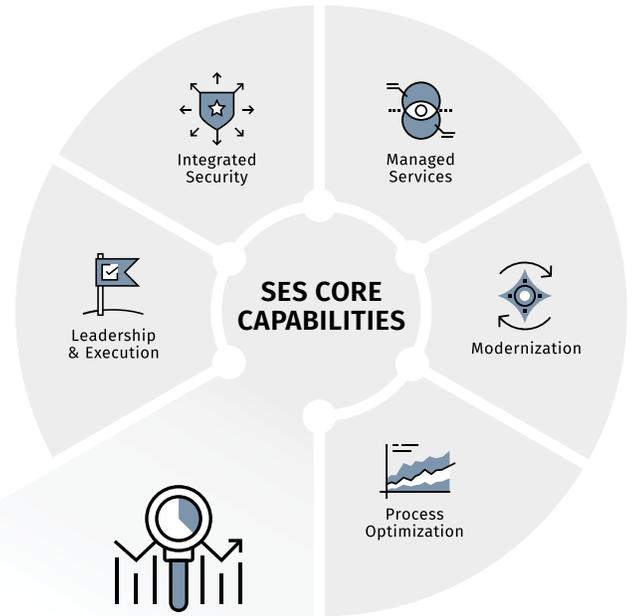
As an ISO 9001 Certified company with **CMMI Level 3 processes** in place, SES has independently validated industry leading approaches to **Quality**, **Risk Management**, and **Configuration Management** — crucial components for ensuring solutions are tested and confirmed to integrate with the modernized enterprise infrastructures of tomorrow.

COMPLIANCE AND PERFORMANCE AT SCALE

While many organizations have the basics handled, the SES holistic, foundational approach to Integration & Test includes structured components for systematic, full lifecycle, end-to-end testing and modular quality assurance checks — from development through deployment and IV&V. Among the benefits we bring to our clients:

- With more than 14,000 test cases written by SES for one project alone, our testing methodologies are scalable and based on the industry guiding SEI-CMMI, IEEE 1012-2016, ISO/IEC 12207, Section 508, and ISTQB standards for system, software, and hardware verification and validation.

- Platform-agnostic mastery of today's best technology tools, with the skills and judgment to integrate and test best-of-breed components for efficient, secure and compliant performance at scale.

- SES Integration & Test solutions support seamless functionality for +600,000 concurrent web-users for the Federal Government.

Some companies focus only on paper compliance — at SES, we exceed minimum expectations and specified functional requirements to wed compliance with superior performance — giving our clients the confidence and capabilities they need to serve their customers.

SES CORE CAPABILITIES

Integrated Security

Managed Services

Leadership & Execution

Modernization

Process Optimization

Integration & Test

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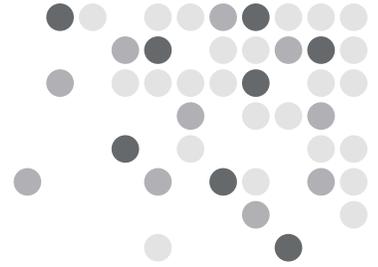
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Leadership & Execution

HELPING TURN LEADERSHIP VISION INTO REALITY

Leaders rely on SES and our data-driven BizOps approach to smooth the path from strategy to execution. SES embeds peer-to-peer collaboration with clients at every eschelon: From Board and C-Suite-level strategy, to project management and program analyst support — we partner our experts with yours at every tier for a unified view of the organization and transparency into business units.

This enables smart, agile business decisions leveraging our expertise in risk-based prioritization — all within a high-trust culture of collaboration. We also help government clients navigate the hype-filled commercial marketplace to select optimal tools and drive solutions to produce superior results in agency environments.

NAVIGATING RISK AND OPTIMIZING COST STRUCTURES

SES arms client leadership with a cost, schedule, and risk conscious approach to ensure modernization decisions are bold, but strategic — replacing reactive, shoot-from-the-hip decisionmaking with a more proactive, thoughtful, and realistic approach. From compliance, governance, total cost of ownership, and more — we build a clear, comprehensive, and actionable dashboard for organizations to prioritize efforts and realize maximum ROI.

SES CORE CAPABILITIES

Managed Services · Modernization · Integrated Security · Process Optimization · Integration & Test

Leadership & Execution

Leadership & Execution is one of six distinct, but interrelated, Core Capabilities that make up the SES holistic approach to enterprise technology.

- We mitigated third party risk to a major government agency mission system by establishing a daily enterprise cross-representative Operational Readiness Board for a unified view into risks of deployable changes across all operations — including hardware, software, patching, policy, and governance.

- SES created an integrated framework for centralized management of 35 operations across more than 50 systems. This enabled the client to align all schedules, activities, tasks, and deployments across the entire development and operations cycle — from design and test, to production and closeout.

- For one client, we ensured agility and execution at massive scale — handling engineering, implementation, testing, and release to operations for over 40,000 change requests in just an 18 month period.
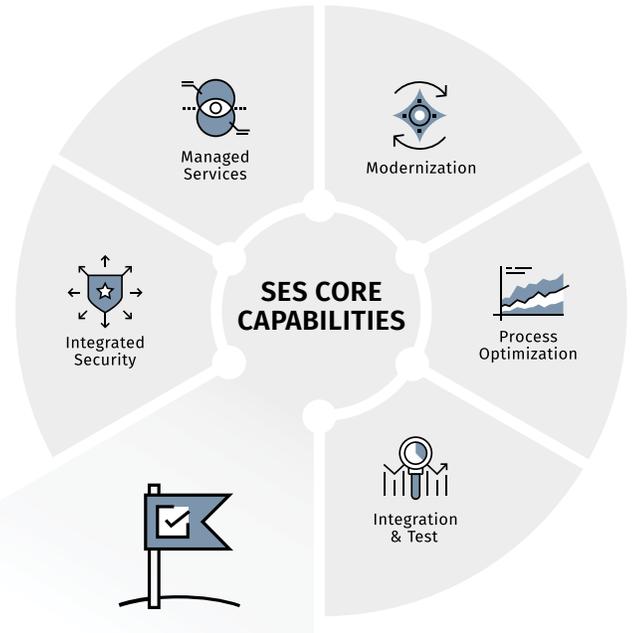
Throughout, SES's comprehensive approach to security means organizational leaders can execute boldly on strategic priorities with minimal risk to the organization in release management, business integration, performance modeling, and other business processes.

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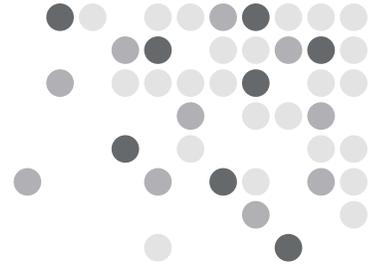
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SES | **CORE CAPABILITIES**

Integrated Security

A UNIFIED VIEW OF SECURITY FOR PROTECTION ACROSS THE ENTERPRISE

Systems Engineering Solutions Corporation (SES) understands the entirety of client systems to bring an integrated approach to security. We leverage continuous integration/delivery, automated ITSM, and continuous software assurance to "bake-in" security with every build our engineers enable.

From the SES DevSecOps approach to Agile and our CMMI Level 3 processes, to the advanced Enterprise IT Service Management solutions we use to secure more than 1,000,000 endpoints and users throughout the Federal Government, SES delivers on security and deploys Government-preferred tools such as **VMWare**, **AWS GovCloud**, **Oracle**, and **Azure**. Throughout, we employ risk-based prioritization as a targeted, cost-effective way to assess criticality and prioritize fixes.

AGILE AND SCALABLE SECURITY SOLUTIONS

As a Federally-designated Small Business with a network of more than 1,000 seasoned technical SMEs to draw from, SES is at once agile and scalable. Whether systems live locally or in any of the FedRAMP certified secure Cloud architectures, SES provides centralized and secure management through global and granular controls to ensure the confidentiality, integrity, and accessibility for data at motion, at rest, on-premise, or off. Among the benefits we bring to our clients:

- SES orchestrates our customers' infrastructures and interfaces to interact securely and seamlessly — as evidenced with zero findings across hundreds of ATOs.

- We deliver and maintain 24x7 nationwide enterprise support and security for massive at-scale platform solutions, providing Desktop, VDI, and VOIP solutions for more than 25,000 users across hundreds of physical sites.

- In just the past few years, our Enterprise NOC and SOC teams have identified and mitigated nearly 30,000 security findings, and we've modernized infrastructures to evolve for security ahead of the threat vectors.

Between our industry leading PAM implementations, Zero-Trust architecture designs, and future-facing capabilities with the FIDO Alliance and other multi-factor/channel authentication modalities, SES secures today's systems for the scalable future.

SES CORE CAPABILITIES

- Modernization
- Process Optimization
- Integration & Test
- Leadership & Execution
- Managed Services

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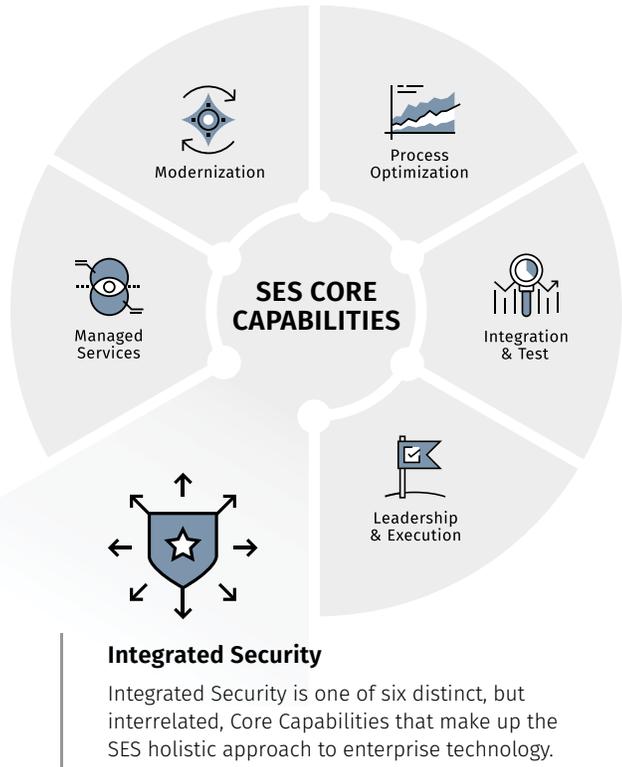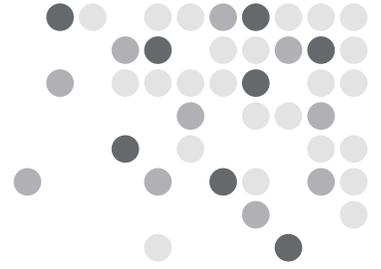
Managed Services

TOP EXPERTISE AND SEASONED JUDGMENT…AS A SERVICE

Managed Service providers are only as good as their people. SES's level of expertise means you don't just get capabilities, but also judgement-as-a-service and experience-as-a-service in ways that no other technology partner can deliver. SES takes the ownership component of managed services to heart. We own it all, but in a way that customers maintain full buy-in and visibility.
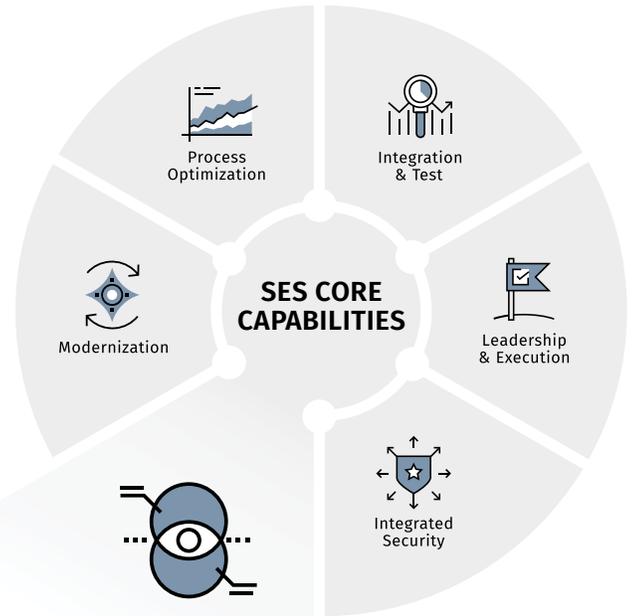
From **infrastructure** and **personnel**, to **facilities** and **security**, we take a comprehensive approach to managed services that delivers performance and peace of mind for clients. Throughout, we enable strategic business decisions by aligning risk, cost, and schedule considerations with relevant KPIs and logistics.

SECURE AND EFFICIENT PERFORMANCE AT ANY SCALE

The SES suite of managed services draws on our deep expertise across several Core Capabilities that cover Security, Process Optimization, Integration & Test, and more.

- SES created a Decennial Service Center for the U.S. Census Bureau to cover a range of needs — from account management to incident handling — at massive scale of more than 113,000 work orders in less than 3 months.

- For the U.S. Department of Veterans Affairs, SES took on a massive file bank extraction project — indexing, transporting, and formatting for scanning more than half a million veteran files across three VA facilities — all while meeting all Turn Around Time (TAT) requirements and always coming in ahead of schedule.

- SES created an Infrastructure Platform Service for one client, allowing for centralized consumption and management of cloud and on-prem assets across dozens of platforms.

With rapid elasticity and automated provisioning that helps client systems perform securely and efficiently at any scale, SES brings a level of managed services that empowers clients to set and achieve the boldest of business goals.

Process Optimization

Integration & Test

Modernization

SES CORE CAPABILITIES

Leadership & Execution

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