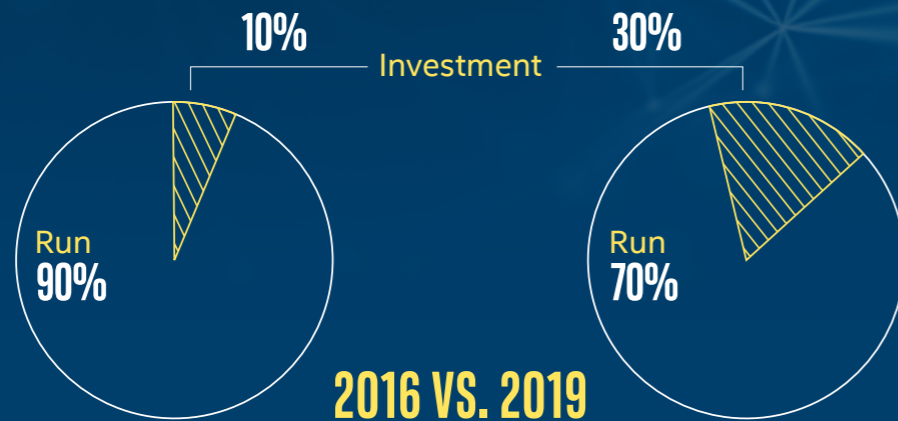FRAMEWORK FOR TECHNICAL DEBT REDUCTION

TAKE THE FIRST STEP TOWARD DIGITAL TRANSFORMATION

intel®

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MODERNIZE YOUR INFRASTRUCTURE
THE INTEL IT WAY

Today more than ever, failing to address technical debt puts your business at a disadvantage. Makeshift solutions stacked atop legacy systems decrease efficiency and increase run costs, exposing you to cyber attacks and limiting your ability to innovate. In this fast-paced digital era, only the proactive and vigilant will remain relevant.

Using the Intel IT Enterprise Technical Debt Framework, Intel IT has methodically modernized its enterprise architecture, freeing up resources for investment and enabling more industry-leading innovation. That same framework is now available to you.

The Intel IT framework is your blueprint for strategically designing and deploying a modern, cloud-ready infrastructure. It's your comprehensive guide to managing technical debt and ushering in a new era of digital transformation.

10%

30%

Investment

Run
90%

Run
70%

2016 VS. 2019

*Intel's run/investment ratio of IT budget as of 2018

WHAT ARE THE BENEFITS OF REDUCED TECHNICAL DEBT?

By taking a strategic approach to reducing technical debt, you can improve today's processes and tomorrow's prospects for business expansion — sustainably and on your own terms.

HIGHER EFFICIENCY

Streamlined processes help boost effectiveness and create space in your IT budget for greater investment in innovation

FASTER INNOVATION

Standardized enterprise architecture frees up employees to focus on emerging technologies and drive greater value

GREATER AGILITY

Modern architecture simplifies processes and presents new opportunities to grow and evolve business capabilities

71%
OF IT ORGANIZATIONS[†]
CITE LEGACY INFRASTRUCTURE
AS BIGGEST BARRIER TO BUSINESS TRANSFORMATION

MOVE FORWARD TOGETHER OR FALL BEHIND

IT plays an integral role in achieving business goals in the digital era, which makes collaboration with business decision makers more important and more urgent than ever. By prioritizing key conversations about managing technical debt and clearly defining desired outcomes, you can drive the transformation from traditional operating model to modern enterprise architecture in your business.

COMMUNICATE **COLLABORATE** **TRANSFORM**

† Based on surveyed organizations. ESG 2017, https://www.emc.com/collateral/analyst-reports/esg-dellemc-it-transformation-maturity-report.pdf

THE INTEL IT ENTERPRISE
TECHNICAL DEBT FRAMEWORK

Our comprehensive plan for technical debt management

TECHNICAL DEBT

INTEL IT IDENTIFIED $70 MILLION IN POTENTIAL BENEFITS†

† From initial assessment in 2017

IDENTIFY AND ASSESS

☑ **Establish baseline inventory of applications, systems, and platforms in use**

- Map each app, system, or platform to enterprise architecture — What is the business driver behind each?

☑ **Categorize systems against TIME (Tolerate, Invest, Migrate, Eliminate) model and Pace-Layered application strategy**

☑ **Identify duplicative or overlapping items**

☑ **Identify apps that can be modernized — What can be moved to Cloud or Mobile?**

☑ **Assess costs, benefits, and roadmap alignment**

- Begin to allot the IT budget to align with roadmap and desired business outcomes

☑ **Track business capability trends and pinpoint gaps in technology roadmap**

INTEL IT MARKED 550+
IT APPLICATIONS AND PLATFORMS
EOL IN 2018†

PAY AND REDUCE

- ☑ **Draft technology roadmap aligning with proposed enterprise architecture**
  - Identify any big platform and technology investments

- ☑ **Create a plan for End-of-Life apps and systems misaligned with the architecture**
  - Build a strategy to update, realign, or phase them out

- ☑ **Consolidate to align with enterprise architecture and roadmap**

- ☑ **Modernize legacy apps critical to running the business by moving them to Cloud or Mobile**

† As of November 2018

INTEL ALIGNED
65% OF IT INFRASTRUCTURE TO STANDARD PLATFORMS†

PREVENT

- ☑ **Establish enterprise architecture according to business drivers and IT standard ops**

- ☑ **Integrate architecture practice into app lifecycle management**

- ☑ **Establish standards and guidelines, plus reusable assets and building blocks for enterprise development**

- ☑ **Solidify technology roadmap**

- ☑ **Create governance model based on architecture and capability alignment**

- ☑ **Integrate technical debt management into Agile and DevOps model of continuous refactoring**
  - Make technical debt visible with real-time assessment as part of DevOps model

† As of November 2018

ESTABLISH A CYCLE OF CONTINUOUS IMPROVEMENT

Managing technical debt is an ongoing process and an essential component of good IT hygiene. Refining and aligning to Intel IT enterprise architecture, while maintaining continuous communication with business decision makers, will help ensure that technology and business objectives align. And with routine monitoring and updates, debt can be kept under control, allowing for maximum agility and growth.

START BUILDING ENTERPRISE ARCHITECTURE
FOR A MORE AGILE BUSINESS

Intel® Xeon® Scalable processor provides a foundation for a powerful data center platform with the agility to expand business capabilities and alleviate technical debt. Optimized to support hybrid cloud infrastructures, Intel® Xeon® Scalable processors deliver dynamic performance for high-demand applications while helping maintain data security.

LEARN MORE

Intel® Optane™ DC Persistent Memory technology creates new architecture opportunities and computing possibilities for a variety of markets. This high-throughout, low-latency memory solution is built for today's demanding workloads, eliminating bottlenecks to unleash your processor's full potential. It is truly disruptive memory technology and a strong choice for developing an infrastructure standard.

LEARN MORE

START WITH INTEL