

Two voices, one future End User Computing (EUC) trends for 2024 and beyond



Dr. Benny Tritsch

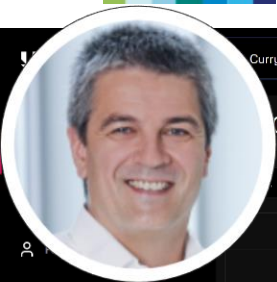
Managing Director
at Dr. Tritsch IT Consulting



Ruben Spruijt

Field CTO at Dizzion





Currywurst and End User Computing: Dr. Tritsch, country, honky tonk, old country,

Create

18/18



Creations



All

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Published

Trees

Track

Show Generation Tree



Ballad of Dr. Tritsch

Currywurst and End User Computing: Dr. Tritsch • Country • Honky tonk

Ruben Spruijt ▶ 0 ♥ 0 13m

0:17

Remix

Extend

Publish



Tech Trails with Dr. Tritsch

Currywurst and End User Computing: Dr. Tritsch • Country • Honky tonk

Ruben Spruijt ▶ 1 ♥ 0 13m

0:32

Remix

Extend

Publish



Tech Campaigner's Ballad

Currywurst and End User Computing: Dr. Tritsch • Country • Honky tonk

Ruben Spruijt ▶ 0 ♥ 0 14m

0:32

Remix

Extend

Publish



Tech Trailblazer

Currywurst and End User Computing: Dr. Tritsch • Country • Honky tonk

Ruben Spruijt ▶ 0 ♥ 0 14m

0:17

Remix

Extend

Publish



The Tritsch Tech Ballad

Currywurst and End User Computing: Dr. Tritsch • Country •

Ruben Spruijt ▶ 2 ♥ 0 20m

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Remix

Extend

Publish



Tech Troubadour

Currywurst and End User Computing: Dr. Tritsch • Country •

Ruben Spruijt ▶ 1 ♥ 0 20m

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Remix

Extend

Publish



20



Previous

Next

AI Music Generator



Tech Trails with Dr. Tritsch

Ruben Spruijt



Play/Pause

0:00

0:32





Dr. Benny Tritsch

Managing Director
at Dr. Tritsch IT Consulting



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Field CTO at Dizzion



SquaredUp



infinity



INTERSTELLAR



kpn
Partner Network



INS PARK



cegeka



Agenda

What the Hex is happening in EUC?

Shift from EUC infrastructure to DEX



SquaredUp



infinity



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INS PARK



cegeka

What the **Hex** is happening
in End User Computing?!

AI w/ new Applications and Services

Simplification - Standardization

Software – as a Service – MSP

Blending Physical and Virtual

Mergers & Acquisitions

Digital Employee Experience

Monoculture & Silo Thinking



ASPHAGETTES COUJERION

CRIMIOUS CREATIONITE

C'TRACK

ADVAMITZENG RAKMUSITE
SERIEGRY CHRISTIEBESRROCKANTILY

ANGIO EPIURFON
MURRINKSS

ROOMS ENDOURION
RINETNSBANTS

AINSIKETT MLIANDORAT

AMTONGCAROU UNITEIORISE
DOFFTHAIOZES

ROZINOCKGDMING
SORKENHIDES

LEINNO CESTEE
CAAMIOEE

BOBORIO MEE SYBONN
MINOMIREN GSEETICONT

MINOOL CASIES
KUTOWBTRERY

SOOWILOLOWASBOM
WHINATCEERTIKANT

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MUMRSTERGADONT

SOMRE COLD
RETONH FISSOBGADOEE
ARIDEETVINKITWICCO

MIGRONOWE
MRENDICUNDER ENAPAO
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End User Computing: A **Complex** Ecosystem

It's not a single product or vendor, and it's not like a
turn-key solution.

End User Computing: A Complex Ecosystem

Just use a **single product or vendor**, and you will get a
turn-key solution.....

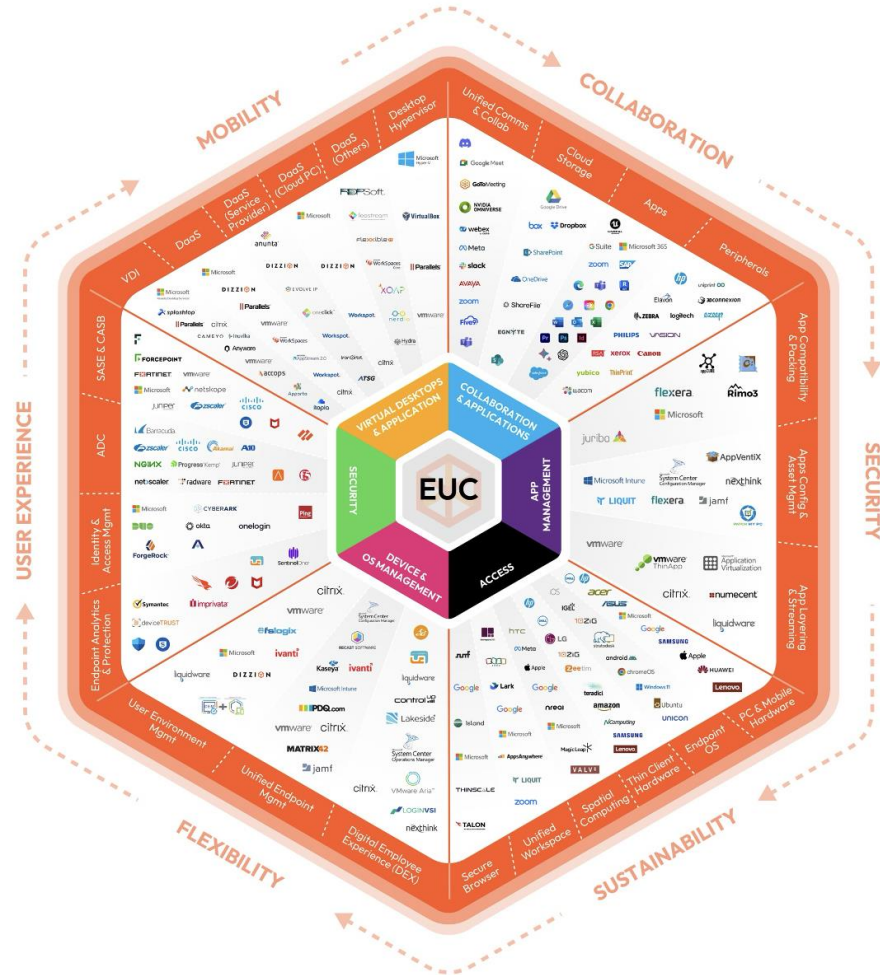
A wide-angle photograph of a large agricultural field. In the center, a red tractor is driving away from the viewer, spraying a fine mist of liquid across the rows of young green plants. The plants are arranged in very straight, parallel lines that recede into the distance. The field is vast and uniform in color and layout. In the far background, a small town or village is visible on the horizon, featuring several buildings and two prominent church spires. The sky is a pale, hazy blue, suggesting an overcast day or early morning light. The overall scene conveys a sense of large-scale, uniform agricultural production.

Monoculture?!

PROS	CONS
<u>Increased productivity</u> and efficiency	Pests Management
Specialized Production	Higher Pesticides Use
Yields Maximization	<u>Soil Degradation</u> And Fertility Loss
<u>Easier To Manage</u>	Higher Use Of Fertilizers
<u>Higher Revenues</u>	Higher Water Use
	<u>Decrease In Biodiversity</u>
	Impact On Pollinators
	<u>Economic Risks</u>
	<u>Environmental Impacts</u> Of Monoculture



Introducing EUC Hexagrid

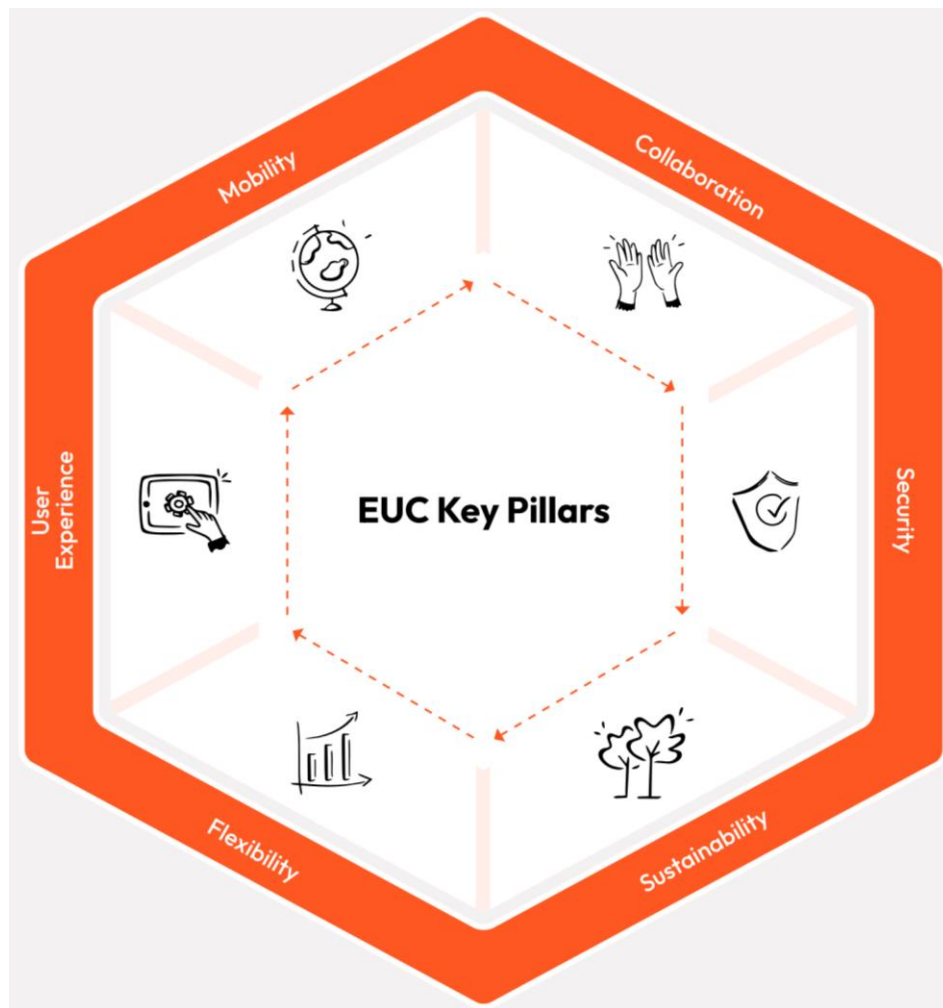


EUC HEXAGRID

6 MAJOR EUC CATEGORIES

24 SUB-CATEGORIES

220+ EUC VENDORS





Why **EUC** Matters

User Productivity

EUC empowers the end user by providing tools tailored to an individual's specific workflow, allowing significant productivity improvements.

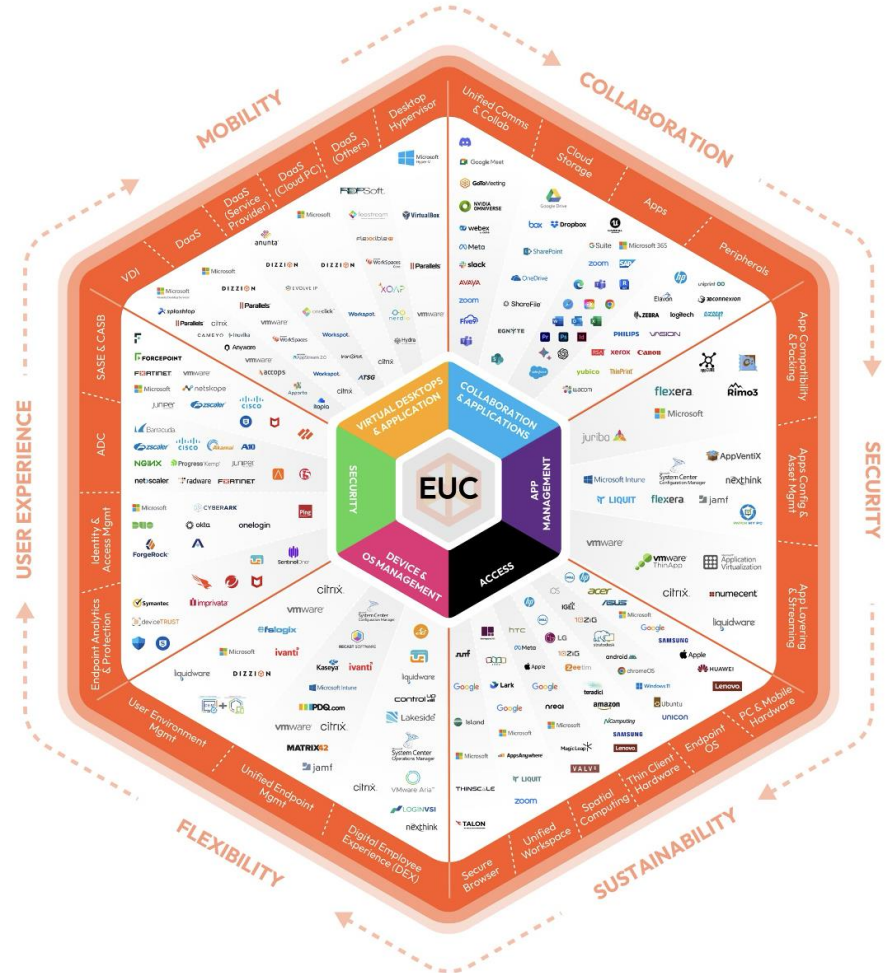
Organizational Agility

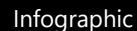
EUC helps organizations stay creative and agile because it lets employees use new tools and technologies easily, helping companies keep up with changes and try new ways of doing things. By making it easier for people to work together and share ideas, EUC helps everyone innovate better. This flexibility is critical for staying ahead in today's fast-moving world, as it allows companies to adjust to new situations and opportunities quickly.

Data and Endpoint Security

Keeping company data safe is harder as more people work from home and use their own devices. EUC solutions help by managing all devices and apps from one place, ensuring security access rules are the same everywhere in the company. This way, it's easier to follow laws about data protection, control who has access to what, and keep track of data use, which lowers the chance of data leaks and keeps critical information safe.




EUC Hexagrid





Explore the Future of EUC




Pillar 1 : Access

Subpillar	PC & Mobile Hardware	Endpoint OS	Thin Client Hardware
Purposes & Benefits	<p>PC and mobile hardware refers to physical devices like desktop computers, laptops, smartphones, and tablets that end-users use for work and personal tasks. These devices are essential for accessing local and remote applications, data, and services, enabling users to <i>get work done</i>. The hardware choice depends on the user's needs, whether for more powerful processing, portability, or convenient access on the go, reflecting the diverse ways technology supports our daily activities.</p>	<p>Endpoint operating system (OS) is the software that runs on and manages the hardware of a PC, mobile, Thin Client, and spatial computer. It acts as a bridge between the physical device and the applications you use, allowing those apps to run and perform tasks. Endpoint OS ensures smooth execution of applications and computing tasks with intuitive user interfaces, seamless integration with productivity apps, and platform-agnostic capabilities, enhancing user experience, security, and management.</p>	<p>Thin Client hardware provides a stripped-down computing environment that reduces hardware maintenance and enhances data security through centralized resource management. It is a lightweight computer that is designed to connect to a 'virtual desktops and application' solution and run Software as a Service and web applications using a locally installed browser. Thin clients often are cost-effective, energy-efficient, and easier to manage than traditional PCs.</p>
Main Vendors			

Note: Logo placements do not reflect rankings in any way

Explore the Future of EUC

Pillar 1 : Access

Subpillar	Spatial Computing (AR/VR/MR)	Unified Workspace	Enterprise Browser
Purposes & Benefits	<p>Spatial computing includes augmented-, virtual-, and mixed realities and offers immersive experiences to end-users and revolutionizes access beyond screens, transforming access in the virtual world. Spatial computing transforms how we work, learn, collaborate, and interact with other people, applications and information, making it more immersive and intuitive.</p>	<p>A unified workspace aggregates and integrates information, services, and applications into a single easy to use interface.</p> <p>This allows end-users to access everything they need to work effectively from any device, anywhere. It simplifies the user experience, enhances productivity, and supports flexibility by providing a single point of access to all work resources, making it easier to manage and switch between tasks.</p>	<p>An enterprise browser is a web browser running on the endpoint PC designed specifically for business use, with enhanced security features to protect sensitive information and provide secure and controlled access to Web, SaaS, and virtual applications and desktops. It helps companies safely access the internet and cloud applications by managing user access, blocking malicious websites, and ensuring data privacy. This type of browser is built to comply with corporate security policies and provides tools for monitoring and controlling usage, making it a safer choice for accessing work-related resources online.</p>
Main Vendors			

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Explore the **Future** of EUC

Pillar 1 : Access

Question:

What are developments in **Access?**

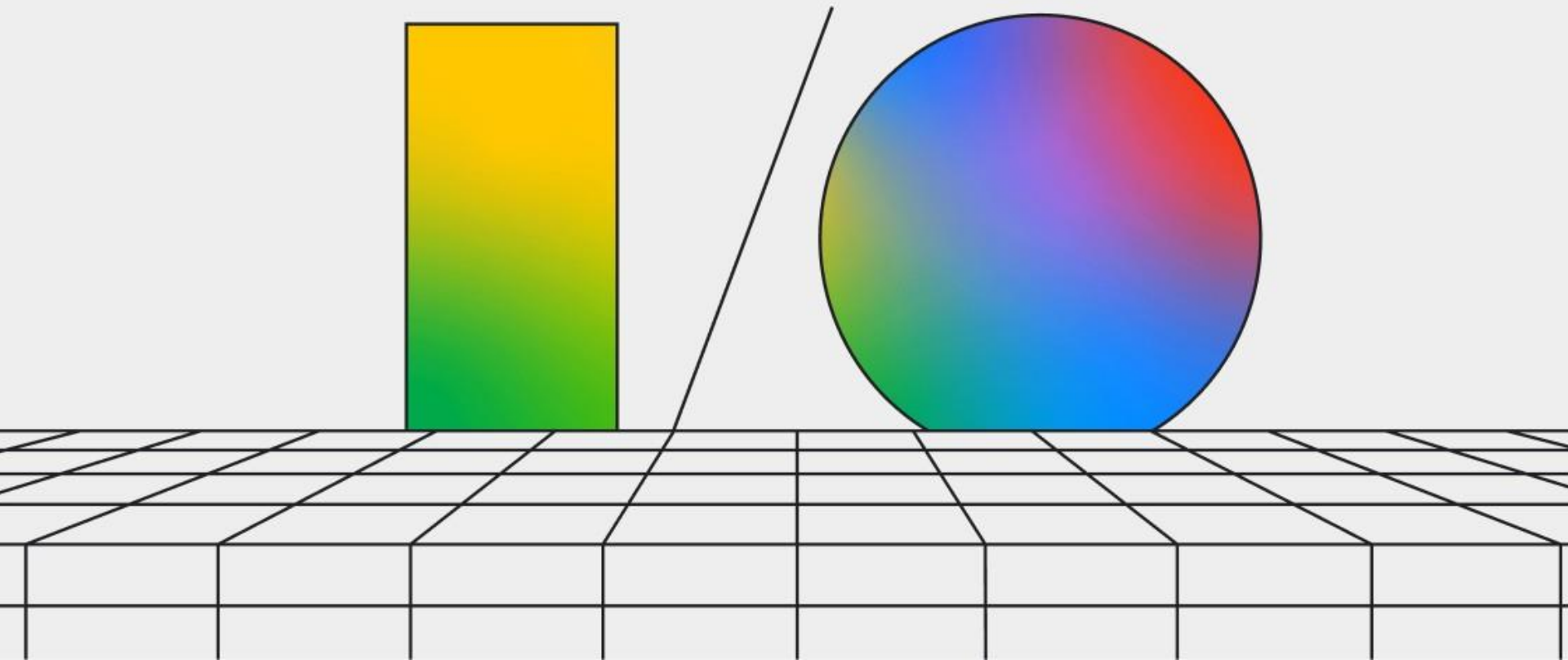
- AI as a companion (CPU/NPU/GPU)
 - Private AI & inferencing at the edge
 - ThinClient & Chrome OS – SaaS, Digital signage, Factory
 - Spatial Computing
 - Unified Workspace
 - Secure (local) Enterprise Browser – Remote Browser
- Isolation is VDI/DaaS

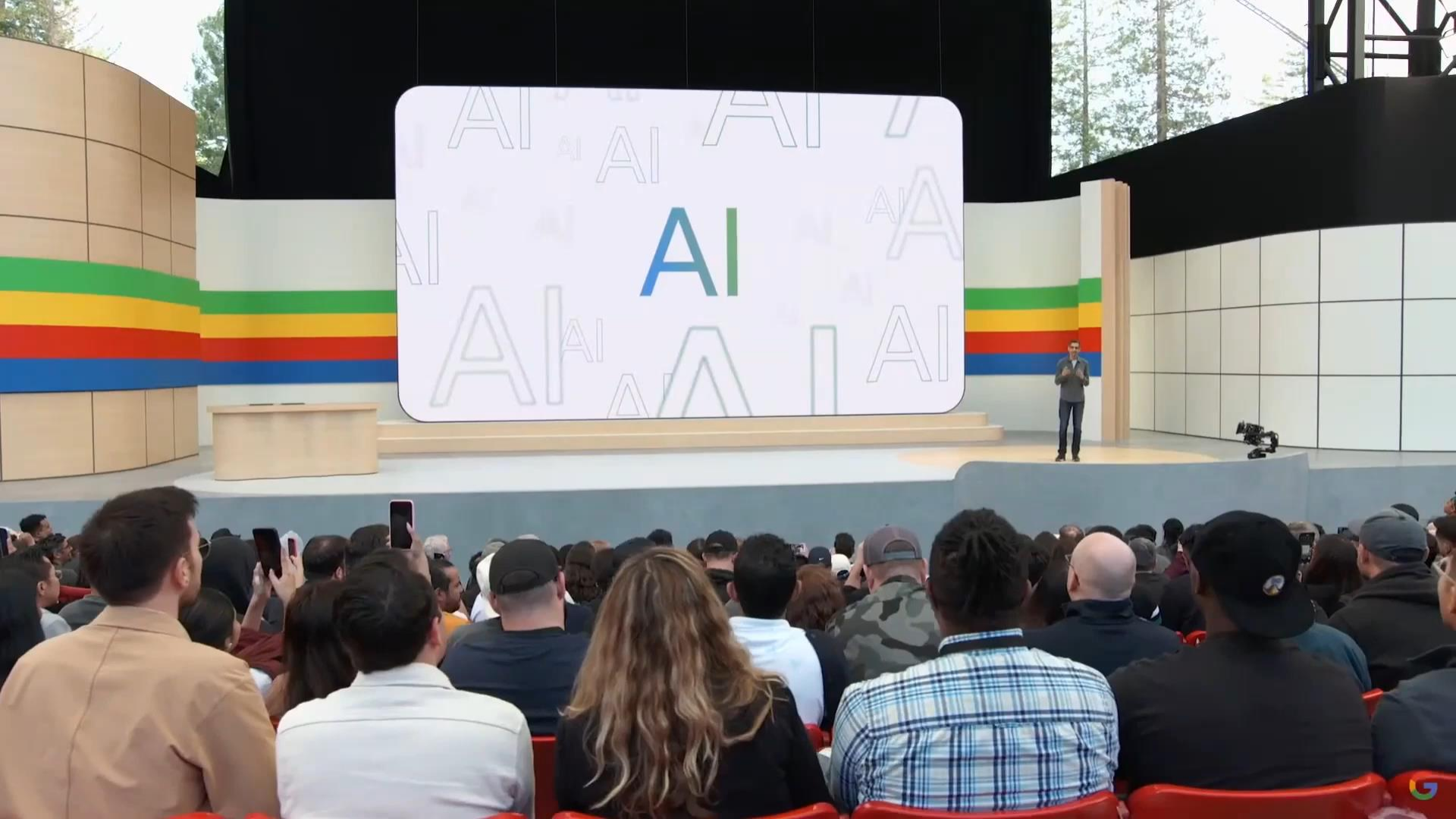
Talking about AI ...





Google ■/●



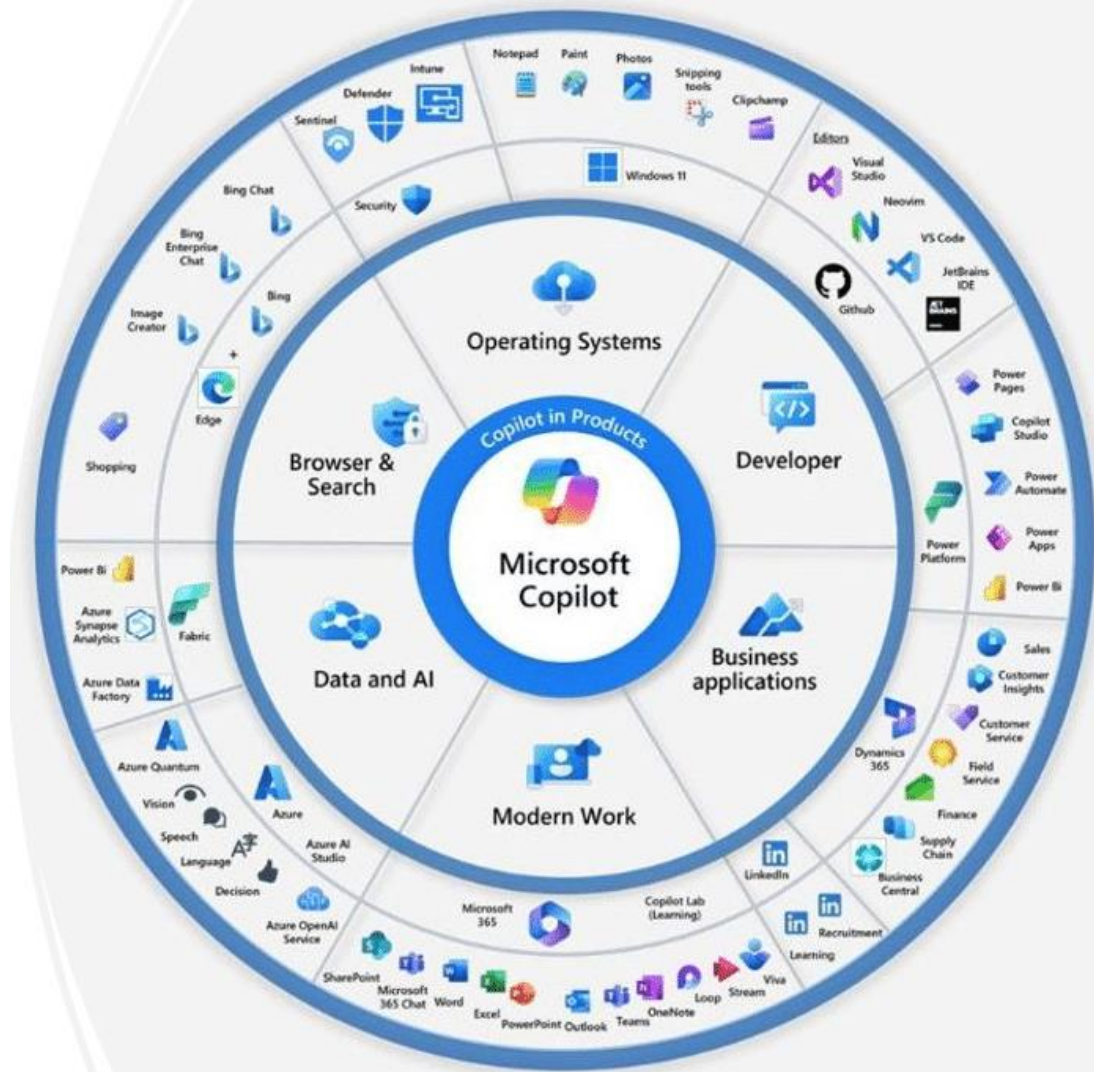




Microsoft BUILD 2024 summarized

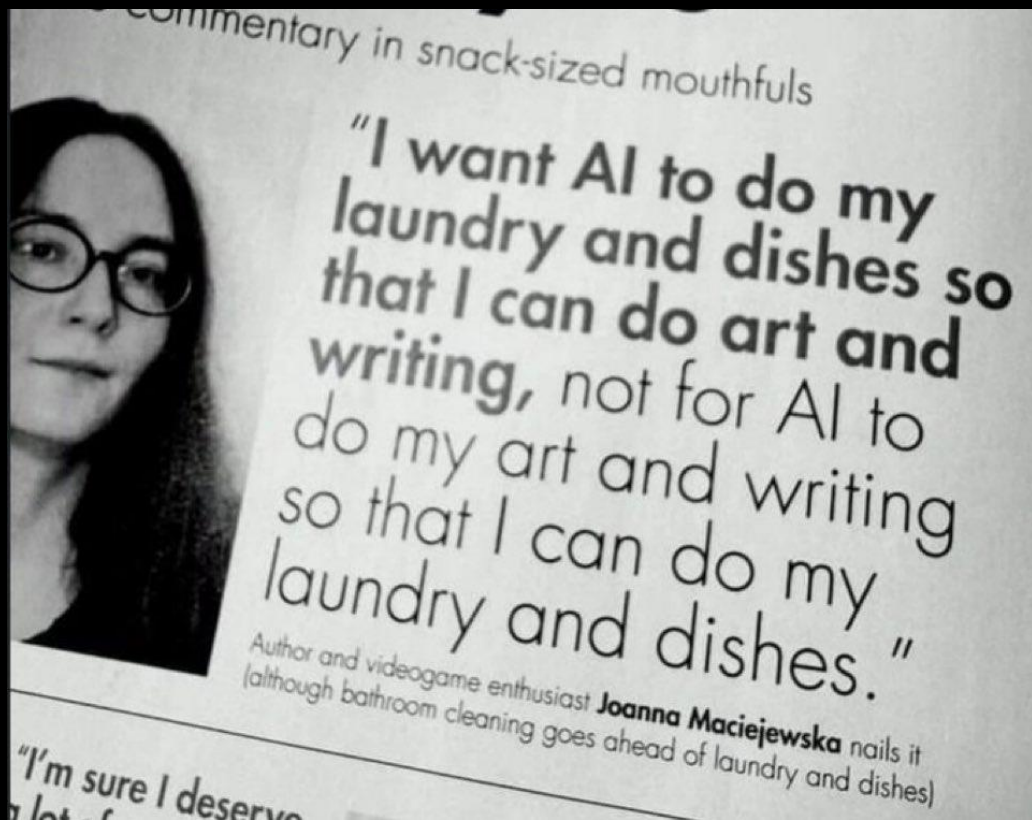
Microsoft BUILD 2024 summarized





Software ate the world.

Let's hope AI eats the work we rather not do.




















WITH GREAT
POWER
COMES GREAT
RESPONSIBILITY

Explore the **Future** of EUC




Pillar 2 : Virtual Desktop and Applications

Subpillar	VDI (Virtual Desktop Infrastructure)	DaaS (Desktop as a Service)	DaaS (Service Provider)
Purposes & Benefits	<p>Virtual desktop infrastructure (VDI) is a software that is designed, installed, configured, and managed by IT departments or a managed services provider and provides end-users access to (mostly) remote Windows desktops and applications. These desktops and applications are running within virtual machines, mostly running in a datacenter or datacenters. The remoting protocol 'streams' pixels to end-user endpoint devices, so users can use virtual desktops and applications from anywhere and on any device, provided there is a decent network connection.</p>	<p>Desktop as a Service (DaaS) is a service that provides end-users access to remote virtual desktops and applications via virtual machines running in the cloud, on-premises, or both, accessed through a remote display protocol. This means users can access their virtual desktops and applications from any device, anywhere, without being tied to a single physical computer.</p> <p>DaaS is a public cloud service that is architected, developed, and operated as a service. Organizations can use DaaS either as a ready-to-use service or use the 'DaaS control plane' as a platform, requiring client-led setup, configuration, and management of the workload virtual machines. The workload VMs can run in the cloud, on-premises, or both depend on the DaaS provider. The pricing model for DaaS typically involves subscription or pay-per-use schemes.</p>	<p>A DaaS service provider is a company that offers Desktop-as-a-Service solutions, handling the back-end responsibilities associated with data storage, backup, security, and upgrades. Outsourcing to a DaaS provider allows businesses to offload technical burdens, reduce internal IT workloads, and focus on core business activities.</p>
Main Vendors	 Microsoft  VMware  Parallels  Citrix	 DIZZION  Citrix  AWS  Microsoft  VMware  Workspot	 anunta  ATSG  Workspot  DIZZION  EVOLVE IP

Note: Loao placements do not reflect rankinas in anv wav

Explore the **Future** of EUC

Pillar 2 : Virtual Desktop and Applications

Subpillar	DaaS (Cloud PC)	DaaS (Others)	Desktop Hypervisor
Purposes & Benefits	Cloud PC refers to a modern approach where the personal computer experience is delivered from the cloud, accessible from multiple devices. Cloud PC solutions provide a flexible and efficient computing environment that supports a remote and mobile workforce with consistent access to their desktops.	DaaS (Others) are software tools or platforms that enable the automation, orchestration, deployment, management, and optimization of Desktop as a Service solutions. These tools simplify IT management, allowing administrators to configure, manage, monitor and run Desktop as a Service. Often, DaaS tools fill gaps in the DaaS solution.	A desktop hypervisor is a software that allows multiple desktop operating systems to run on a single machine (the host) by creating and managing virtual machines. This enables developers, testers, and power users to run multiple operating systems or versions concurrently, aiding in testing and development scenarios.
Main Vendors	 Microsoft  Citrix  Workspot  DIZZION	 WorkSpaces Core  leostream  nerdio	 Microsoft  VMware  ORACLE  Parallels

Note: Logo placements do not reflect rankings in any way



Explore the **Future** of EUC

Pillar 2 : Virtual Desktop and Applications

Question:

What are developments in

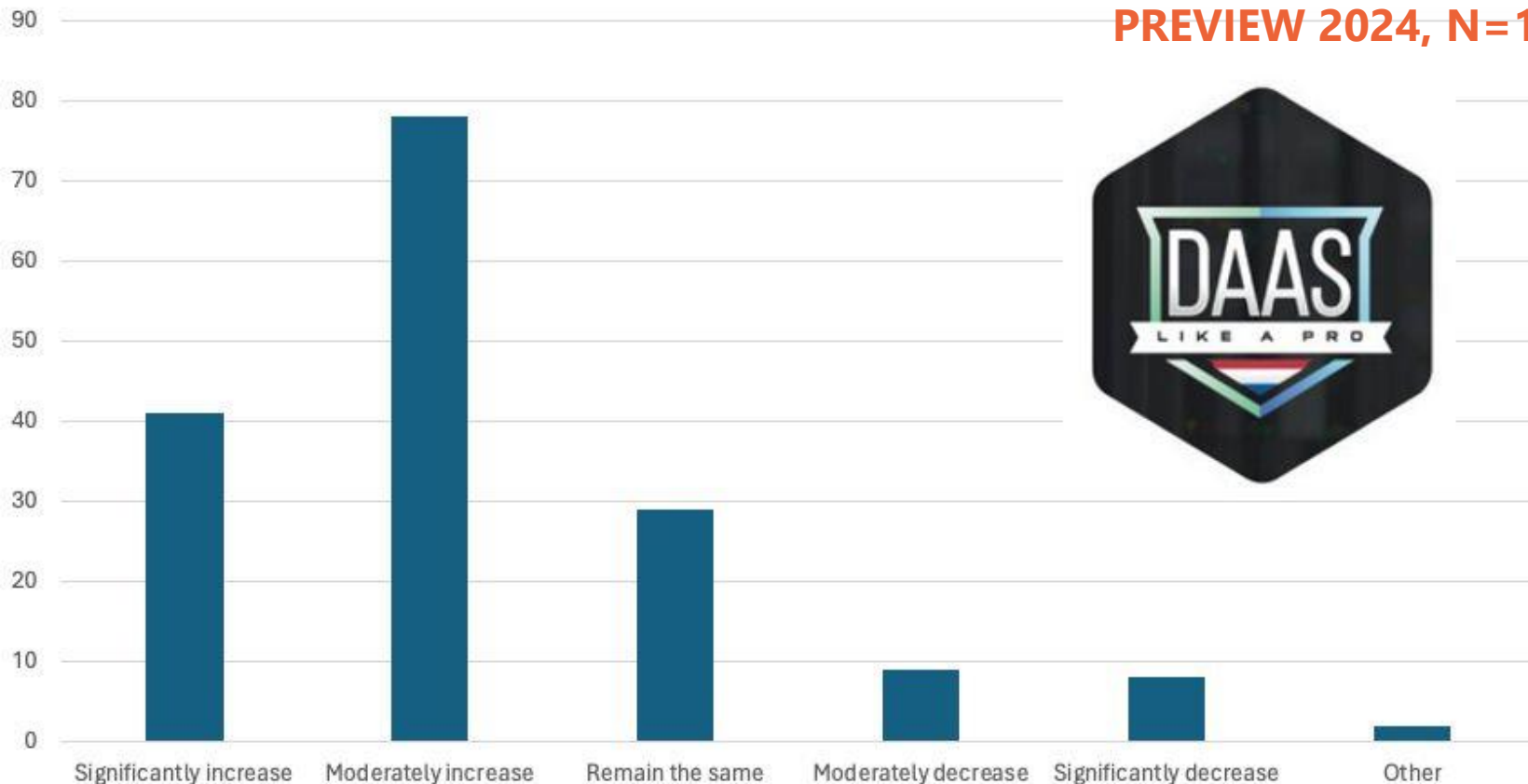
Virtual Desktop and Applications?

- Citrix, Broadcom/VMware, Omnisia
- VDI > DaaS 'vendor assembled/managed'
- Complexity <> Services & MSP
- Desktop <> App
- DaaS Tools

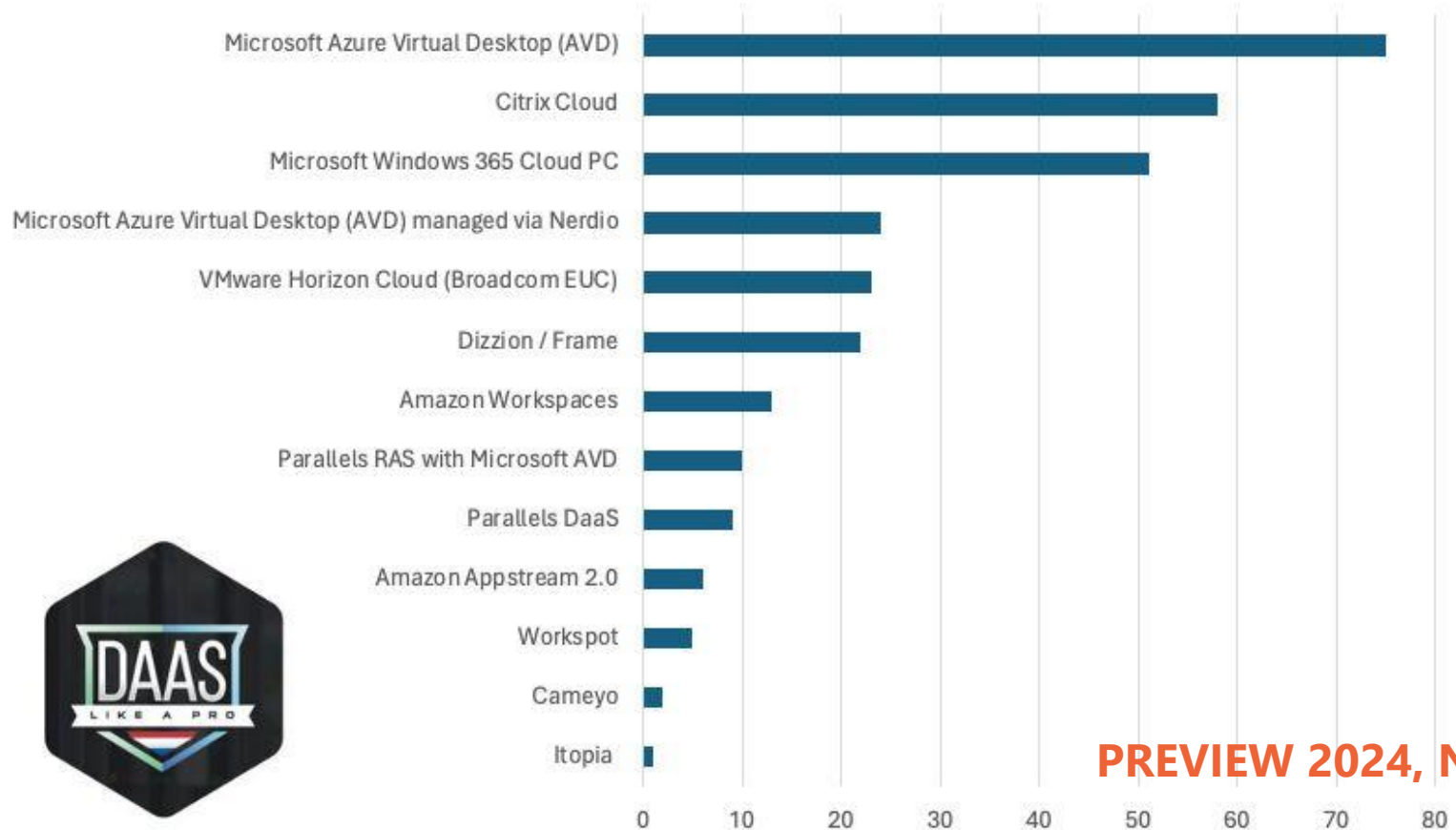


Over the next 1 to 3 years, how do you anticipate your organization's **usage** of Desktop as a Service (**DaaS**) will **change**?

PREVIEW 2024, N=140



Which **DaaS** solution(s) are you using or will you introduce?



PREVIEW 2024, N=140



www.DaaSLikeaPro.com

Survey close = June 10th







#DAASLIKEAPRO

Passionate about End User Computing, VDI, DaaS and Cloud PC

2024-2025 SURVEY NOW OPEN!

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Pillar 3 : Device and Operation System Management

Subpillar	Digital Employee Experience (DEX)	Unified Endpoint Management	User Environment Management
Purposes & Benefits	<p>Digital employee experience provides insights on how end-users perceive application and workspace performance. A good digital employee experience helps employees be more productive and satisfied with their jobs, as it minimizes frustrations related to technology and enables them to focus more on their actual work tasks.</p> <p>DEX monitors and provides operation insights to IT on how users interact and use the applications, physical and virtual environments, network, infrastructure, and cloud services.</p> <p>DEX is the transformation from IT-centric monitoring to user-centric measuring, analytics, and monitoring their perceived performance. With DEX, it is possible to predict the problem before IT (and the end-user) sees it, leading to increased productivity and satisfaction.</p>	<p>Unified endpoint management is software or service that IT teams use to manage endpoints from a single platform and interface. This makes it easier to deploy software, enforce security policies, and update systems. It reduces the complexity and costs of managing various devices, including PCs & mobile devices, spatial computing, and Internet of Things (IoT), while enhancing its security posture with the ability to remotely wipe data from lost or stolen devices and enforce security policies, like password protection and encryption.</p>	<p>User environment management is a Windows software that allows IT administrators to manage the users Workspace. These solutions are capable to manage, secure, containerize, and personalize Windows operating systems and application settings across physical and virtual desktops and applications. It helps deliver a consistent user experience, no matter where or how they access their desktops and applications.</p>
Main Vendors	  controlUP nextthink	  vmware Microsoft Intune	  vmware liquidware citrix

Note: Logo placements do not reflect rankings in any way



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Pillar 3 : Device and Operation System Management

Question:

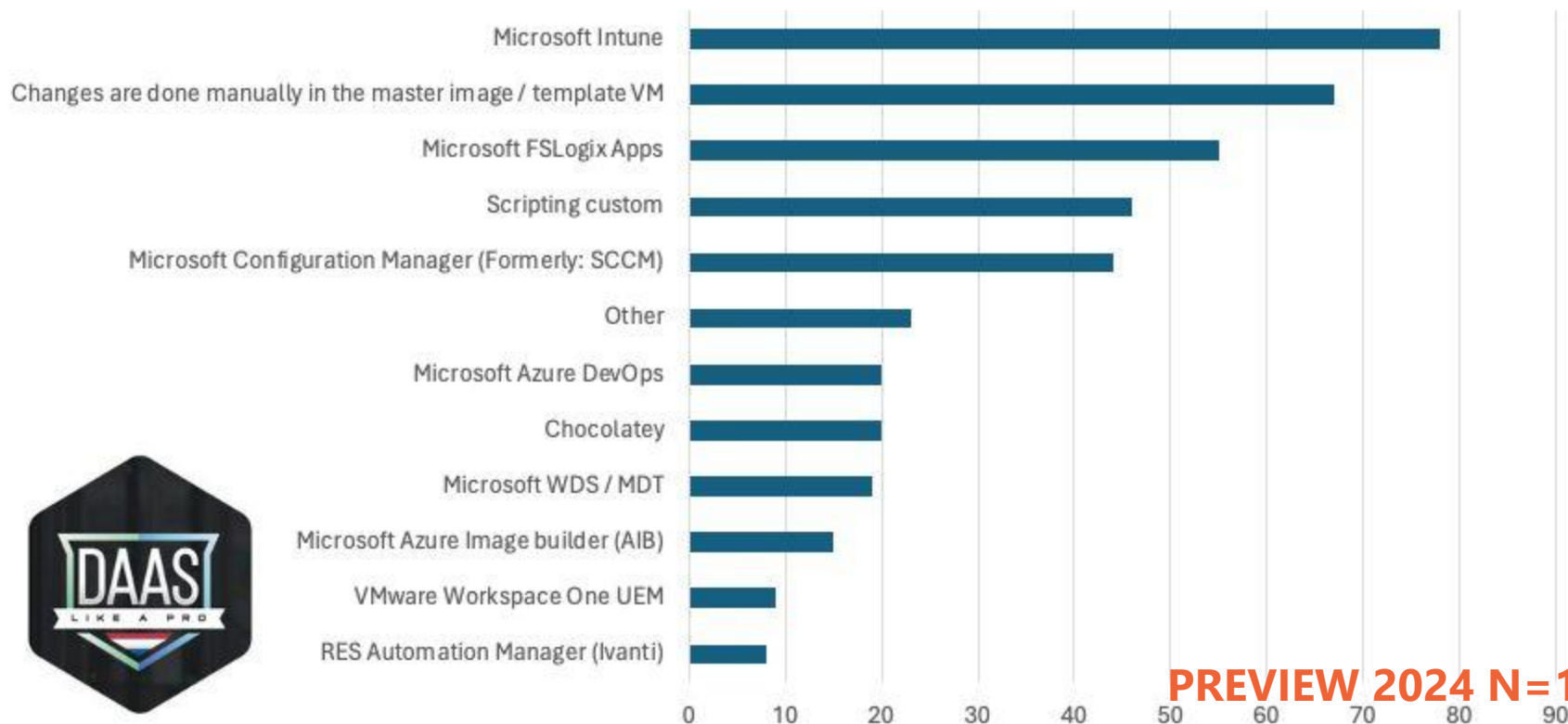
What are developments in **Device and Operation System & User Management?**

- DEX is on fire
- Unified Endpoint Management
- Unified Environment Management







In your organization, what tools do you use to **install** and **manage** the Windows **Operating System** and associated **applications**?



PREVIEW 2024 N=140

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Pillar 4 : Security

Subpillar	Endpoint Analytics and Protection	Identity and Access Management (IAM)
Purposes & Benefits	<p>Endpoint analytics and protection is all about keeping business physical devices and virtual environments healthy and secure, supporting a productive, efficient, and safe digital workplace. It involves analyzing data from PC & mobile devices and virtual desktop and applications to understand how they are being used, if they are up-to-date from a software perspective, and identifying any issues that might affect user productivity and overall security risks.</p> <p>It also includes software or services that focuses on securing devices from malware, viruses, and cyberattacks ensuring that devices comply with regulatory standards and internal policies by enforcing security measures and monitoring device usage.</p>	<p>IAM is used to manage and secure who has access to the various applications and services within an organization. It ensures that the right people (identity) can access the applications, services, and data they need (access) to do their jobs, and prevents unauthorized users from getting in.</p>
Main Vendors		

Note: Logo placements do not reflect rankings in any way

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Pillar 4 : Security

Subpillar	Application Delivery Controller (ADC)	Secure Access Service Edge (SASE) and Cloud Access Security Broker (CASB)
Purposes & Benefits	<p>An application delivery controller (ADC) in end-user computing is a network access device that helps manage client connections to web applications and services.</p> <p>It is a crucial component in modern data centers and cloud computing environments. ADCs optimise web and SaaS applications' performance, security, and reliability.</p>	<p>Secure access service edge (SASE) brings together converged network and security services like SD-WAN, SWG, CASB, NGFW, and ZTNA, providing support for branch offices, remote workers, and on-premises needs.</p> <p>SASE is a service that focuses on zero trust access, tied to device or entity identity, real-time context, as well as security and compliance policies.</p> <p>Cloud access security brokers (CASBs) act as security policy enforcement points in an on-premises or cloud-based environment. They are positioned between cloud service consumers and providers to enforce enterprise security policies when cloud-based resources are accessed. CASBs combine various security policy enforcement measures.</p>
Main Vendors	   Progress  Kemp 	     

Note: Logo placements do not reflect rankings in any way

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Pillar 5 : Application Readiness, Compatibility and Management

Subpillar	App Compatibility and Packaging	App Configuration and Assets Management	App Layering and Streaming
Purposes & Benefits	<p>Application compatibility, readiness, and packaging ensure that Windows applications are not only able to run on the physical and virtual desktop and application environments, but are also secure, compliant with organizational policies, and packaged in a way that simplifies deployment and management. This is essential in EUC environments where a diverse array of devices and operating systems are in use, and where ensuring a consistent and efficient user experience across all applications is key to productivity.</p>	<p>Application configuration and asset management are two important solutions for optimizing the use of applications and managing the physical PC and mobile device and virtual desktops and applications within an organization.</p> <p>Application configuration is setting up applications according to specific requirements and preferences to ensure they work effectively for end-users. It includes customizing OS and applications settings, defining user permissions, integrating apps with other systems, and ensuring the applications meet security standards.</p> <p>Assets management refers to the process and software capable of tracking and managing all the end-user computing assets of an organization, which can include physical hardware (like PCs & mobile devices), applications (such as licenses and subscriptions), and digital assets (data, intellectual property, etc.).</p>	<p>Application layering, isolation, and streaming are techniques used to containerize, manage, and deliver Windows applications to a user's physical and virtual desktop and applications in a flexible, efficient manner. It involves separating Windows applications from the underlying operating system on which they run. The Windows application is packaged into a "container or layer" that can be attached or streamed on-demand to an operating system, without needing to be installed in the traditional sense.</p> <p>Application layering, isolation, and streaming offer benefits in terms of flexibility, efficiency, and manageability of Windows applications within an organization, particularly in environments where there are many users with diverse application needs and configurations, such as virtual desktop infrastructures (VDI), Desktop as a Service (DaaS), or Bring Your Own Device scenarios. These solutions can help reduce IT complexity and lower costs associated with application deployment and maintenance.</p>
Main Vendors	 Microsoft  flexera  Rimo3	 System Center Configuration Manager  Microsoft Intune  LIQUI  nexthink	 numecent  citrix  Microsoft  liquidware  vmware

Note: Logo placements do not reflect rankings in any way

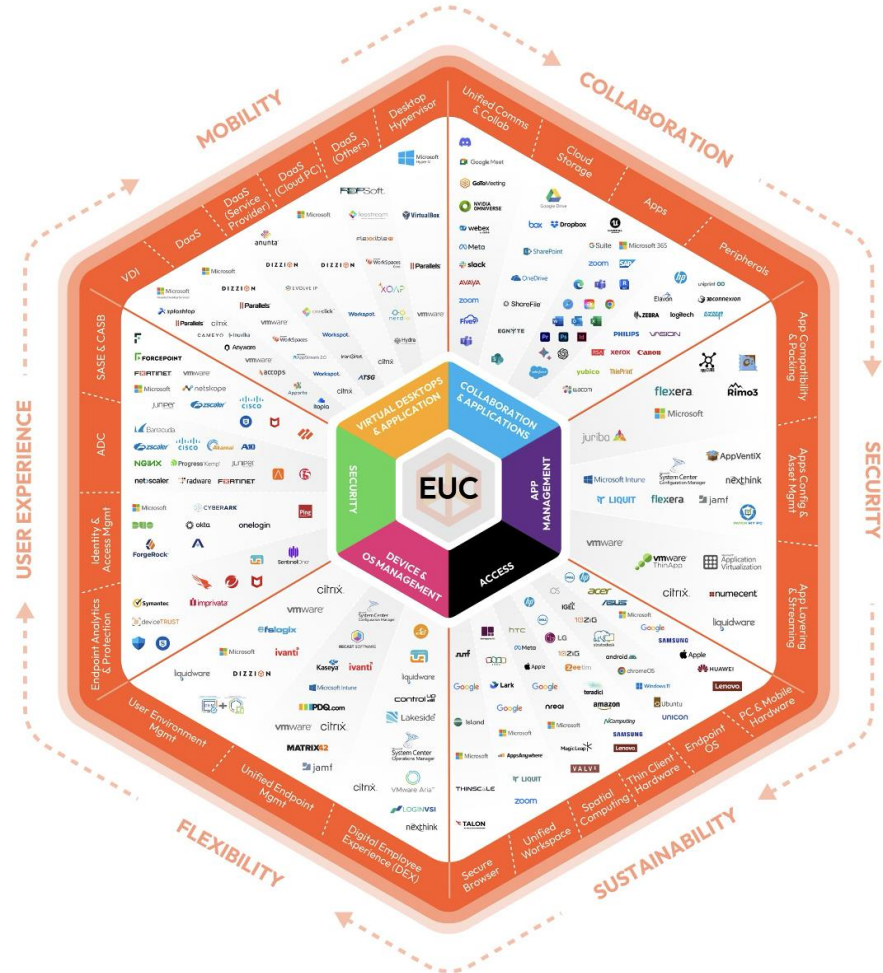
Explore the **Future** of EUC

Pillar 6 : Collaboration and Applications

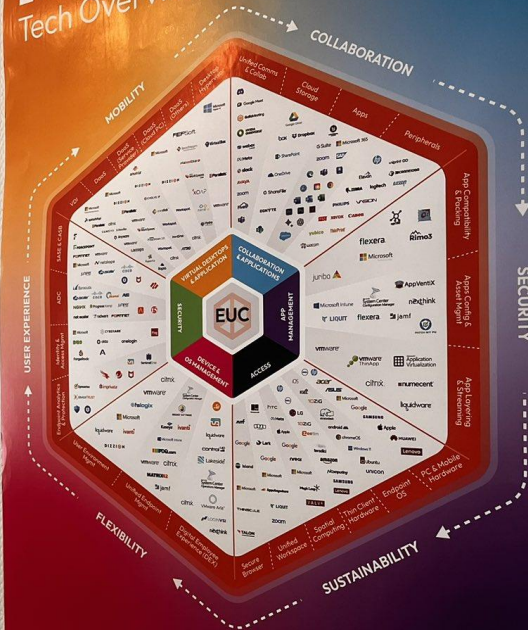
Subpillar	Cloud Storage	Apps	Peripherals	Unified Comms & Collab
Purposes & Benefits	Cloud storage provides a centralized online space where users can store, access, and share data in the cloud rather than using their local computer's hard drive or an organization's on-premises servers. This enables end-users to access their files from any device, anywhere, facilitating collaboration and remote work. Cloud storage elevates data protection through redundancy and backup capabilities, ensuring data is safe from hardware failures and is easily recoverable.	Applications are the tools, services, and software that enable end-users to work effectively, perform specific tasks and functions directly related to their roles and responsibilities within an organization.	Peripherals are external devices that connect to PCs and virtual desktop and application environments to extend their capabilities or provide additional functionalities. These can include devices like printers, smartcards, specialized keyboards, mice, and scanners for data entry.	Unified communication and collaboration solutions encompass voice and video calling, messaging, email, file sharing, real-time collaborative and unified workspaces, allowing employees to communicate and collaborate seamlessly, regardless of their location or the device they use. These solutions ensure that information flows smoothly across the organization, enabling teams to communicate and work more efficiently and effectively together.
Main Vendors	 Drive  Dropbox  box  OneDrive	 Adobe  Office  Suite  SAP  zoom  AUTODESK	 hp  wacom  ZEBRA  VISION  logitech	  zoom  NVIDIA OMNIVERSE  AVAYA  slack

Note: Logo placements do not reflect rankings in any way

What the **Hex** is EUC



EUC Hexagrid Tech Overview



Explore the EUC Landscape with the
Dizicon #EUCHexagrid. Discover more
at dizicon.com and for further inquiries,
email us at info@dizicon.com.

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Exclusive Whitepaper

What the Hex is EUC?

A Detailed Overview of the End-User Computing Ecosystem



Follow Along!



Whitepaper



Infographic

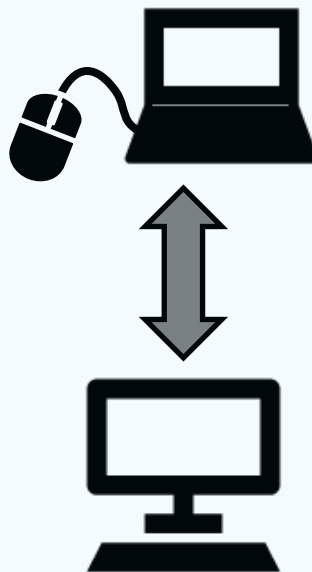
From Infrastructure to DEX



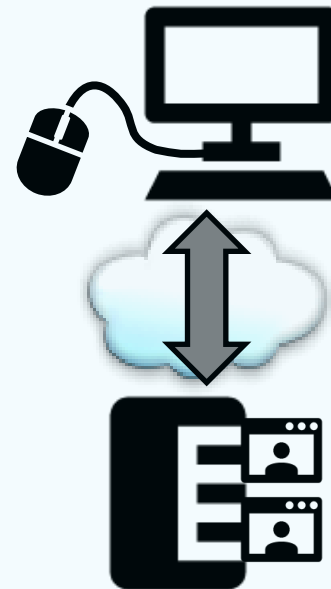
On-Prem Windows

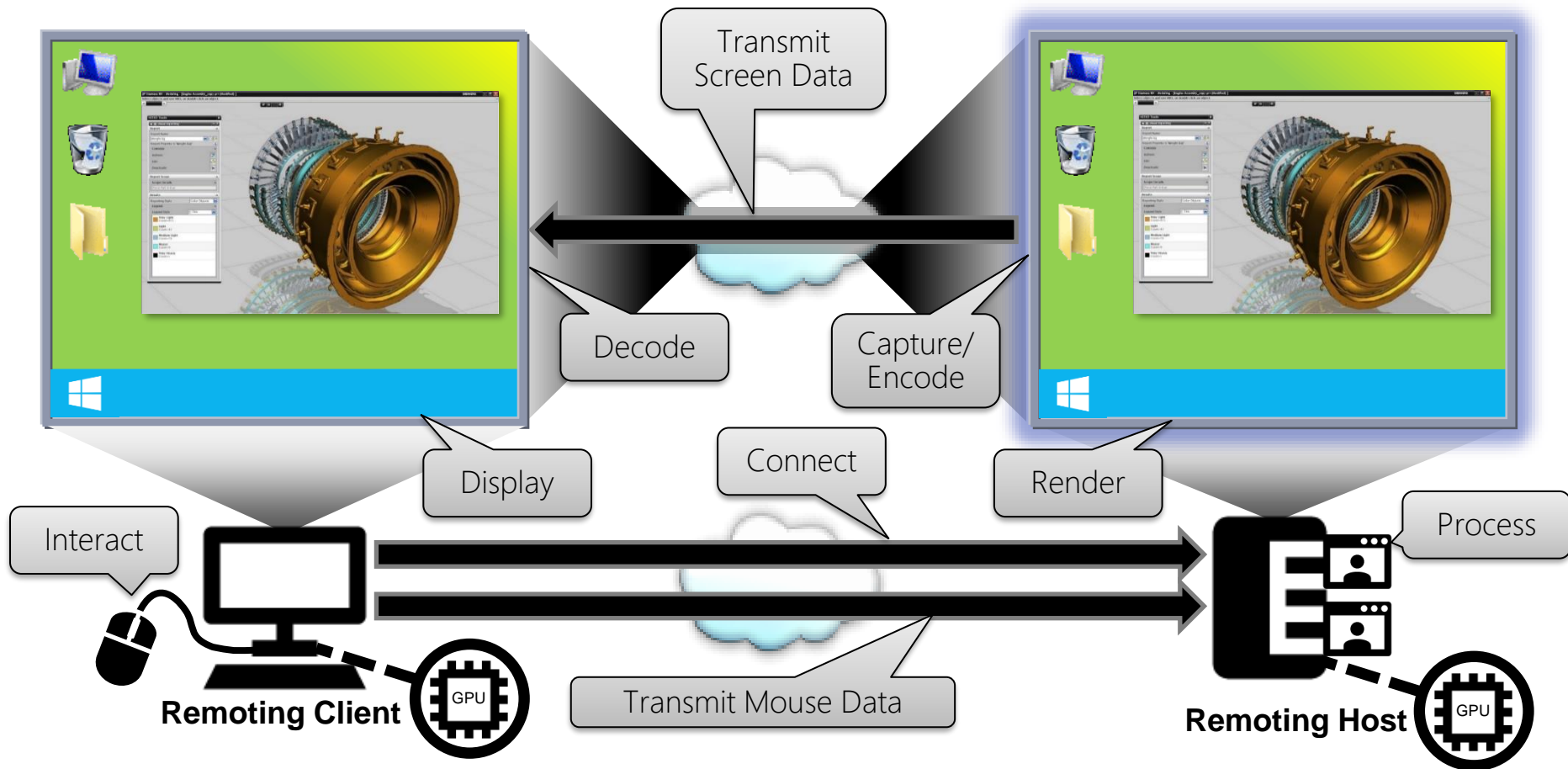


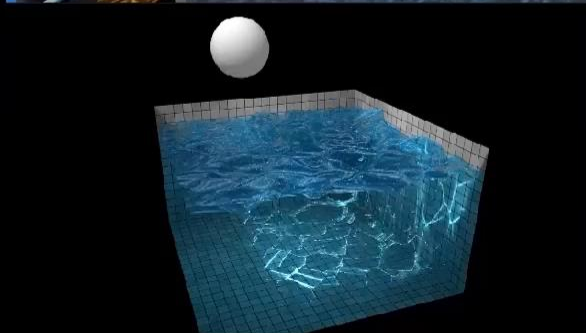
VDI / RDSH on LAN



AVD / Win365

















558

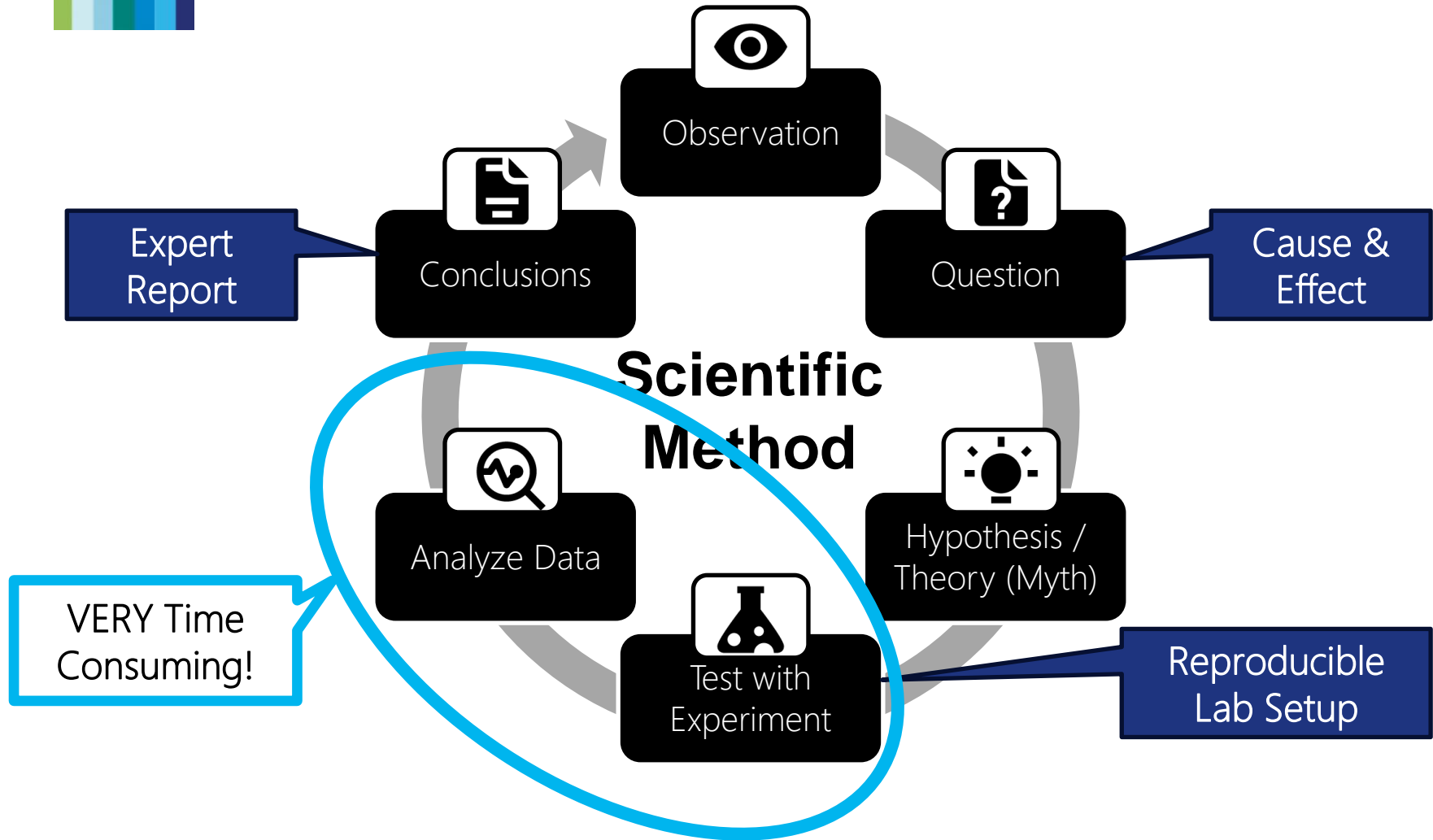
EUC

Score



Windows Desktop Quality Criteria

	Boot and logon duration	Measure boot time + logon time + user session load time until it is ready for user interaction. This includes identity management and authentication methods.
	Application and content load time	Measure time from user starting an application until the content appears and the application is ready for user input, including access to the storage system.
	User input delay ("Lag")	Measures responsiveness of graphical elements after user-initiated triggers = "time from mouse click to screen update" (lag, latency, system response time).
	Graphics APIs supported	Detect incompatibilities when running graphics applications using the DirectX, OpenGL, Vulkan and WebGL APIs.
	Media formats supported	Detect incompatibilities when opening media files, such as MP4, MPEG, MOV, WMV or AVI.
	Distortion of media	Measure media and screen output quality. Detect image, animation, and audio/video compression and decompression artifacts and anomalies.
	Screen refresh rate	Measure the number of times per second that the desktop or application can draw consecutive images on the screen and in the host frame buffer (frames per sec = fps).
	Endpoint specs and quality	Determine the screens' number of pixels, density, and visual dimensions – frame buffer requirements grow with resolution and screen number. Detect periphery incompatibilities.
	Application reliability and stability	Detect application hangs, freezes, crashes or unhandled exceptions. Measure consistency, dependability and robustness of applications.
	Session consistency and resilience	Check if user state is preserved across subsequent sessions. Measure session disruptions, hangs, disconnects/reconnects, availability, timeouts and redundancy.



User Experience Benchmarking

EUC Score

Community Toolset



Simulated
Workloads



Telemetry
Data



User
Activities



Screen
Recording



SquaredUp



infinity



INTERSTELLAR



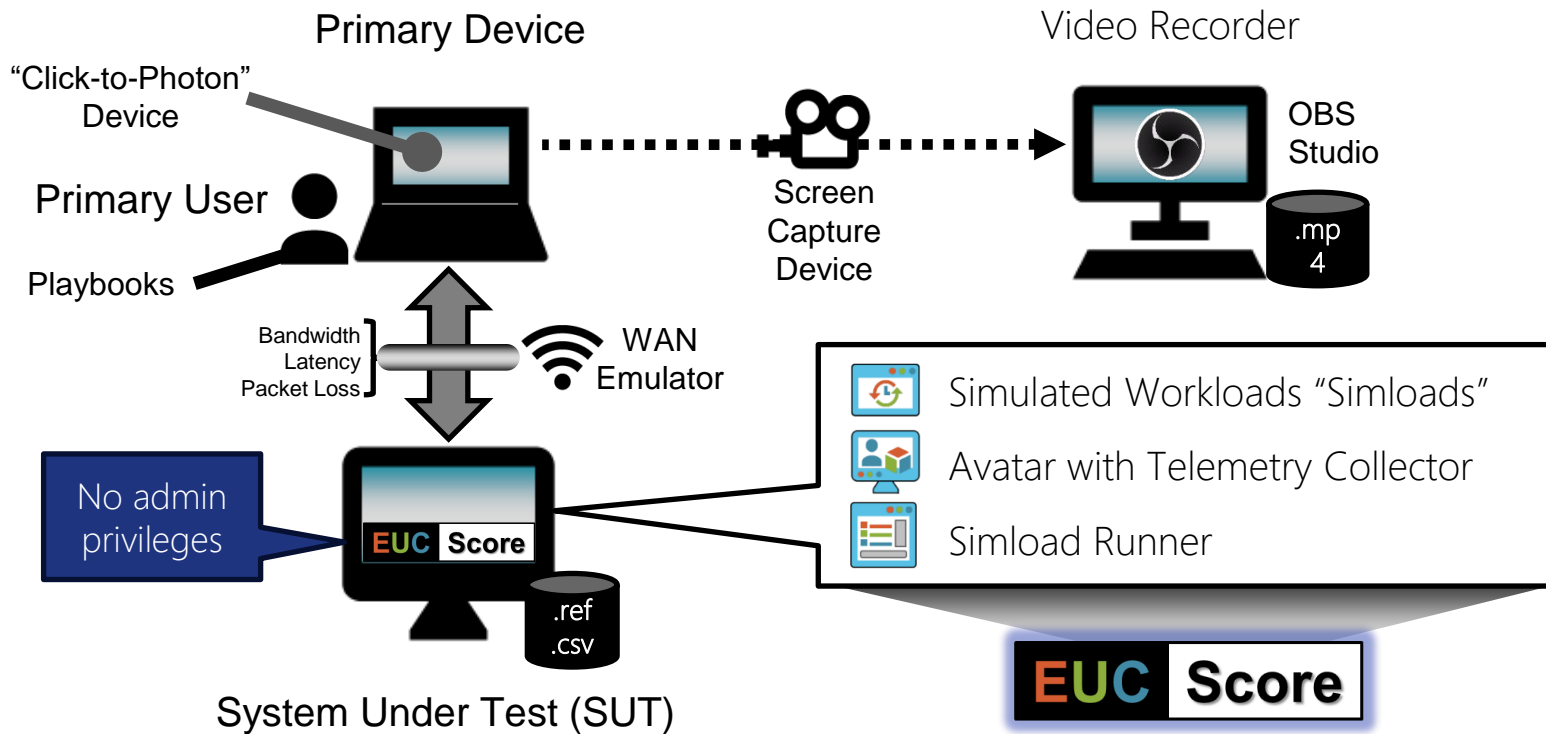
kpn
Partner Network



INS PARK

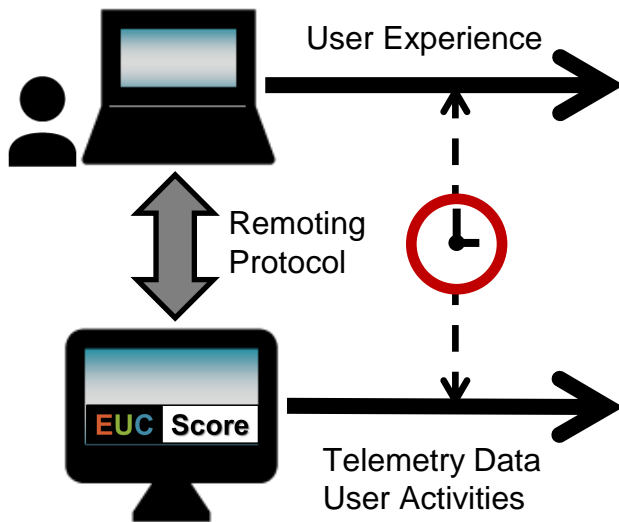


cegeka



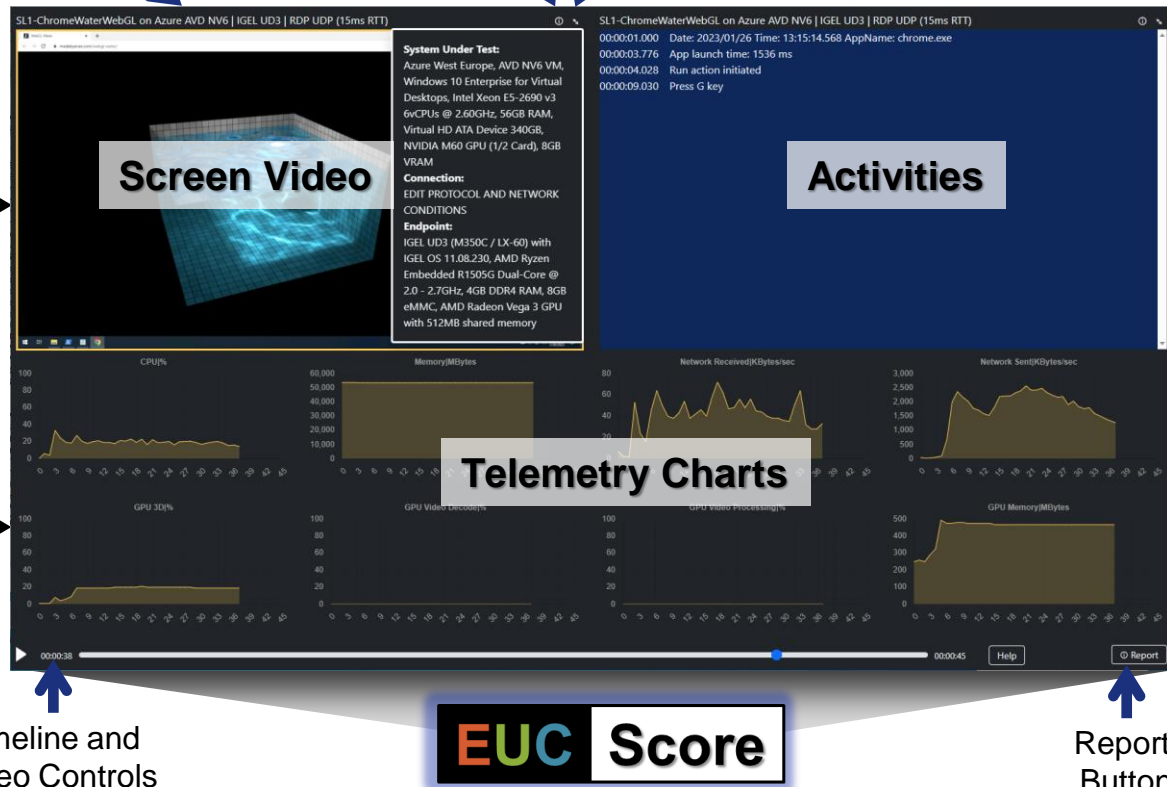
Visual Data Analytics – Sync Player

Primary User Endpoint

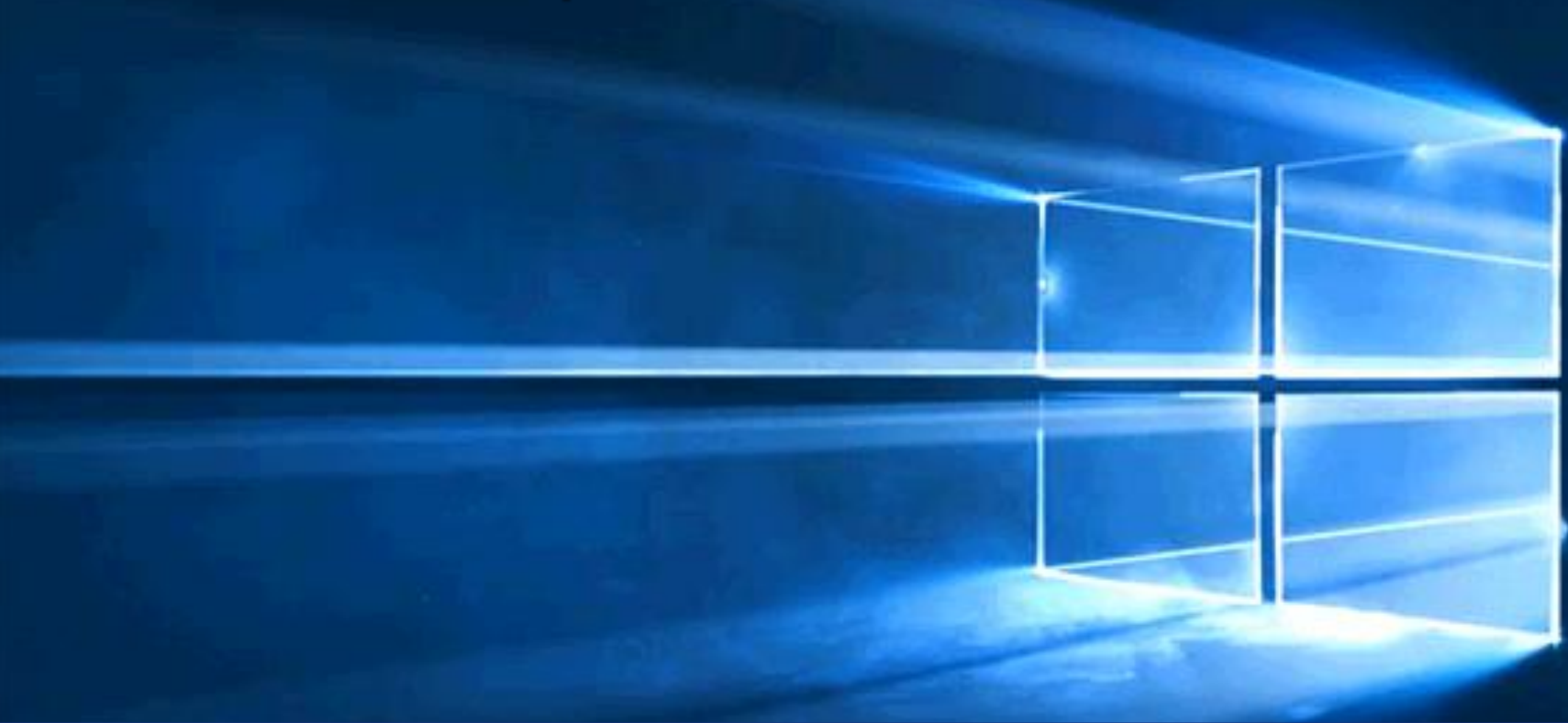


System Under Test

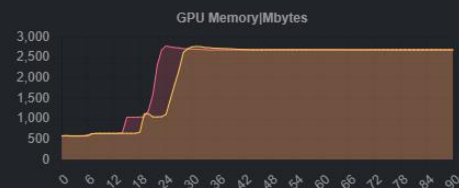
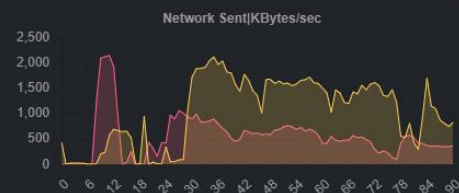
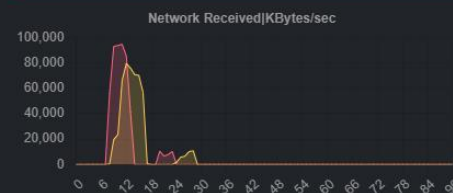
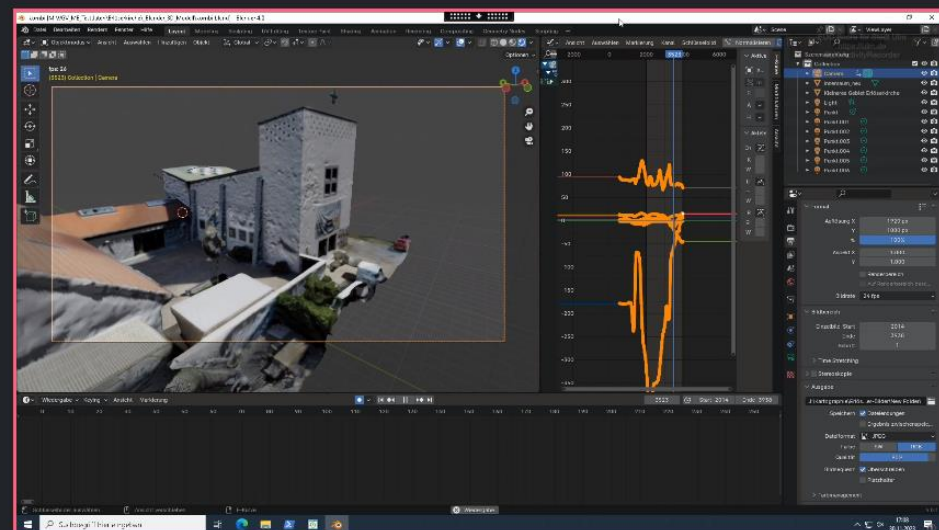
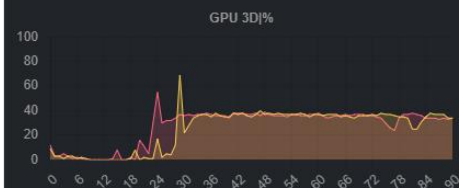
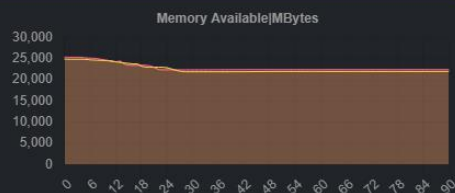
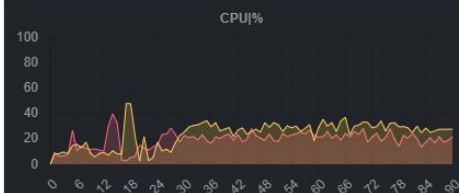
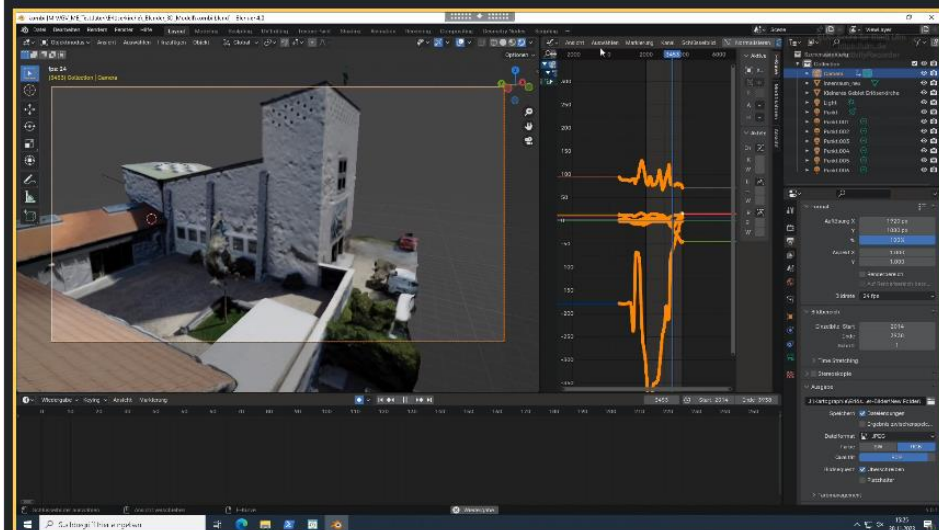
Timeline and
Video Controls



<https://eucscore.com/results>

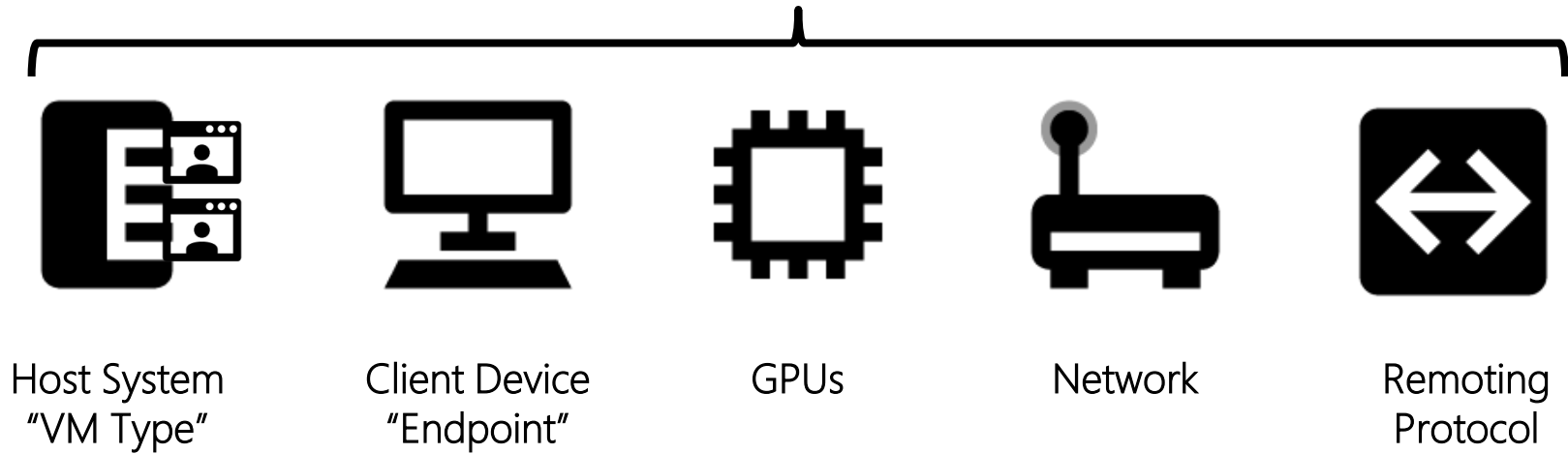


Sync Player Showtime





User Experience Influencers





Remoting Protocol Improvements

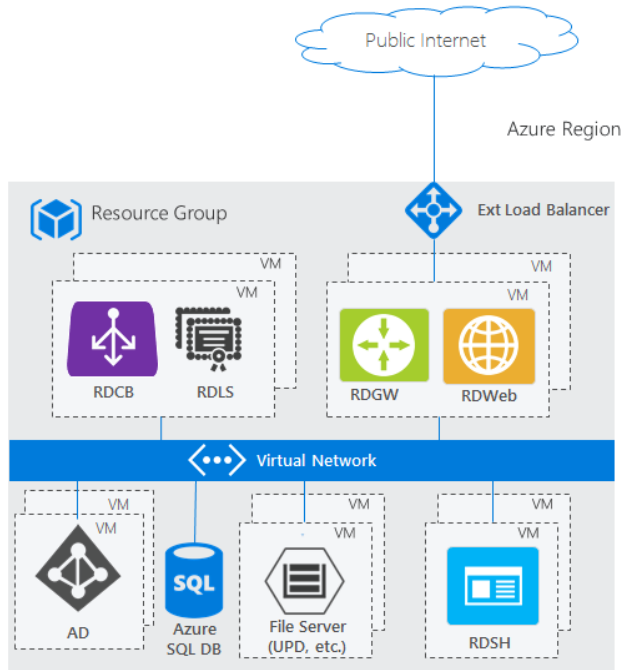
Relevant Protocols on Azure

- Microsoft RDP
- Microsoft RDP SxS
- Citrix ICA/HDX
- Dizzion Frame FRP
- VMware Blast
- HP PCoIP

- Self-adaptive when network conditions change
- Reduced impact of latency and packet loss
- Advanced caching
- Modern video codecs
- UDP-enabled
- GPU-enabled on sender and on receiver side
- Allowing reverse connect

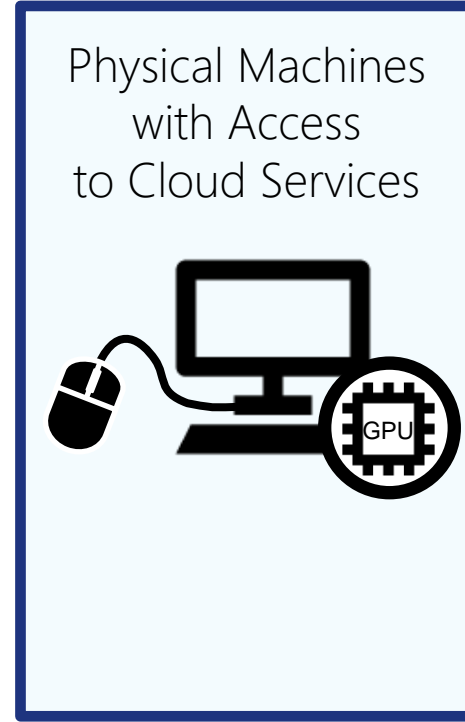
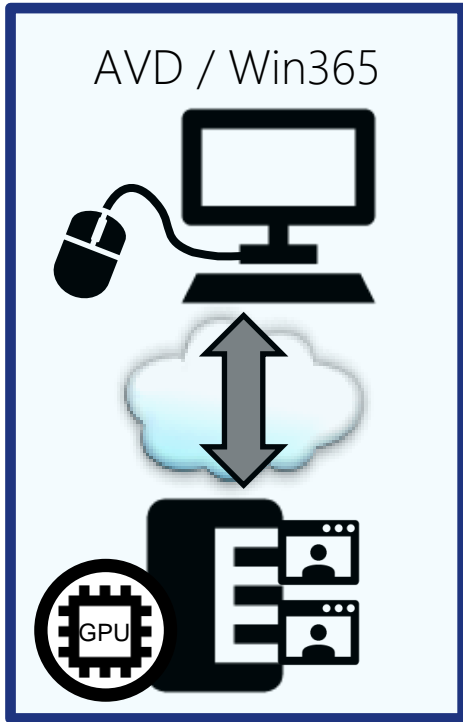
TREND

Shift from Infrastructure to Perceived User Experience (DEX4DaaS)



POTENTIAL TREND

The Pendulum May Swing Back to Physical PCs





EUC Score Links



Home Page



Freeware Download

Toolset documentation: <https://docs.eucscore.com>

Test Methodology: <https://eucscore.com/methodology.html>

Simload Gallery: <https://eucscore.com/gallery.html>

Test Results (Sync Player): <https://eucscore.com/results>

Terminology (Glossary): <https://eucscore.com/terminology.html>

Lab Equipment: <https://eucscore.com/equipment.html>



Summary

- ✓ What the Hex is happening in EUC?
- ✓ Shift from EUC infrastructure to DEX



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INSPARK



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Please evaluate this session in the App.

THANK YOU

Are there any questions?

