

VMware Disclaimer

VMware 2021

This presentation may contain product features or functionality that are currently under development.

This overview of new technology represents no commitment from VMware to deliver these features in any generally available product.

Features are subject to change, and must not be included in contracts, purchase orders, or sales agreements of any kind.

Technical feasibility and market demand will affect final delivery.

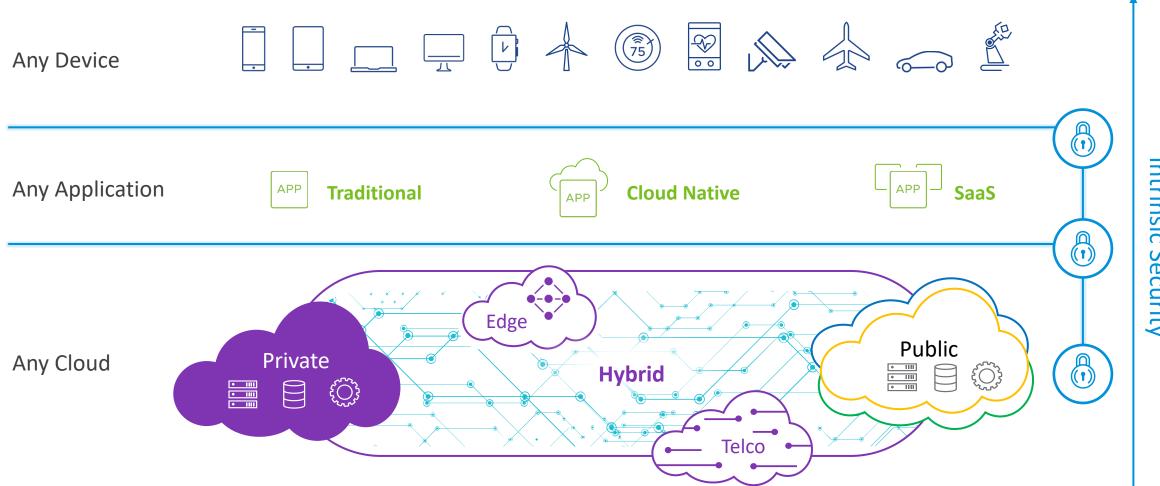
Pricing and packaging for any new features/functionality/technology discussed or presented, have not been determined.

This information is confidential.



VMware Delivers the Digital Foundation

Build, Run, Manage, Connect and Protect Any App on Any Cloud on Any Device





Intel and VMware: 15+ Years of Collaboration

VMware and Intel solutions combine co-engineered building blocks, reference designs, and tools to enable digital transformation



- Unify management of compute, storage, and network resources with hyperconverged infrastructure
- Optimize VM density and data performance with Intel® architecture (IA)
- Improve user experience with faster data access and support for memory-intensive workloads with Intel[®] Optane[™] storage & memory technology



- Deploy software-defined data centers to leverage hybrid clouds
- Leverage agile building blocks to optimize total cost of ownership (TCO)
- Quickly deploy best of breed designs, optimized for containers, to public clouds
- Only multi-cloud platform available on all major cloud providers



- Protected, any-to-any connectivity
- Seamlessly extend workloads from on-prem to multi-cloud
- Experience cloud-like elastic scalability
- Accelerate packet processing and encryption performance with IA
- Reduce CapEx and OpEx costs by consolidating network functions on Intelbased servers

Secure Foundation For Your Cloud



HCI Customers Share 'Memory-Bound' Concerns

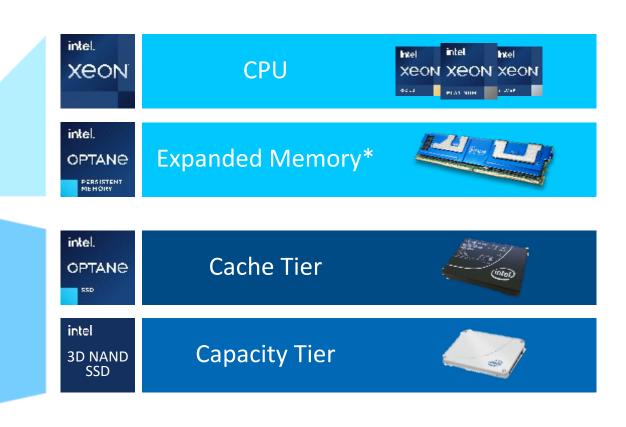
MEMORY COSTS DOMINATE TCO¹ WORKLOADS DEMAND MORE MEMORY Bigger Memory squeeze CPU Platform Rack Infra ■ Power OPEX Faster nemory 2020 2021 2022 2023 2024 Mission-Critical "PC DRAM prices to rise 13-18% in 2Q21, says TrendForce" DigiTimes, March 2021

^{1.} Source: Internal Intel estimates – based on large scale deployments and does not include software costs. Your costs and results may vary.



Optane Technologies Work Together in VMware

vm vm vm vm **vSAN** vSphere Managed by vCenter Cache (DRAM) Compute Writes \downarrow \uparrow Reads vSphere Capacity (PMem) **+ †** Writes 1 ↑ Reads Cache Storage vSAN Capacity

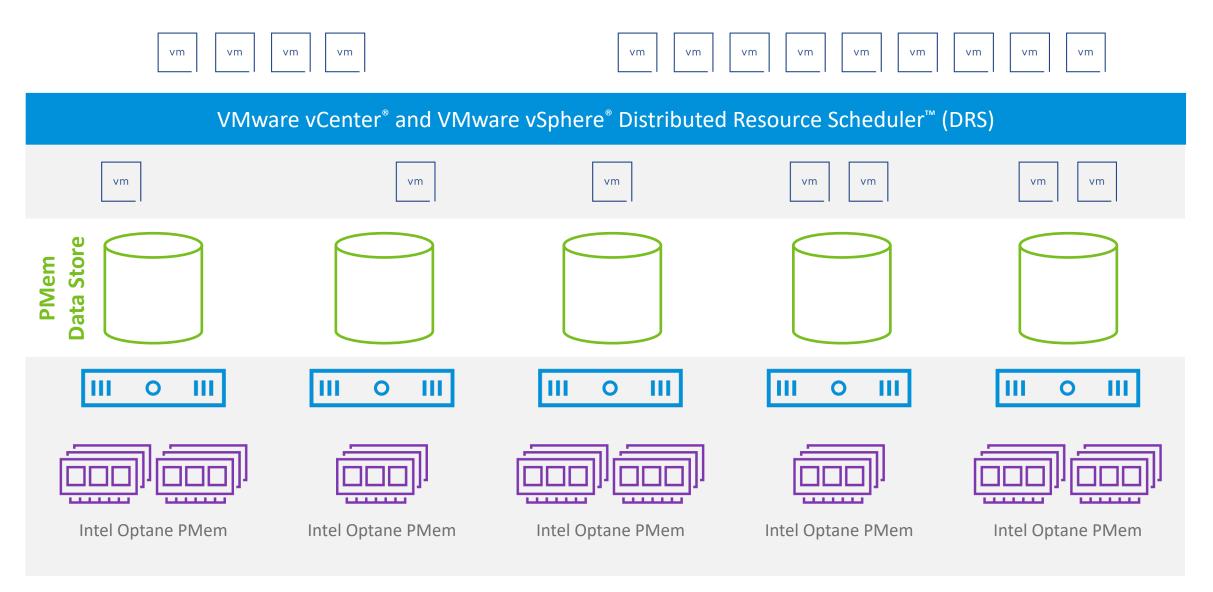


Improve user experience with faster data access and support for memory-intensive WLs

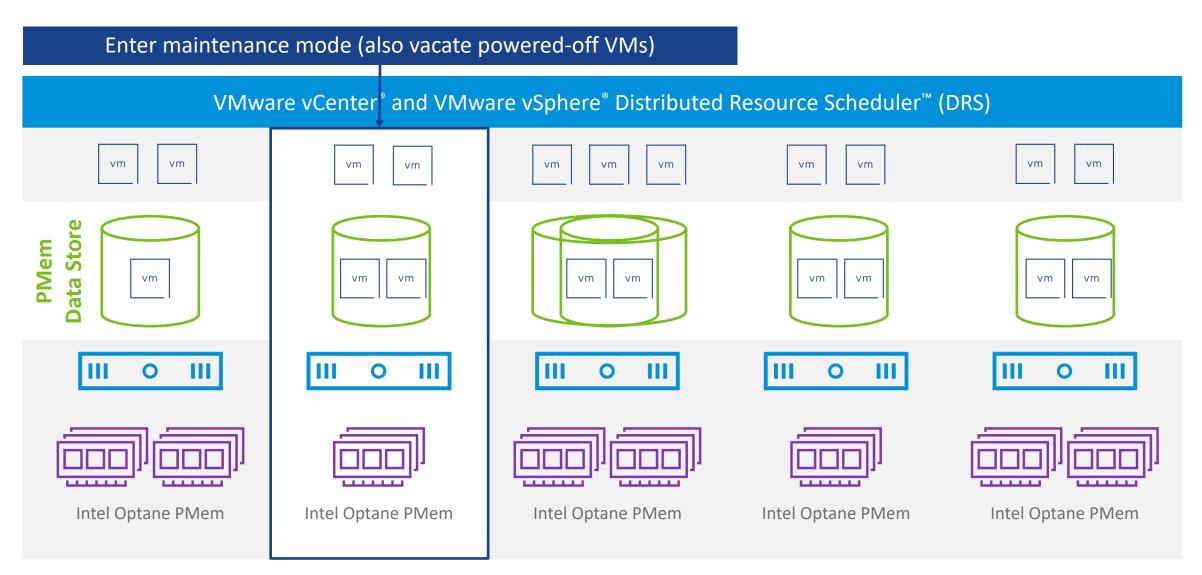
* Supported by VMware in specific configurations; please contact VMware for more information



Unbound your resources with VMware vSphere DRS™



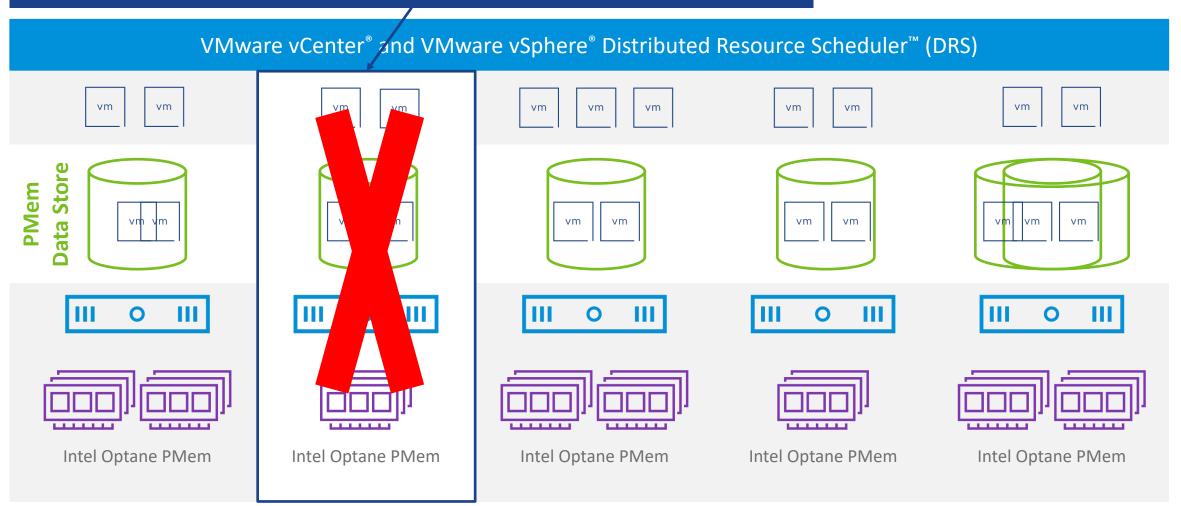
Agility and Mobility with VMware vSphere vMotion™



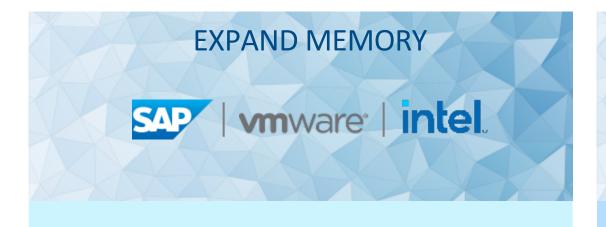


Failure Recovery with VMware vSphere HA™

Host Failed → vSphere HA restart the VMs (fresh datastore created)



VMware Solving Problems Today with Intel® Optane™



25%
FASTER
start-up times¹

55%

FASTER
recovery times¹



3X
IMPROVEMENT in VM capacity²

41%
REDUCTION
on infrastructure²

1 Source – Telefonica. Intel does not control or audit third-party data. You should review this content, consult other sources, and confirm whether referenced data are accurate.

2 Source – Intel. For more complete information about performance and benchmark results, visit https://www.intel.com/content/www/us/en/customer-spotlight/stories/softbank-vm-customer-story.html



Key Takeaways

- Larger datasets and real-time analytics are driving the need for larger memory
- 2. **Memory is not cheap**—it's a large part of a bill of materials (BOM)
- 3. Intel® Optane™ PMem and VMware vSphere® are addressing various customer use cases
- **4. Customers are getting real value now.** Customers and ISVs are encouraged to make use of the solution for their specific use cases!

Thank You

