

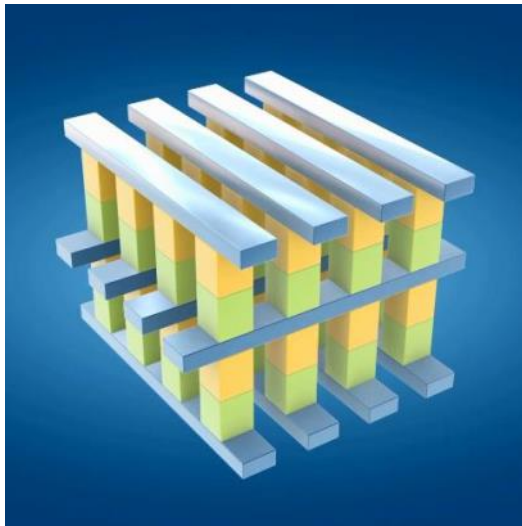


# 3D XPoint™ Technology

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# 3D XPoint™ Technology - A New Class of Memory



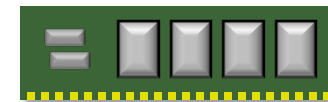
- Up to **1000 times faster**<sup>1</sup> than NAND
- Up to **1000 times greater endurance**<sup>2</sup> than NAND
- **10 times denser** than conventional memory<sup>3</sup>

SSDs with Intel Optane™ technology



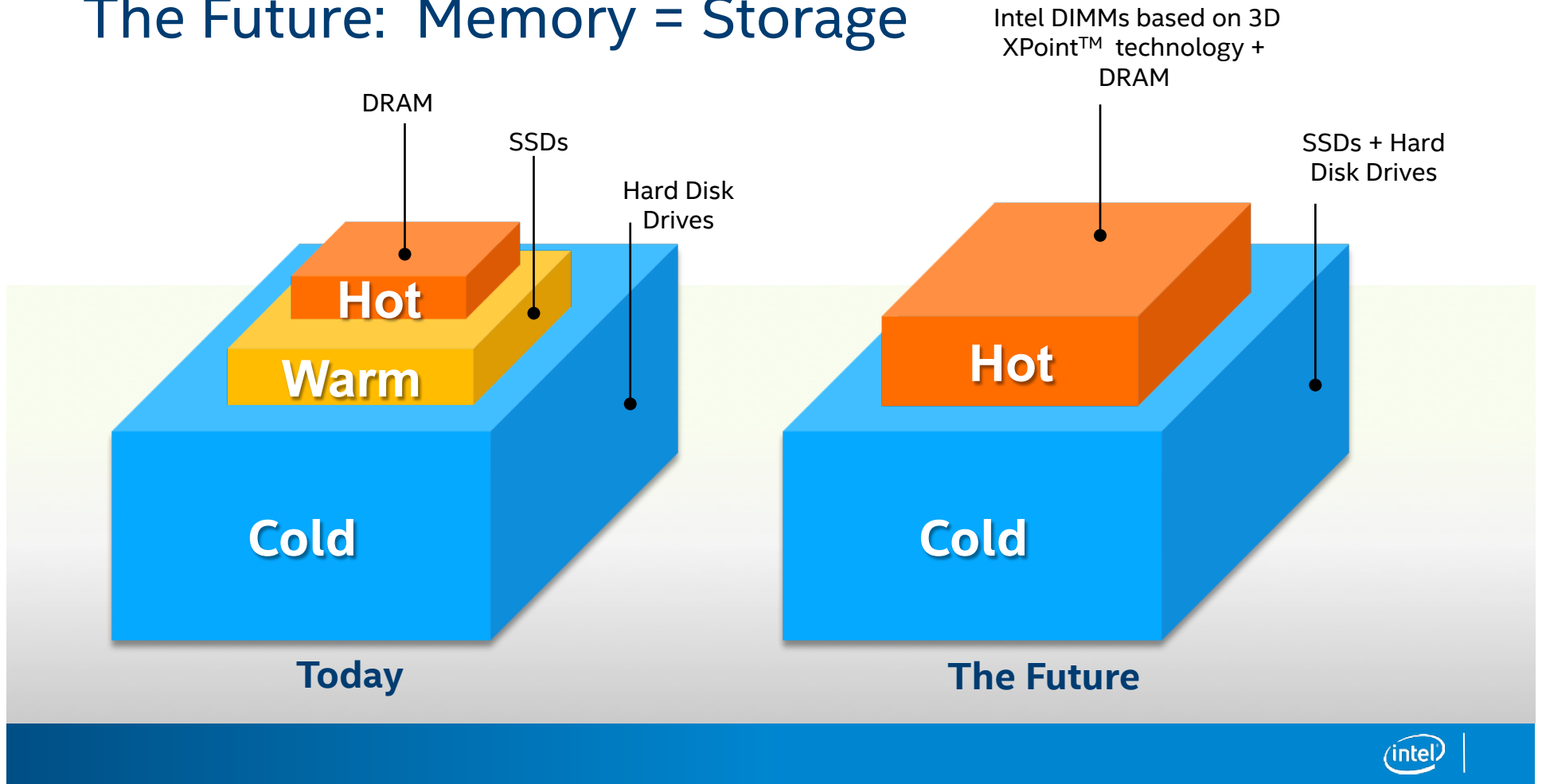
2016

Intel DIMMs



With next-generation data center platform

# The Future: Memory = Storage



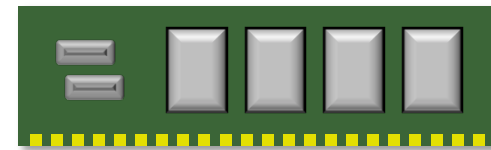
# Just Add Software

**Legacy SW Stack**



**Fast Storage**

**Optimized SW Stacks**



**High Capacity  
Persistent Memory**



Open SW innovation in-process at [SNIA.org](http://SNIA.org),  
<http://PMEM.io>, and Linux kernel developer forums



# Notes

1. Performance difference based on comparison between 3D XPoint™ technology and other industry NAND
2. Endurance difference based on comparison between 3D XPoint™ technology and other industry NAND
3. Density difference based on comparison between 3D XPoint™ technology and other industry DRAM