

Why Businesses Should Consider IBM Power Systems for SAP HANA and S/4HANA

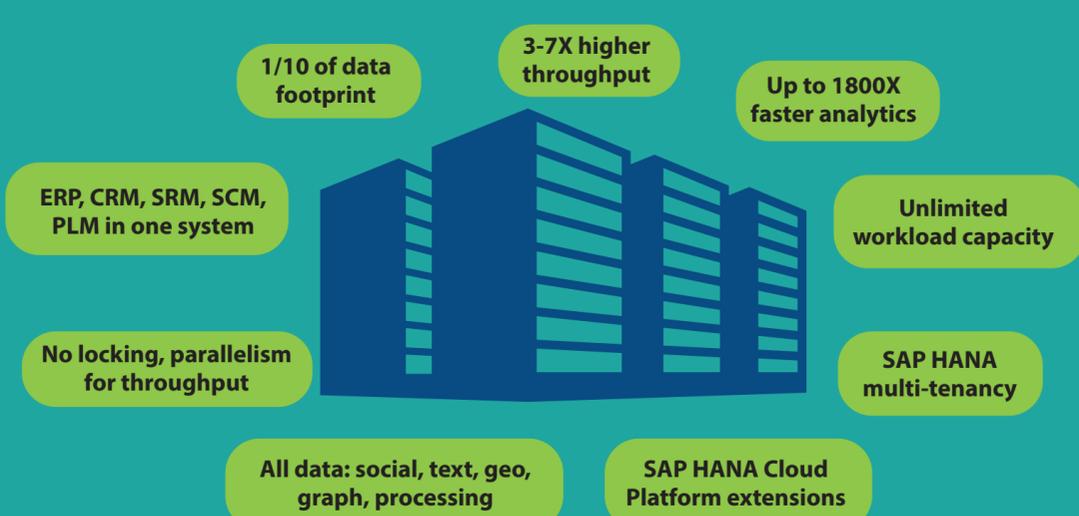
SAP-stated benefits from S/4HANA



- ✓ Earlier period closing
- ✓ Better forecasting
- ✓ Simulation of results or organizational structures
- ✓ Better insights into customer behavior
- ✓ Real-time sales and cost analysis in any format
- ✓ Better service levels in customer-facing applications

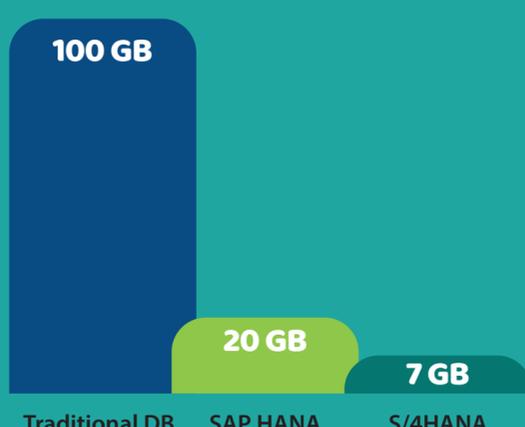
Source: SAP

S/4HANA technology innovations that will challenge many hardware platforms



Source: SAP

S/4HANA: Consolidation on less (but not less sophisticated) infrastructure



Source: SAP

IBM Power: Ideal platform for infrastructure demands imposed by SAP HANA and S/4HANA

Flexibility

- ✓ Cloud-like
- ✓ Scale to 16TB with S/4HANA
- ✓ Mix workloads with PowerVM
- ✓ Up to 8 production VMs
- ✓ Go live quickly with a new VM
- ✓ Capacity on demand
- ✓ Secure virtualization

Resiliency

- ✓ Heuristics for predictive failure alerts
- ✓ Memory chip failure prevention
- ✓ VM as failover target in standby mode

Performance

- ✓ 8-way simultaneous multi-threading
- ✓ 32 TB memory
- ✓ 230 Gbps memory bandwidth
- ✓ Large L2, L3, and L4 cache designed for big data
- ✓ SMID (single instruction, multiple data)

Top 2 Customer Virtualization Needs for SAP HANA and S/4HANA

- 1 Virtualization for a production environment – with more built-in virtualization
- 2 Greater ability to run mixed workloads

Source: 2016 IDC Survey

Top 2 Reasons for a TDI approach to SAP HANA and S/4HANA

- 1 Flexibility – TDI will provide greater ability to customize the SAP HANA environment
- 2 Architecture – Prefer a SAP HANA solution on RISC with IBM Power

Source: 2016 IDC Survey

IBM Power is an ideal platform for hybrid cloud with SAP HANA and S/4HANA

More than 80% of enterprise IT organizations will commit to Hybrid Cloud architectures by 2017

Source: IDC FutureScape: Worldwide Cloud 2016 Predictions

Hybrid Cloud with IBM Power

- ✓ Turn on and pay for cores only when needed
- ✓ Run IBM Power as a cloud with OpenStack
- ✓ Bring up SAP via IBM PowerVC and use with SAP Landscape Virtualization Manager (LVM) and vRealize/vCloud
- ✓ Use IBM PowerVC for VM setup and management

Which businesses can benefit from SAP HANA on IBM Power Systems

- ✓ Reduce scale-out sprawl
- ✓ Increase flexibility
- ✓ Obtain greater reliability
- ✓ Improve performance
- ✓ Consolidate

Businesses that can immediately benefit from HANA on IBM Power

Running SAP HANA appliances and needing a refresh

Running SAP on commodity architecture and exploring SAP HANA adoption

Running SAP on IBM Power and exploring SAP HANA adoption

Non-SAP shop running on IBM Power

- ✓ Run virtualized datacenter
- ✓ IBM PowerVM and IBM PowerVC integrate seamlessly with OpenStack management tools
- ✓ Start taking advantage of IBM Power 8 and run more SAP HANA production instances than on commodity systems.