Bringen sie ihre Daten zusammen

Wie erstellt man die perfekte Big Data Plattform?

Alexander Palm
Cisco Big Data Specialist

Friedrich Krey
SUSE Head of SAP Alliance & Partners

Fabian Wilckens
MapR EMEA Solution Architect

Analytics #1

Investment prioritization by CIOs nine out of eleven years 2006 – 2016.

Source: 2016 Gartner CIO Agenda Report

1 Zettabyte

For the first time since its conception, global internet traffic will surpass 1 zettabyte (1 billion terabytes) in 2016.

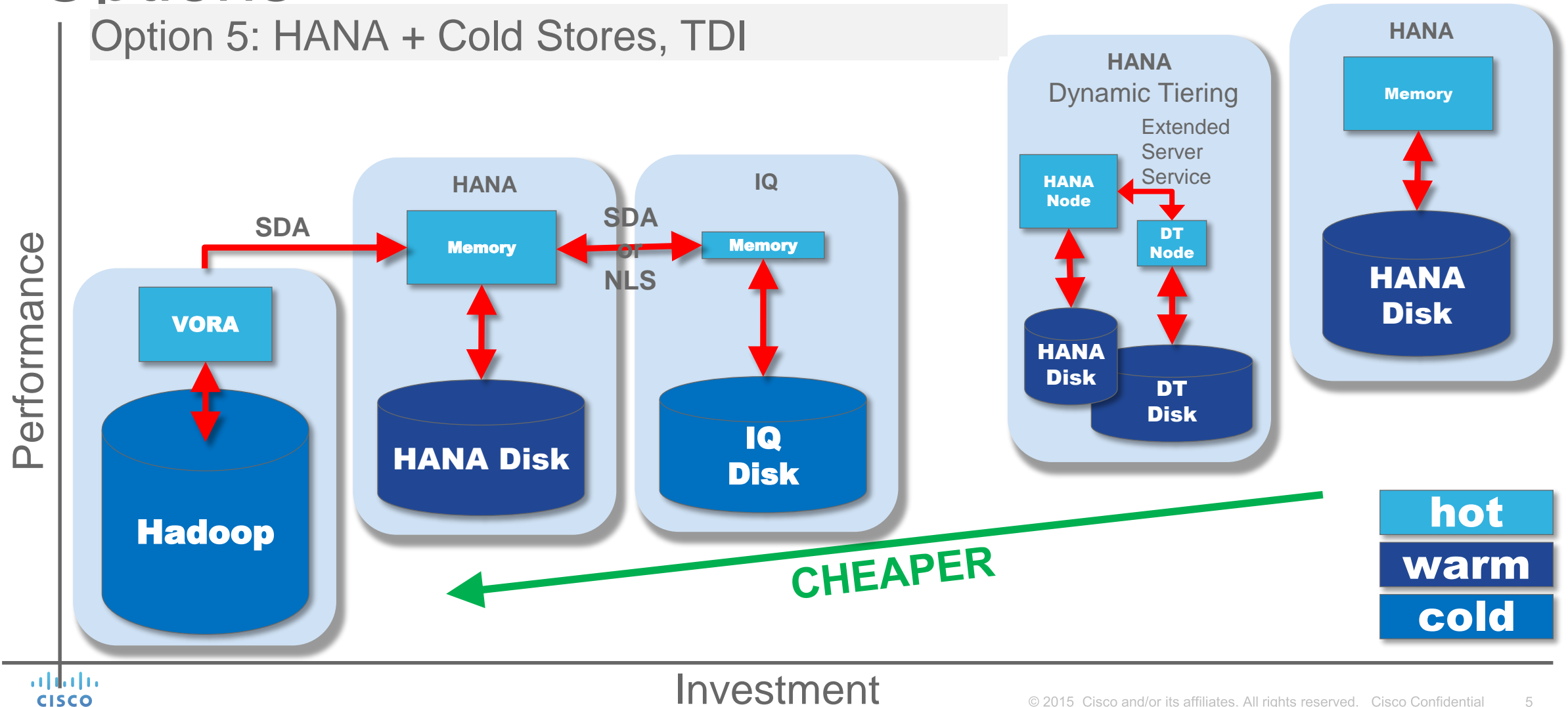Source: Cisco Visual Networking Index (VNI)

CISCO

By 2020

About 1,7 megabytes of new information will be created every sec. for every human being on the planet.

Source: Forbes Magazine by Bernard Marr
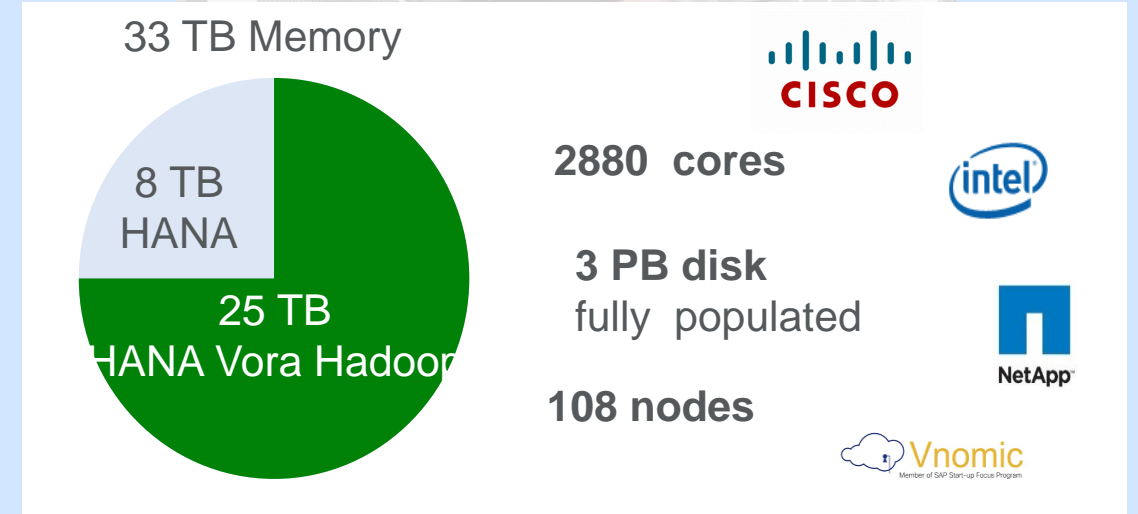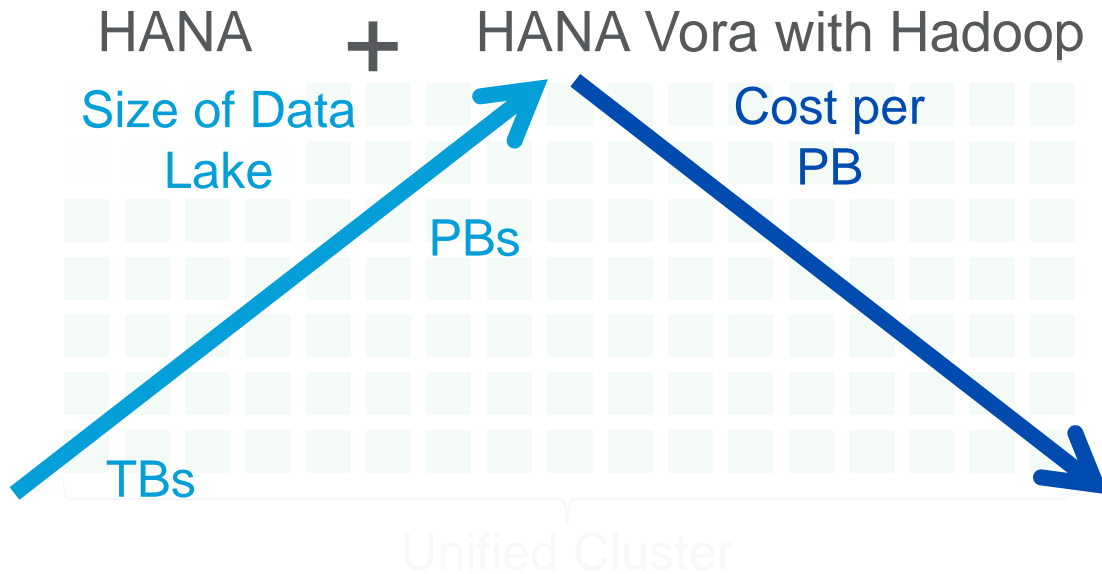
CISCO

S/4HANA Performance and Investment Options

Option 5: HANA + Cold Stores, TDI

SAP **CISCO**

Co-innovation: Policy Driven Delivery and Governance

HANA + HANA Vora + BW + S/4HANA

33 TB Memory

CISCO

8 TB HANA

25 TB HANA Vora Hadoop

2880 cores

intel

3 PB disk
fully populated

NetApp

108 nodes

Vnomic
Member of SAP Start-up Focus Program

HANA **+** HANA Vora with Hadoop

Size of Data Lake

Cost per PB

PBs

TBs

Unified Cluster

Test Drive with YOUR Big Data

Brand Sentiment	Predictive Maintenance	Network Optimization	Insider Threats	Smart Equipment
Asset Tracking	Personalized Care	Product Recommendation	Risk Mitigation, Real-time	Smart Vending
Propensity to Churn	Real-time Demand/ Supply Forecast	360° Customer View	Fraud Detection	Smart Cities

Vnomic
Member of SAP Start-up Focus Program

NetApp

f5

HANA Deployment Models

Business Agility

Appliance

✓ Easy

SAP HANA Server		Application Server
		Database
		Operating System
		Virtualization
		Server (CPU, RAM)
Storage		Network
		Storage
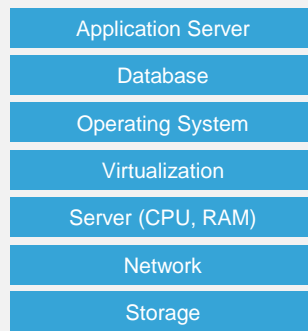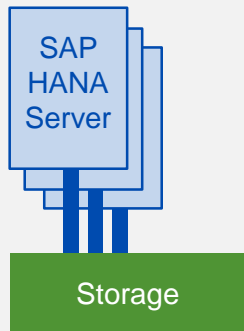
Simple
- Scale Up
- Bundled HW
- Single workload per Appliance

TDI
(Tailored Data Center Infrastructure)

Flexible

SAP HANA Server	Server (CPU, RAM)
Enterprise Network	Network
Enterprise Storage	Storage
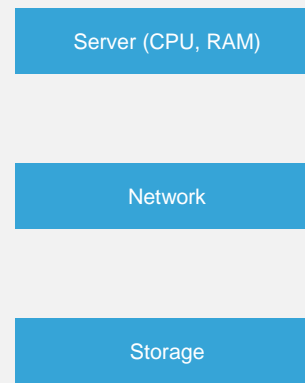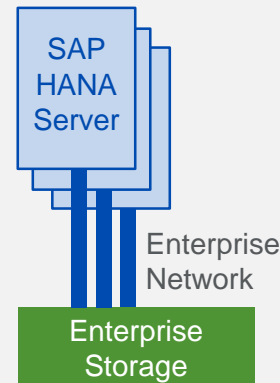
Flexible
- Scale Out
- Leveraged, Certified HW
- Multiple workloads on shared infr.

Policy Driven TDI

✓ Easy   Flexible   🔒 Secure

Performance   Security   Availability

APIC

VM   VM   VM

SAP HANA Server	SAP HANA Server	SAP HANA Server

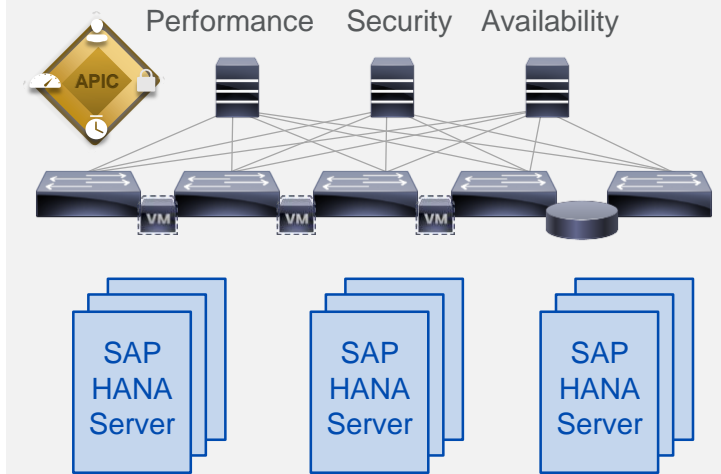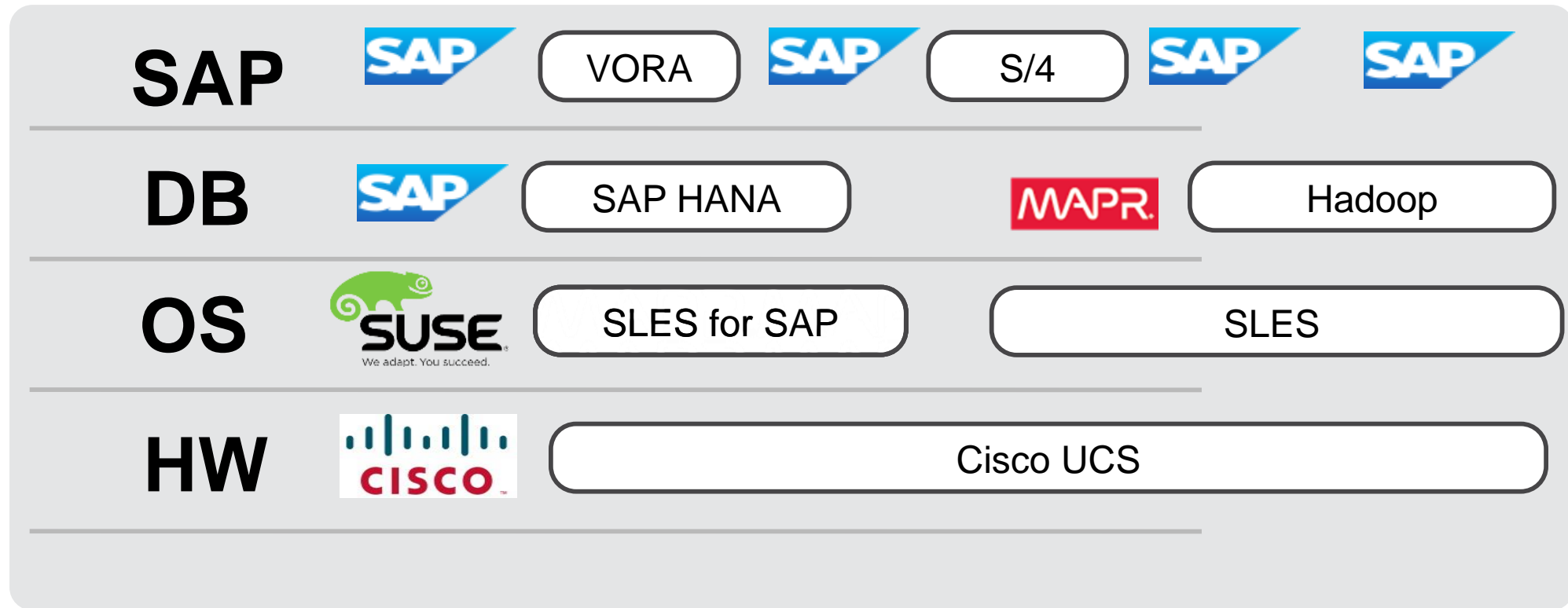**Simple + Flexible**
- Scale up + Scale Out
- Inherent security
- Dynamic workloads

SAP Big Data with HANA and Hadoop

SAP	SAP	VORA	SAP	S/4	SAP SAP
DB	SAP	SAP HANA		MAPR.	Hadoop
OS	SUSE	SLES for SAP			SLES
HW	CISCO	Cisco UCS			

SUSE
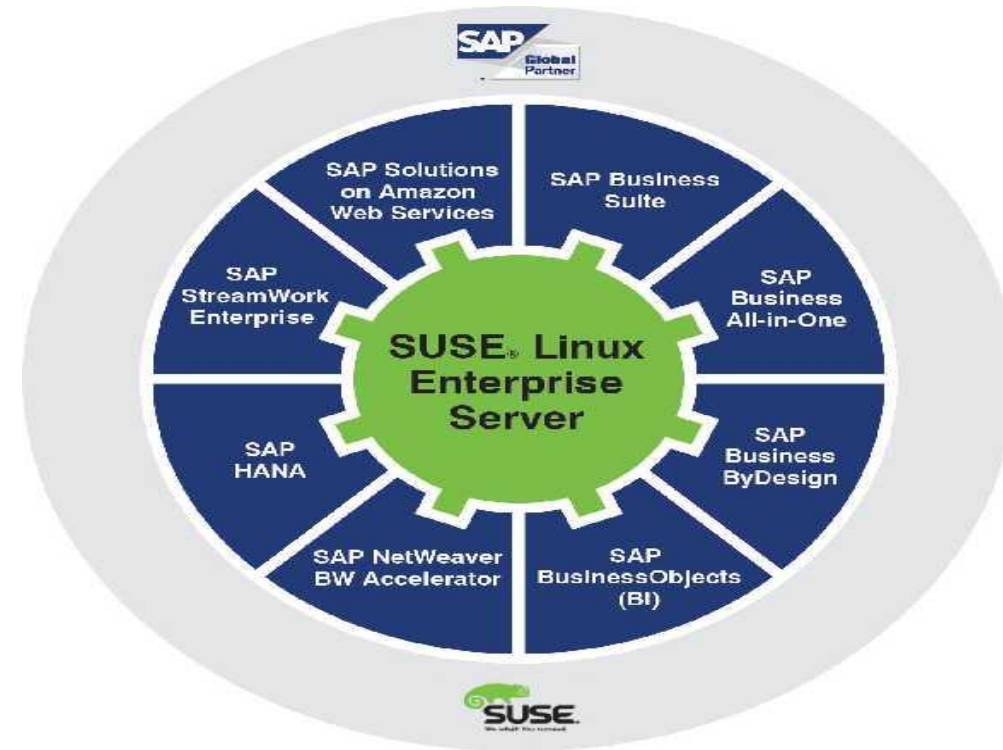
SLES for SAP Applications

_is SAP Software Development Reference Platform

_SAP on SLES certification in 1999

_10000+ joint customers, 100+ References

_80+% market share worldwide

_Integrated 24x7 Support with
  SAP Solution Manager

_Appliance and OS Platform

    – **SAP NetWeaver BW Accelerator***
    – **SAP High Performance Analytic Appliance**
    – **SAP StreamWork Enterprise Agent***
    – **SAP NetWeaver Enterprise Search***
    – **SAP Business ByDesign***
    – **SAP Hana Enterprise Cloud***
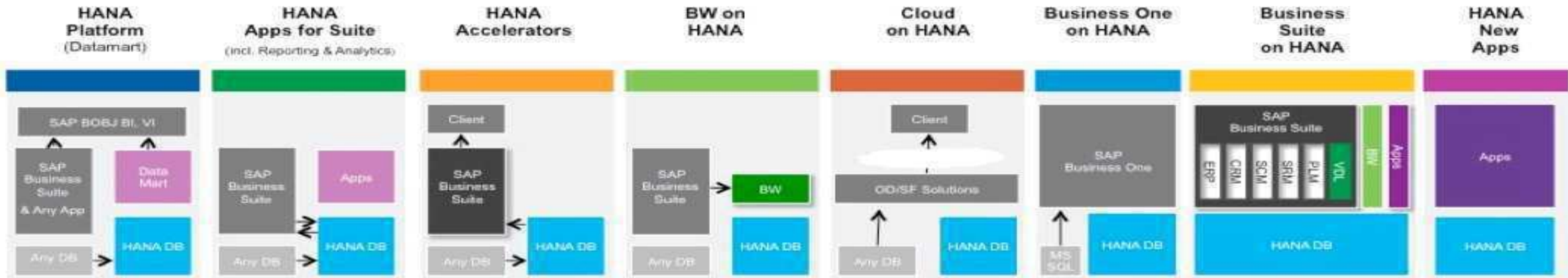   – **SAP's own ERP on HANA runs SUSE**

http://scn.sap.com/community/linux/blog/2015/10/09/sap-se-relies-on-suse-also-for-the-sap-hana-enterprise-cloud
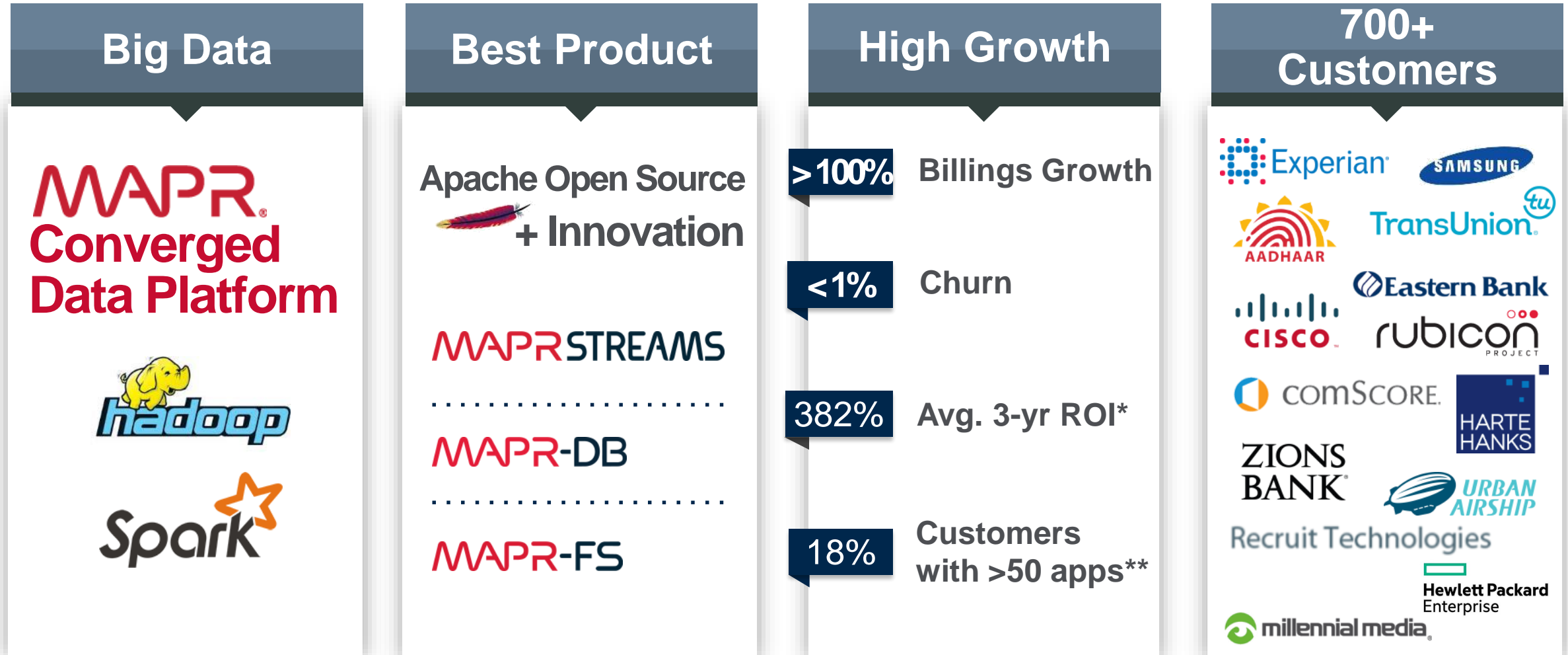
SAP HANA

In-Memory Data Platform for S/4

SAP HANA developed on SUSE (SLES for SAP Applications)

_Towards Zero downtime

_Optimum Performance

_Simplified Operations

http://scn.sap.com/people/friedrich.krey2/content

Source:SAP HANA

MapR: the Production Choice for Big Data Applications

Big Data

MAPR.
Converged Data Platform

hadoop

Spark

Best Product

Apache Open Source + Innovation

MAPR STREAMS

....

MAPR-DB

....

MAPR-FS

High Growth

>100%   **Billings Growth**

<1%   **Churn**

382%   **Avg. 3-yr ROI***

18%   **Customers with >50 apps****

700+ Customers

Experian   SAMSUNG

AADHAAR   TransUnion

CISCO   rubicon PROJECT

comScore   HARTE HANKS

ZIONS BANK   URBAN AIRSHIP

Recruit Technologies

Eastern Bank

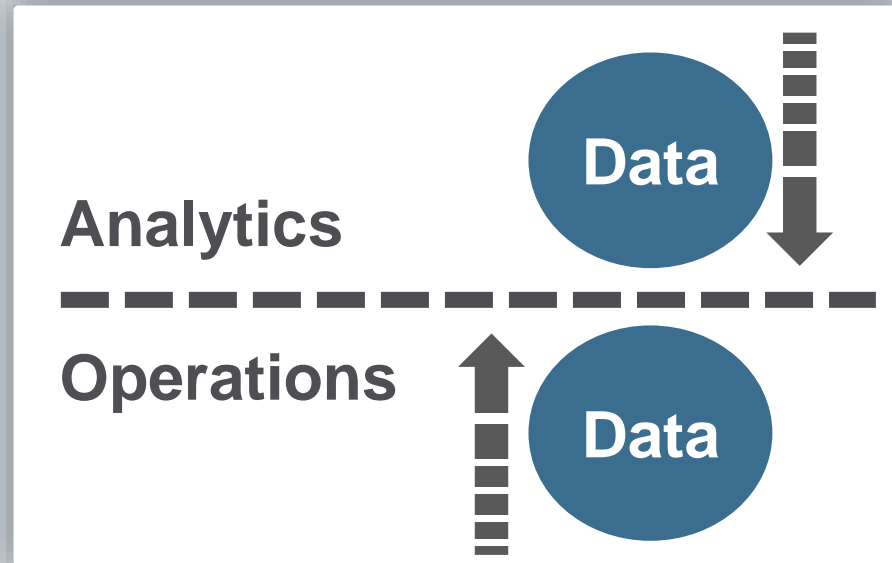Hewlett Packard Enterprise

millennial media

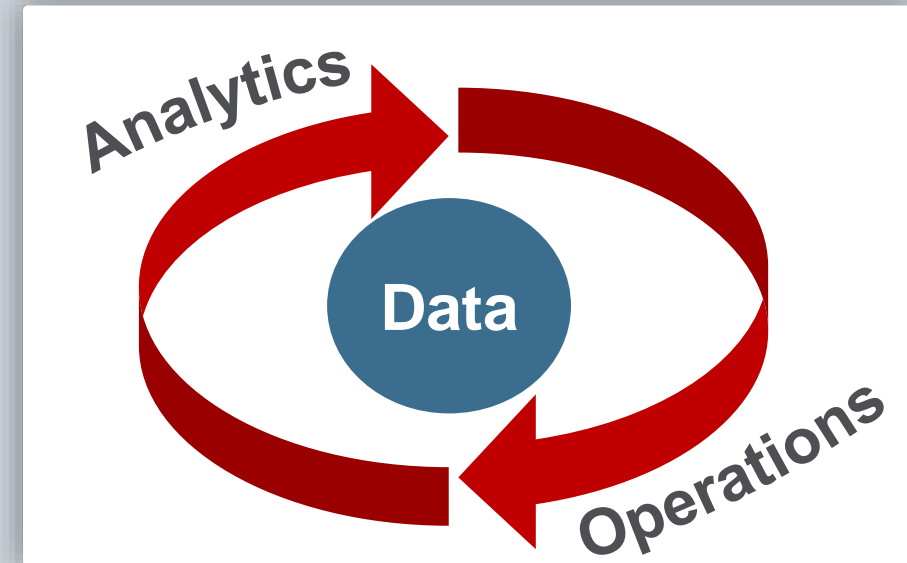* IDC – "The Business Value of MapR", 2016.
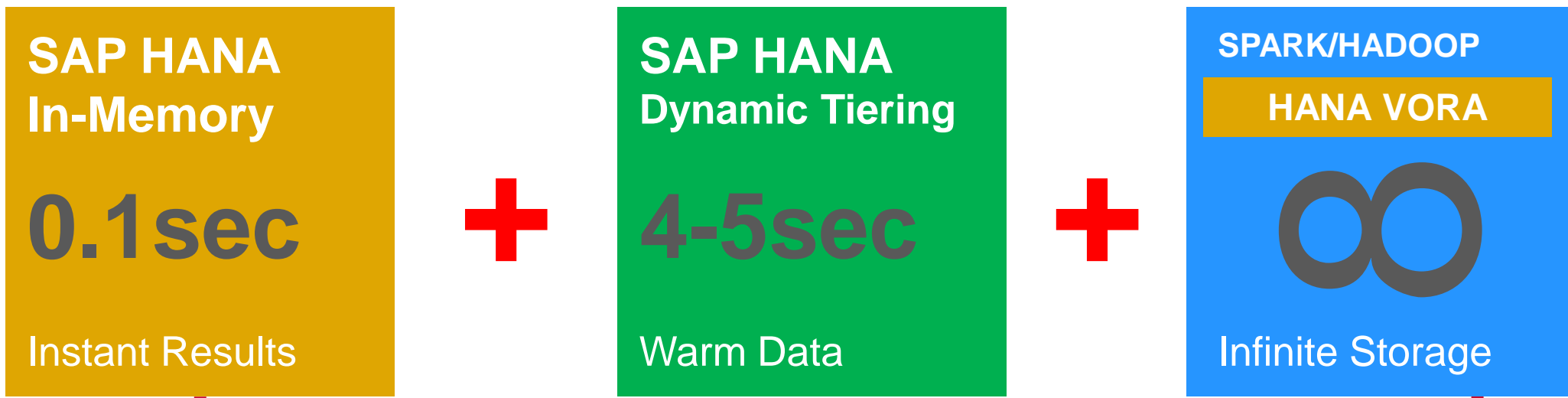** - TechValidate Research, 2015

MAPR.

Others

MAPR.

- Complex and slow
- Multiple versions of the truth
- Difficult governance
- High TCO

- Real-time data to action
- Single data copy
- Easy governance
- Low TCO – scales horizontally

HTAP (Hybrid Transaction/Analytical Processing) – Gartner Group 2015