



Data Trends... ...Driving Storage (*radical*) Evolution

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Sun Microsystems France, SAS

the Data 'Tsunami'

– *ingest, archive, distributed, fast, open.....*

281 exabytes

45GB /person

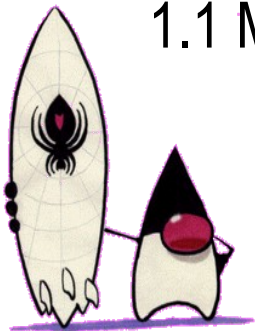
10X growth in 5 years

50% thrown away

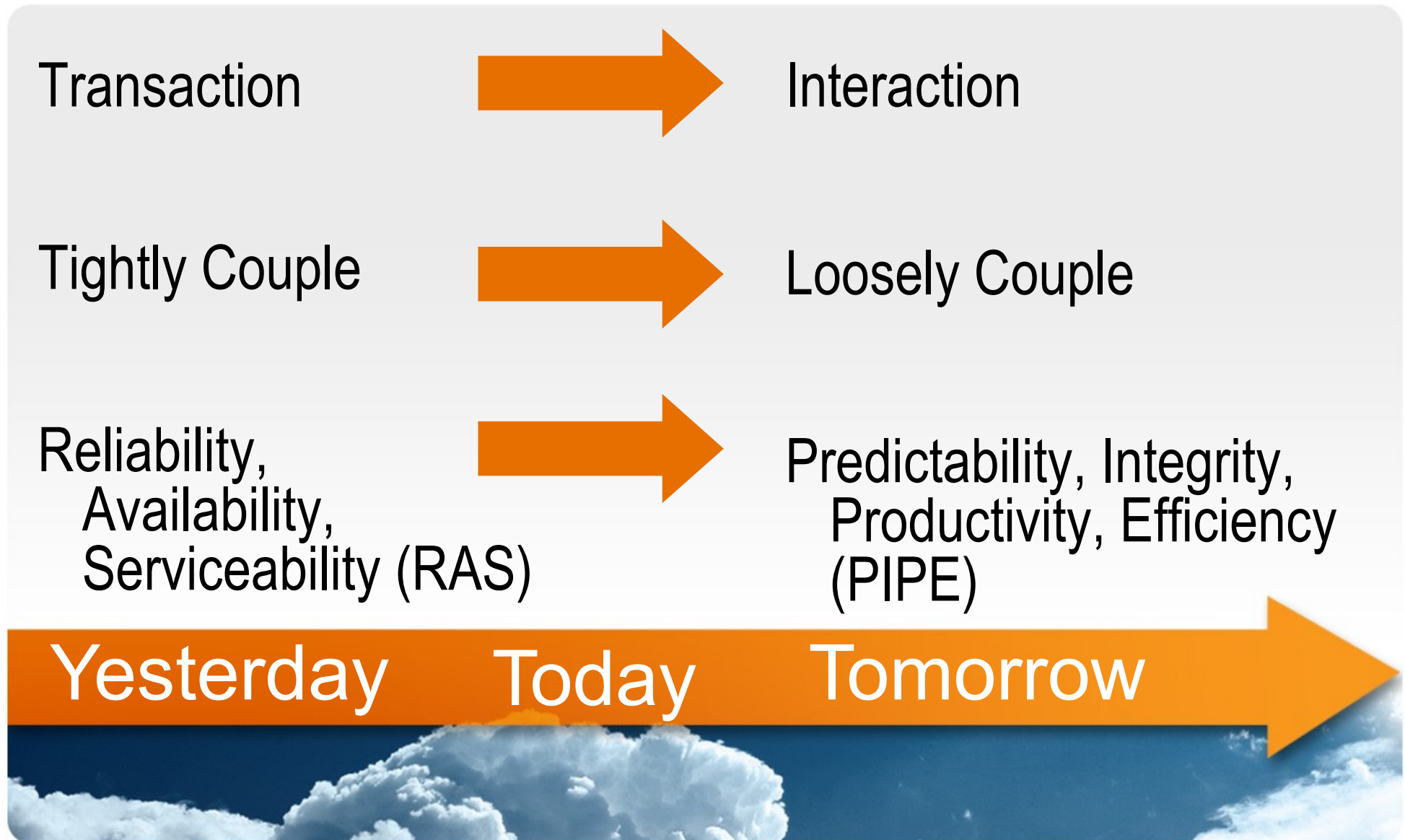
excess 'halo' effect

1.1 MB email to 4 people

= 51.5 MB



Driving force for new Patterns



New Data and Management Economics

Compute Trend

New Analytics Emerge
(MapReduce, Hadoop...)



HBASE
Architectural shift to the cloud and HPC-style workloads

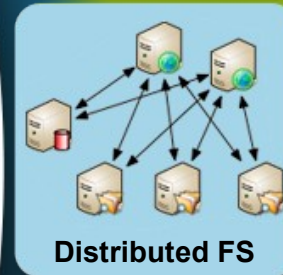
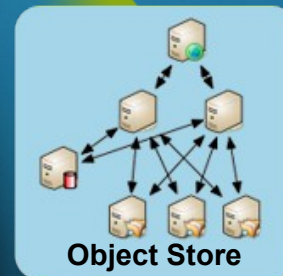
Greenplum
Open source, general purpose datawarehouse

TERADATA.
Proprietary, dedicated datawarehouse

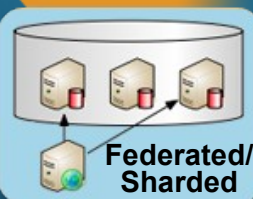
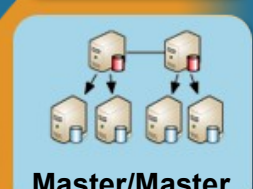
ORACLE
OLTP is the datawarehouse

Data (Storage) Trend

Semi-structured Data
(Mogile, Bigtable, HDFS...)

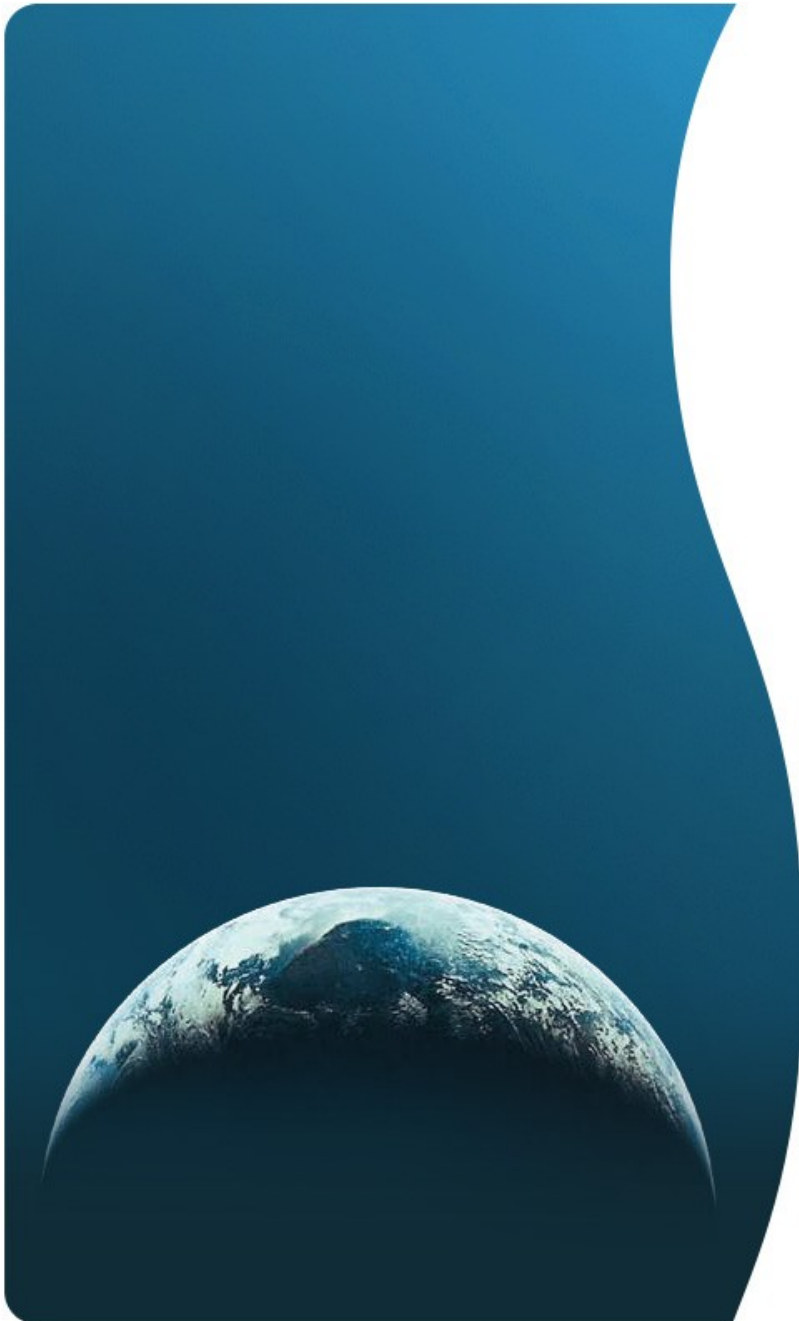


Unstructured Data



Structured Data

Semi-structured Database
ScaleDB, Big Table, SimpleDB, hBase



Why Sun ?

Refactoring Storage as a Service

– useful for Data Intensive computing ?



General Purpose Storage 'Servers'

- Combine server with disk & networking
- Specialized software enables general purpose systems designs to provide high performance data services

Sun's Open Storage Platform direction

Sun Fire X4500/4540 – Thumper/Thor

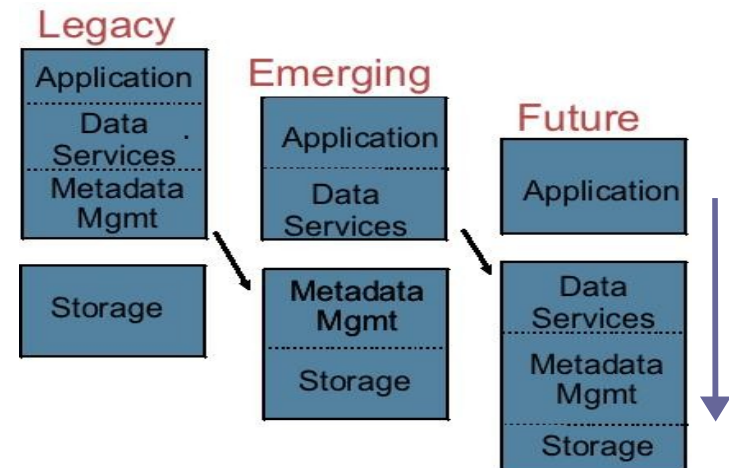
2 dual-core Opteron, 64GB, 48 hot-p SATA drives, 48TB in 4 RU



Sun Storage 7000 Unified Storage System

Hybrid ready architecture

High performance analytics



data functionality moves to the infrastructure

What makes the difference ?



MARS 2009 N°114

GNU **LINUX** MAGAZINE / FRANCE

Administration et développement sur systèmes UNIX

EMBARQUÉ
Installez GNU/Linux sur votre PlayStation Portable (PSP) (p. 30)

DÉCOUVRIR, INSTALLER ET CONFIGURER
PASSEZ À ZFS !
LE SYSTÈME DE FICHIERS RÉVOLUTIONNAIRE

DOMOTIQUE
▶ **DOMOGIK** : commandez votre maison avec des logiciels libres (p. 42)

CODE/SCRIPT
▶ Découvrez toutes les ressources Python pour le Web avec Zope3, Pylons et Django (p. 64)

NOYAU
▶ Comprenez et utilisez l'appel système PTRACE pour analyser vos applications (p. 84)

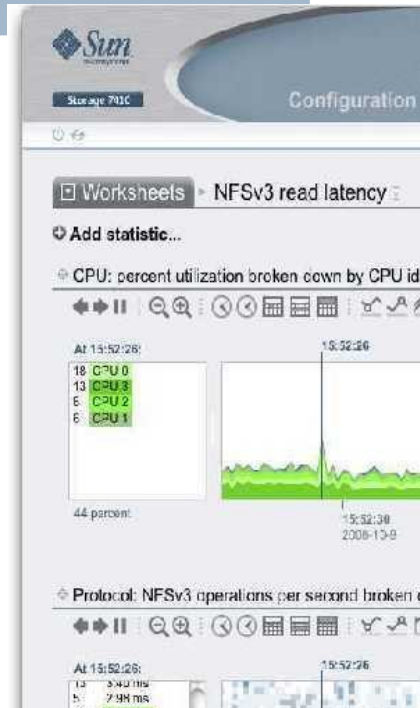
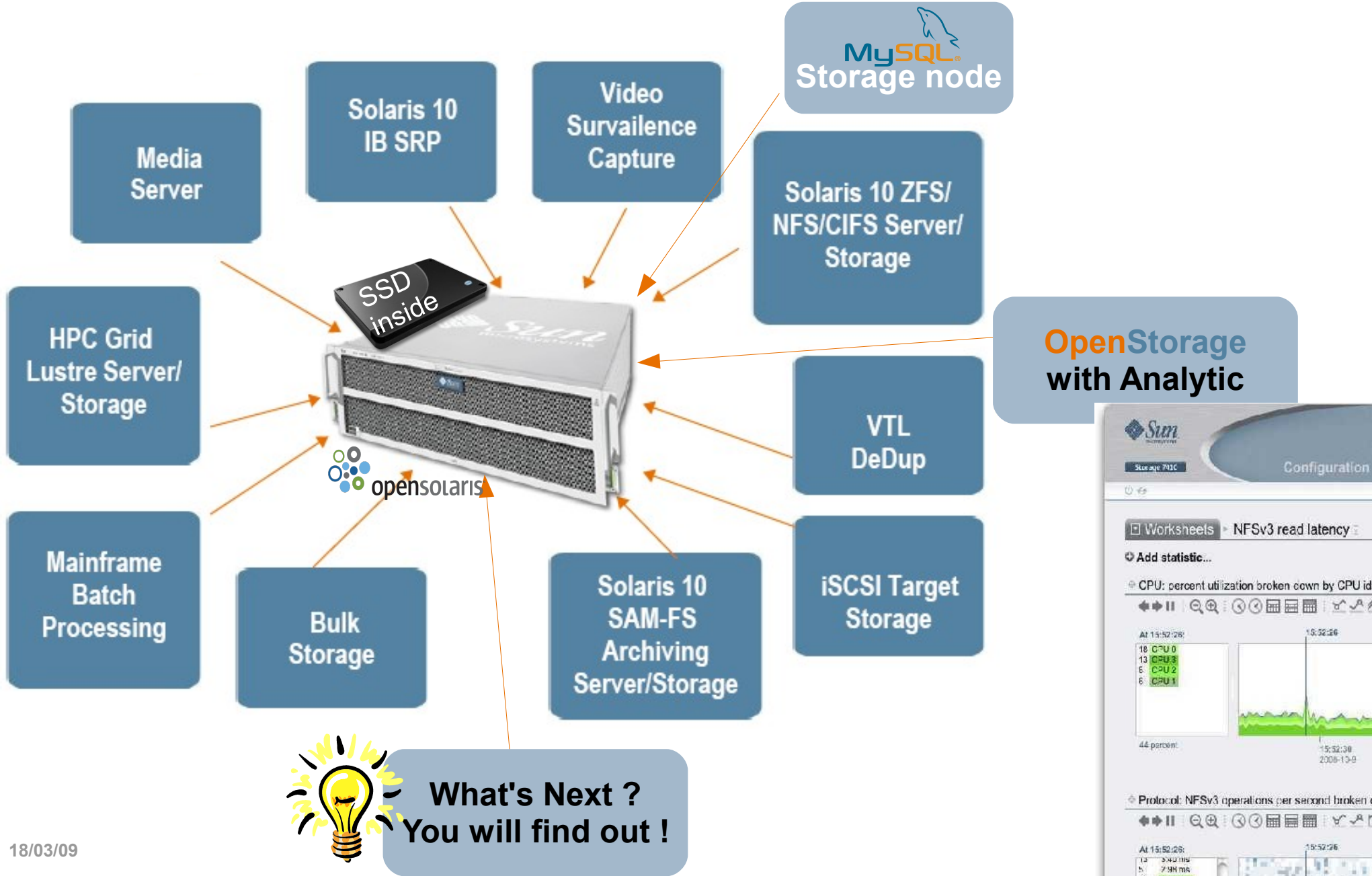
L 19275 - 116 - F - 6,50 €





www.solarisinternals.com

What a **Storage**Server can do for you ?





THANK YOU

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<http://blogs.sun.com/EricBezille>