

1st July 2014

**DataDirect**<sup>TM</sup>  
N E T W O R K S  
I N F O R M A T I O N I N M O T I O N <sup>TM</sup>

# TERATEC 2014 – Ecole Polytechnique

Massively-Scalable Platforms and Solutions  
Engineered for the Big Data and Cloud Era

**Bernard Rannou**

HPC & Big Data Sales Manager, France

**Architectures for the next years!**

[ddn.com](http://ddn.com)

The image features a dark red background with a complex, abstract pattern of overlapping, semi-transparent red planes and lines that create a sense of depth and motion, resembling a tunnel or a data stream. In the top right corner, there is a white rectangular tab-like shape.

# DataDirect<sup>TM</sup>

NETWORKS

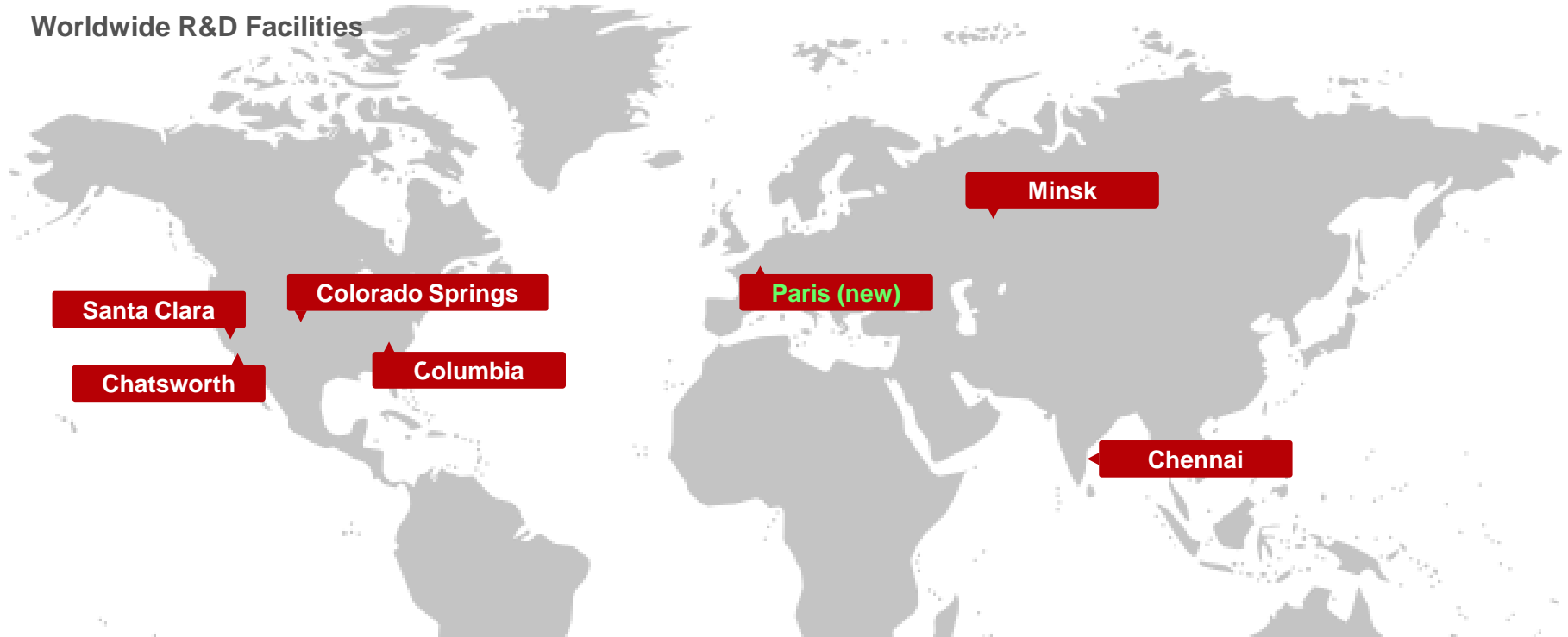
INFORMATION IN MOTION<sup>TM</sup>

---

[ddn.com](http://ddn.com)

# DDN | Increasing R&D Investments

## Worldwide R&D Facilities



### Global Infrastructure

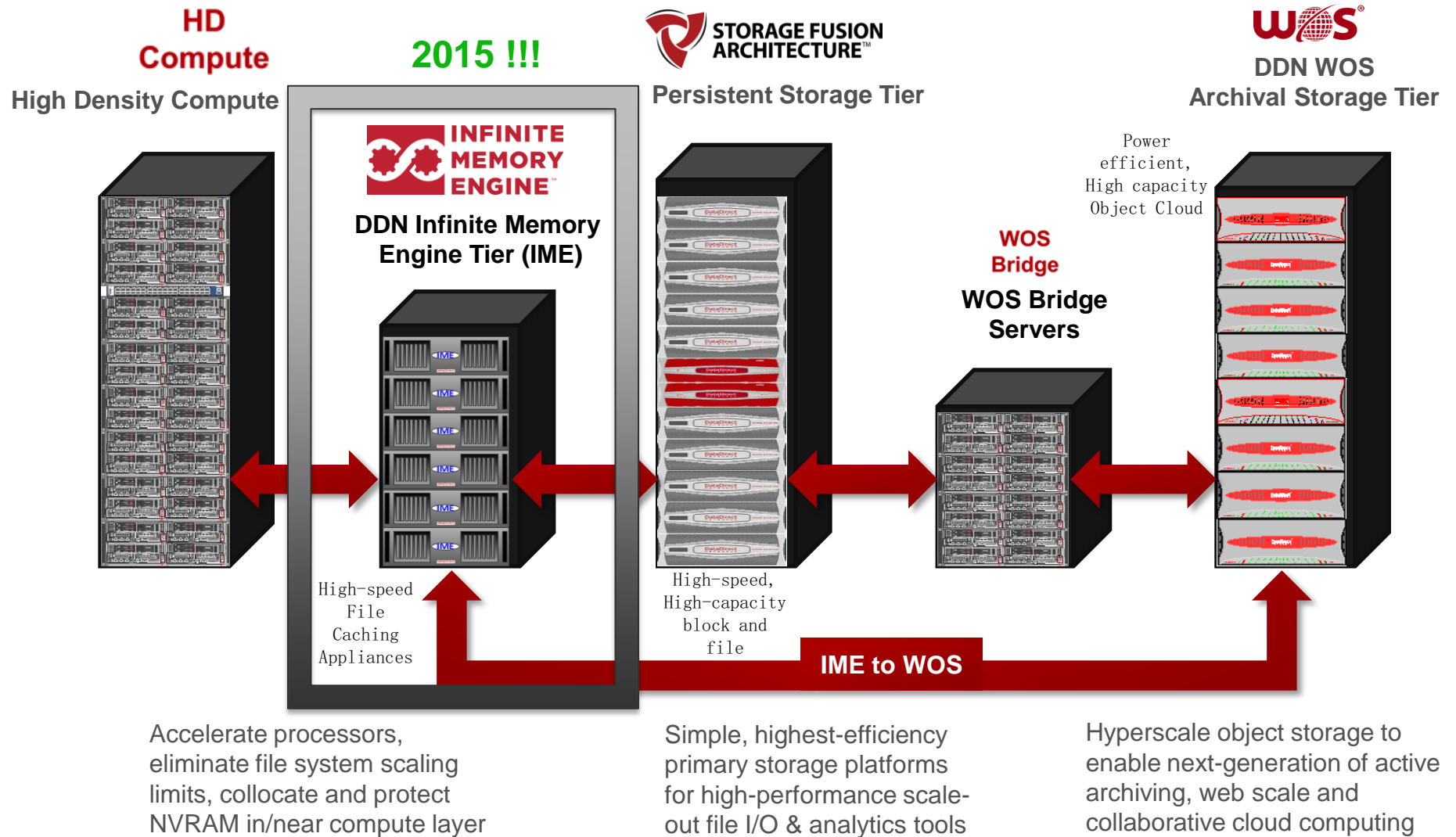
- ▶ Over 150 Engineers Worldwide ...and Growing
- ▶ Over 95% SW and Firmware concentration

### Over A Decade Of High-Scalability Expertise

- ▶ Three product architectures – all deployed at the industry's highest levels of scale
- ▶ Ten platforms launched – several more in the pipeline
- ▶ Over 1M Lines of Big Data Optimized Code in the SFA stack alone

# Unlimited Tiering

## From “Infinite Memory Engine” to WOS



# IME™ usage is almost Limitless

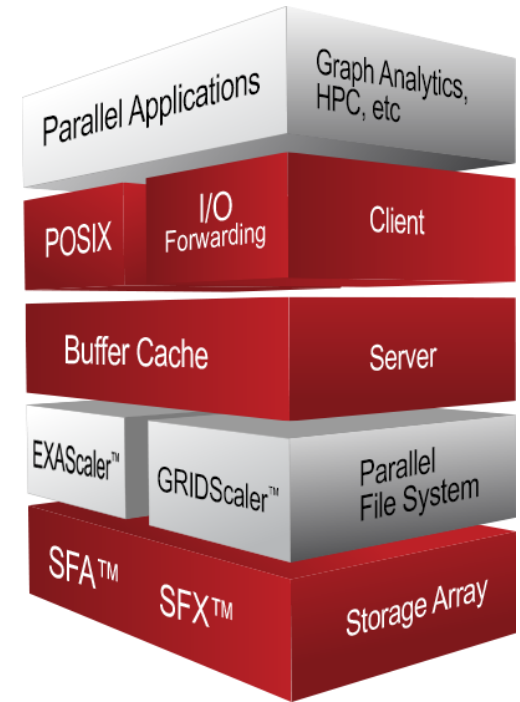
- Cluster I/O Speed Up **1000x**
- Disk Drives Reduction **10x**
- Rack Space Reduction **10x**
- Power Reduction **10x**
- Cost Reduction **Factor of 5**
- **50M IOPS and 600 GB/s per rack**

- No POSIX Constraints
- Unlimited File System Scalability
- More Efficient Disk I/O
- APIs for Hinting, Whether Issued by App or by Filesystem



# DataDirect<sup>TM</sup>

NETWORKS



Waiting for you on DDN booth!

Merci