

What's the fuss about flash? Stop bluffing and get the facts



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Why are we here?



**Where and how can flash be
deployed?**

On our Regcast today

Phil Hooker HP

James Hall HP

Tony Lock Freeform Dynamics

Tim Phillips The Register

What's happening in storage?

More data is being created and stored

The cost of storage is growing and becoming visible to the business

Storage performance and bottlenecks are now recognised as an issue

Storage skills are scarce and human resources are stretched

Customer challenges

- SLAs are higher
- Performance req increasing
- Capacity growth

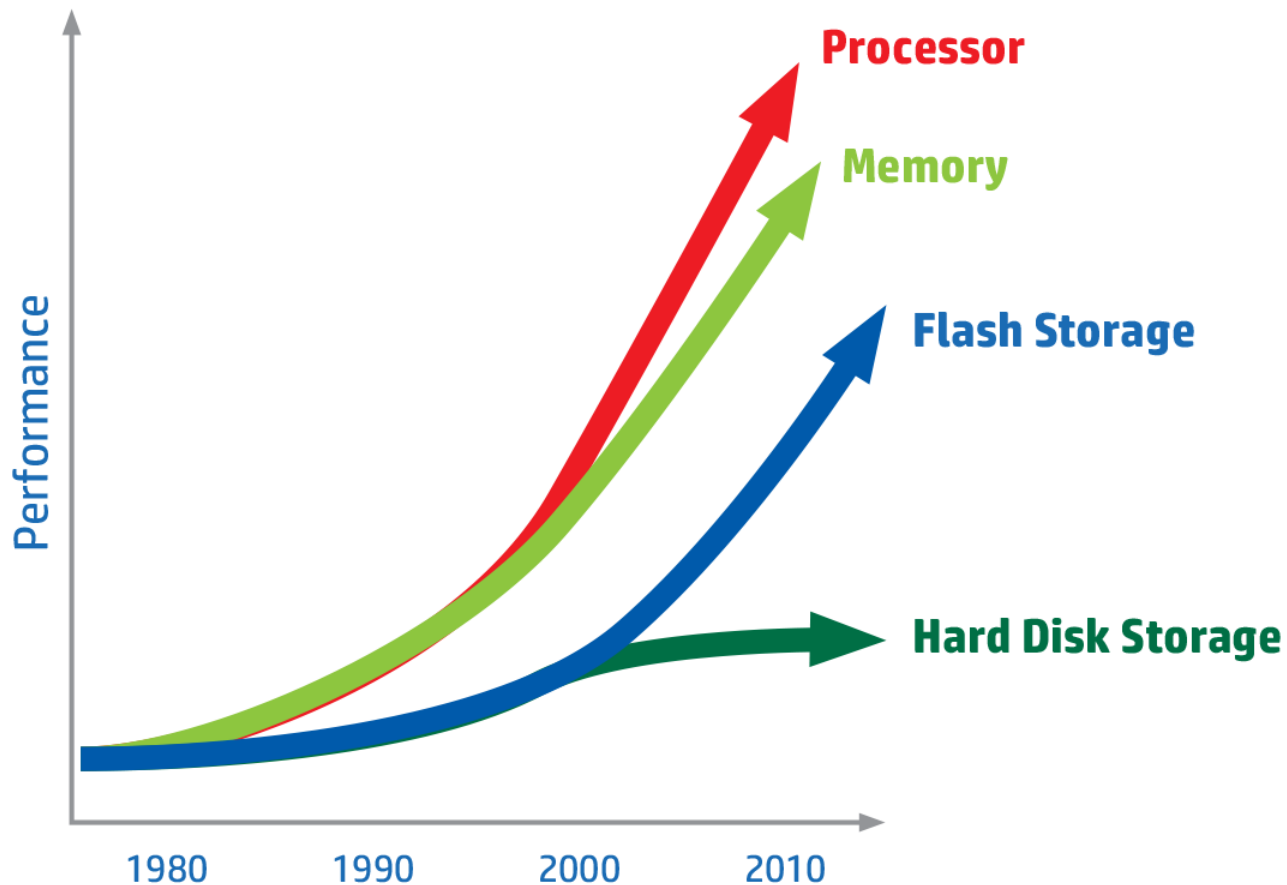
Traditional
Monolithic and
Mid-Tier Storage
technologies are
Decades
out of date

Poor User
Experience

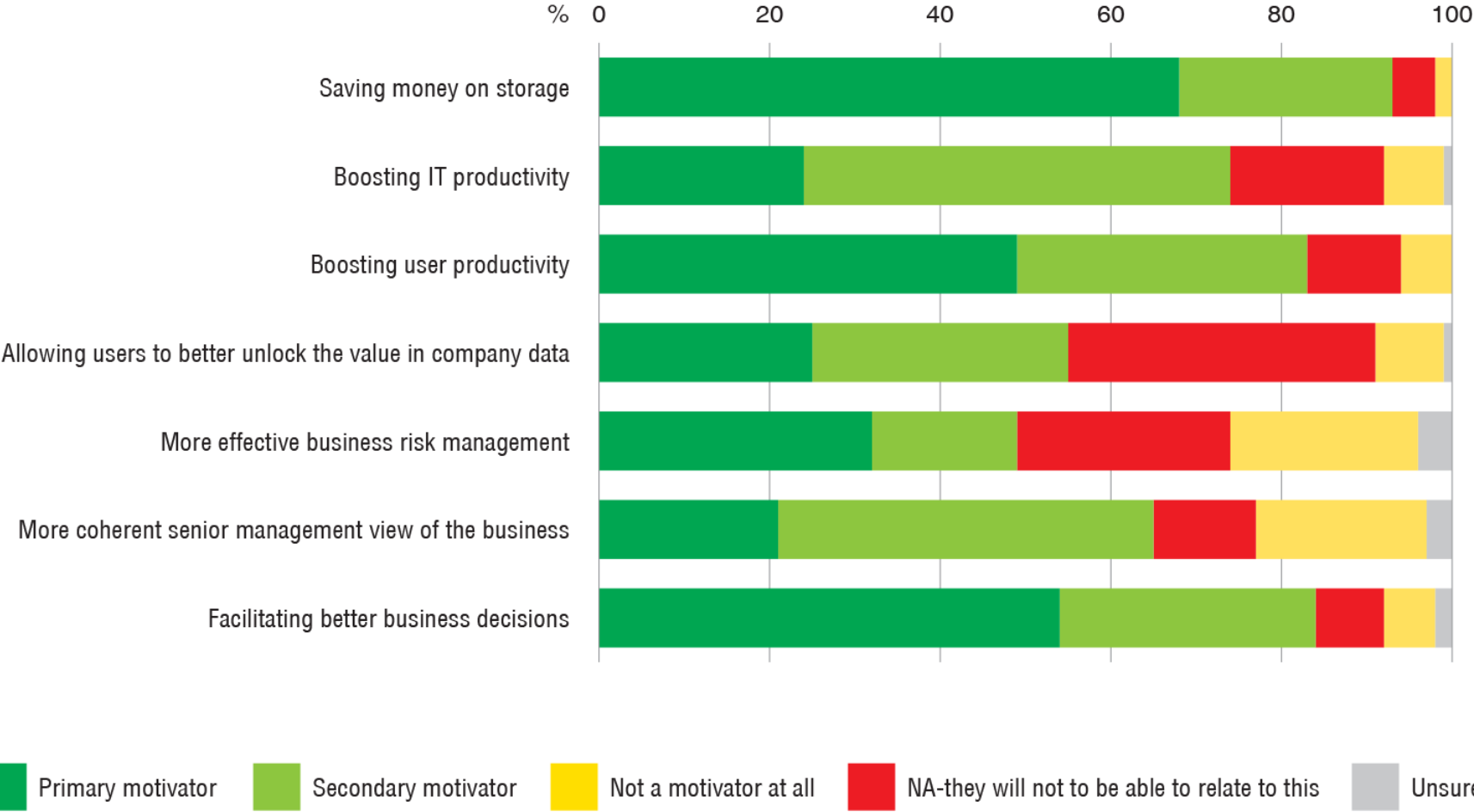
Increased
Cost

Missed
SLAs

What is driving the need for Flash?



Would you consider the following to be drivers for business stakeholders?

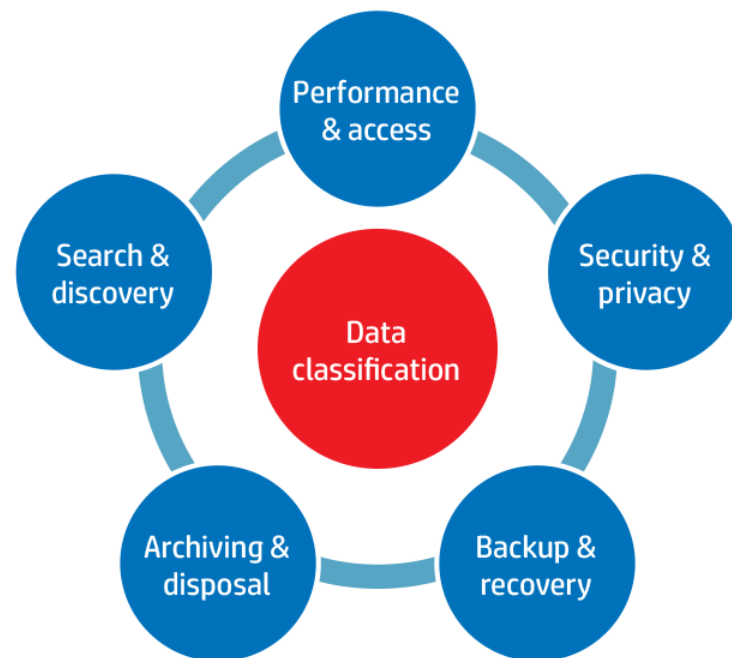


Understand the basics

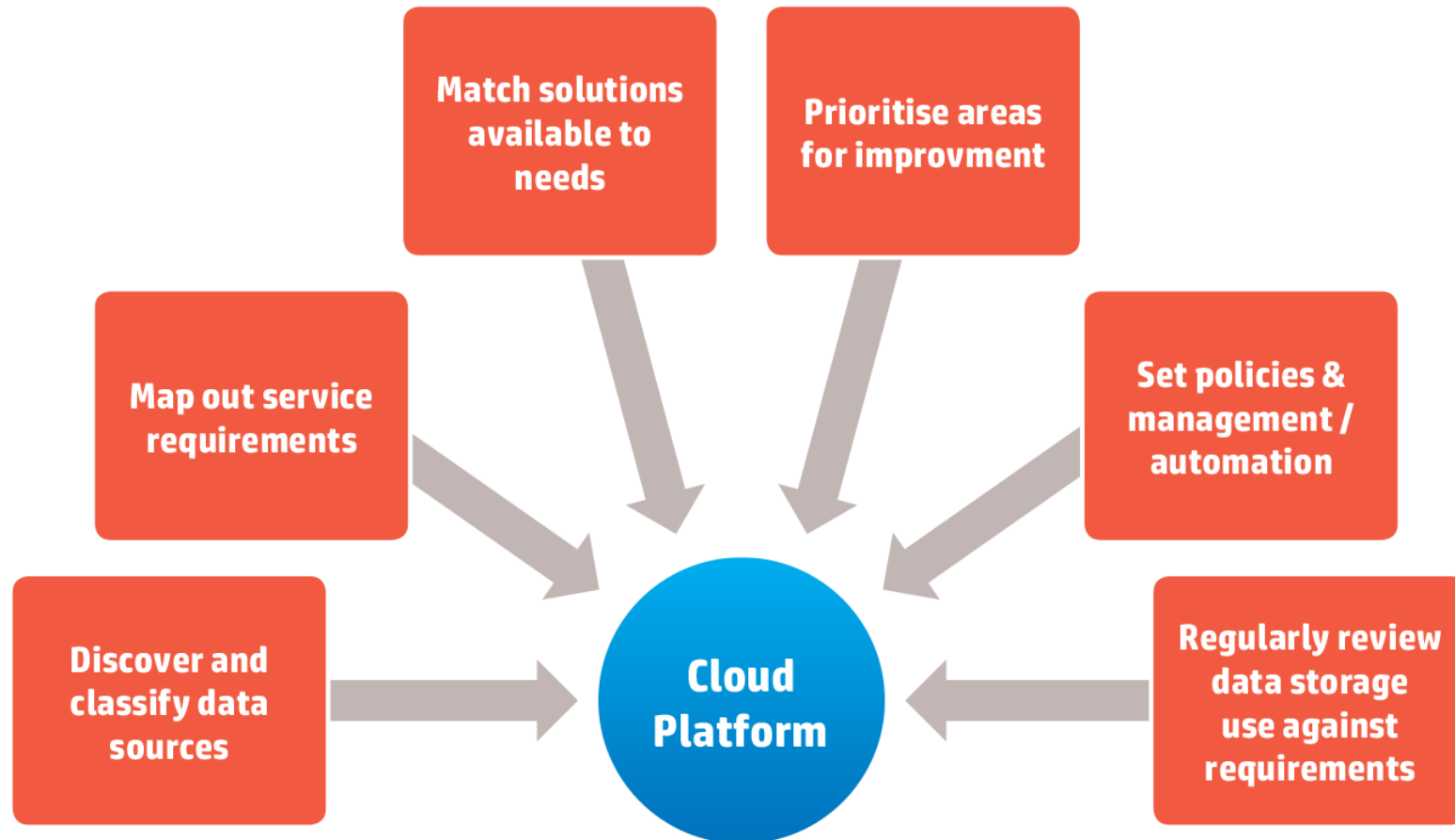


- **Information management needs change over time**
- **Timescales and needs vary by type of data**

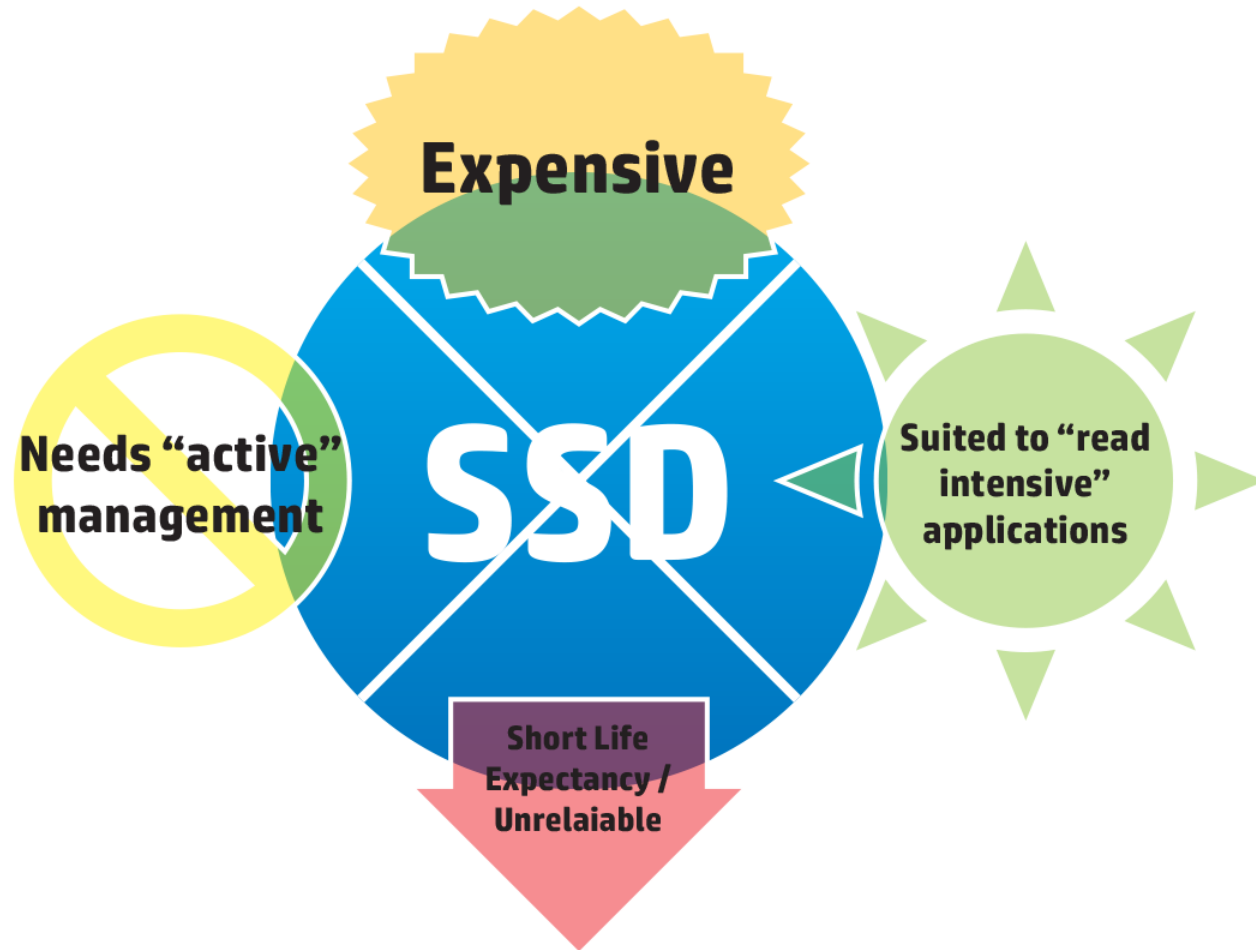
Requirements for policies, processes and tools



Principles of storage deployment



Flash Perceptions



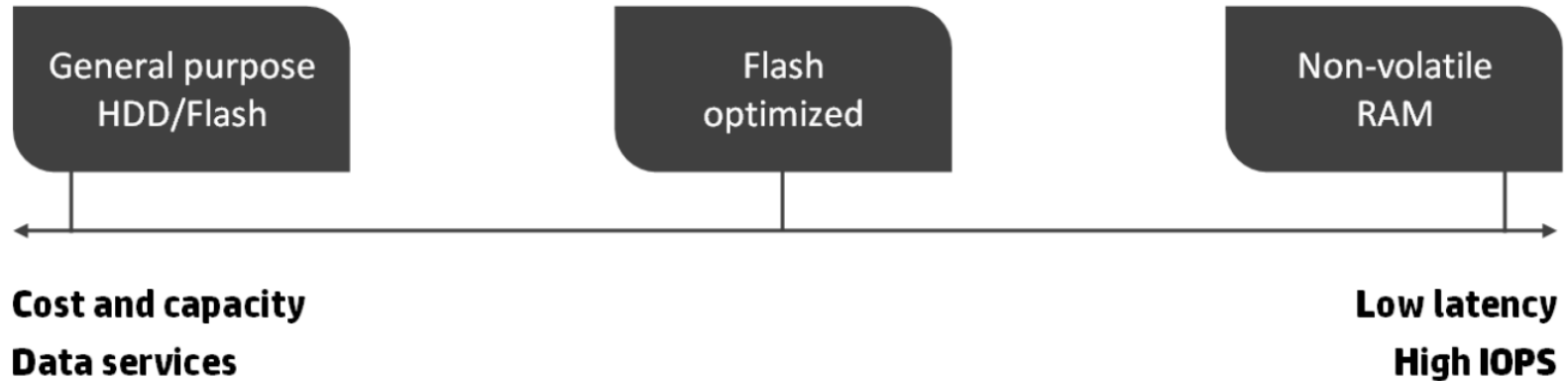
Flash Technologies

SLC Flash High IOPs, High Wear, \$\$\$

MLC Flash Medium / High IOPs, Medium Wear, \$\$

TLC Flash Low IOPS, Low Wear \$

The industry is trying to respond to the new reality



Assessing their architecture readiness?

Hoping to get or have been acquired

Nascent market



Flash Deployment Models

Server Flash Cache

Server Flash

Storage Controller

Storage

All Flash array

Server

Storage Controller

Flash Storage

Tiered Flash array

Server

Storage Controller

Flash Storage
Hard Drive Storage

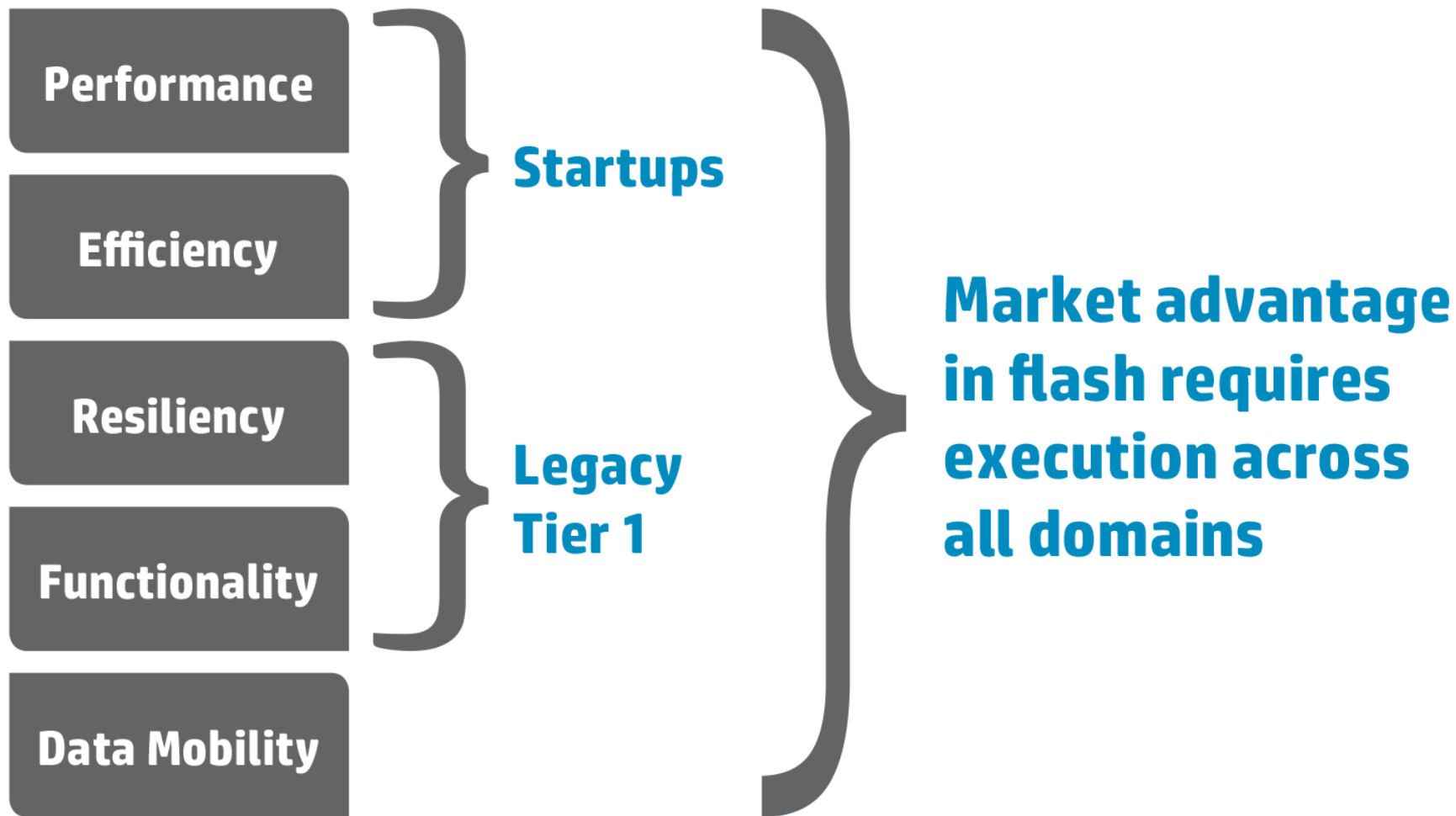
Storage Flash Cache

Server

Storage Controller
Flash

Storage

What are the day 1 design requirements for flash



Flash Use Cases

• All Flash

- Desktop Virtualisation
- Business Critical Databases
- Data Analytics

• Tiered Flash

- Enterprise Applications
- Server Virtualisation

Further reading

What you need to know before deploying flash (Infographic)

<http://bit.ly/15cATNF>

Your guide to choosing the right flash-optimized solution (eBook)

<http://bit.ly/152rUkY>

Understanding flash-based storage use cases and deployment models (eBook)

<http://slidesha.re/15cAXNg>

Data Centre Evolution (Analyst report)

<http://bit.ly/175qFNX>

A Vision for the data Centre (Analyst report)

<http://bit.ly/YlhMLS>

Thanks for joining us



An archived version of today's events will be made available on The Register in the near future.
