



A DC that takes care of itself

Can you build it, do you want it?



Why are we here?

- Here's how to build, maintain and manage a data centre for better lifetime management.

On our Regcast today

Peter Mansell HP

Tony Lock FFD

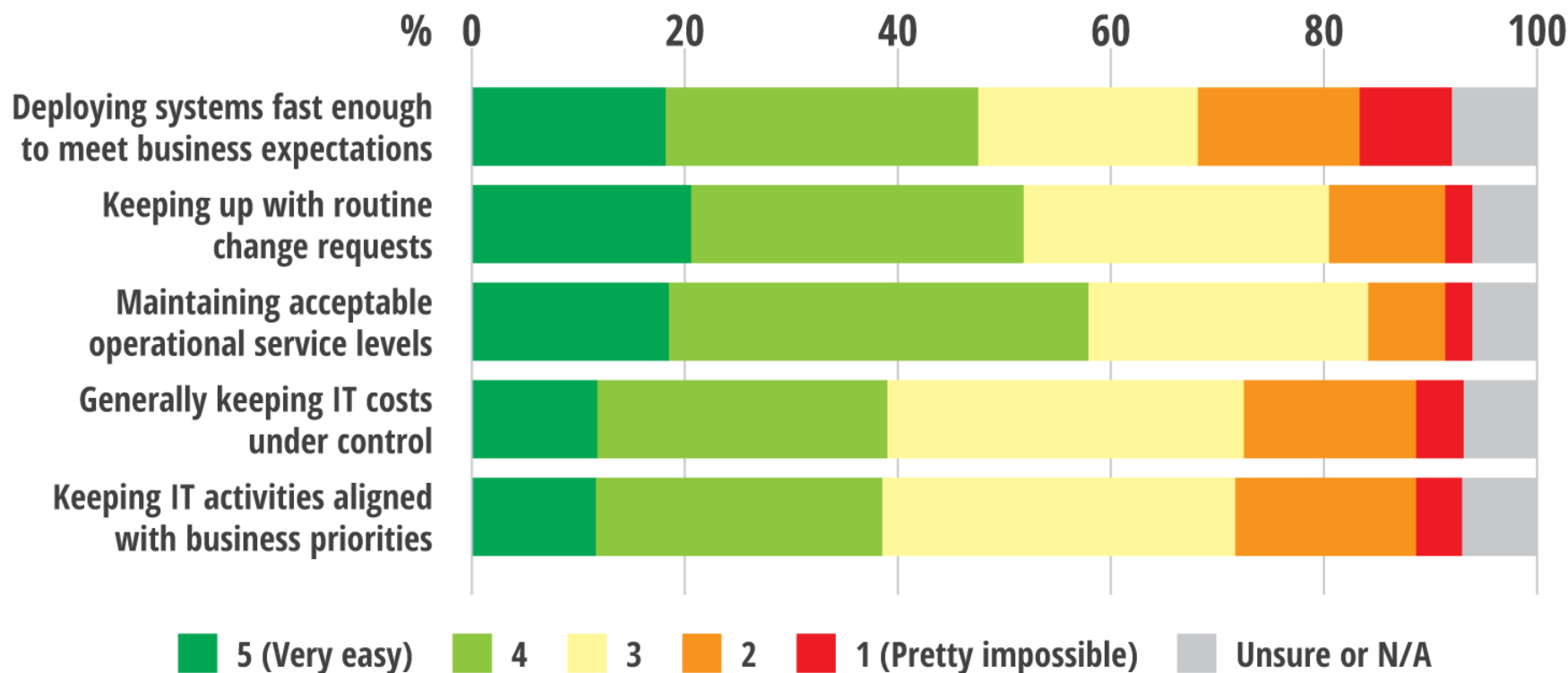
Tim Phillips MC

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The IT report card

Generally speaking, how easy or hard are the following in your environment?



- Only 1 in 4 organisations deliver acceptably across all key areas
 - Business alignment, responsiveness, service level management and cost control
- Business expectations are rising

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Fragmentation and disjoints

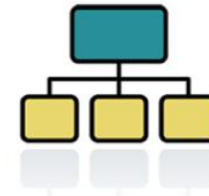
- **Systems**

- Rigid dedicated stacks



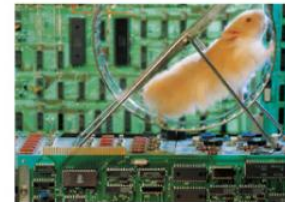
- **Teams, processes & tools**

- Server, storage, networking, applications, security



- **Funding and governance**

- Departmental budgeting, ownership and accounting



Where did we start?



Manual operations cost companies on average **\$24 million** over three years.



Manual facility optimization drives up energy costs up to \$29 million over three years.



Unplanned downtime cost clients approximately **\$10 million an hour**.

51%
of server
outages
are tied
to human
error

IT and operations capabilities - "Perfect Vision"

Have a consistent/joined-up way of managing security and access across in-house and hosted systems

Have a consistent/joined-up way of managing and protecting data across in-house and hosted systems

Ability to take a unified approach to operations and management across servers, storage, networking, security, etc.

Automation would mean that shared resource usage was continually optimised as demands fluctuate, with no human intervention

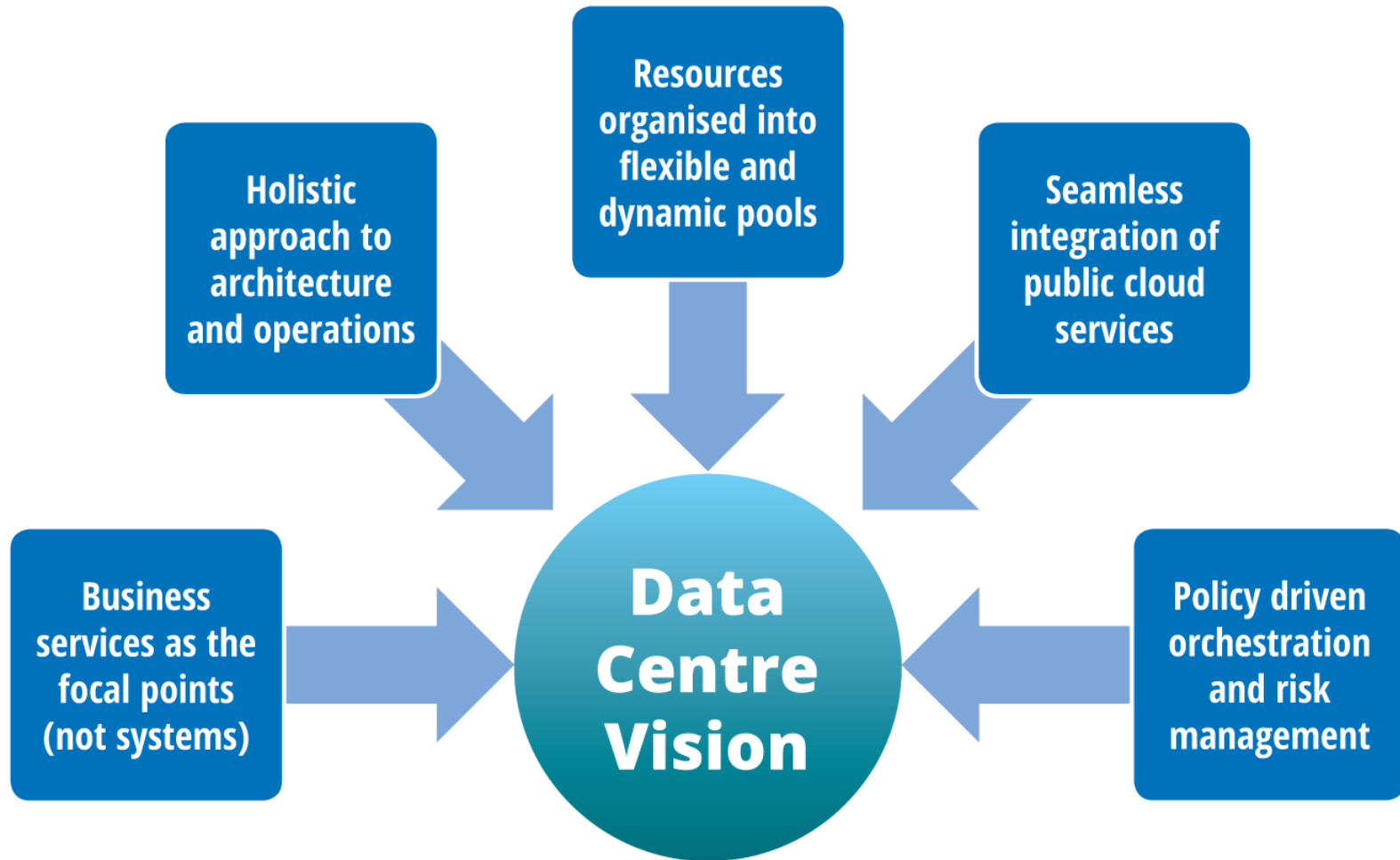
Ability to provision workloads and new systems capacity on our private clouds with a few clicks

Hybrid cloud management would allow us to take an agnostic view of resources, mixing internal and external capacity freely

Have end-to-end visibility across on-premise and hosted systems for management and troubleshooting purposes

Ability to migrate applications and workloads back and forth between public and private clouds with ease

Imagine...



Integrated Lifecycle Automation

Servers that Virtually take care of themselves

Intelligent Provisioning

3 seconds to display early video

100% software built in

3x faster system deployment

HP Smart Update Manager (SUM)

Sequence, Schedule, & Stage firmware & driver updates

69% less operator time during updates

93% less downtime during online updates

HP Active Health

24/7 system log

1600+ parameters monitored

5x faster problem resolution

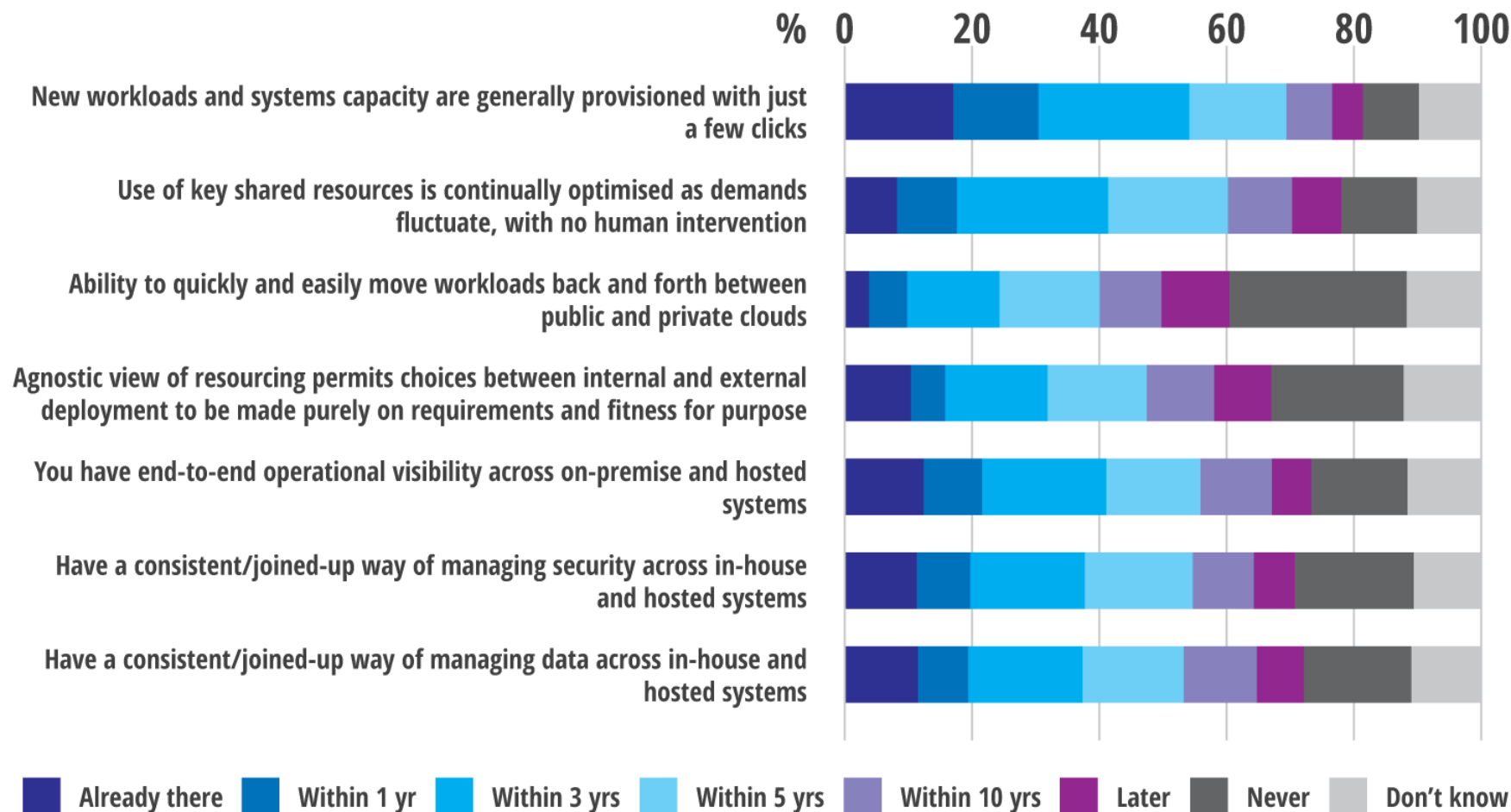


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Operations & Management – when will the vision be achieved?



Proactive Service and Support

Converging servers with the service experience

Insight Online Portal

Proactive Support Services

ServiceONE



Industry's first cloud-based portal: anywhere/anytime access

Personalized, comprehensive, secure

90% less time to initiate & receive support

24/7 monitoring with Insight Remote Support

Innovative services based on system intelligence

Single Point of Contact within HP

Secure Access to Active Health & Insight Remote Support

Local expertise backed by HP's global resources




¹HP Insight Remote-initiated cases (HW) vs. traditional phone support (HP internal call center data, Q4'11)

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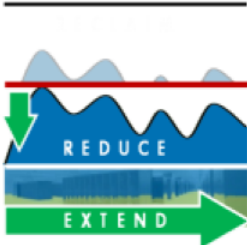



Improvements to reporting

HP iLO Management Engine	Insight Control	Insight Online
		
On System	On Premise	Online
New generation of iLO, provisioning, monitoring, and remote support	Managing deployment, health, energy, and remote control from an HP, MSFT or VMware CMS	Cloud-based access to personalized dashboard, with service & support tracking, and warranty & contract management

Insight Control 7.0

Break-through enhancements introduced with ProLiant Gen8

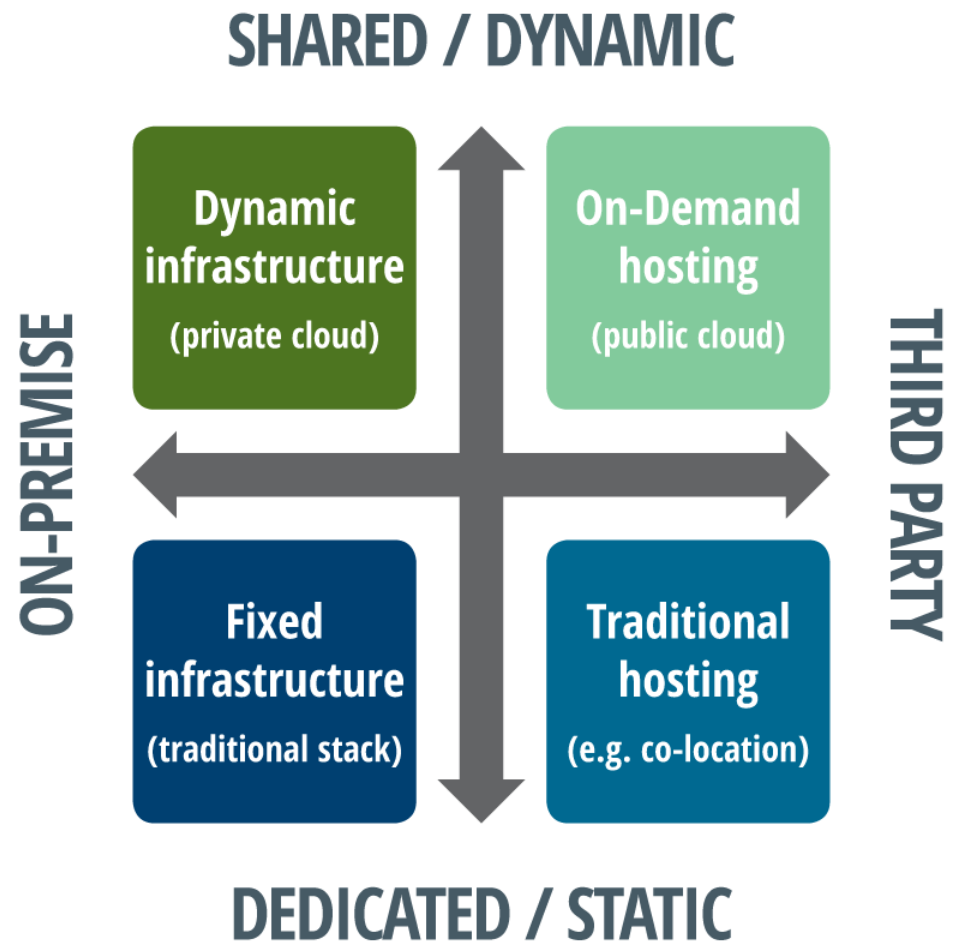
Deploy & Migrate	Health & Alerting	Energy	Integration
			
<p>Server migrations over iSCSI, FCoE, and Linux/SAN</p>	<p>Automated health monitoring, and firmware updates with baselines</p>	<p>Manage power across blade enclosures, Intelligent Power Discovery extended to BladeSystem</p>	<p>New, easy-to-use vCenter UI plug-in, plus Linux & VMware health monitoring from Microsoft System Center</p>

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A hybrid world

- Workloads in each quadrant
- Multiple architectures in each quadrant
- Migration, integration, and cross-over between quadrants
- Complexity will persist for the foreseeable future
- Agnostic sourcing and placement is the goal



Further reading

HP

- CloudSystem Solutions
bit.ly/1Ozi7jk
- HP ProLiant Servers
bit.ly/WdB5oL
- HP ProLiant Gen 8 Whitepapers
bit.ly/VluvhV
- HP Cloud Infrastructure Zone
bit.ly/WOkhE5

Freeform Dynamics

- From virtualisation to private Cloud
bit.ly/V1lx4Z
- The links between public and private cloud
bit.ly/Wm5iXj
- IT and operations capabilities – “Perfect Vision” - Research stats
bit.ly/Us1QXb

Thanks for joining us



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