

Practical Examples of Red Hat Consulting Projects

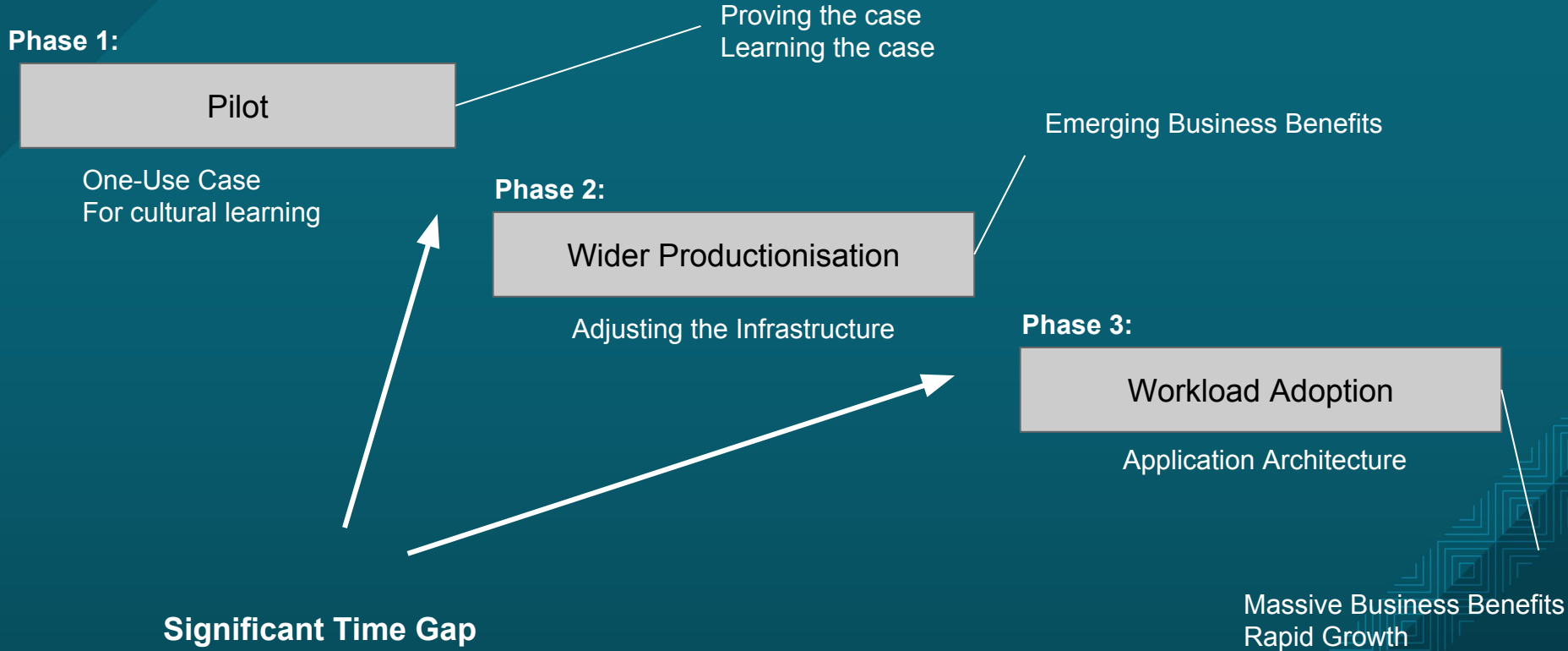
What we have learnt implementing DevOps

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The Journey

- Red Hat Consulting has been on the DevOps implementation journey with customers for three years.
- We base our consulting efforts on the Open Container Platform - OpenShift.
- All customers are different but a distinct pattern has emerged that seems to be applicable almost everywhere.
- In response Red Hat has developed new consulting offerings to help customers with these challenges.

The OpenShift Pattern

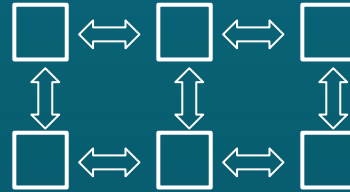
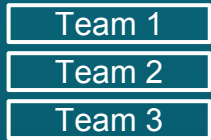


Time to Market
Upgradability
Scalability
High-Availability

Single Services Upgrades
Component Scaling
Segmented Product Packaging
Component Level HA

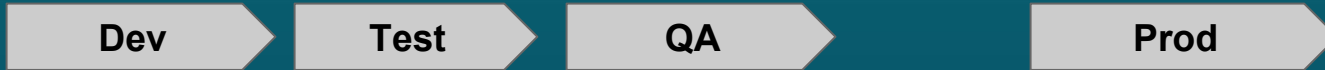
New Functionality Fast
Shorter Development Cycles
Integrated Dev and Ops

Application Layer

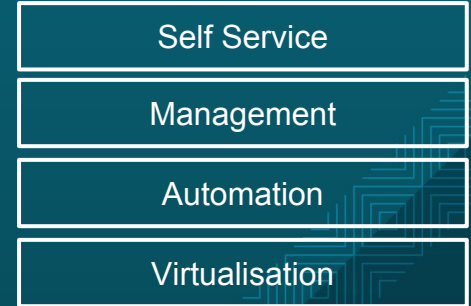
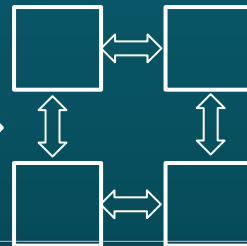


Reference Architecture for Use-case driven adoption of mode 2 applications.

Technology and Tools Layer



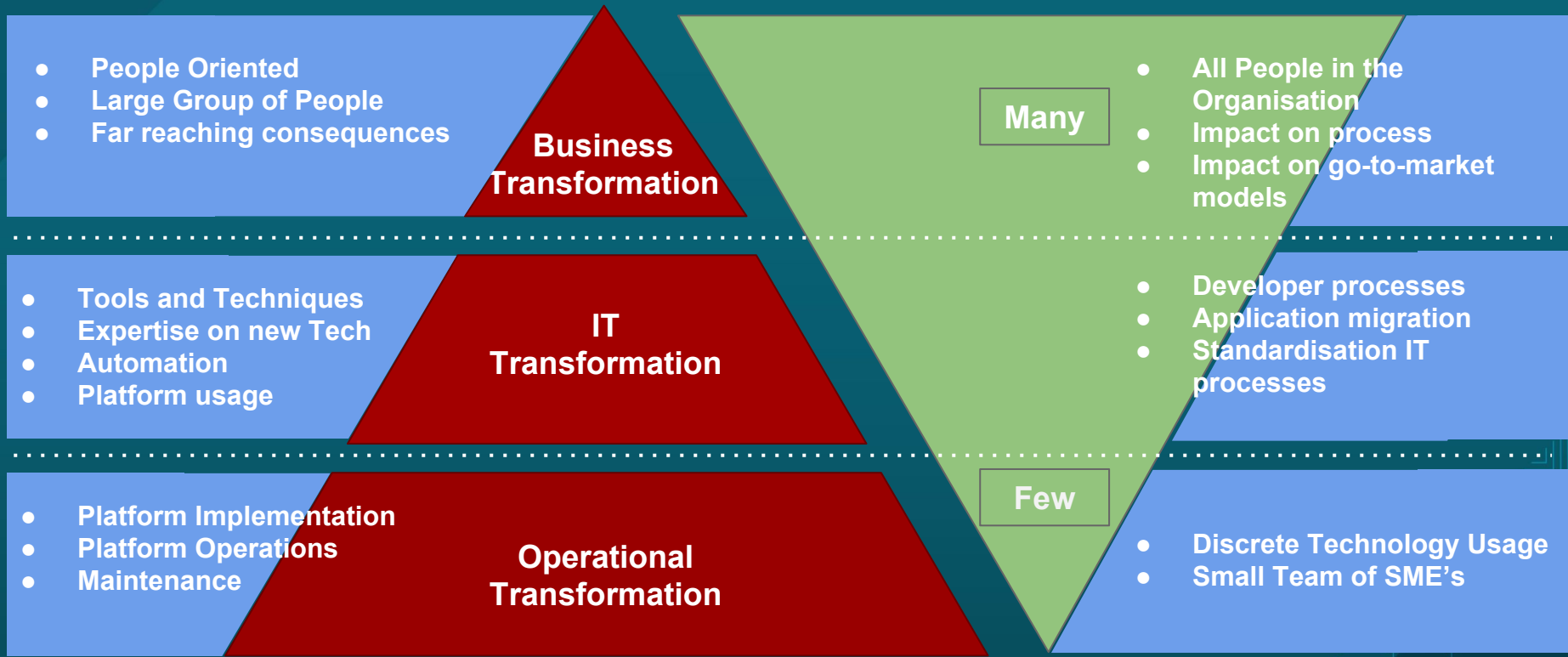
Containers



Cloud Reference Architecture

Complexities of Digitalisation Implementations

People impact

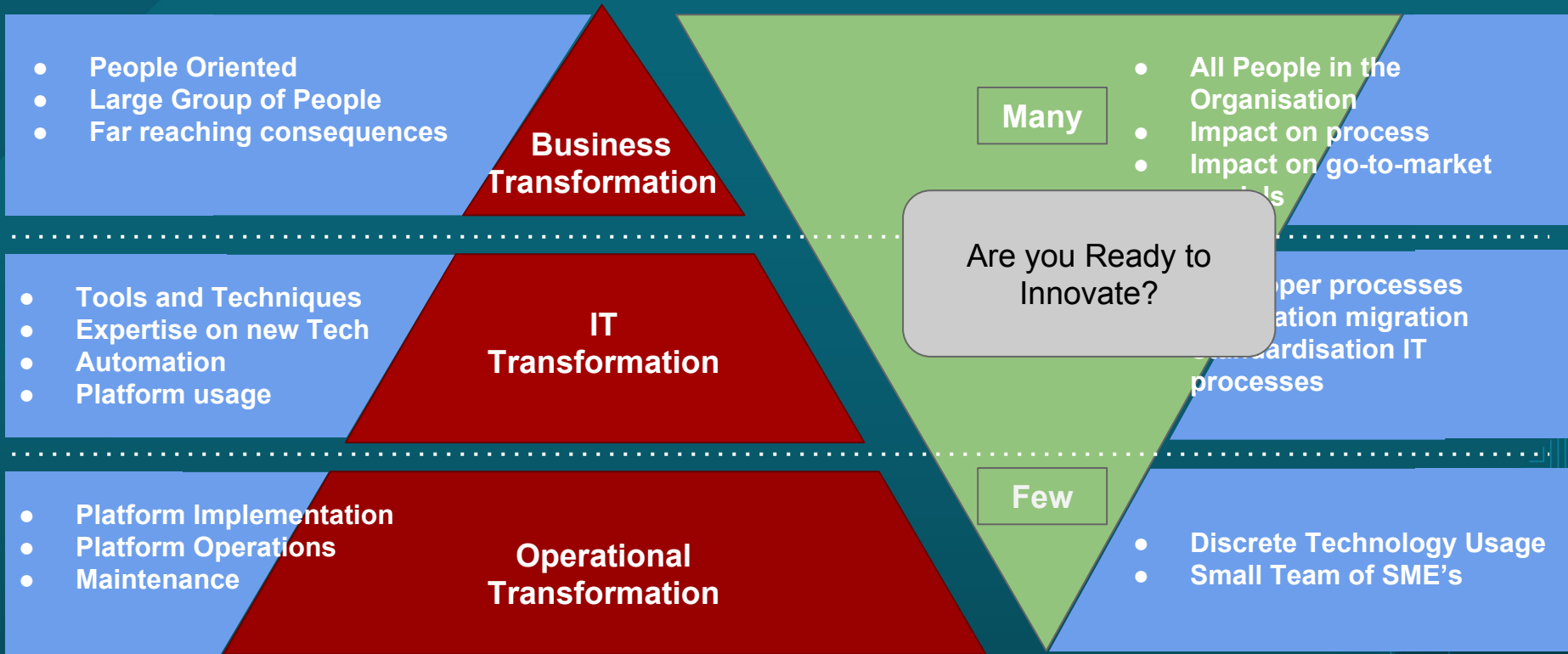


Experienced Phenomena

- Finance: Separation of Duties
- Introducing OpenShift with separated teams
- Network Security: can we monitor traffic between containers?
- Will this work in the cloud?
- The pilot was easy, doesn't mean it will work in "real" production.
- We have DevOps but we need to raise a ticket to go to production.
- We have established an offering for the business, but we don't know what to call it.
- Our pilot has reached production, but no applications want to risk moving onto the unknown.
- Our pilot has reached production and all works great. But we have yet to establish an strategy on DevOps and can't move on.
- Common initial use-case is testing.

Complexities of Digitalisation Implementations

People impact



Ready to Innovate

5 areas of assessment - Relevant for Development and Operations

Automation - How mature is your approach to automation?

Methodology - How do you run your projects?

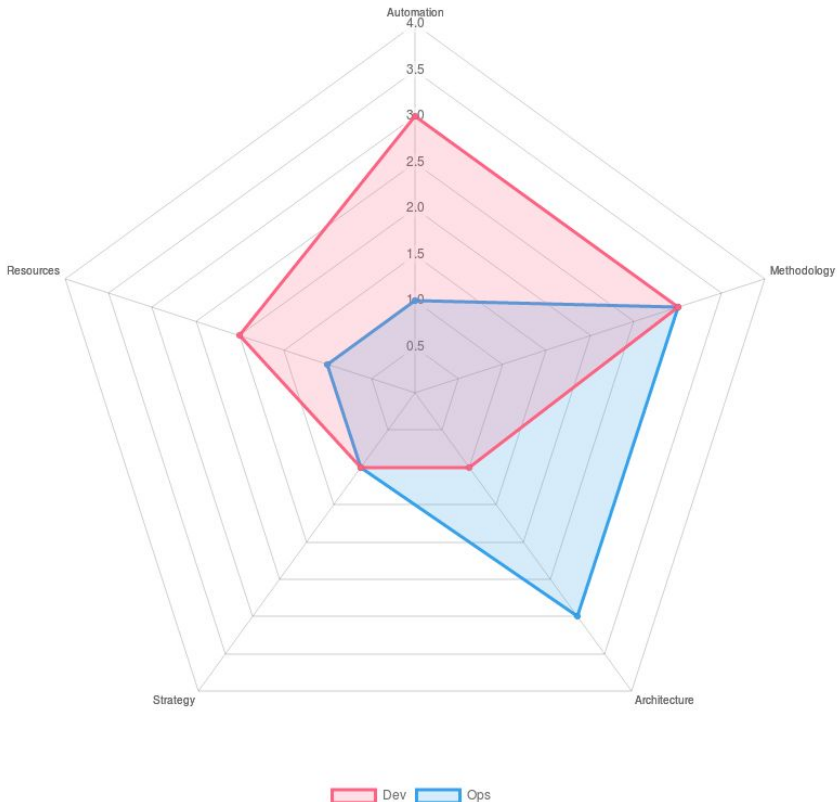
Architecture - How do you shape your technology/development?

Strategy - How aspirational is DevOps within your Organisation?

Environment - Sampling the Culture....

Ready to Innovate Assessment for Company A Inc

DevOps Chart - Company A Inc



Area	Development Rating	Operations Rating
Automation	3 - CD Pipelines capable of pushing to production	1 - Basic (manual) provisioning
Methodology	3 - Agile development through to production & ops	3 - SOE
Architecture	1 - Selected vendor tech roadmap	3 - Primary focus on new applications
Strategy	1 - Mature requirements gathering approach (e.g. Agile user stories)	1 - Good functioning service operations (i.e. few unscheduled outage, but slow to deploy)
Resources	2 - Extended team collaboration. Common DevOps skills	1 - Direct VM interaction, limited scripting

Analysis of Results	Recommendations
Overall, the Dev team are slightly more mature than the Ops team.	Re-balance the maturity levels between teams
The Ops team would benefit from better use of automation techniques.	SOE/CII Workshop (Link)
The overall strategy awareness is low although both teams have the same level of maturity	Innovation Lab
The overall methodology score is good and both teams have the same level of maturity.	None
The overall skills rating for Resources is average although the Development team are more mature than the Operations team.	Red Hat Certification (RHCE) for Operations team
Increase methodology and strategy through increased use of Open Source software	OSEP Workshop

Proposed Workshops
Adaptive SOE
Open Innovation Lab Workshop
Open Source Enablement Workshop



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