

HOW CONTAINERS DRIVE APPLICATION MODERNIZATION IN THE PUBLIC SECTOR

PUBLIC SECTOR IT MODERNIZATION: CURRENT STATE

With over \$7B+ technical debt, public sector organizations are being driven to modernize their IT by:



The public sector uses virtual machines widely, but suffers from:



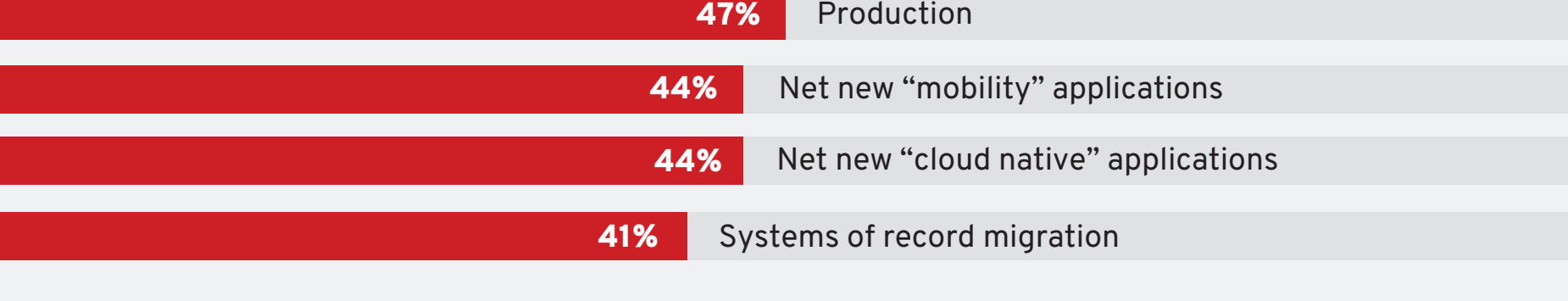
HOW CONTAINERS HELP

Container environments offer the public sector:



- #1** CONTAINER ADOPTION RANKED #1 AMONG 44% IT PUBLIC SECTOR LEADERS (16% INCREASE FROM 2017)
- 2X-3X** A SINGLE CONTAINERIZED SERVER CAN HAVE 2X - 3X THE NUMBER OF APPLICATIONS THAN A NORMAL VM
- SOME U.S. STATES (LIKE NC) HAVE CREATED INNOVATION CENTERS FOCUSED ON ELEVATING PUBLIC IT (LIKE WITH CONTAINER PLATFORMS)**

For which of the following do IT decision makers use containers today?

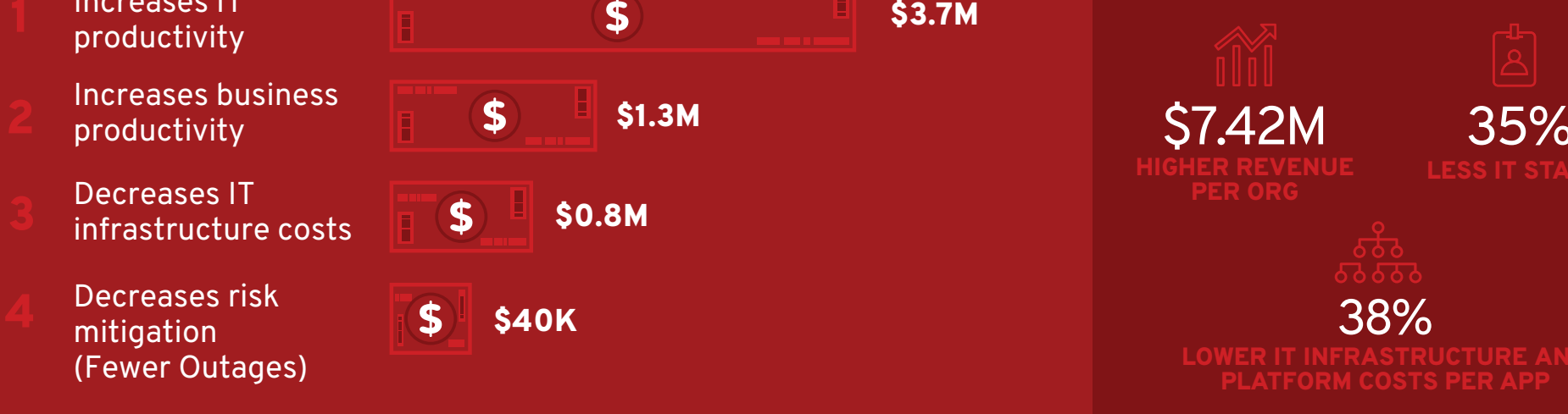


Base: 195 US and European manager+ IT decision makers responsible for public/private cloud decisions at enterprises that have adopted containers (percentages reflect only respondents who have deployed each type of application) Source: A commissioned study conducted by Forrester Consulting on behalf of Dell EMC, Intel, and Red Hat, January 2017

HOW ARE CONTAINERS FUELING TRANSFORMATION IN THE PUBLIC SECTOR?

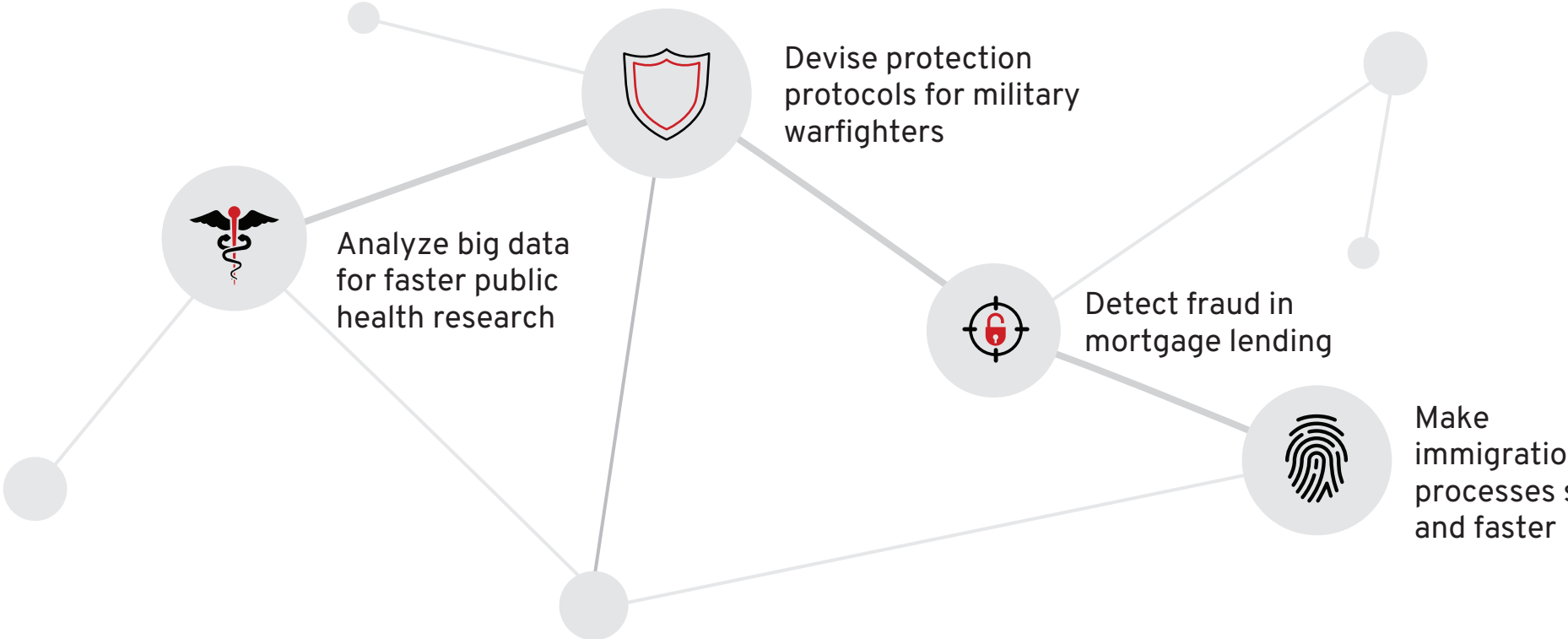


Containers achieve government application development agility, scalability and quality*



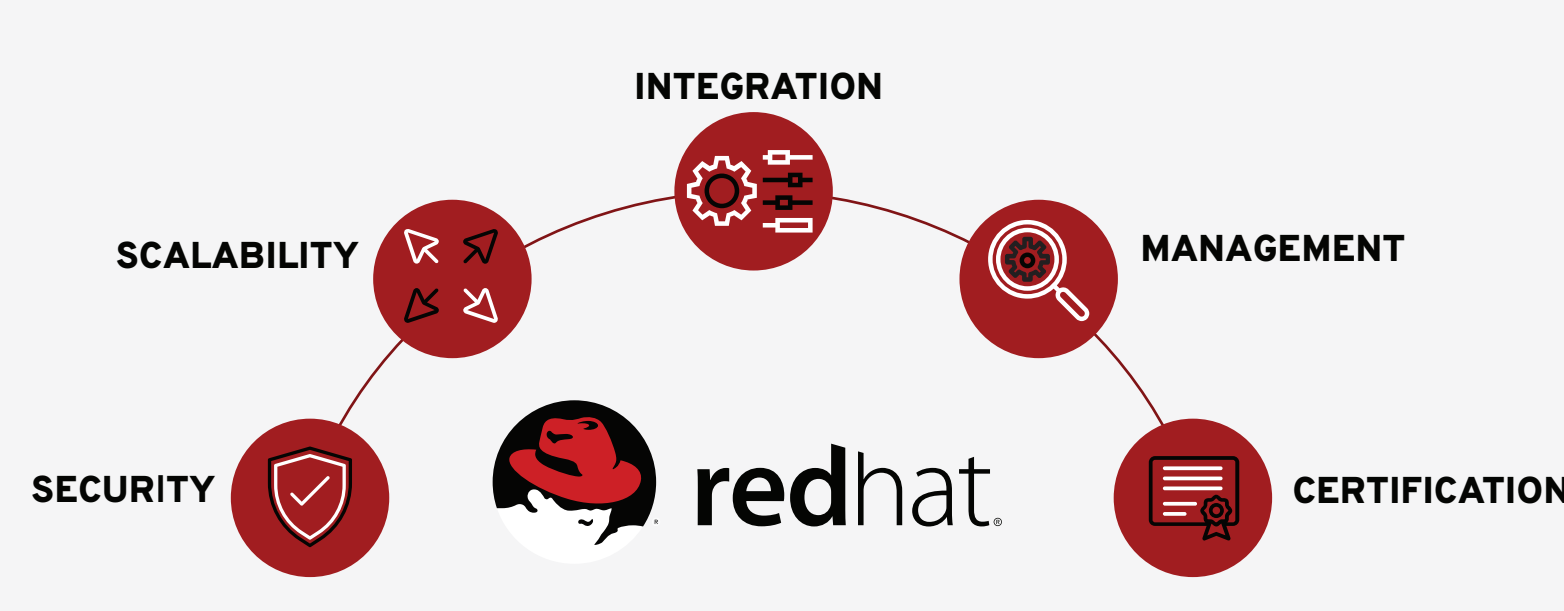
THE GOVERNMENT OF BRITISH COLUMBIA, CANADA, REDUCED SECURE APPLICATION DEPLOYMENT FROM MONTHS DOWN TO HOURS USING RED HAT OPENSIFT

PUBLIC SECTOR USES OF CONTAINER PLATFORMS TODAY



- RAPID FEDERAL AGENCY CONTAINER ENVIRONMENT USAGE PROMPTED NIST TO CREATE A CONTAINER SECURITY GUIDE (SPECIAL PUBLICATION 800-190) TO ESTABLISH COMMON BEST PRACTICES**
- SOME UNIVERSITIES HAVE CONSOLIDATED OVER 100 VMS DOWN TO AS FEW AS 5 SERVERS, SIMPLIFYING AND SHORTENING APPLICATION RELEASE CYCLES**

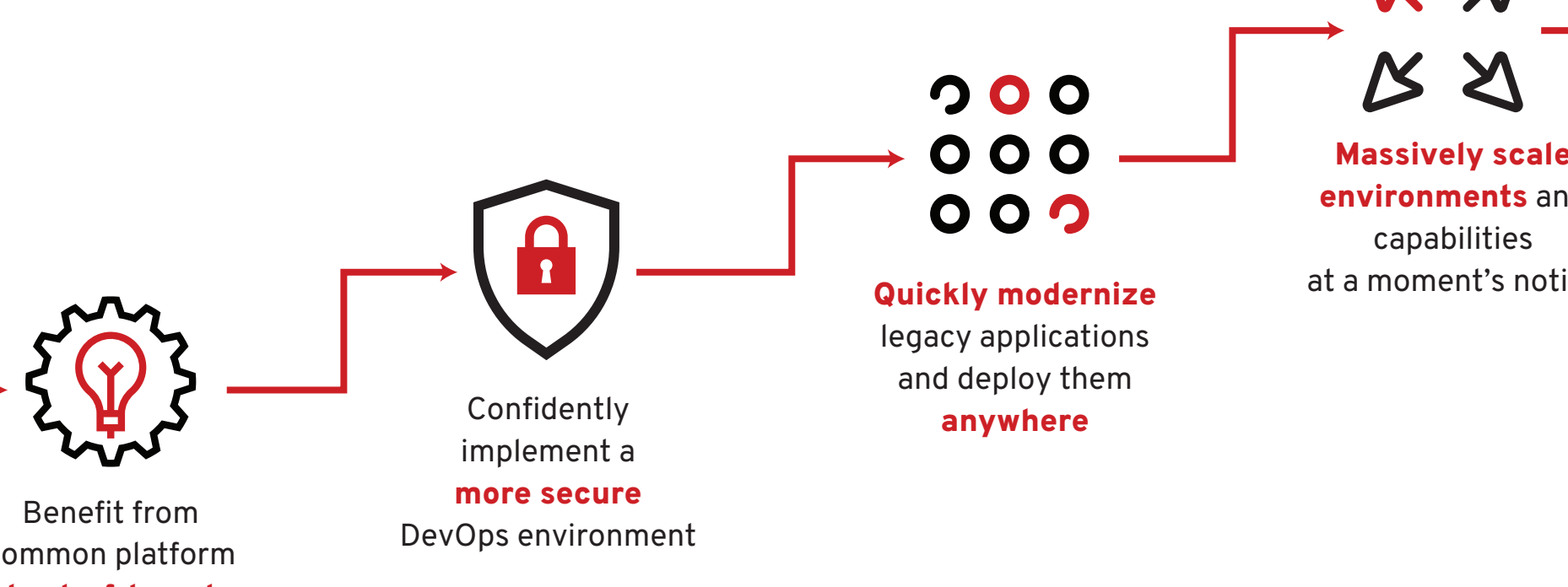
WHY RED HAT OPENSIFT FOR PUBLIC SECTOR?



OpenShift-friendly container code frameworks and workload solutions include:

- 3Scale APICast Java Jenkins mongoDB node python Ruby Red Hat JBoss A-MQ
- 6fusion AviNetworks Cisco Click2Cloud EnterpriseDB Confluent
- CloudBees Cloudmunch CoScale Fujitsu Limited MongoDB Databricks
- GitLab Dynatrace F5 Juniper Networks Atlassian Sysdig
- Navops by Univa Hitachi, Ltd. Iron.io Nuage Networks from Nokia Sonatype Roambee/T-Systems
- Pachyderm NetApp NGINX Tremolo Security, Inc. Elastic NVIDIA

Using Red Hat OpenShift container platform, government agencies and departments can:



*Source: https://www.redhat.com/en/resources/The-Business-Value-of-Red-Hat-OpenShift