

ECONOMIC ADVANTAGES OF VIRTUALIZING THE RAN IN MOBILE OPERATORS' INFRASTRUCTURES

RED HAT PARTNERED WITH ACG RESEARCH TO APPLY BUSINESS ANALYTICS TO THE DEPLOYMENT OF VIRTUALIZED RAN INFRASTRUCTURE.



66%
Faster to market/revenue

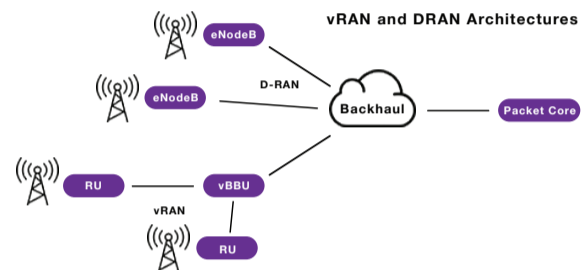


25%
More productive

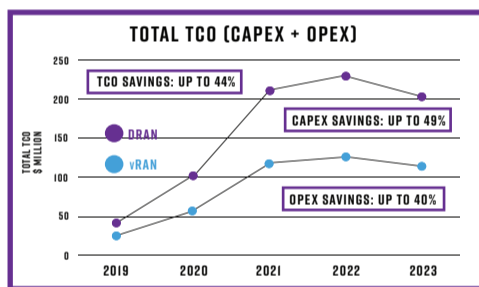


44%
Lower TCO than conventional distributed RAN deployments

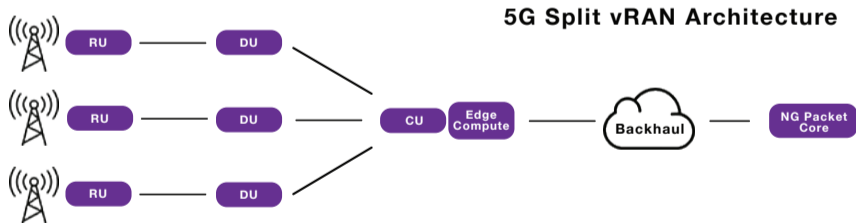
This analysis compared TCO of a virtualized RAN to conventionally distributed RAN(DRAN) that places physical components at each radio site



Economic Advantages of Using vRAN Configurations in 4G Deployments



Applied the ACG Business Analytics Engine to model the vRAN environment of a mobile operator with 12000 cell sites
Traffic growth across urban, suburban and rural customers over 5 years expanded to an additional 11000 cell sites



30%
LOWER TCO THAN VERTICAL SILO DEPLOYMENTS

Using the same horizontal infrastructure in both 5G Core and Edge will allow operators to extend TCO benefits they gain in horizontal designs in the Core throughout their network

Red Hat's supported open source solutions for Telco cloud deployments compared with do-it-yourself approaches have shown improved TCO advantages of up to **35%**

Service providers must decide whether to begin virtualization in the growth of the 4G/LTE environment and when to adopt and expand these designs in their 5G architecture