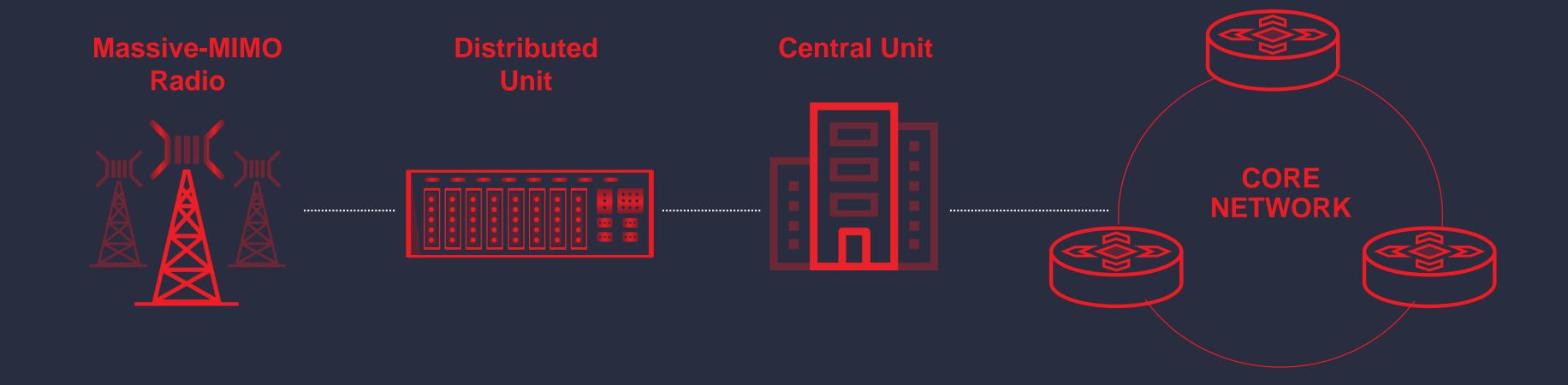
Xilinx Disruptive Technology in 5G



5G Radio's Start With RF

Xilinx RF Integration History

2017

First ZU+ RFSoC Shipped 2018

First 5G Radio
Deployment with
RFSoC

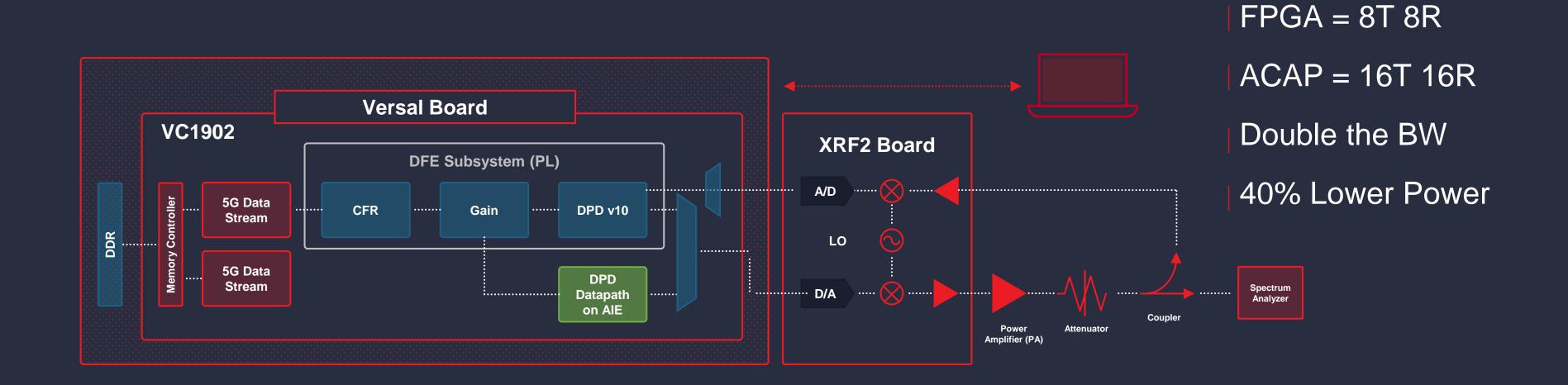
The state of the s

Multiple 5G Radio
Deployments Underway with
Xilinx Zynq US+ RFSoC

2012

First RF Test Chips

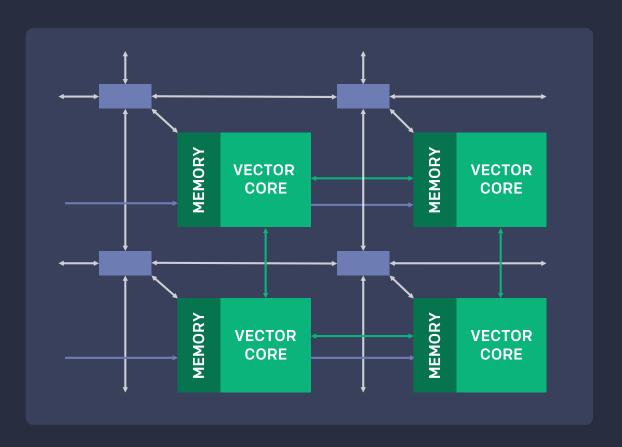
5G Digital Front End Evolution in 7nm



Spectral Re-Use with Beamforming

- | Beamforming is Computationally Expensive
- | High-Density Vector Math Needed

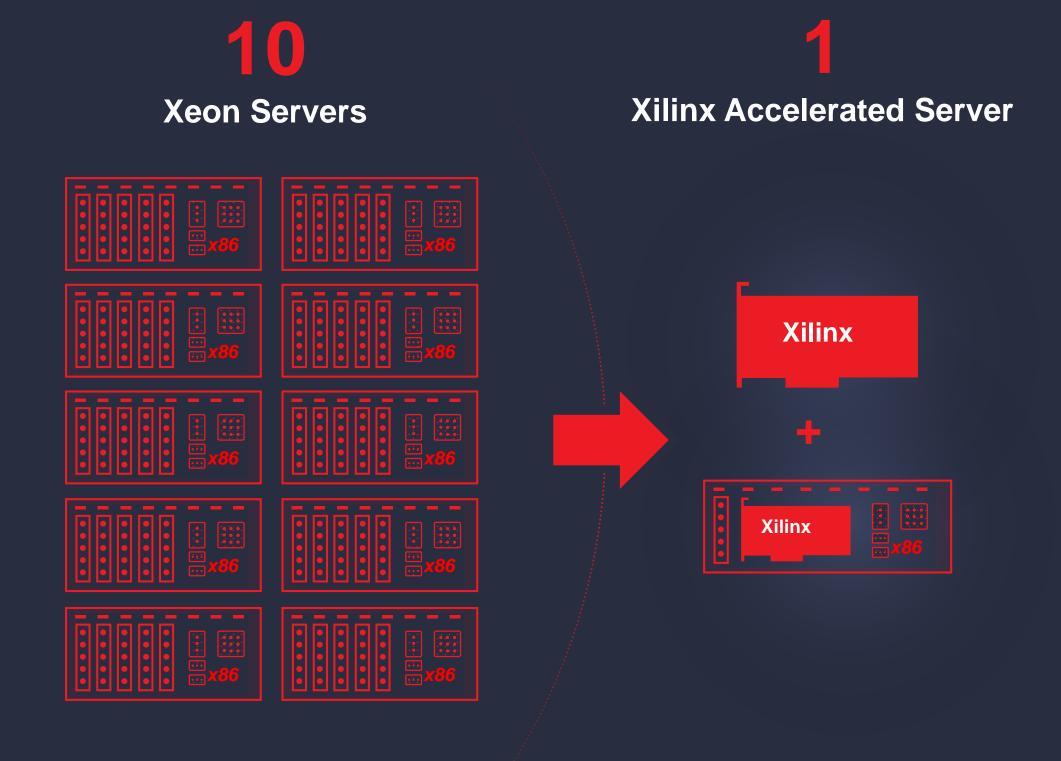




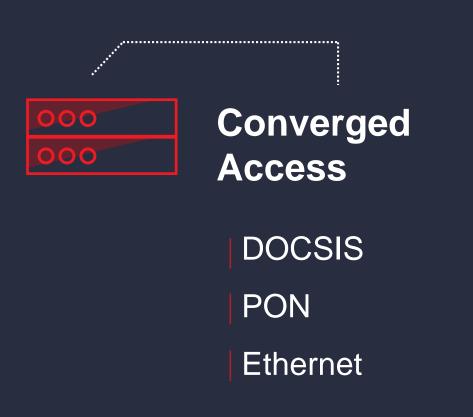
Al Engines = 4x Vector Compute for 5G vs. FPGA

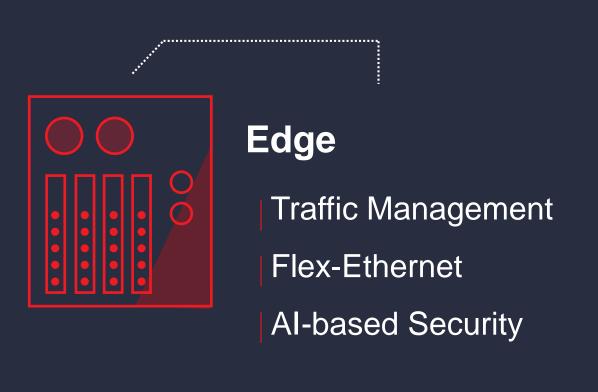
Telco Virtual BBU Acceleration Cards

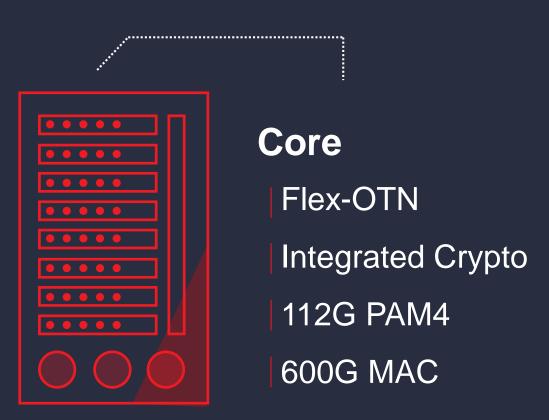
- 10x CPU Efficiency With L1 Offload
- Reference Design Today:
- LDPC = 4x faster with FPGA
- HARQ = 3x faster with FPGA
- 2–3x more users per cell
- Single Server with Xilinx Accelerator Card replaces 10 XEON Commodity Servers!



Core Networks are our Core Strength









Nathan Jachimiec

Keysight Labs

Versal is here!

Vitis is here!

...Now It's Your Turn

XDF 2019

