Liqid Sustainability Overview

The Problem: Massive Inefficiency in the Data Center

Datacenter Footprint Growth

500k Datacenters in 2012 ➡ 8MM+ Datacenters Today
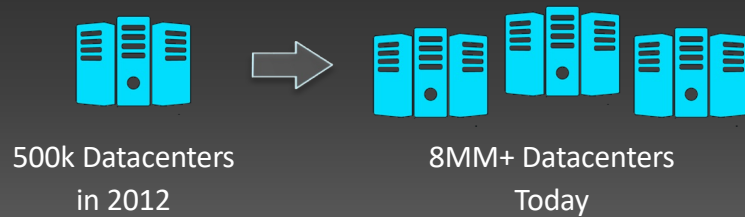
Increasing Power Needs

20%
of the world's electricity by 2025

Massive Amounts of Energy and Water Consumption
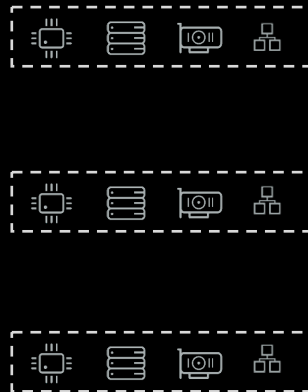
1MW
Power Consumption

➡

8.5 Gallons
Water Consumption Per Year

- Data center footprint has grown 15x in 20 years

- 20% of global energy will be consumed by data centers by 2025

- Data centers consume 8.5M gallons of water be MW per year

- We must find ways to improve data center power efficiency

- Big impact to efficiency if utilization rates of high-power devices

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Composable Enables Dynamic Datacenters

Legacy Infrastructure

Modern Infrastructure

Static Servers

Disaggregated Resource Pools
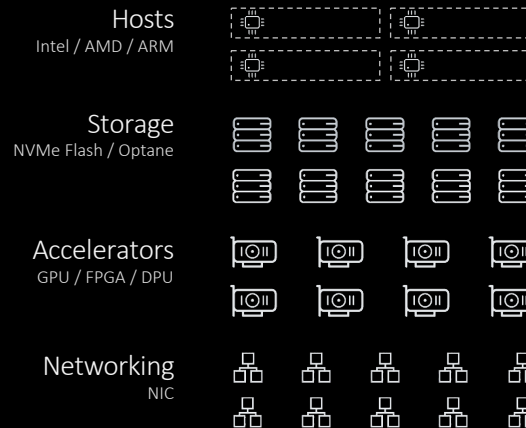
Dynamically Configured Servers

Hosts
Intel / AMD / ARM

Storage
NVMe Flash / Optane

Accelerators
GPU / FPGA / DPU

Networking
NIC

LIQID MATRIX

Composable Software
& Fabric

Statically Configured

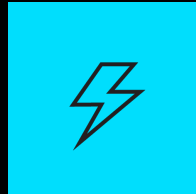**Dynamically Configurable**

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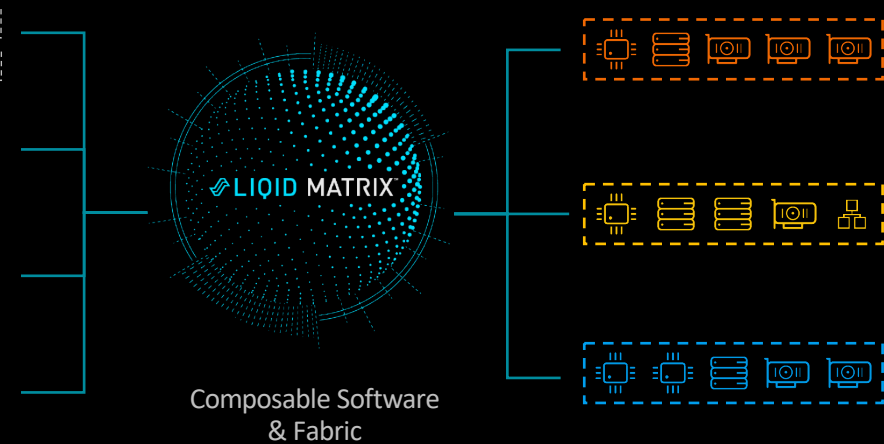
Benefits of Composable

Reduced Infrastructure

Lower Power Consumption

Extend Product Life Cycle
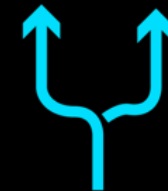
2x-3x

Improved Resource Utilization

Enable New Configurations

Improve SW License Efficiency
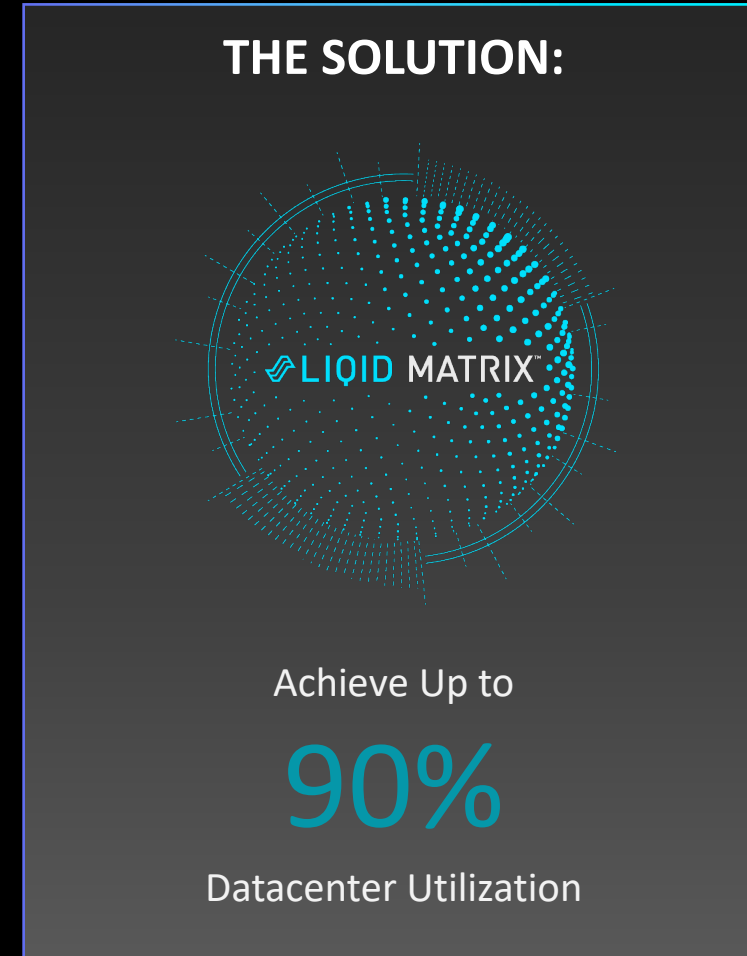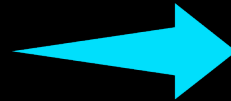
Independent Scaling of Resources

Decouple Purchasing Decisions

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Composable Enables Massive Utilization Improvement

THE SPEND:
$266.4 Billion

THE WASTE:

Non-Production
44%

Oversized
40%

Idle Time
76%

Overspent
50%

THE SOLUTION:

LIQID MATRIX

Achieve Up to
90%
Datacenter Utilization

Source: https://bit.ly/3uYLoUs

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Thank You