

SFD19 - WekaIO

\*WekaIO - For Those Who Solve Big Problems

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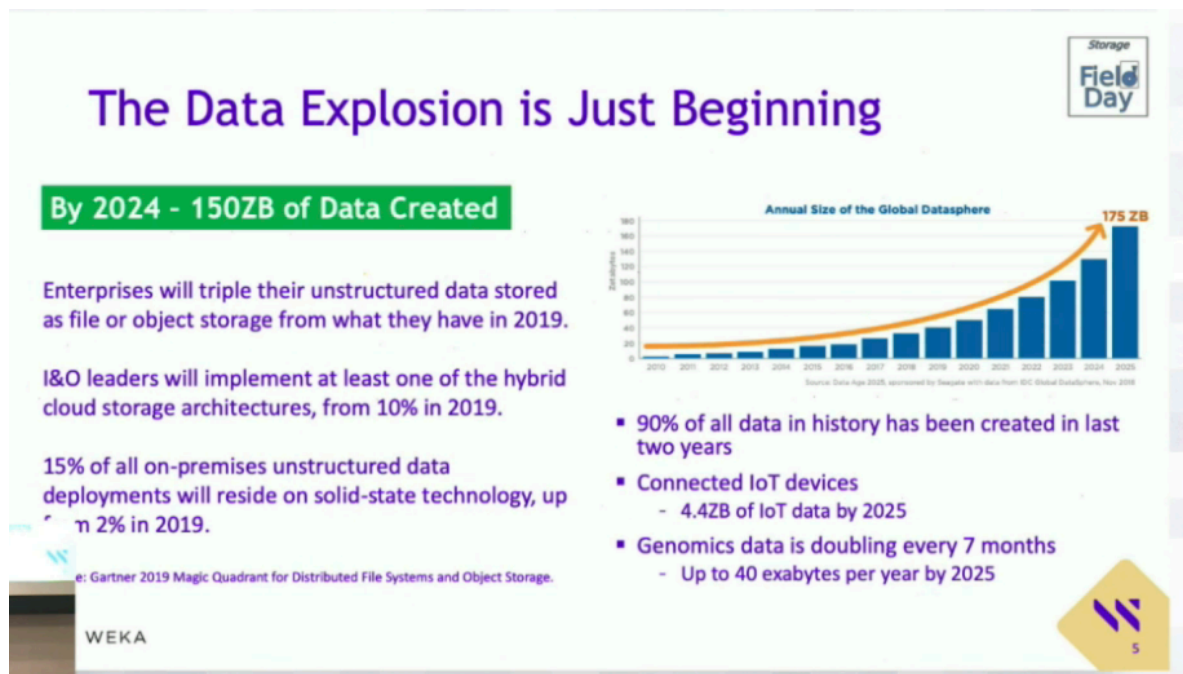
Now just Weka (a million Yotta)

Founded in 2013

R&D in Tel Aviv, Israel

US HQ in San Jose, CA

Investors include WD, HPE, Mellanox, NVIDIA, Qualcomm, Seagate

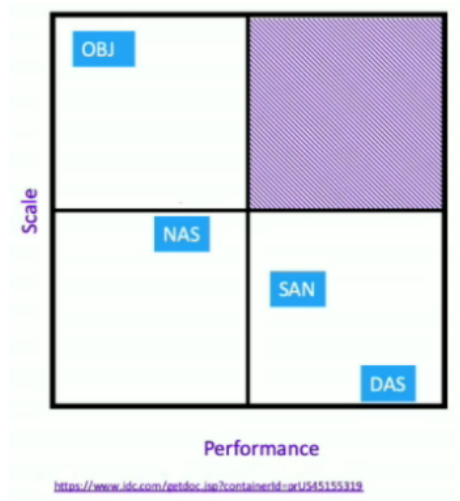


Most of the growth will come from unstructured data

Storage is broken into “Islands of Compromise” categories - each category carries a leader

DAS and SAN - cannot share data

NAS and Object - performance sucks

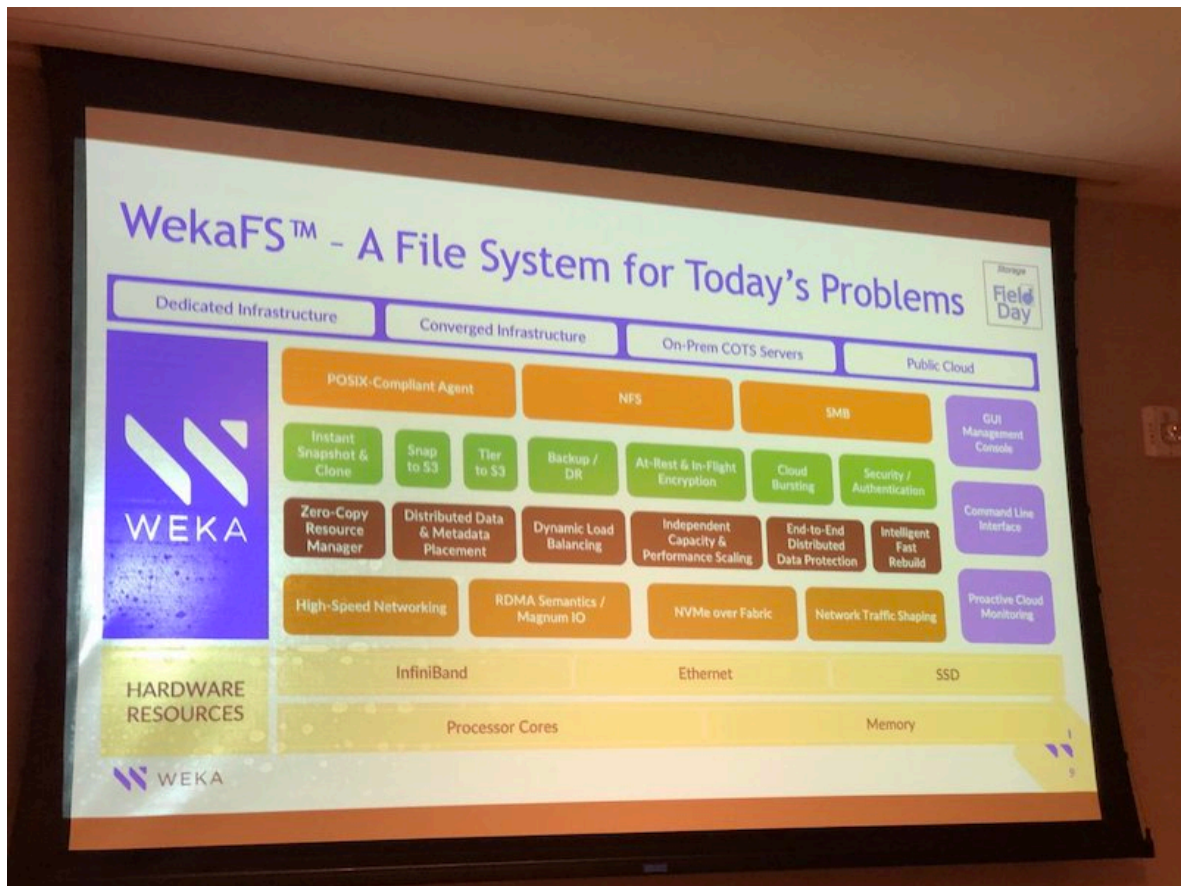


### Creating a new storage category

- highest performance for any workload
- complete data shareability
- cloud native, hybrid cloud
- full enterprise features
- simple to manage

### Caching is futile - don't need a local FS anymore

- local FS caching has happened for decades, no one likes it!
- 100-200Gbs is 100x faster than local NVMe
- when using local FS with a peak, latency grows to few milliseconds
- 10-100 times slower than steady state
- optimising on network devices amortises queue depth across all clients, improving long tails
- Weka is only shared storage that is faster than local storage



[image courtesy of Barbara Murphy]

### Unique Product Differentiation

- only POSIX namespace that scales to exabytes of capacity and trillions of files
- only networked file system that is faster than local storage
- massively parallel
- lowest latency
- snap to object
- Unique blend of All Flash and Object storage for instant backup to cloud storage (no backup software required)
- Cloud burst from on-premises to public cloud
- fully hybrid cloud enabled with highest performance
- end-to-end data encryption with no performance degradation
- critical for modern workloads and compliance

\*Demo time with Shimon Ben-David

\*Barbara

Customer examples

Life sciences

- genomics sequencing and analytics
- drug discovery
- microscopy

Deep learning

- ML / AI

- real-time analytics
- IoT

#### FinTech

- algorithmic trading
- business analytics (SAS Grid)
- risk analysis (Monte Carlo simulation)

Genomics England - performance and scale problem