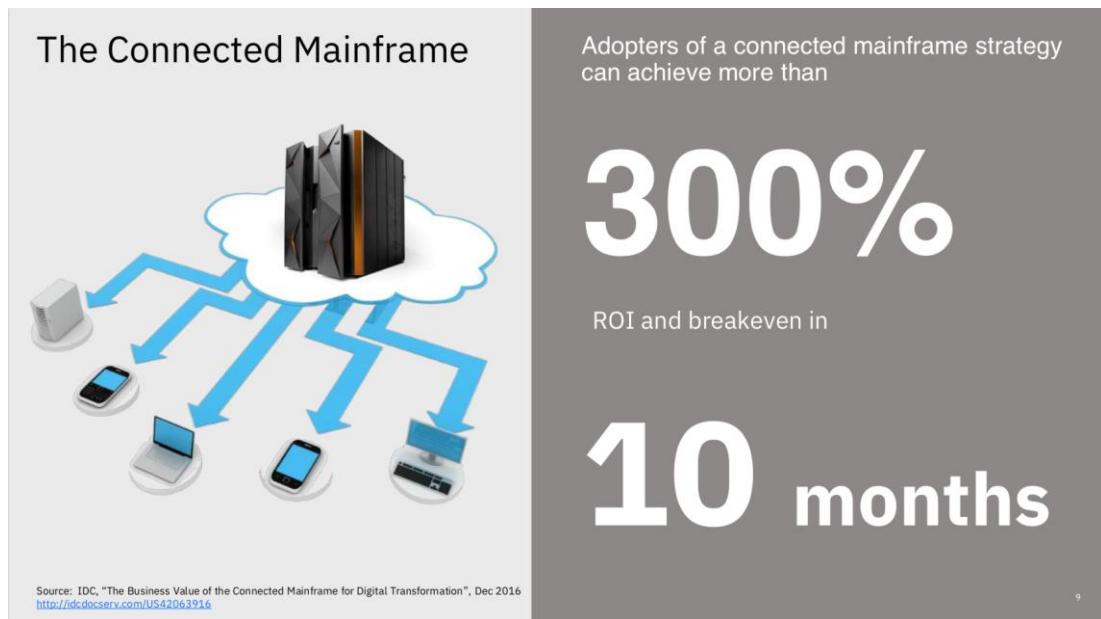


FOREDRAG 7. FEBRUAR I OSLO

Nye muligheter på Stormaskin – Blockchain, Cloud og Open Source

Kjapp oppsummering – Vil du få med deg de siste nyhetene og forbedringene innen Private Cloud og Open Source (Zowe), få dette demonstrert, samt vite hvordan man kan komme i gang med Blockchain?

1



The connected Maiframe

2

The Connected Mainframe



Source: IDC, "The Business Value of the Connected Mainframe for Digital Transformation", Dec 2016
<http://idcdocserv.com/US42063916>

11

Adopters save

47%

on costs of operations over distributed infrastructure

3

The Connected Mainframe



Source: IDC, "The Business Value of the Connected Mainframe for Digital Transformation", Dec 2016
<http://idcdocserv.com/US42063916>

12

Developers are

15%

more productive on average

4

Which is greater.....?

The number of z/OS CICS transactions processed every second

- or -

The number of Google searches every second?



IBM z Systems

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IBM

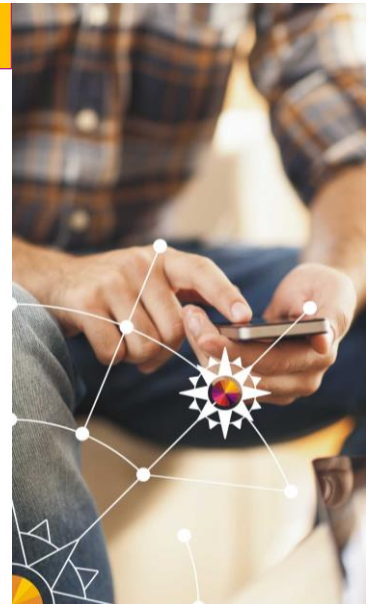
5

1.3 million
CICS Transactions.
Every Second.
Every Day. ¹

104.421 Google
searches in 2016²

¹ IBM estimates based on real client usage.

² <https://www.statisticbrain.com/google-searches>



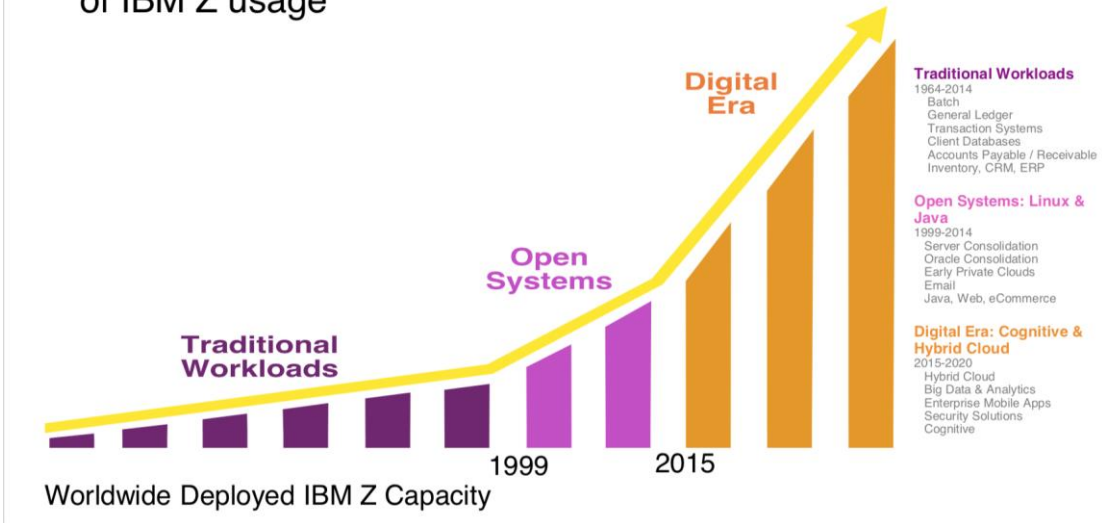
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6

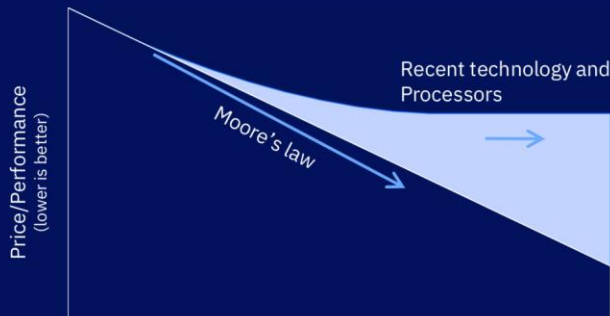
New marketplace dynamics are driving sustained growth of IBM Z usage



7

IBM Z Digital Transformation Model - Run & Maintain Addressing the Moore's law gap

IT innovation can no longer come from just the processor



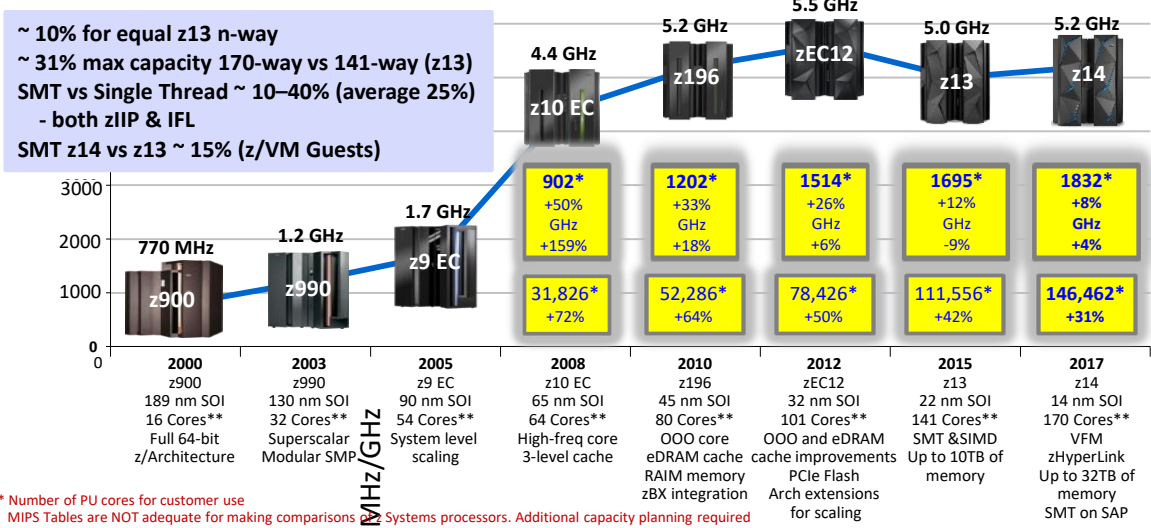
Full system stack innovation is required

1. Hardware (processor, firmware/OS, storage, network)
2. Compilers
3. Middleware
4. Application

* Performance results shown were obtained in a controlled, isolated environments using IBM internal test suite. Performance of other workloads may vary.

8

z14 Continues the CMOS Mainframe Heritage Begun in 1994



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9

IBM Z Digital Transformation Model - Run & Maintain

Put your applications into HYPERDRIVE

For Decimal Intensive & Floating Point Intensive applications, **COBOL v6.2** increases performance by up to **17X** over COBOL v4.2 (**3X** over COBOL v5.2)*

For Decimal Intensive & Floating Point Intensive applications, **Automatic Binary Optimizer (ABO) v1.3** increases performance by up to **5X** over COBOL v4.2*

- No source recompilation required
- Complementary to COBOL V6.2

z/OS v2.3 XL C/C++ reduces CPU usage of Floating Point Intensive applications by **13%** over z/OS v2.2 XL C/C++*

PL/I v5.2 reduces CPU usage of Decimal Intensive Applications by up to **40%** over PL/I v5.1*

* Performance results shown were obtained in a controlled, isolated environments using IBM internal test suite. Performance of other workloads may vary.

10

European company chooses new application in COBOL on IBM z/OS instead of a new application in JAVA on x86 and Exadata

Client Situation

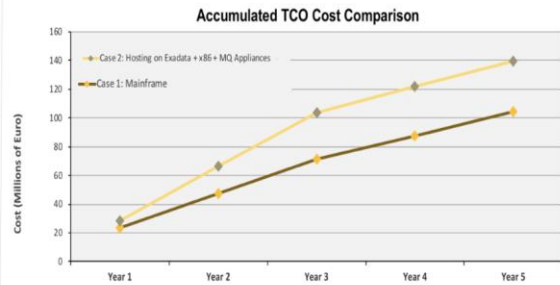
A European company was considering deployment of new, critical workloads to Exadata, x86 servers, and MQ appliances rather than into its mainframe environment. The perception was that running these workloads in a distributed environment would cost less.

Our Solution

- Deploy and run workloads on IBM Z to avoid higher runtime costs
- Mainframe environment delivers a lower TCO due to lower SW, DR and labor costs

Benefit for this client

- Hosting workloads on IBM Z will save **\$35M** over five years
- 92% savings in SW
 - 55% savings for DR
 - 37% savings in labor
 - Reduced server maintenance effort
 - Simplified administration from fewer servers
 - Streamlined DR and quicker recovery time objective (RTO)

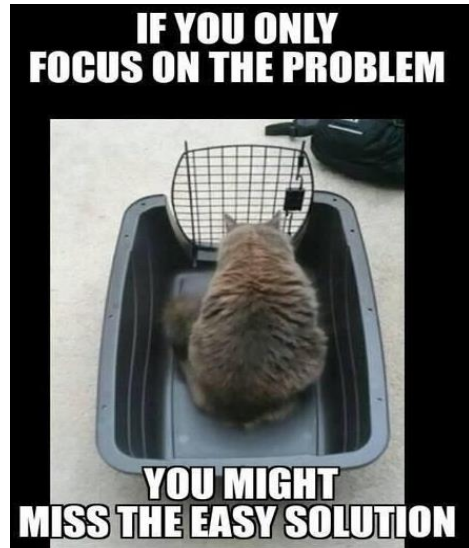


• Server data based on customer specific actuals
 • Pricing based on vendor published numbers
 • Projections provided by IBM

source: IT.Economics@us.ibm.com

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11



12