



Kyiv  
International  
Economic  
Forum

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Ukraine and The World in The New Economic Reality



**Hewlett Packard  
Enterprise**

**Accelerate innovation in an  
age of digital disruption**

# We are in a world where everything computes

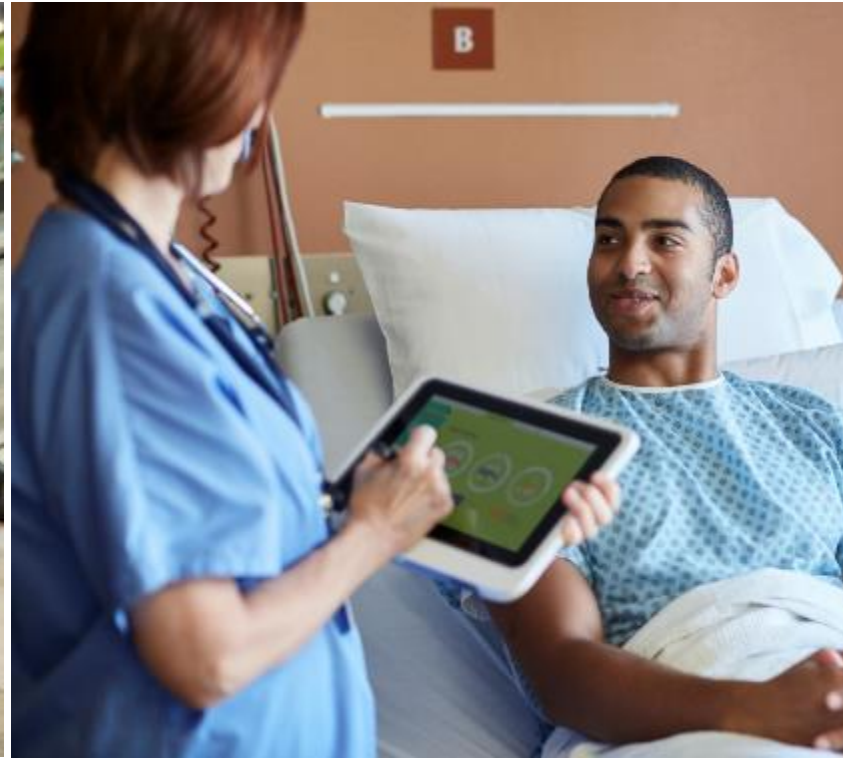


Technology is embedded  
everywhere

Everyone & everything  
is connected

Everything  
is understood

# Digital transformation is disrupting every industry



## Transformed already

Newspapers & magazines  
Books  
Music  
Video  
Retail  
Travel

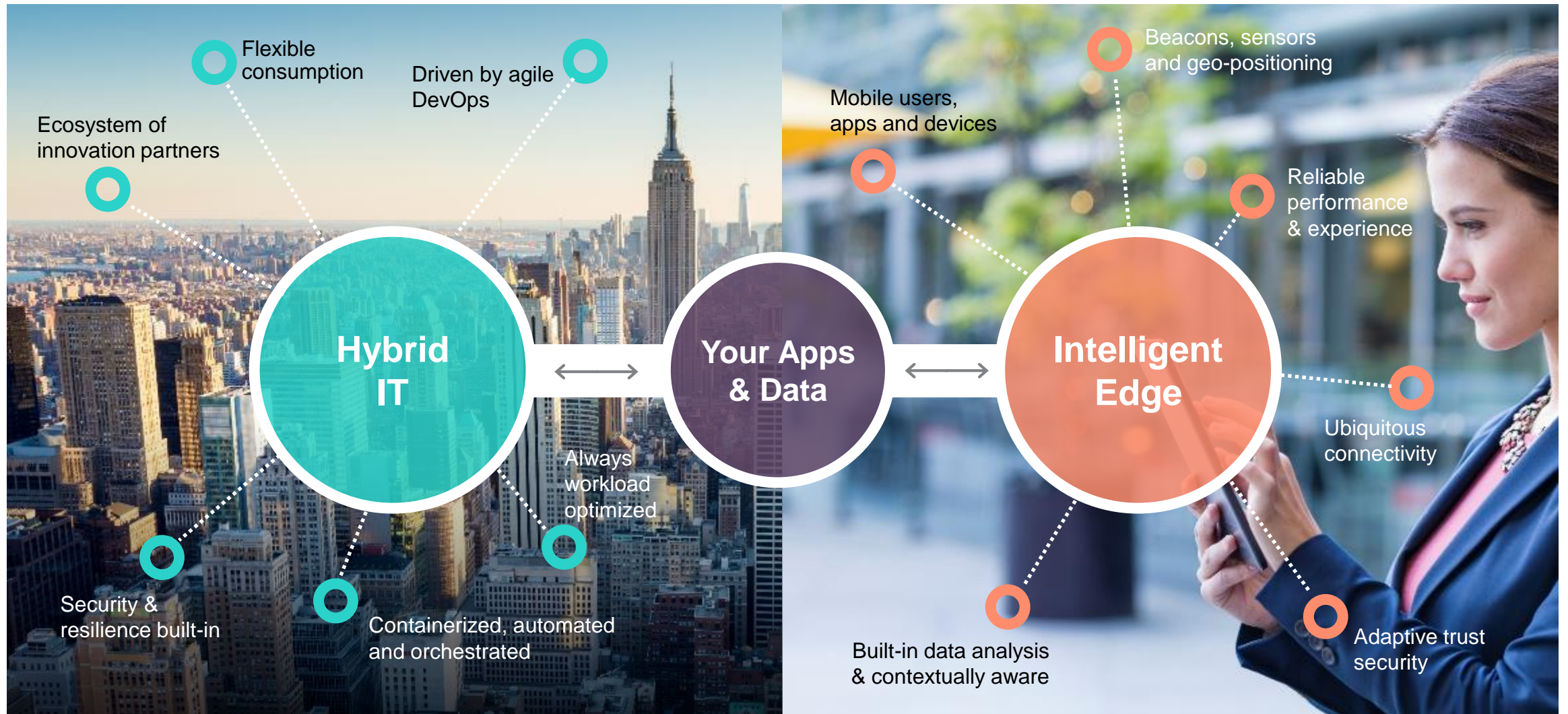
## Transforming

Wellness & healthcare  
Retail banking  
Transportation  
Government  
Farming  
Buildings

## Continued evolution

Manufacturing  
Insurance  
Utilities  
Legal  
Education  
Construction

# Accelerating time to value in a hybrid world is priority #1



# HPC, big data analytics and AI empower the data-driven enterprise

**Simulation and modeling**  
for science,  
research and  
business



**Deep Learning and Cognitive computing**  
Pattern recognition  
and Artificial  
Intelligence



**Analysis**  
of high volume  
machine, human  
and business data



**Managing data**  
unstructured data;  
images, audio and  
video, backup and  
recovery



# World's largest chemical company creates chemistry with HPC

## HPE supercomputer enables global digital transformation at BASF



### BASF Supercomputer

- Designed to be one of the **world's largest supercomputer**
- Drive digitalization of **BASF's worldwide research**
- Shorten modeling / simulation times (**months to days**)
- Solve complex problems while **decreasing discovery time**
- Run virtual experiments to **reduce time-to-market, lower costs**

### Key features

- HPE Apollo 6000 Gen10
- > 1 Petaflop using Next Gen platform
- Multitude nodes
- Work simultaneously on highly complex tasks
- Dramatically reduce processing time

“The new supercomputer will promote the application and development of **complex modeling and simulation approaches**, opening up completely new avenues for our research at BASF.”

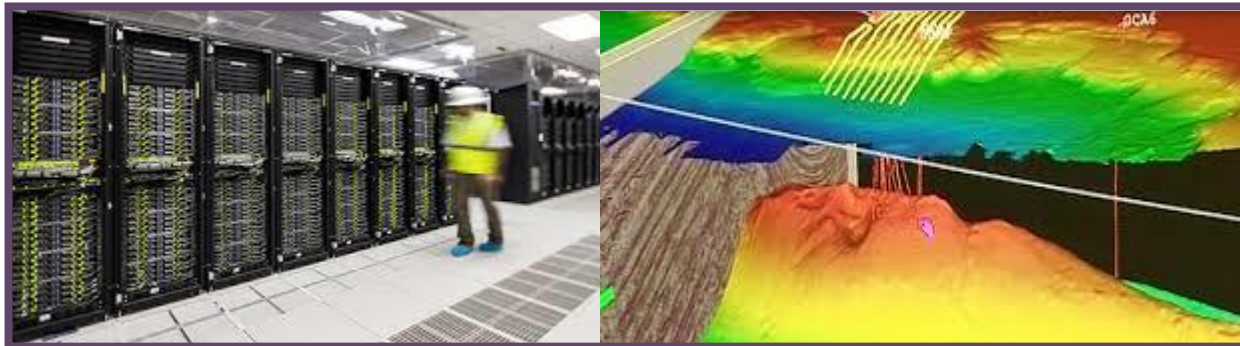
- **Dr. Martin Brudermueller**, Vice Chairman of the Board of Executive Directors and CTO, BASF



# Global Energy Company uses supercomputer to pinpoint 200 million-barrel cache

## Supercomputer for energy exploration

- **\$2 billion in recoverable oil** in 7,000 feet of water 150 miles from the coast
- Long obscured by a salt dome, the **oil reserves were revealed by using a supercomputer and mathematical algorithm** to interpret the seismic data in a new way.



**2 weeks**

and a more accurate model using HPC

**VS.**

**1 year**

using traditional analytics methods