

DXC accelerates Autonomous Driving development

High Performance D3 platform of BMW Group

Powered by Openshift

Discuss and derive the learnings for your industry data driven AI ecosystem!



Thrive on Change



DXC Technology is the world's leading independent, end-to-end IT services company. We guide clients on their **digital** transformation journeys, **multiply** their capabilities, and help them harness the power of innovation to **thrive on change**.

Bringing innovation to clients for 60+ years

Serving nearly 6,000 private and public sector enterprises across 70 countries

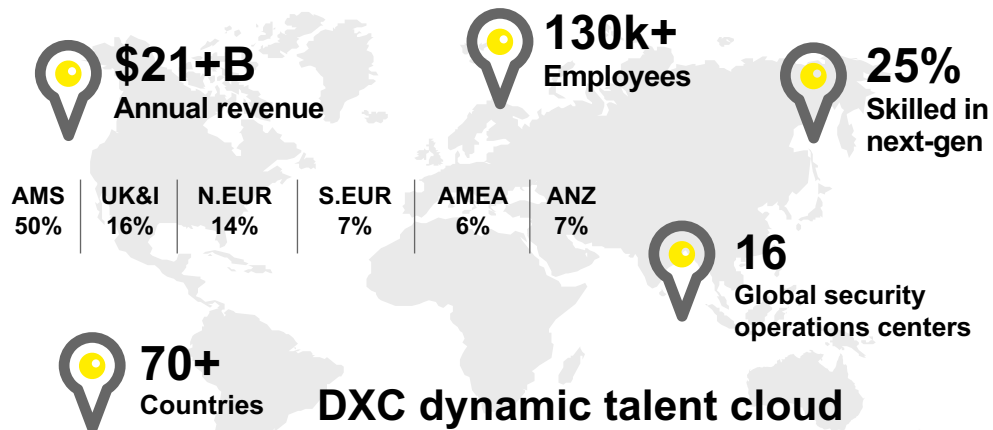
Our clients benefit from our technology independence, global talent, expertise and extensive partner network

We are uniquely positioned to lead digital transformations, creating greater value for our people, clients and partners

DXC was created to lead the digital disruption cycle



Scale & skills



Agility & cost efficiency

Integrated delivery model

55% low-cost center mix for delivery

21 in-country low-cost centers

8 global delivery centers

Operational data mining



Automation targets

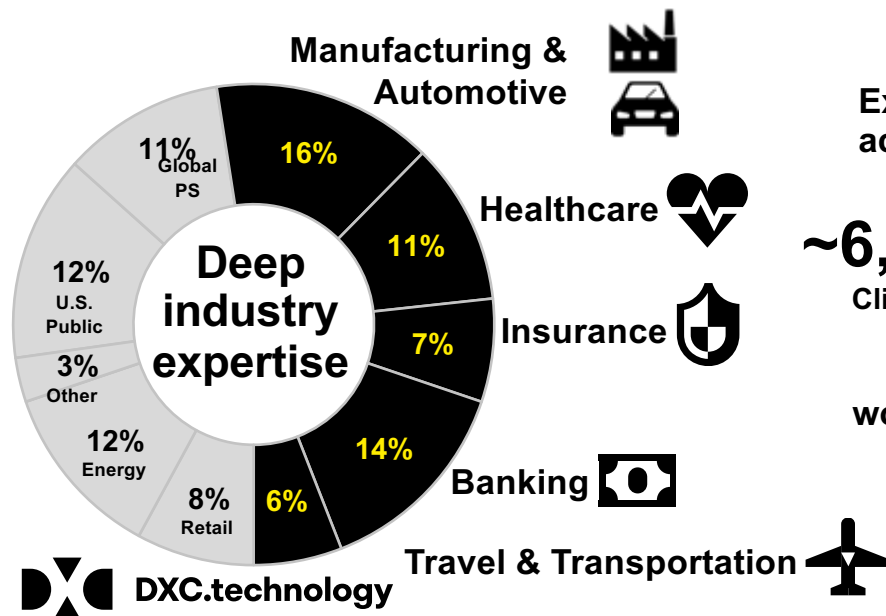
80% priority service requests auto-resolved

50% tickets auto-processed



DXC.technology

Customer intimacy



Excellent client coverage across the globe ...

~6,000 Clients
200+ F500 clients
36 NPS

... enhanced through world-class partner network



Technology-driven innovation

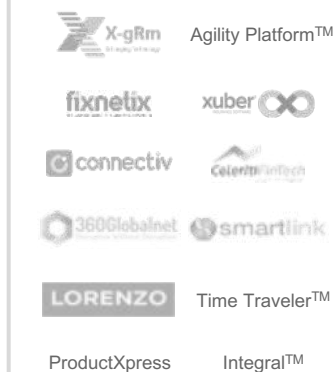
\$4B Digital revenue

11 largest offerings rated as differentiated leader

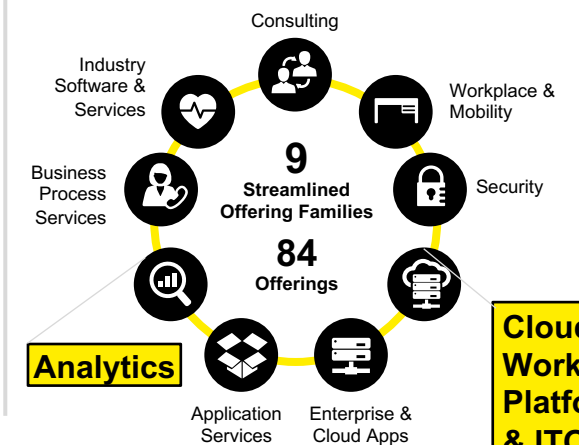
250+ global partners

14 strategic co-investing partners

Differentiated IP

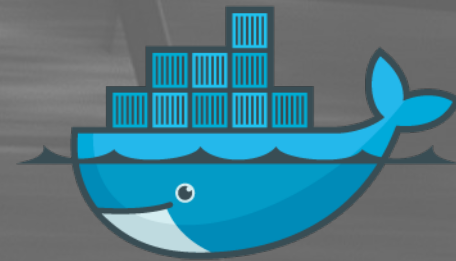


Streamlined offerings



DXC Robotic Drive to accelerate Autonomous Driving development





docker



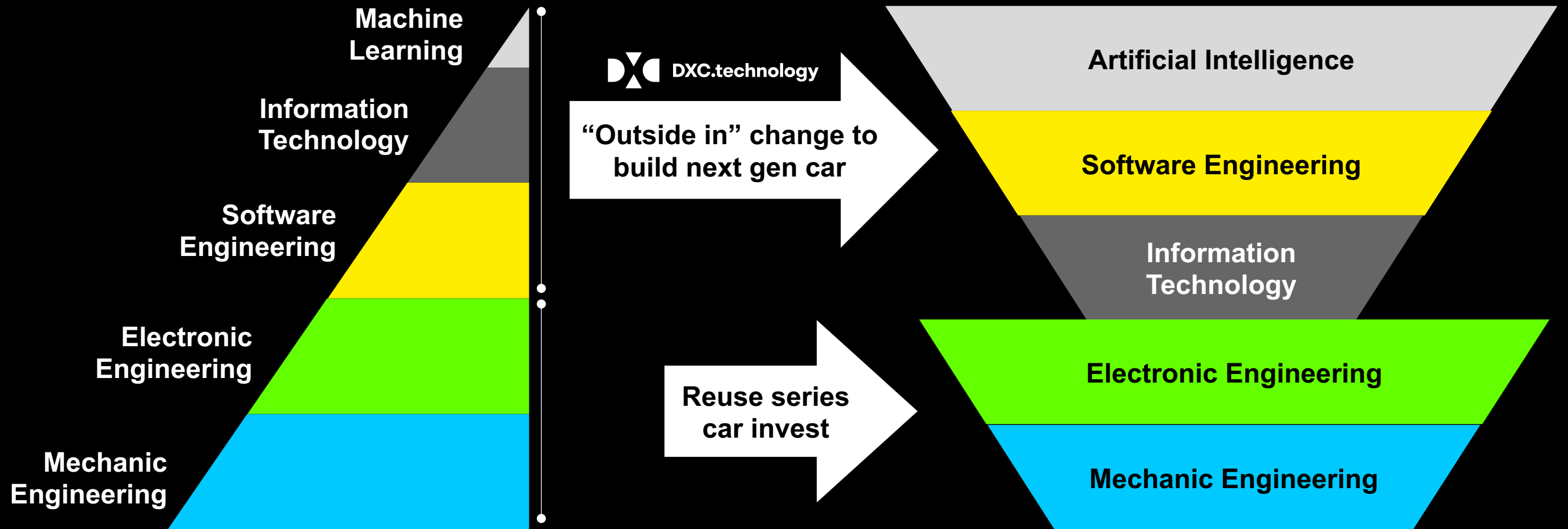
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Watch Robotic Drive at

Robotic Drive Video

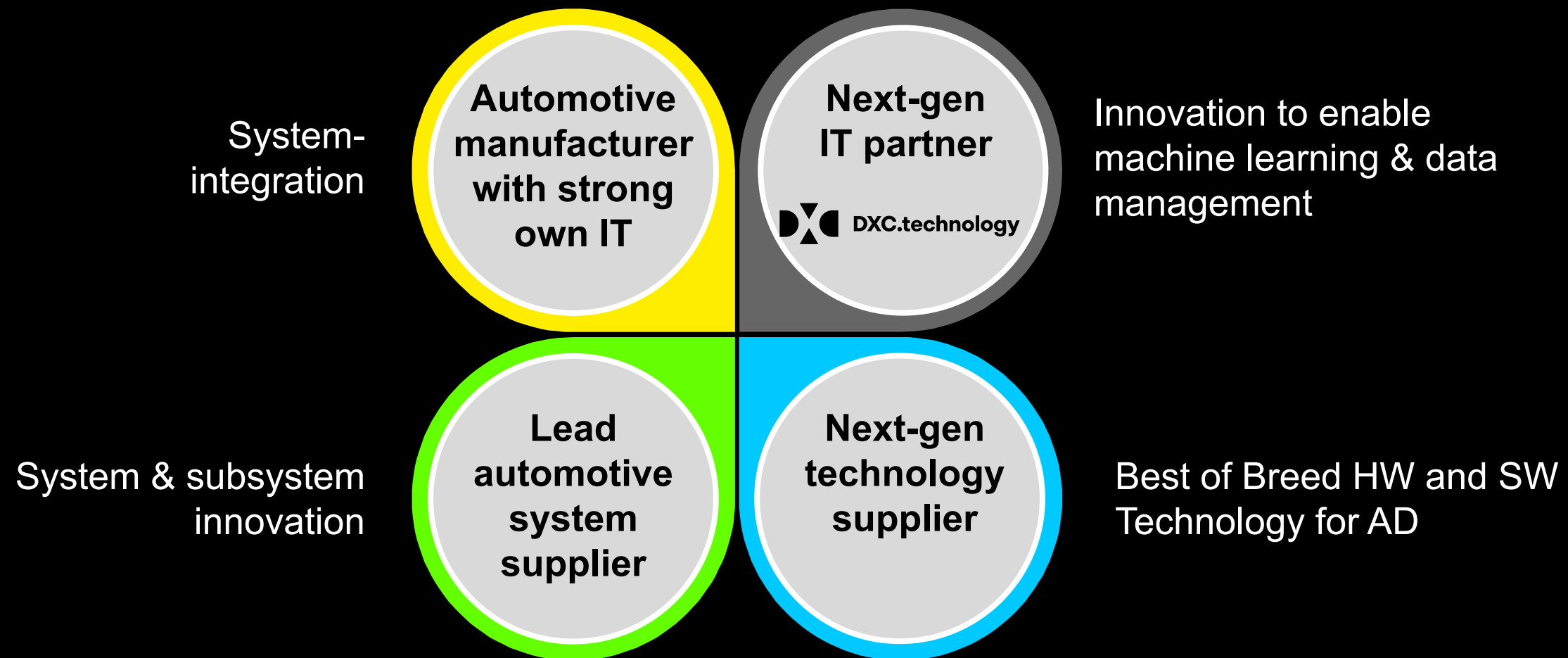


R&D in Automotive Industry – Capabilities are Changing



Extend & reuse current mechanic engineering capability combined with artificial intelligence, software building and IT is important to survive

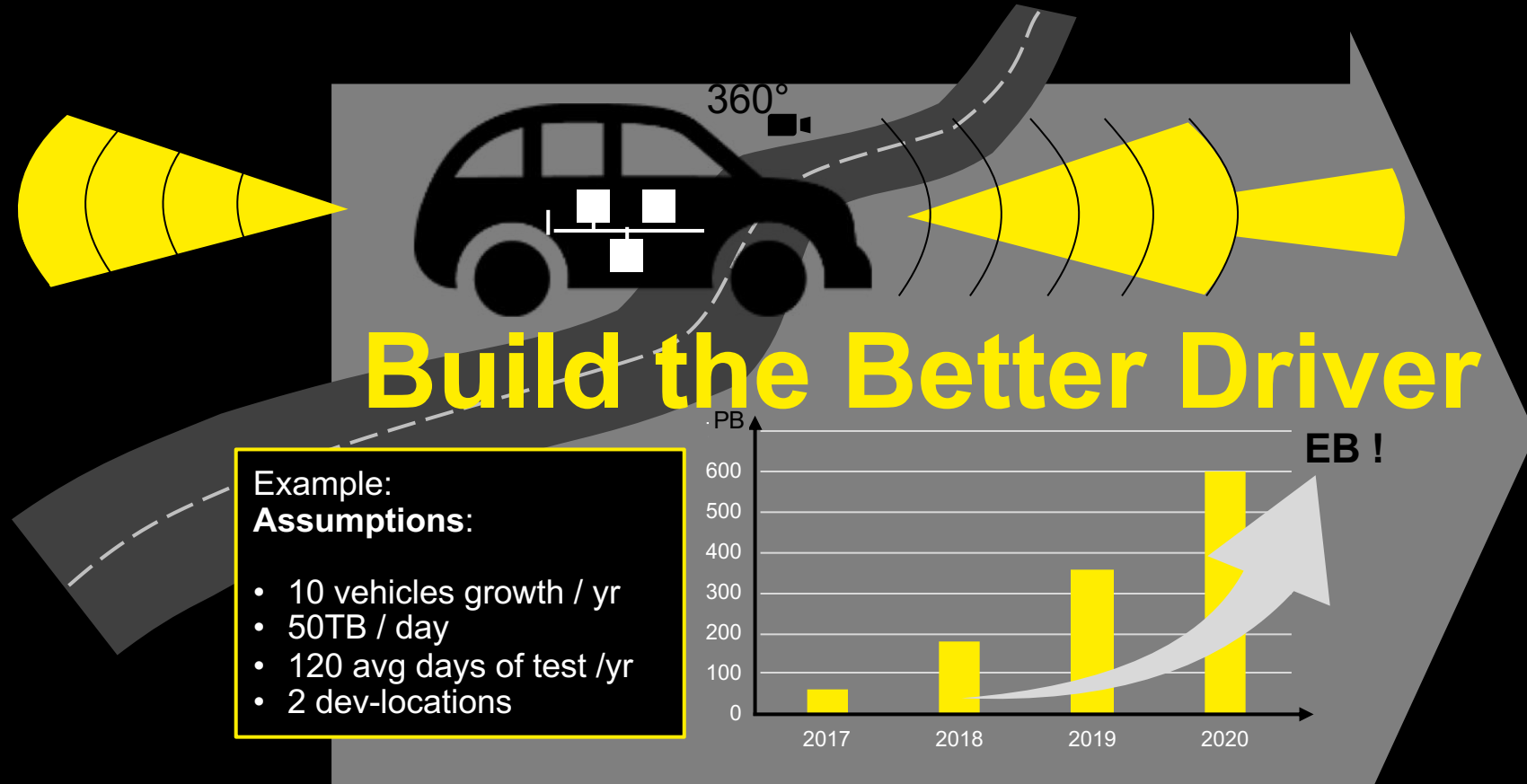
Partnering setup to master this innovation leap



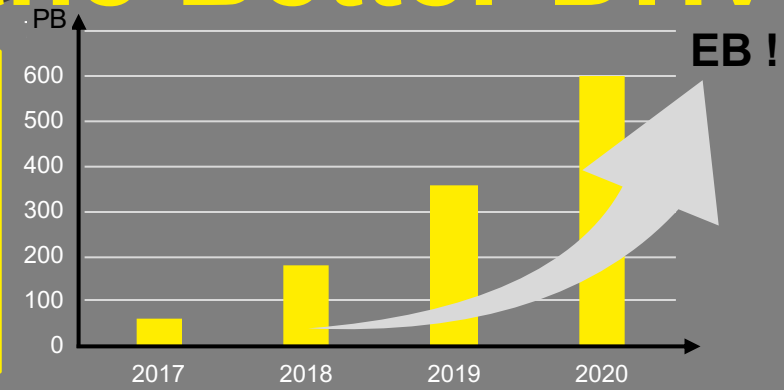
Key Autonomous Driving Goal & Challenges

Storage Workloads on Exabyte Scale

Compute Workloads requires tens of thousands of GPU (SP) Tflops



- Example: Assumptions:**
- 10 vehicles growth / yr
 - 50TB / day
 - 120 avg days of test /yr
 - 2 dev-locations



1 Amount of test data to train the neuronal networks

22 mil. km

120 exabyte Data

2 Effort to label the data for feature recognition

1 mil. Person Years per simple capability

More than 10 complex capabilities needed

4 Object recognition

Drive strategy

Situation analytics

Pictures: Spiegel Online

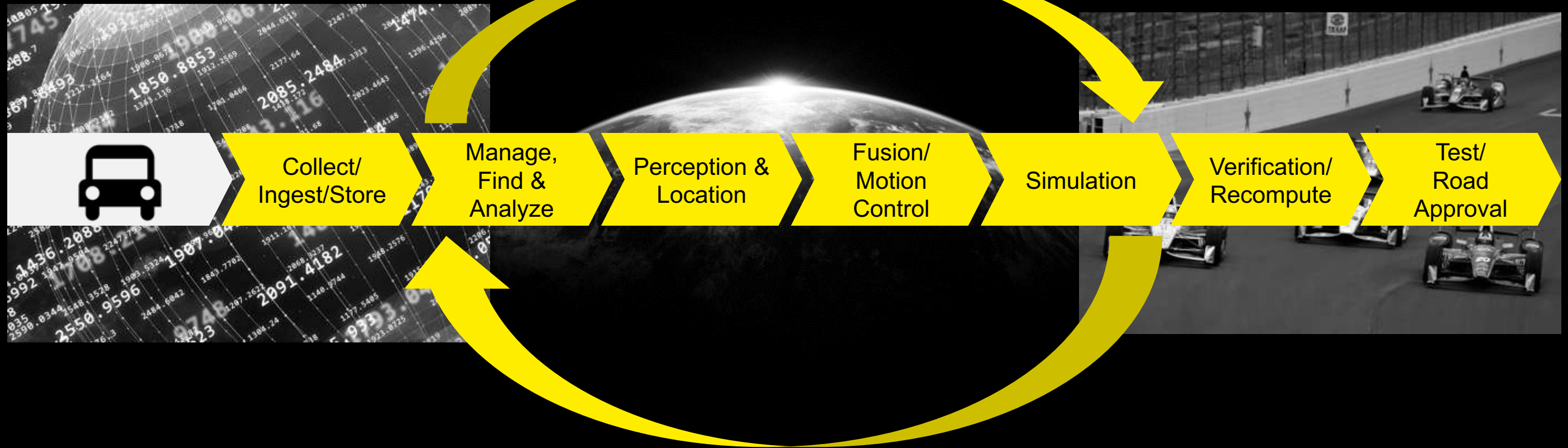
- The legal road approval is far away or even impossible by using the deterministic approach based on business rules
- Product development on this level is very hard or even impossible to achieve with current approach

Requires an end-to-end data and AI capability ecosystem for AD development

Geographically distributed
R&D teams

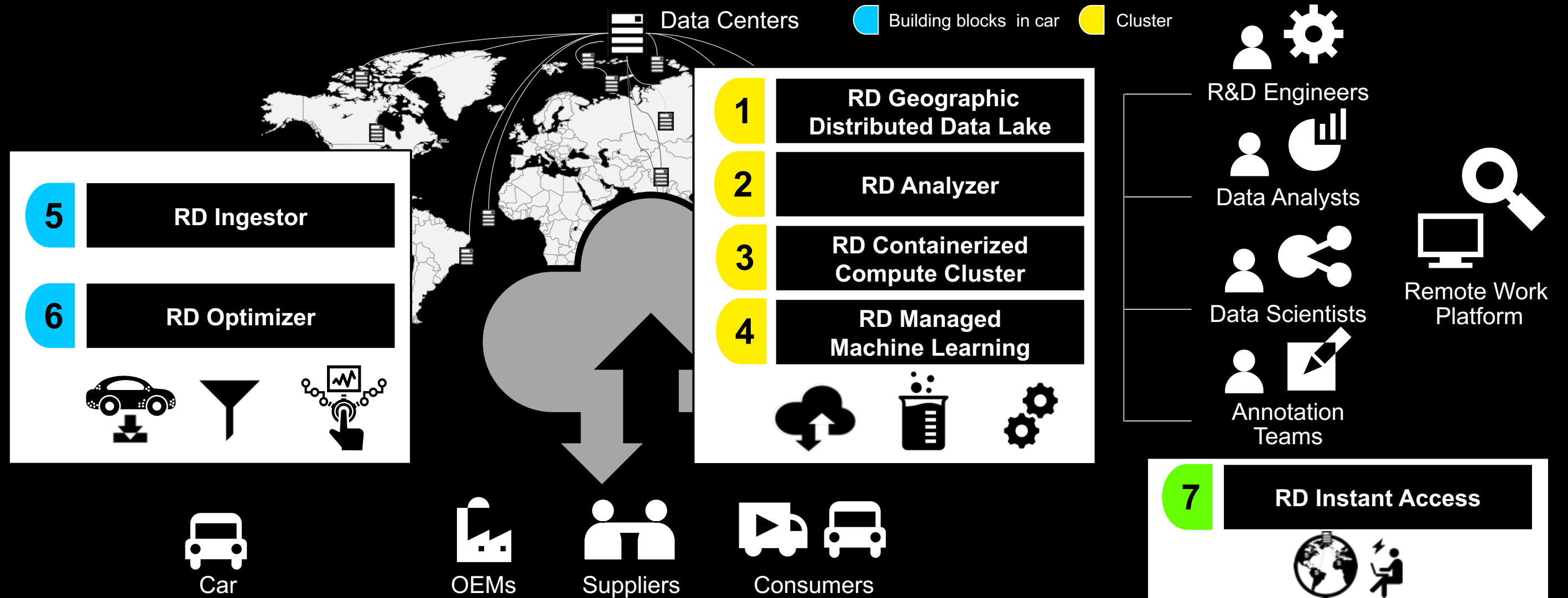
AD data & models

Need for speed



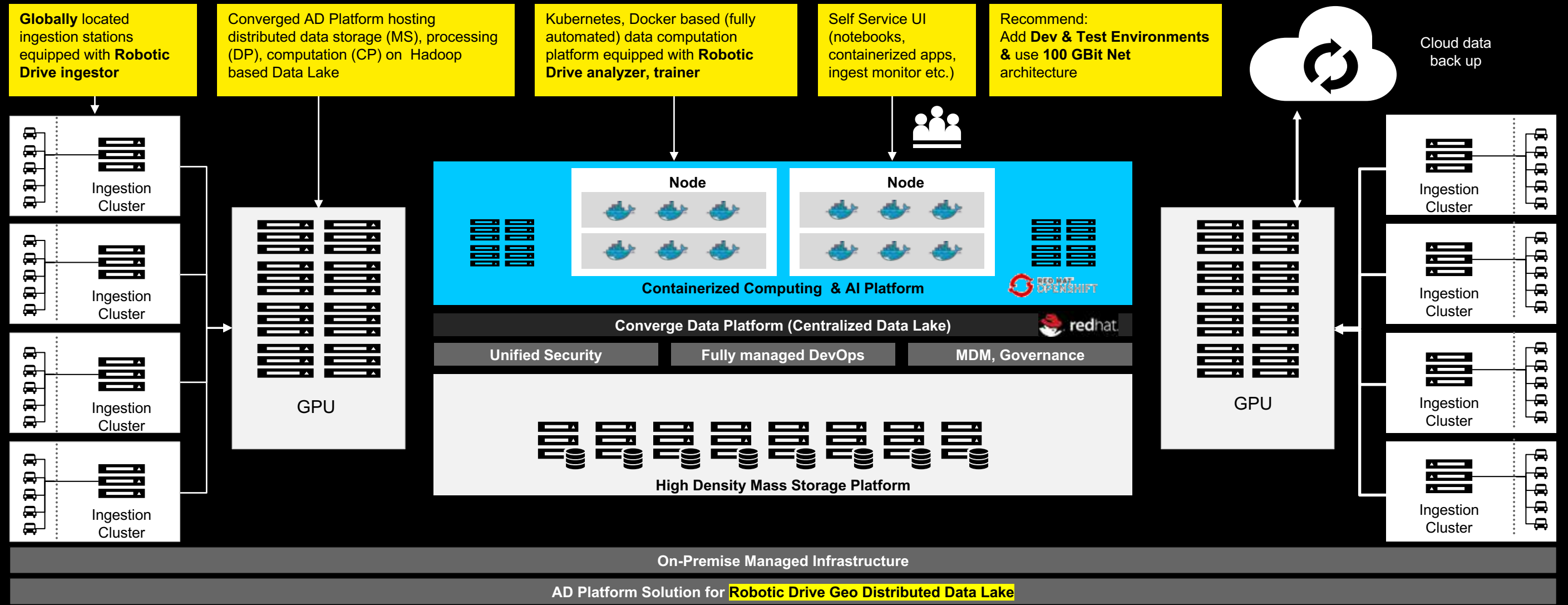
DXC Robotic Drive Solution

Basic Features

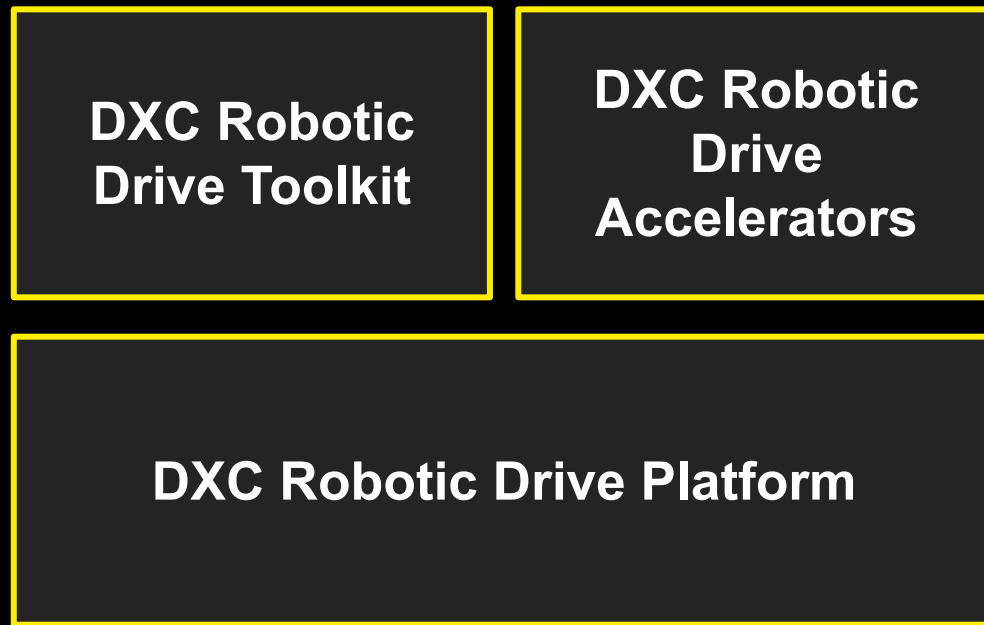


Digital Ecosystem: Big Data + Compute + AI

DXC Robotic Drive Autonomous Drive Development Eco System



DXC Robotic Drive enables autonomous driving development and testing



**Build
Solution**



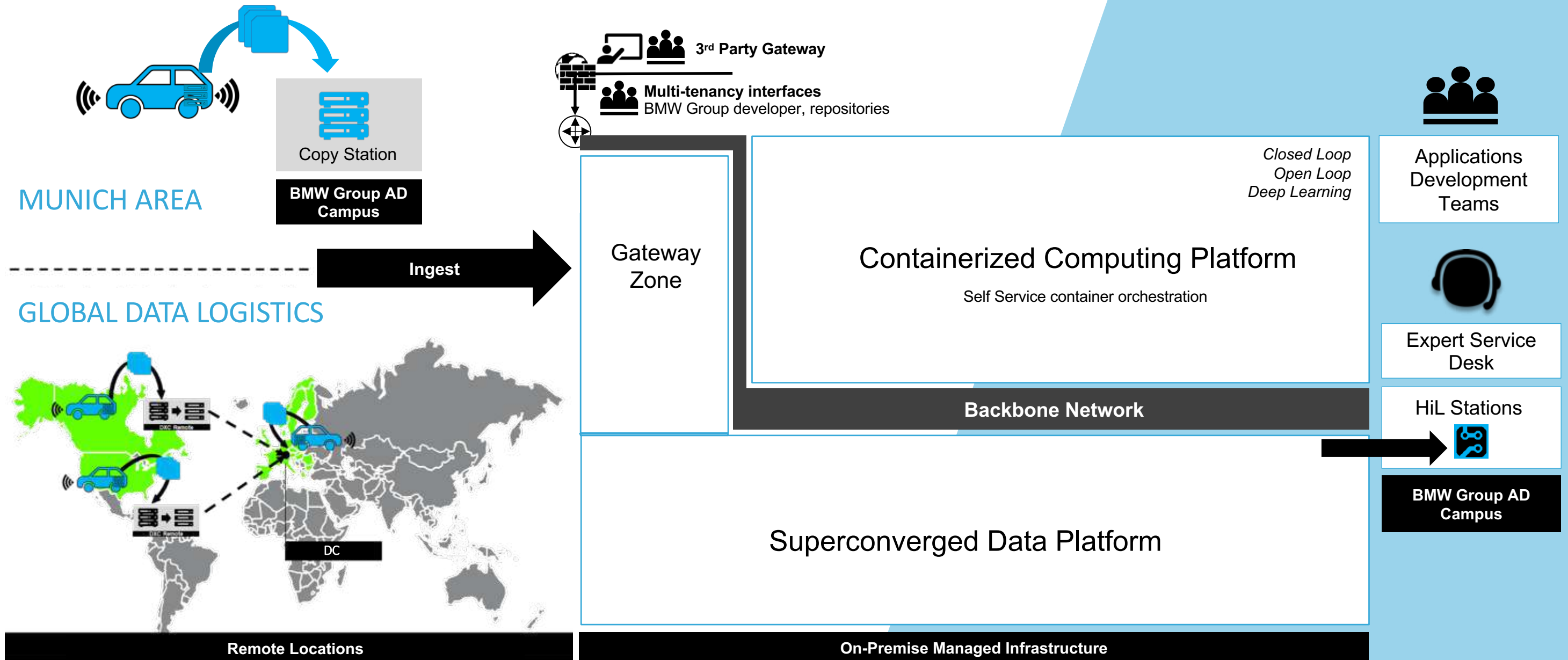
**CLIENT
AUTONOMOUS
DRIVING
PROGRAM**

DXC Technology is partner for the new BMW Group High Performance D3 platform



Autonomous driving is at the heart of BMW Group's 'NUMBER ONE > NEXT' strategy," said Alejandro Vukotich, senior vice president, Autonomous Driving and Driver Assistance at BMW Group. "DXC will greatly support our commitment to maximizing innovation, which will benefit our customers. With the managed services, we are able to ramp up the solution to support the next stage of the future of BMW Group's autonomous drive platform."

BMW GROUP HIGH PERFORMANCE D³ PLATFORM.



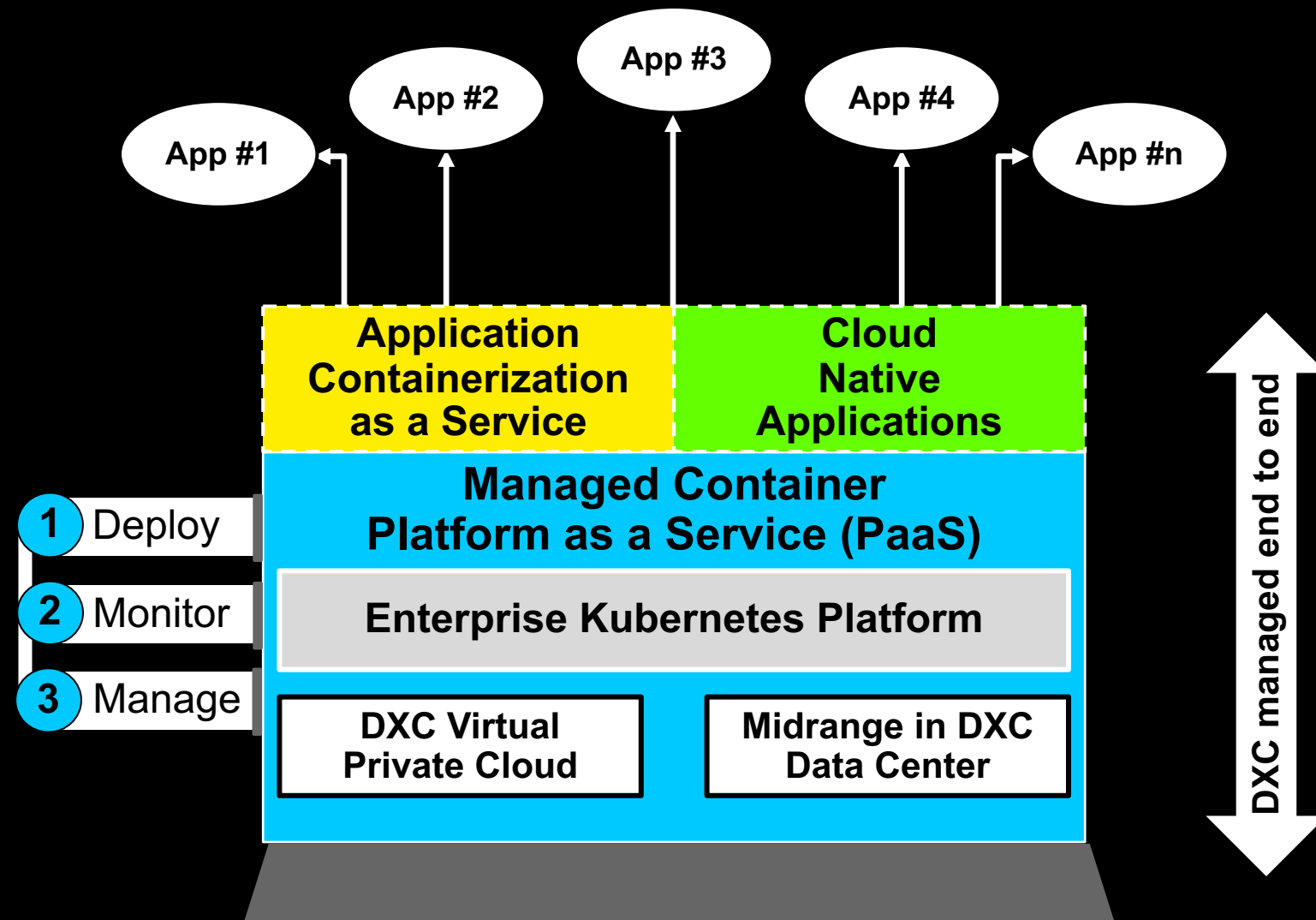
September 17, 2019

Deep Dive in DXC Managed Container Platform as part of Robotic Drive

June 2019

Containerized Compute Platform

DXC Managed Container Platform as a Service powered by Red Hat OpenShift



Managed Container PaaS

1

A fully managed Kubernetes platform unites apps/ops teams on a single platform, driving shorter development cycles and lower operating costs

2

Move legacy and cloud native applications between hybrid and disparate clouds, retaining full application functionality and avoiding cloud lock-in

3

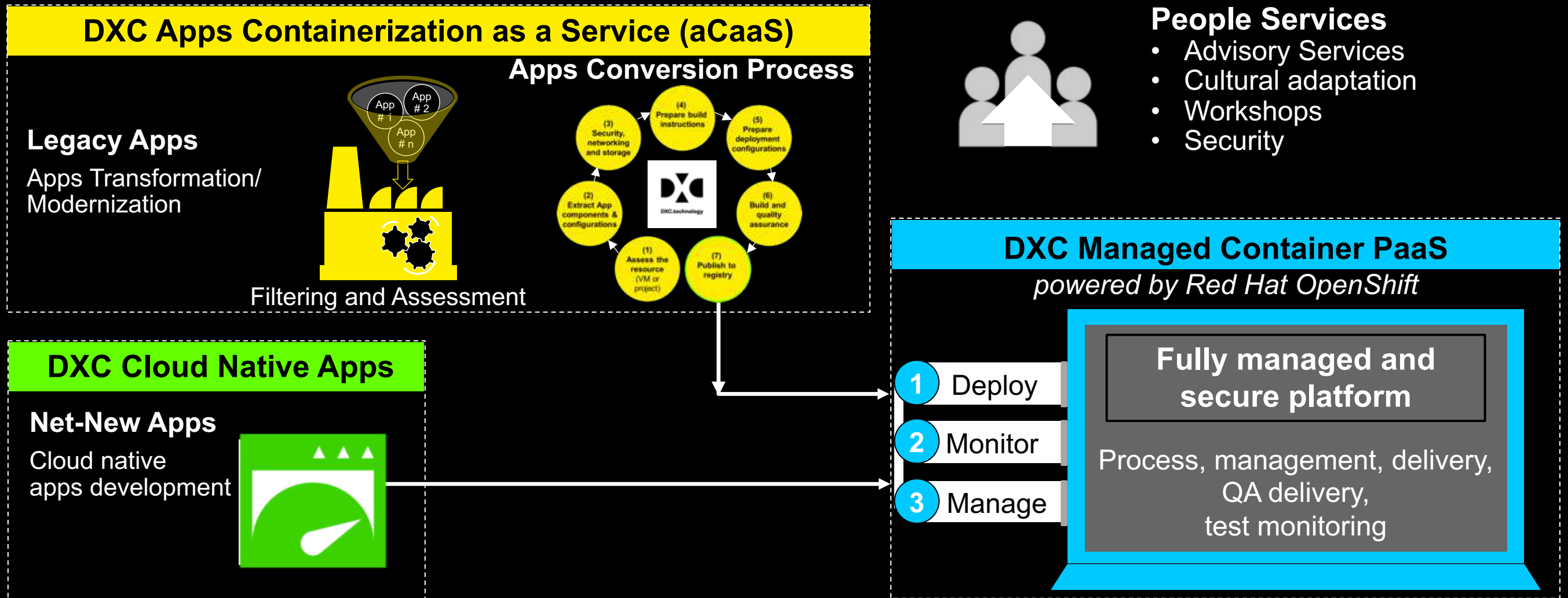
DXC best-in-class support and industry-leading automation provides the capability to quickly support changing business needs.

4

Currently delivered in a managed service in traditional and private cloud, with the addition of hosting on public cloud coming soon

Full scope of DXC Containerized services

DXC Managed Container Platform as a Service powered by Red Hat OpenShift



In summary: Why DXC Technology?

Accelerate autonomous driving development

DXC Analytics has demonstrated that **augmented agile thinking and approach** is needed in such complex digital deals

We understand AD development

DXC has experience managing AD research and development projects and provide proven components to manage the size and technical complexity

We solve complex AD challenges, end to end

DXC helps AD R&D engineers ingest files from test vehicles, eliminate data conversion, avoid duplication, enable AI training, and more

Fast, cost-effective, innovative

DXC helps accelerate AD development by reducing time spent analyzing data, lowering costs by eliminating complexity, and promoting innovation with faster development cycles

Vendor-agnostic and cloud-ready AD development platform

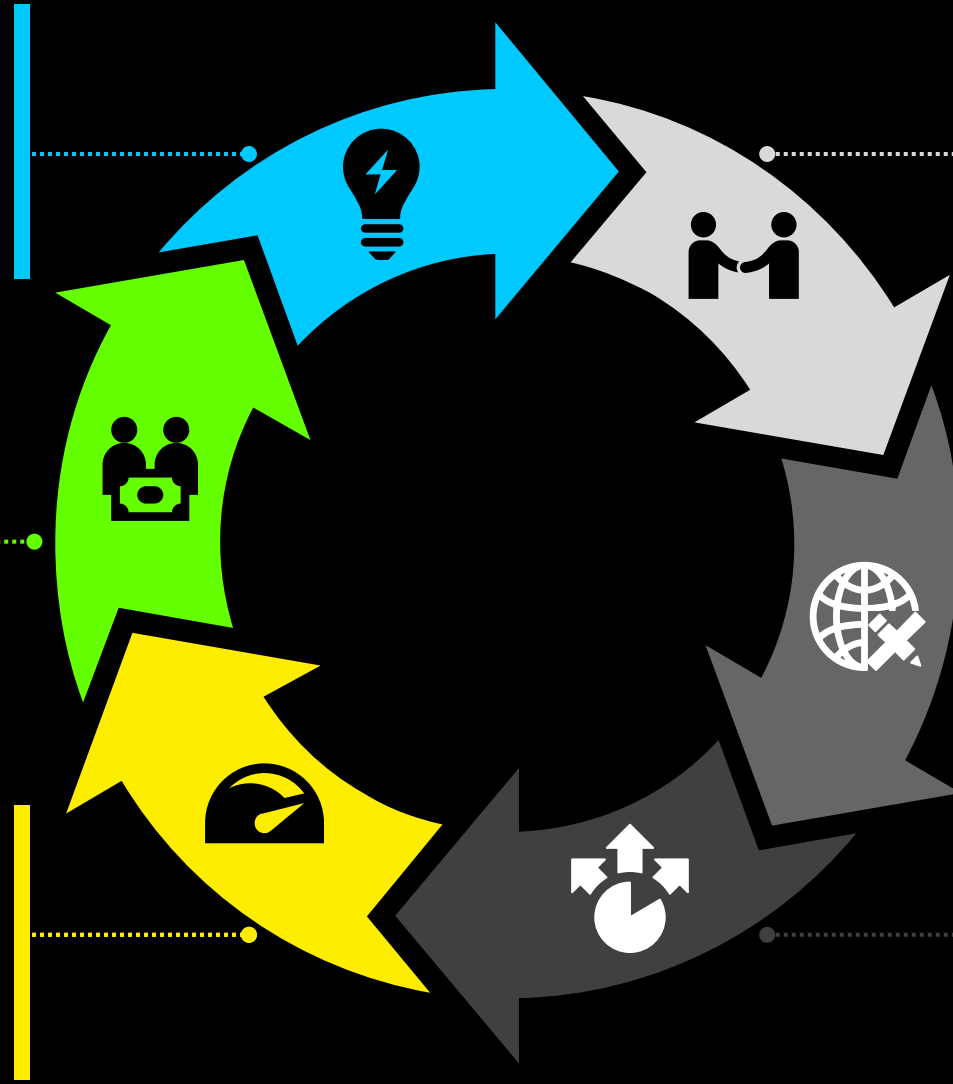
DXC's technology independence allows us to deploy and deliver the best solutions with scale, speed, and agility

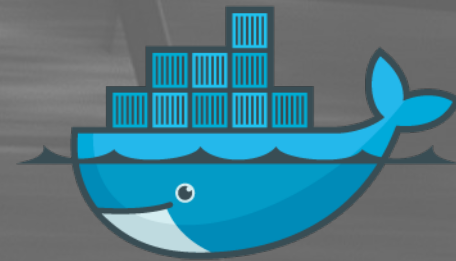
We understand AD development on a global scale

DXC provides an established global network of automotive centers of excellence for collaboration and innovation

Agility Flexibility Scalability

DXC enables engineers and IT professionals to work collaboratively with a standard development accelerator and platform and flexible deployment for hybrid or full cloud





docker



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September 17, 2019

Thank you

Start your AI Journey with DXC

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