

AI Driving the Future of Networking

The blueprint for a cutting edge network



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15 Billion connected devices

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**328 Million
Terabytes**
of data every day

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Source: Bernard Marr and Co

Up to

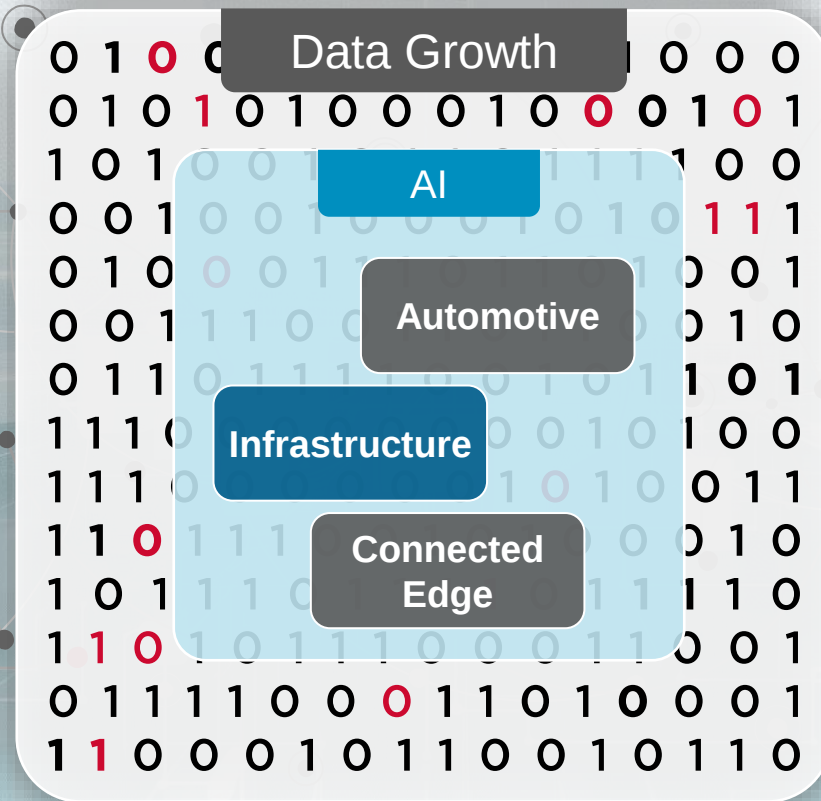
One Billion Gigabytes

of automotive data in 2025

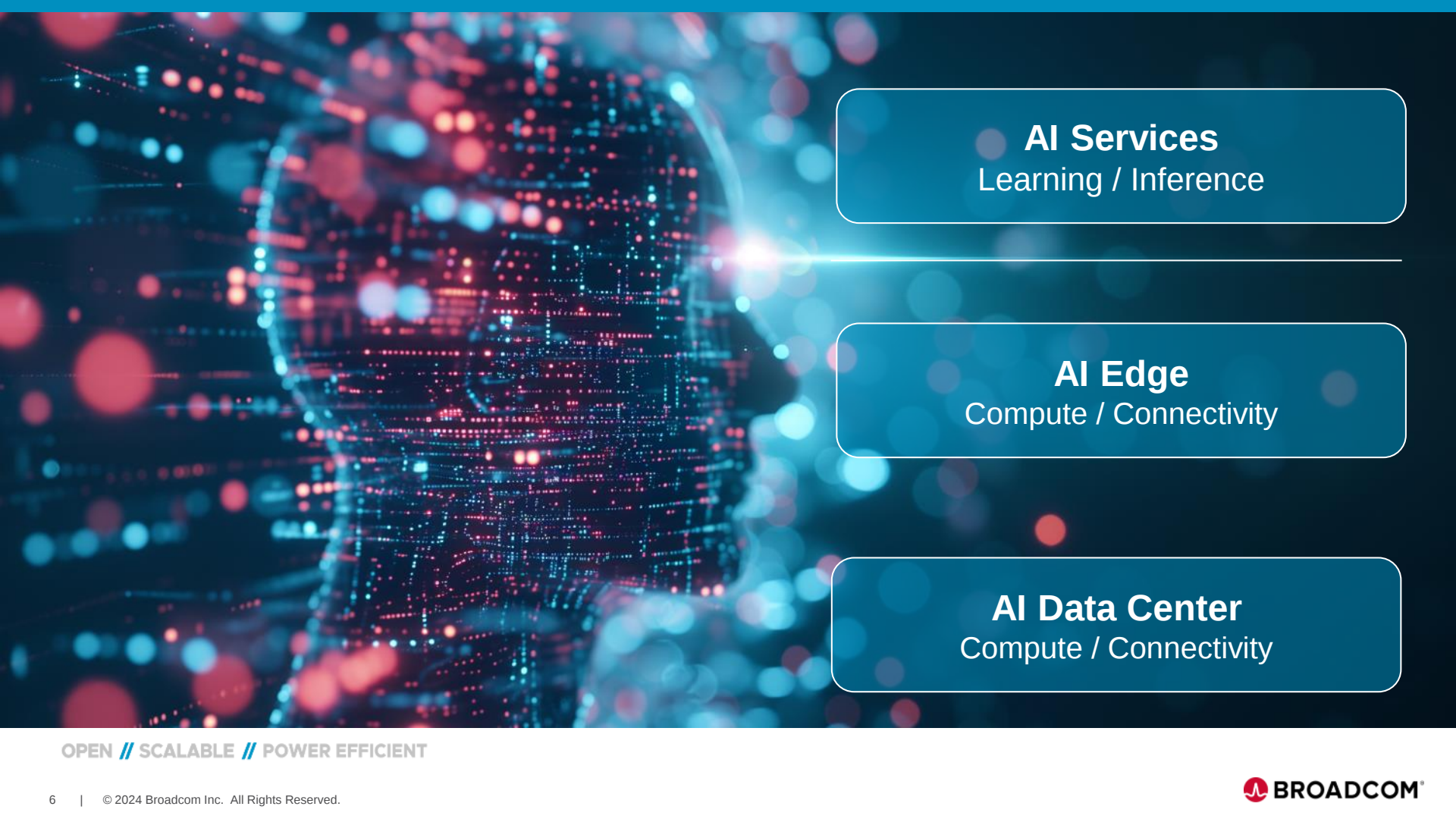


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Connectivity



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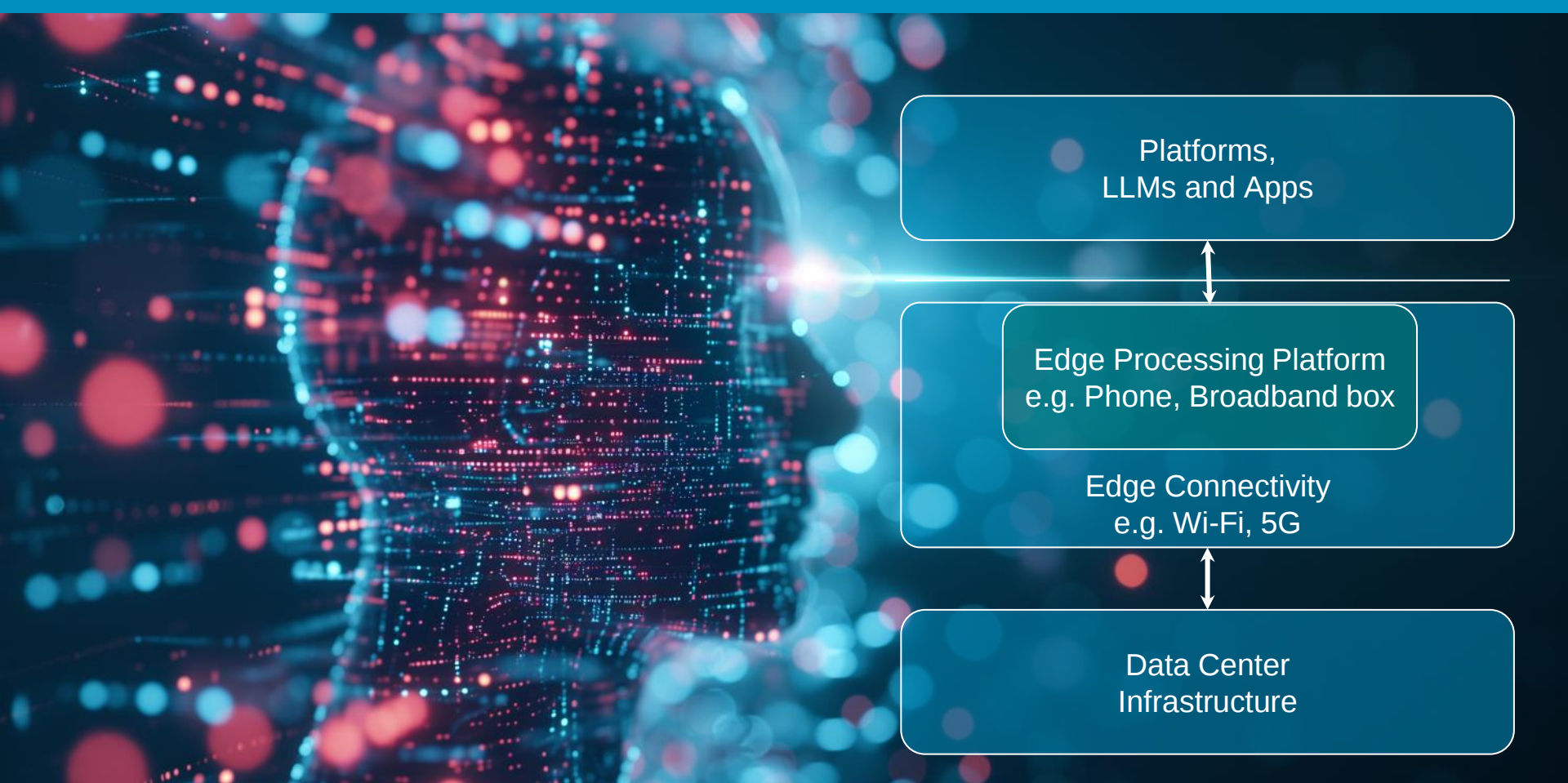


AI Services
Learning / Inference

AI Edge
Compute / Connectivity

AI Data Center
Compute / Connectivity

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AI Hardware **From Edge to Cloud**

Edge Processing Platform
e.g. Phone, Broadband box

Edge Connectivity
e.g. Wi-Fi, 5G

Data Center
Infrastructure

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AI Hardware **From Edge to Cloud**

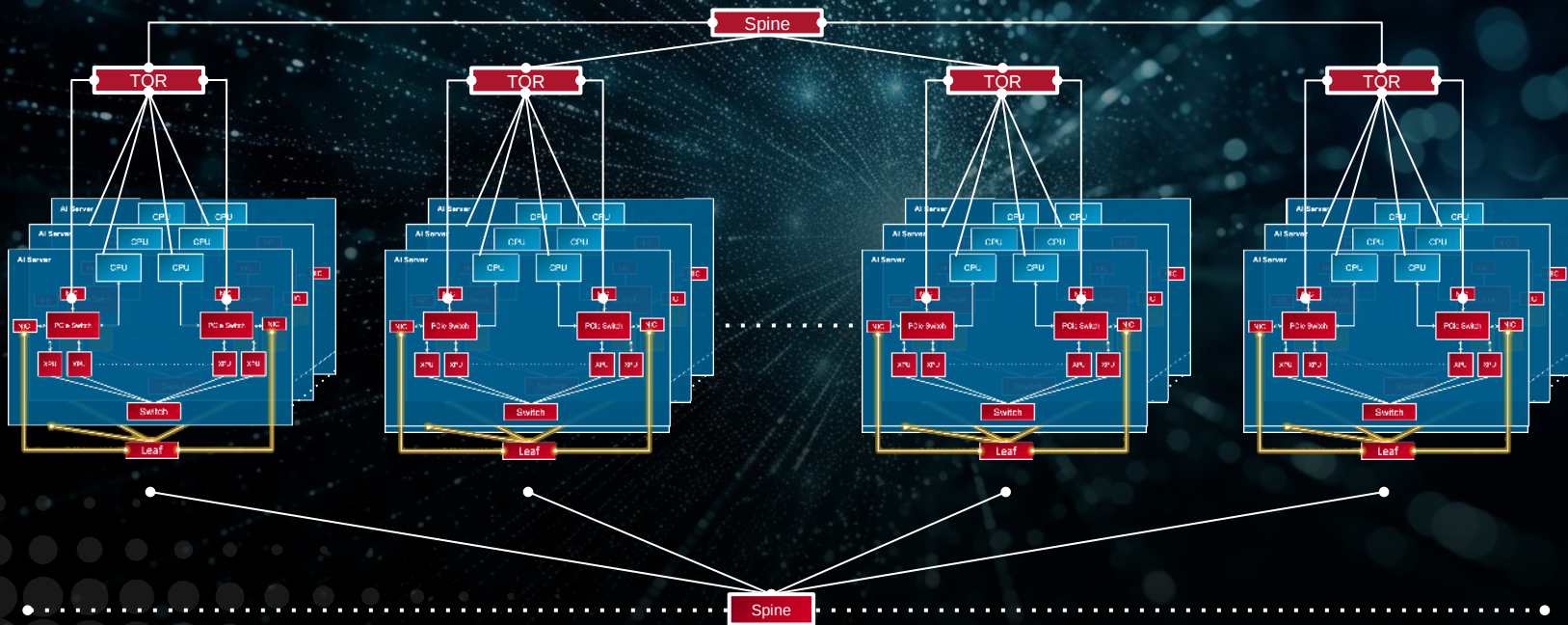
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Data Center
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AI Infrastructure at a Glance

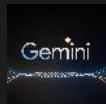
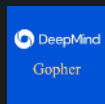
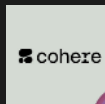


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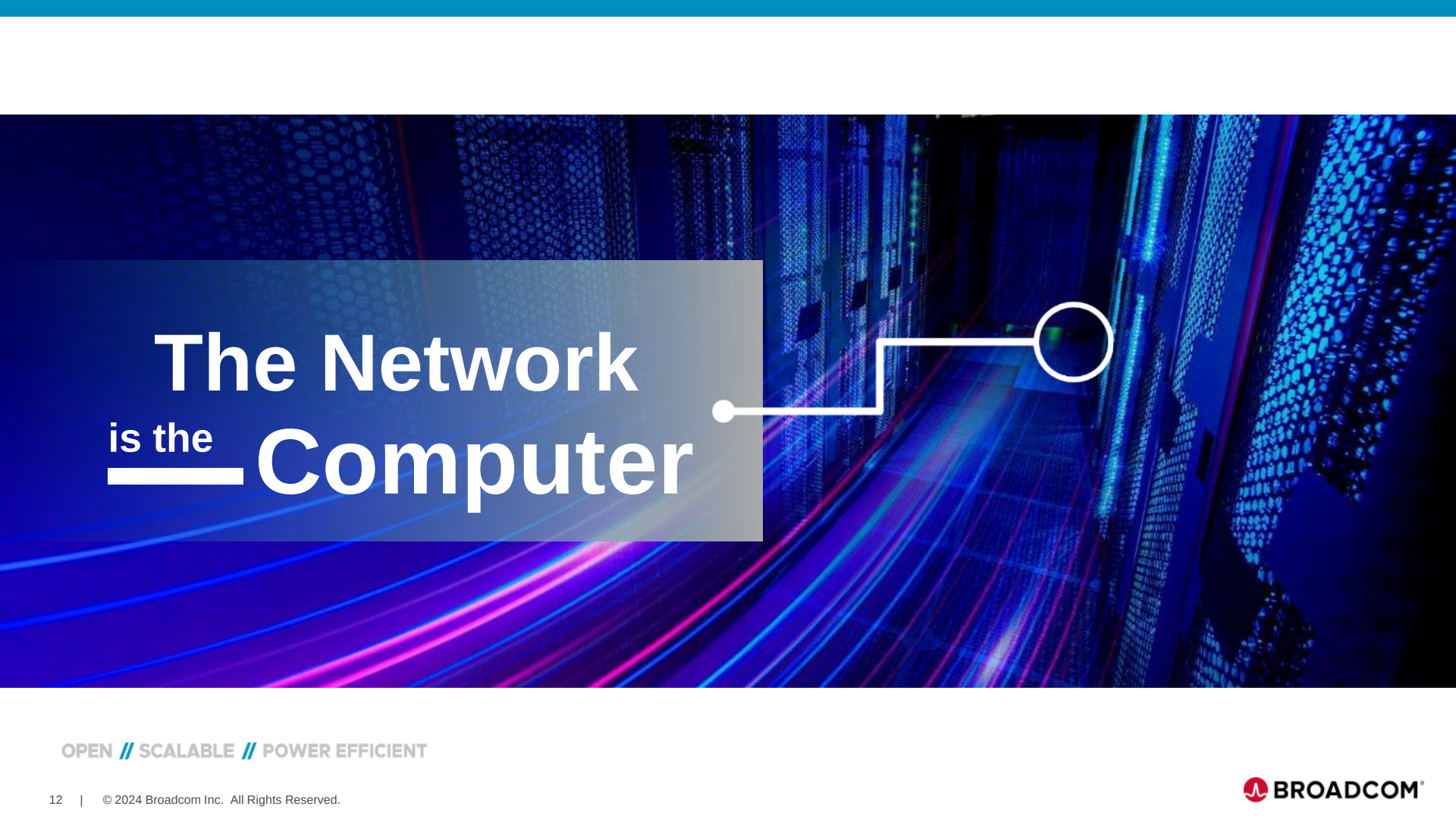
New AI Clusters → **100X+ Scale & Distributed Computing**

1 Million

AI Accelerators



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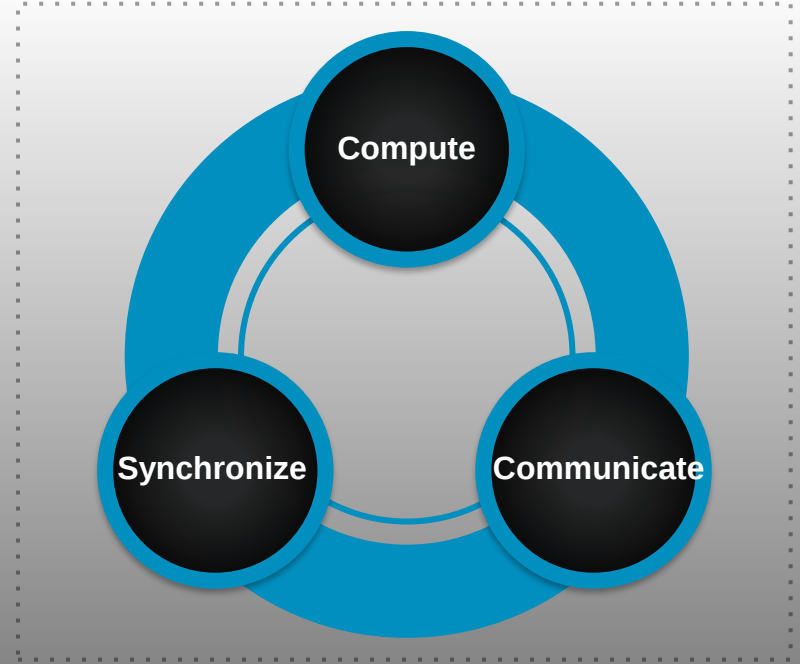


The Network is the Computer

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What Makes AI Networks Unique?

- Very high bandwidth
- RDMA traffic → Bulk data transfers
- Intermittent data surges
- Straggler data impacts job completion time
- Training jobs run over long durations (hours, days)



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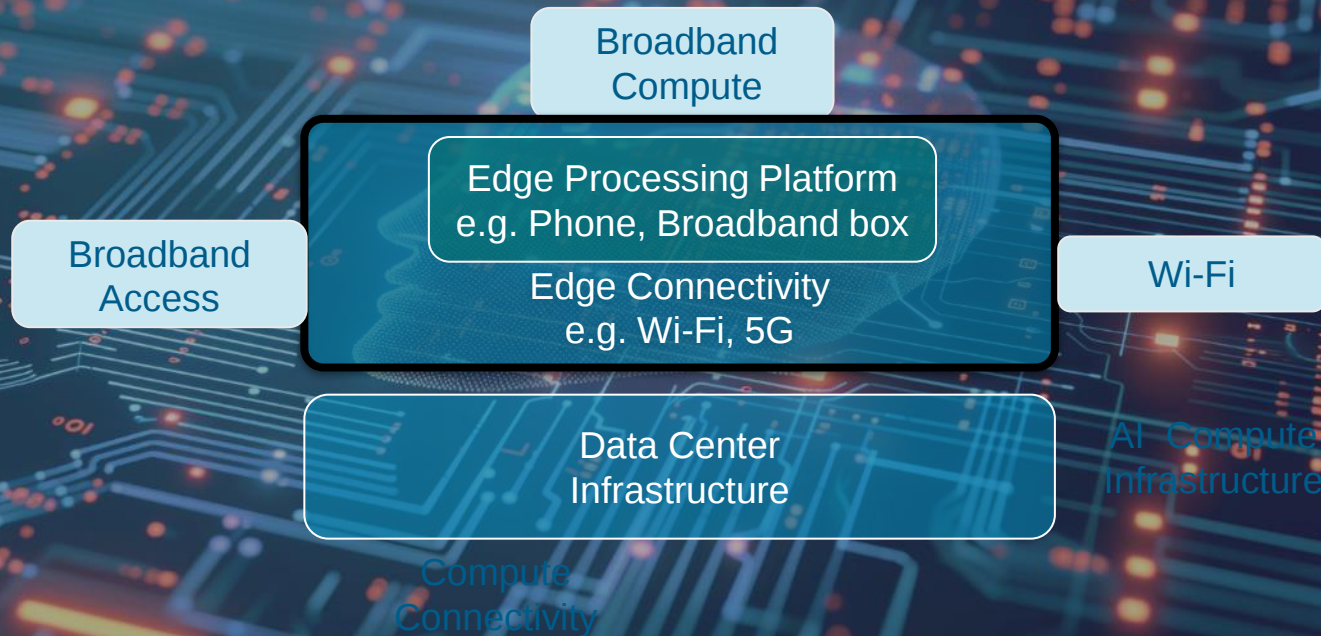
Data Center
Infrastructure

Front-End
Network

Compute
Connectivity

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AI Hardware From Edge to Cloud



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Insatiable Data Appetite



2010 — 2015

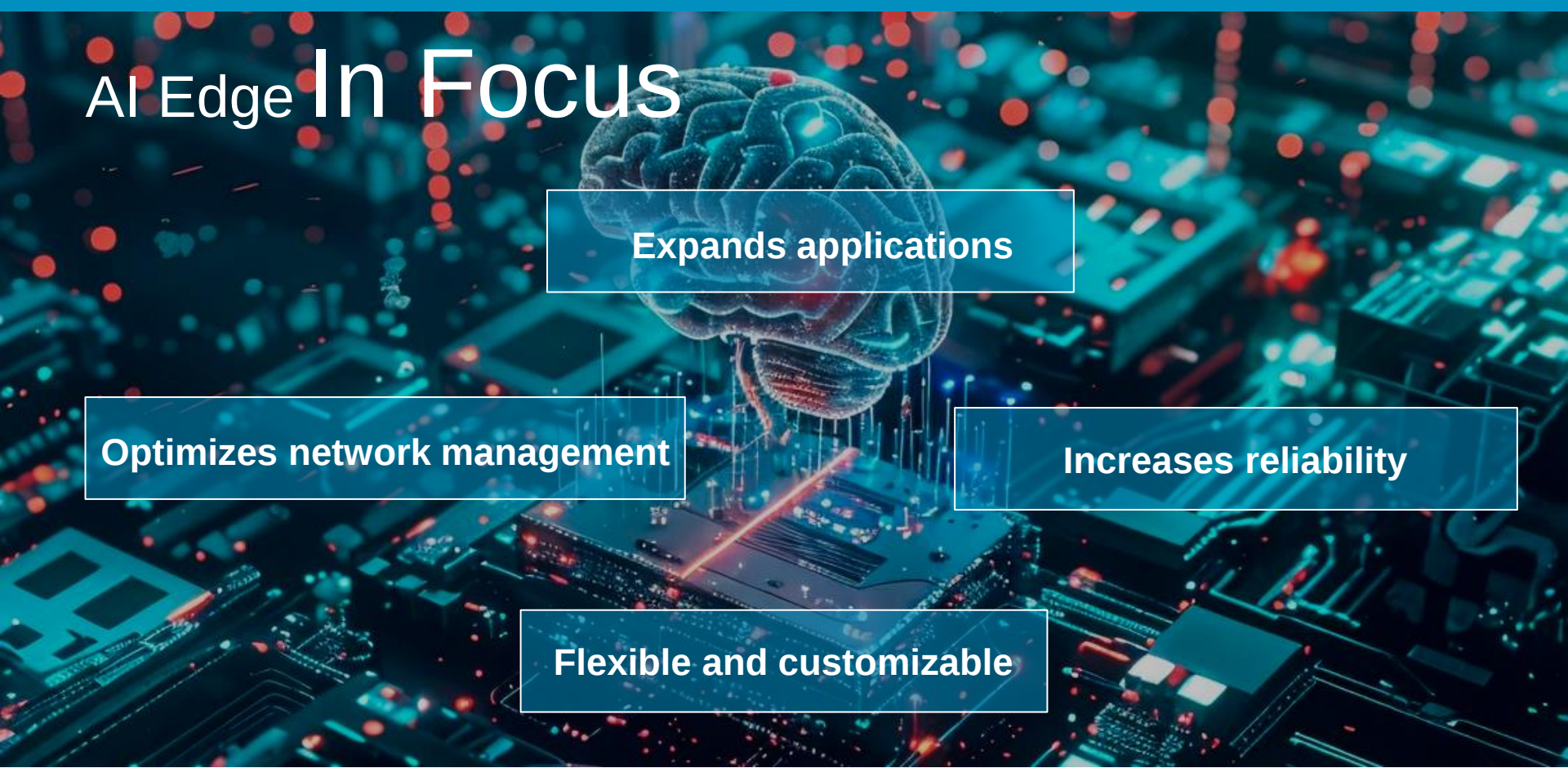


2015 — 2020



2020 — Now

AI Edge In Focus



Expands applications

Optimizes network management

Increases reliability

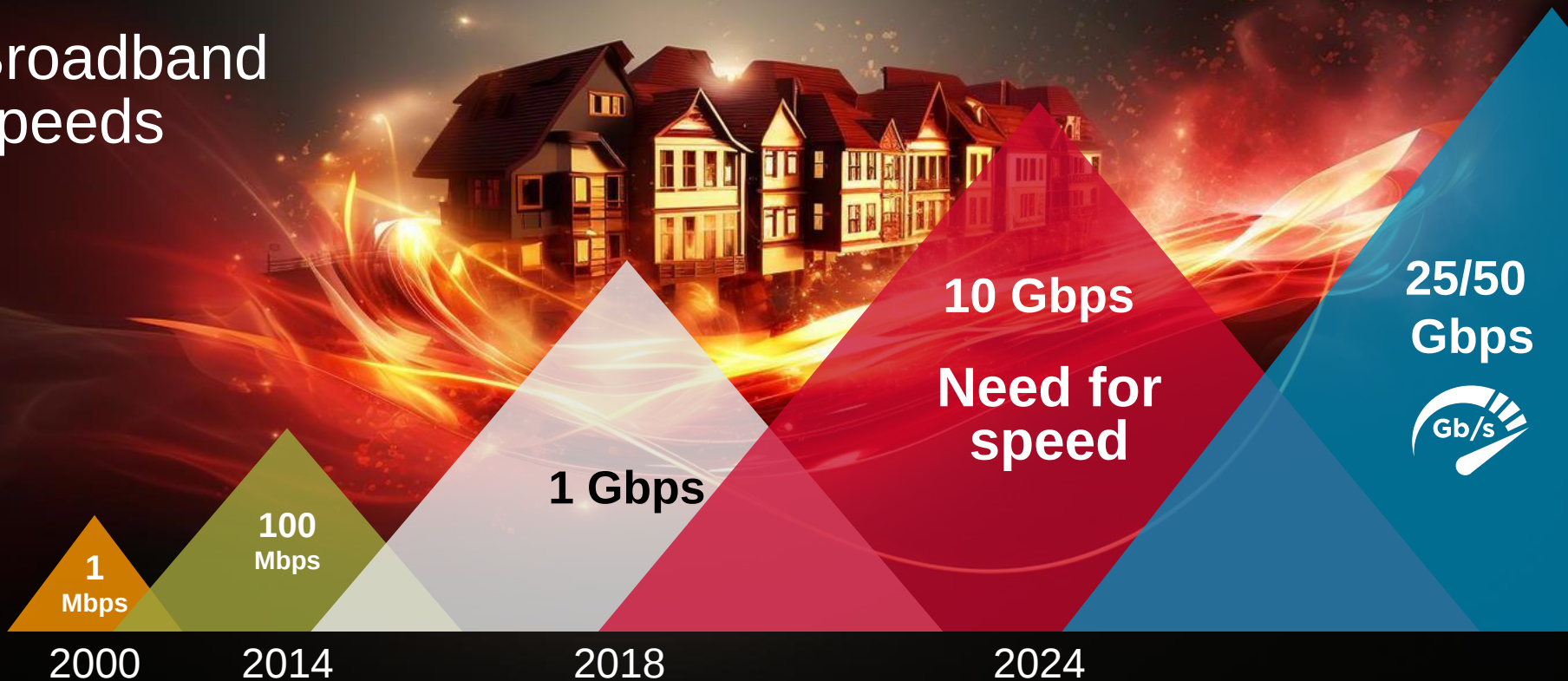
Flexible and customizable

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Source: freepik

10G+

Broadband speeds



5G

6/6E

7

Complementary
technologies at the edge

EXPECTED IN 2027

8

There is no AI without Edge



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