

13:00から

Predictable Data Movement for

HPC & AI

HPC・AI時代に求められる「予測可能なデータ移動」

Prunus Solutions

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Seagate

Compute Performance Has Improved Dramatically

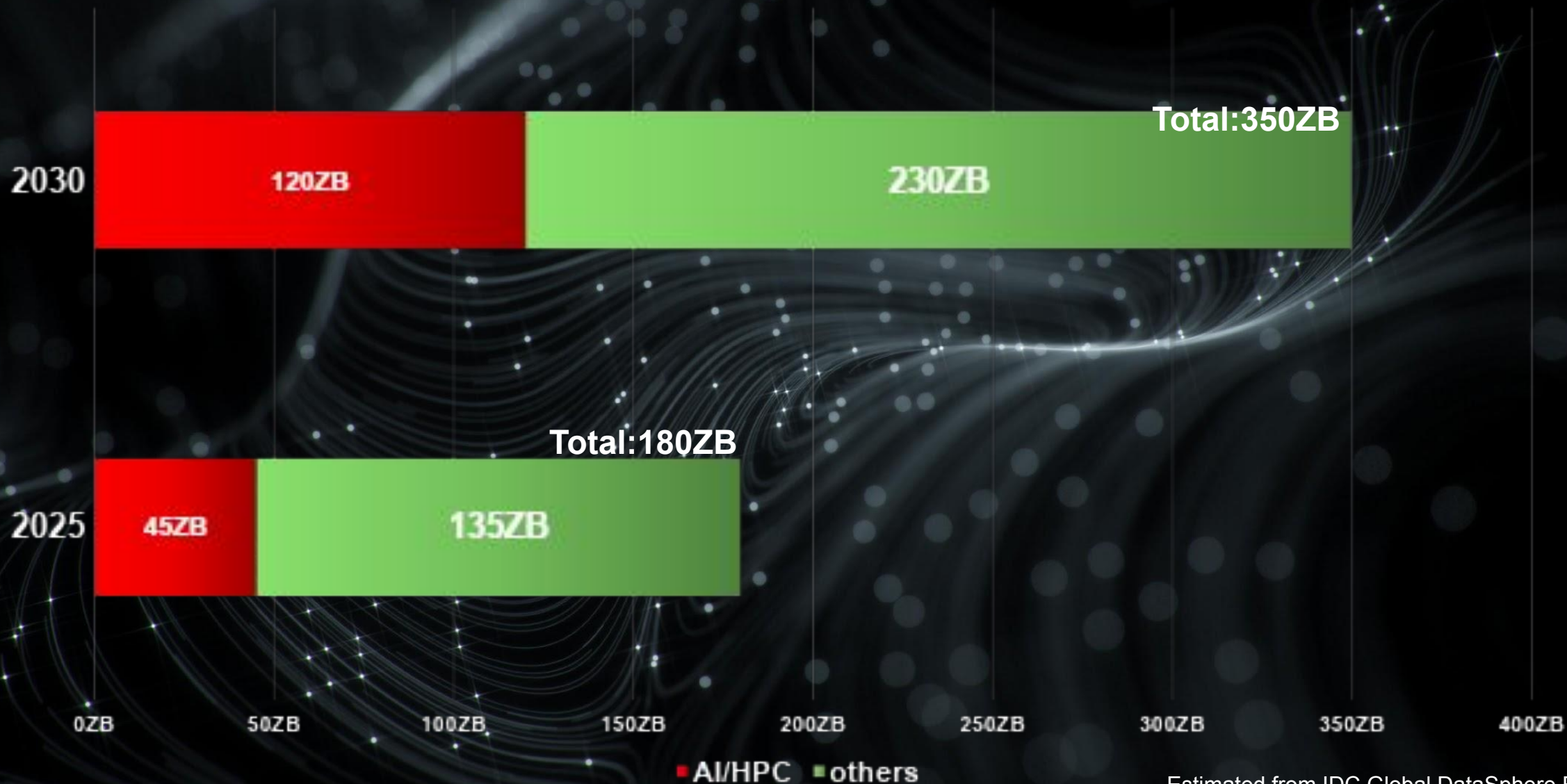
計算性能は劇的に向上した



HPC & AI Data Is Growing Rapidly

HPC・AI関連データは爆発的に増加

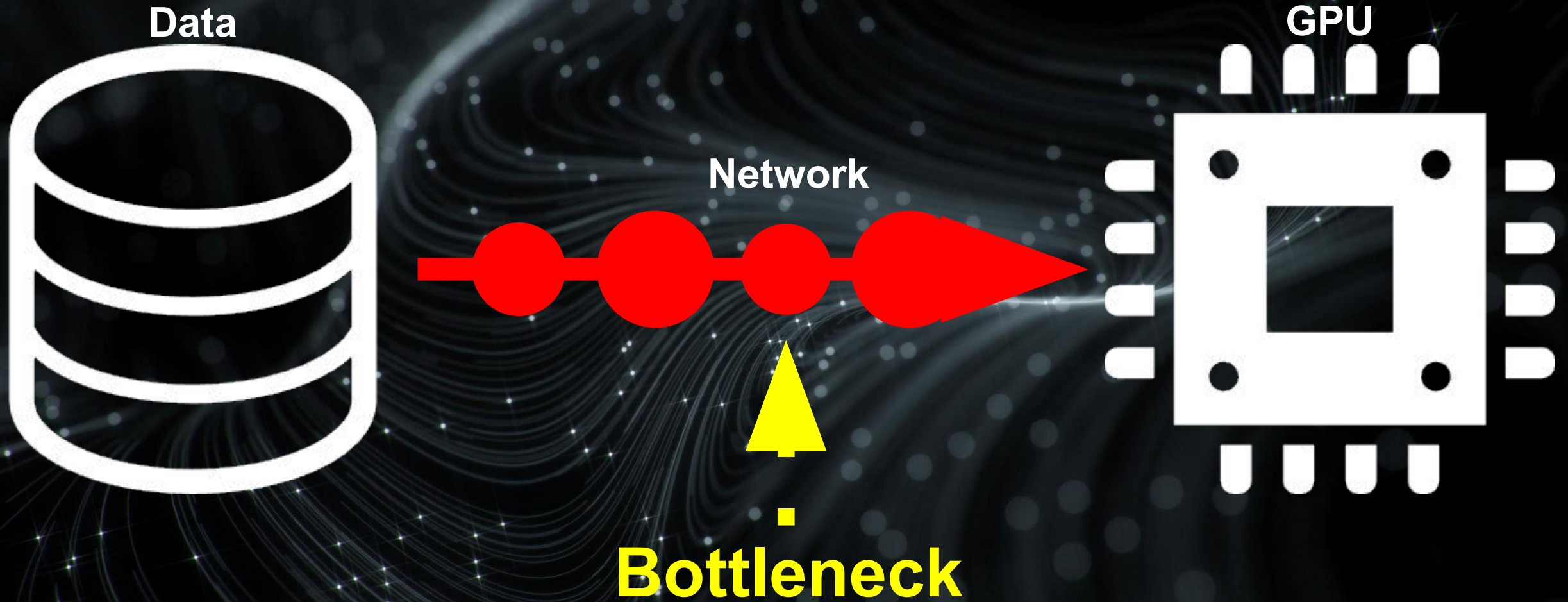
Total amount of data in the world (estimated value)



Estimated from IDC Global DataSphere Forecast

Data Movement Is the Hidden Bottleneck

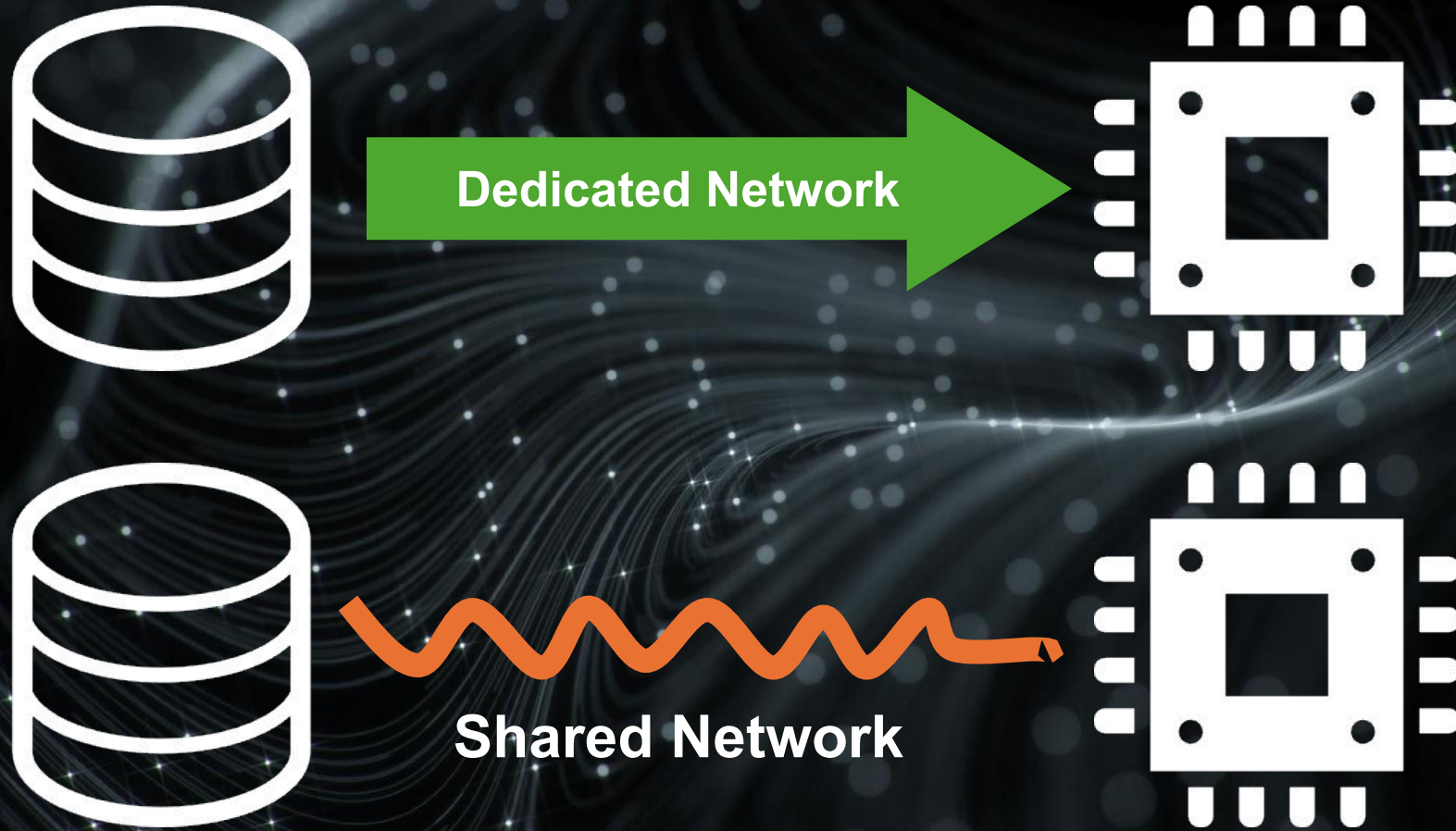
見落とされがちなボトルネックは「データ移動」



Bandwidth Exists — Predictability Often Does Not

回線はあっても、予測できるとは限らない

— Especially in shared network environments —



Bandwidth / Predictability

重要なのは速度ではなく「確定性」

Dedicated Network (Best Case)	Shared Network (Real World)	Physical Data Transfer (Dedicated Storage)
✓ Stable throughput ✓ ~24 hours for 100TB	✓ Variable throughput ✓ Days to weeks (?)	✓ Data copied to dedicated storage ✓ No dependency on shared networks ✓ Transfer time can be planned



Rethinking How We Move Data

Is sending data over networks always the right approach?
データ移動の前提を見直す

Lyve Mobile: Secure and Predictable Data Movement

安全で予測可能なデータ搬送

LYVE™
Mobile

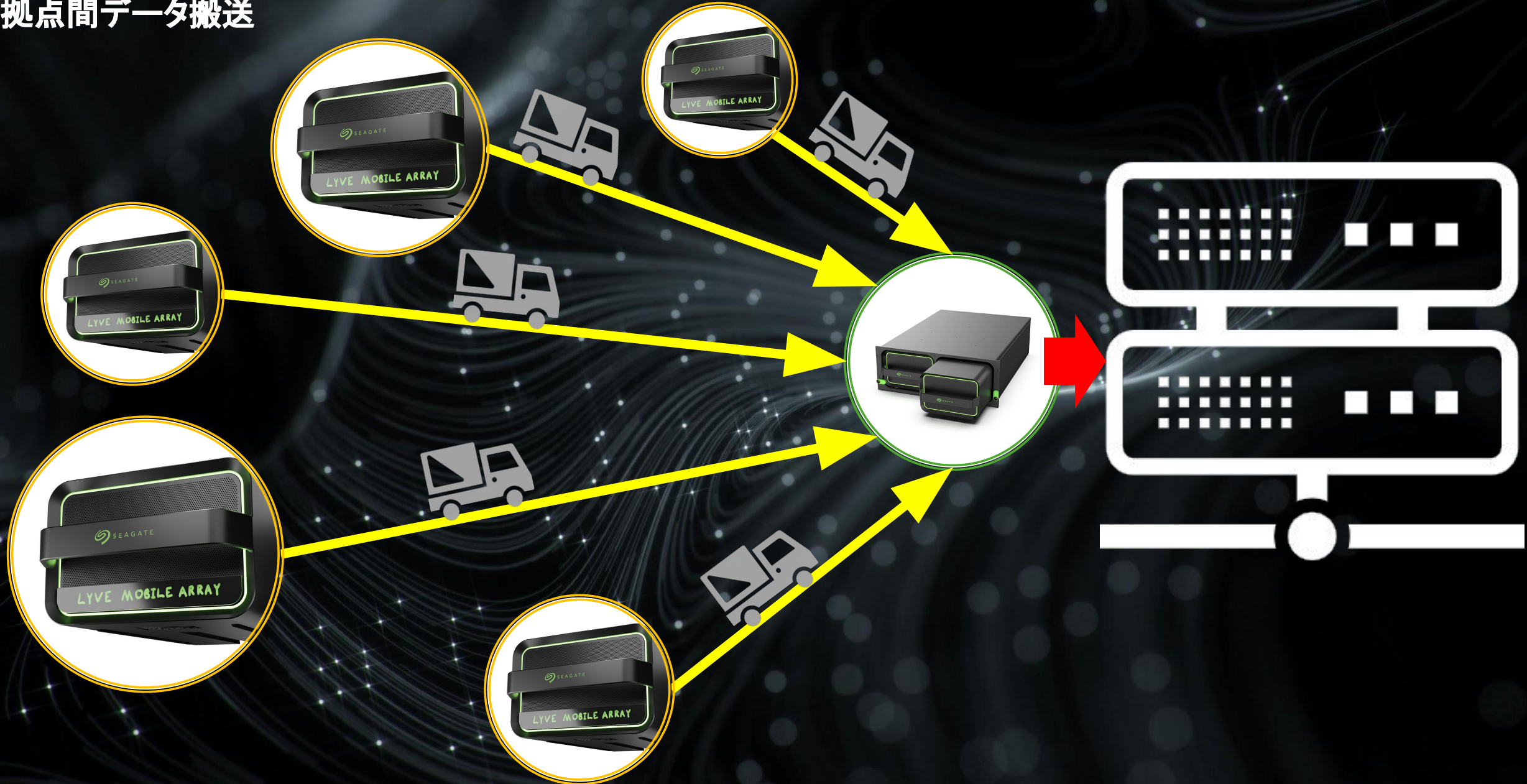


- ✓ Hardware-level encryption (AES-256)
- ✓ Token-based access control
- ✓ No data exposure to shared networks
- ✓ Predictable transfer timelines



On-Premises to On-Premises Data Movement

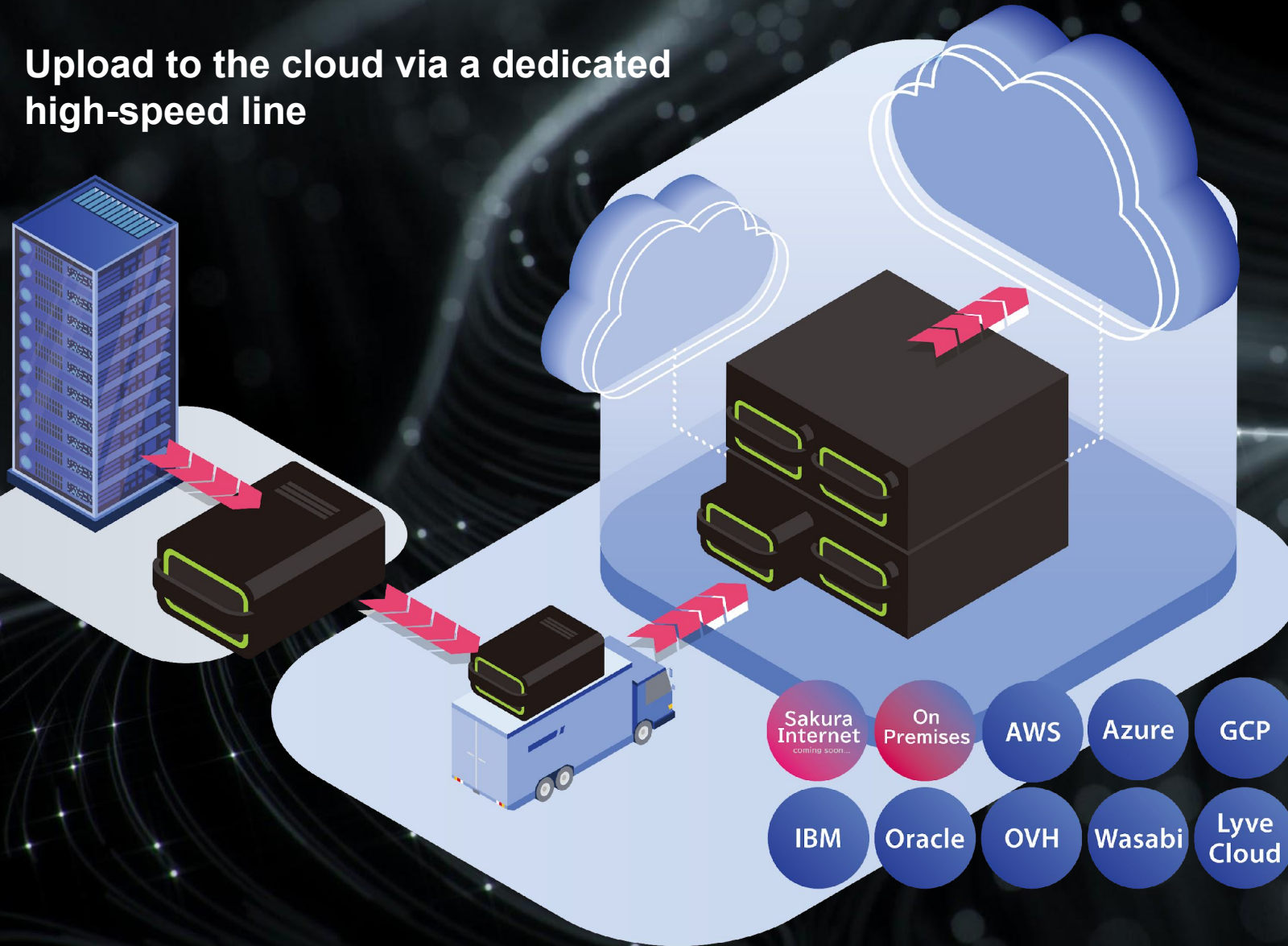
拠点間データ搬送



Cloud Data Import Service

クラウドへデータを上げる

Upload to the cloud via a dedicated high-speed line



Predictable End-to-End Data Ingest

最初から最後まで予測可能なデータ投入



Predictable Data Movement Matters

予測可能なデータ移動が、研究を加速する

LYVE™ Mobile



Prunus-Solutions



SEAGATE

**Before optimizing compute,
optimize how your data moves.**