Hewlett Packard Enterprise

NVIDIA.

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ADVANCING DRUG DISCOVERY

CRITICAL CHALLENGES FOR LIFE SCIENCES ORGANIZATIONS

- Computational bottlenecks limiting drug discovery
- Exponential decline in ROI on R&D investments
- Life sciences data explosion doubling every 7 to 18 months
- Poor predictive validity for discovery
- Lower productivity and economic value of drug discovery workflows
- Timely access to mission-critical data to multiple teams at the same time

UNLOCKING NEW VALUE AND INSIGHT WITH AI

AI provides accelerated intelligence and understanding for drug discovery use cases such as genomics, computational chemistry, and structure-based drug design to deliver breakthrough disease treatments.

Next Generation Sequencing

Accelerating therapeutic discovery with a high throughput genomic pipeline

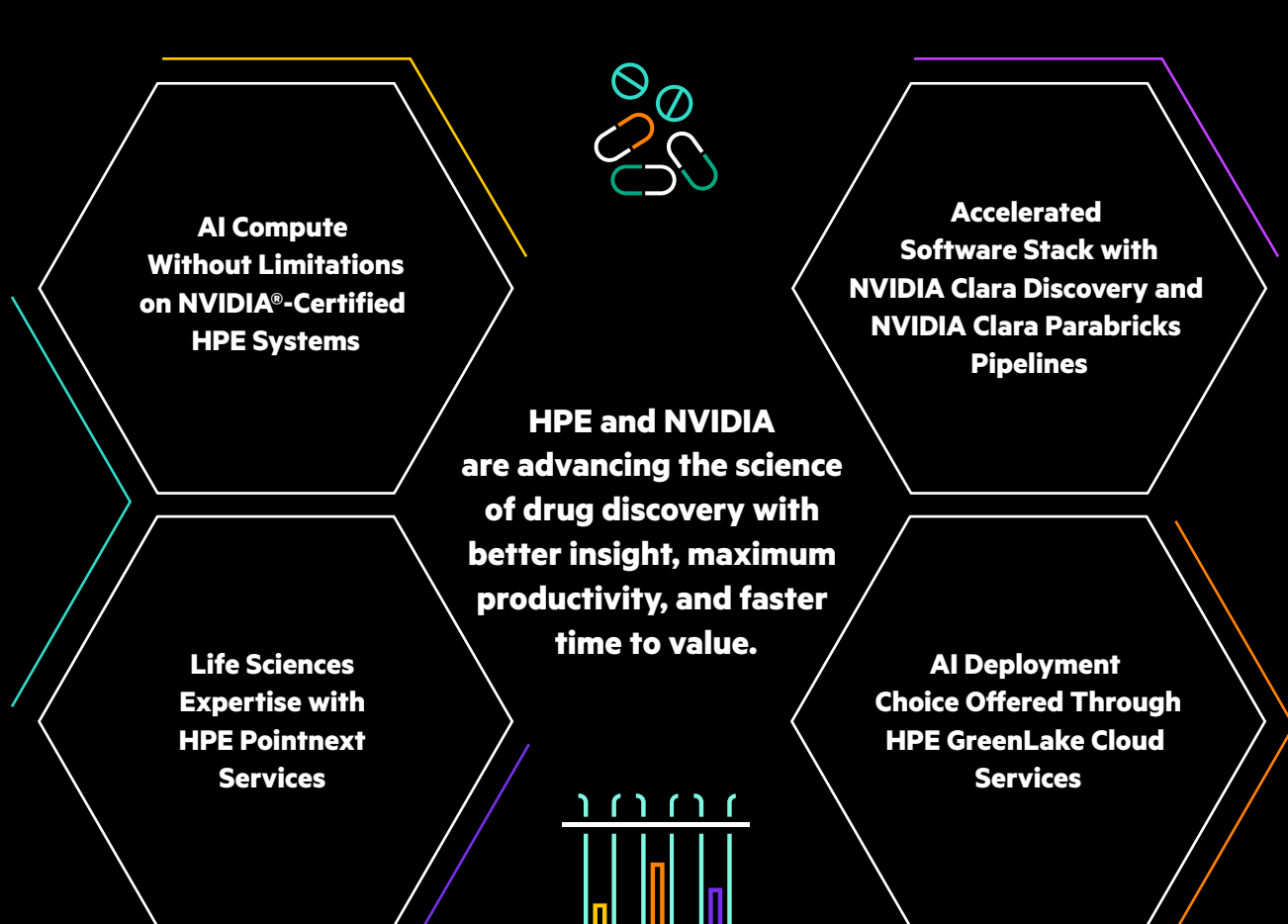**Computational Chemistry**

Early lead discovery and optimization to accelerate time to therapeutic outcomes

Structure-Based Drug Design

Targeted lead optimization and off-target characterization with Cryo-EM structures for improved drug/therapeutic design

REVOLUTIONIZING DRUG DISCOVERY WORKFLOWS

AI Compute Without Limitations on NVIDIA®-Certified HPE Systems

Accelerated Software Stack with NVIDIA Clara Discovery and NVIDIA Clara Parabricks Pipelines

HPE and NVIDIA are advancing the science of drug discovery with better insight, maximum productivity, and faster time to value.

Life Sciences Expertise with HPE Pointnext Services

AI Deployment Choice Offered Through HPE GreenLake Cloud Services

HPE AND NVIDIA LIFE SCIENCES ADVANTAGE

HPE and NVIDIA solutions deliver unprecedented drug discovery outcomes, with accelerated time to discovery and improved therapeutics.

33x faster screen of 2B components (1 day vs. 3 months)[1]

76x improvement in throughput performance of WGS workflows[2]

100x improvement screen of 10M drugs (8 minutes versus 240 days)[1]

99.9% more accurate in precision and sensitivity of WGS analysis[2]

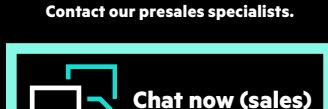**Supercharged Drug Discovery**

Enhanced Genomics Research

Transformative Therapy Development

Higher Quality of Life

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