## The Al Knowledge Factory: The NEXT Efficient Economic Engine

## Perception

Al Data Centers are...



hungry

Strain the arid









Perspective Al can...



Enable a knowledge factory that enhances the performance of all sectors

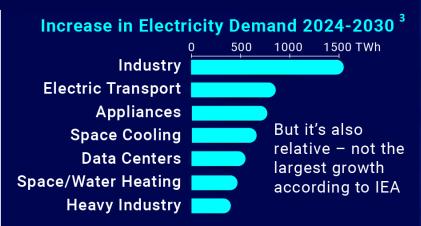
**Boost** GDP by \$2.6-\$15.7T Efficiently grow that GDP ~3x

## Globally, AI is Driving Increased Electricity Consumption

Consumption to double by 2030 from **415TWh** to 945 TWh. 2



That's 530 TWh of NEW electricity consumption, but with new advances in chip performance, increased utilization could result in even higher growth.





## But that Consumption is Expected to EFFICIENTLY Grow GDP

Current global efficiency \$4/kWh



+\$2.6-\$15.7<sup>5</sup>

Al forecasted to add \$2.6-\$15.7T GDP by 2030

At **530TWh** 

consumption, that's \$5-\$30/kWh

At midpoint of range that's 3x additional economic value per kWh



Sources: 1. PwC (sector list not exhaustive), 2. IEA, 3. IEA 4. EIA, 5. McKinsey