

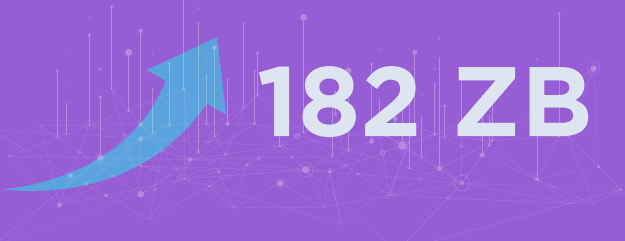
FUTURE READY ON-DEMAND SOLUTIONS

DATANEXUS CLUSTER

Shared Highlights and Challenges
from the workshop on 18 Feb 2025

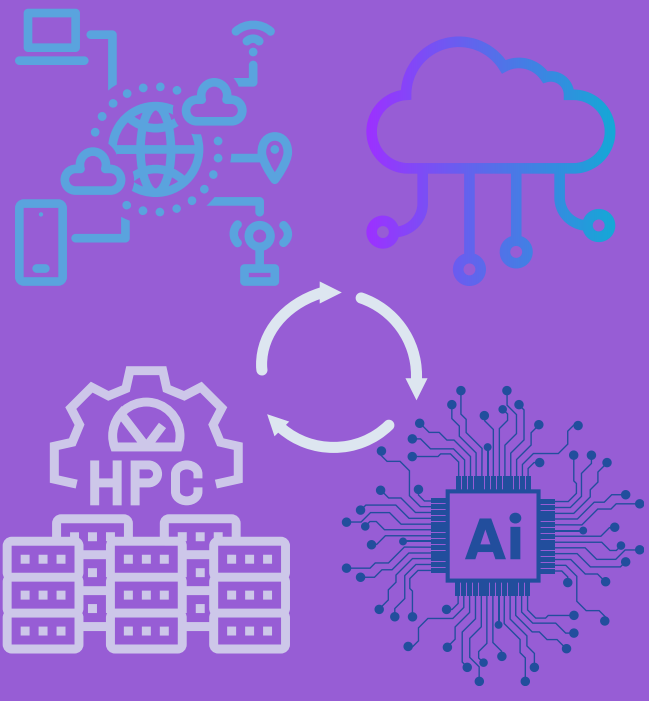
From **Extreme Data** to **AI Insights**

Meet the 7 EU-funded projects working across the **Compute Continuum** to provide technologies & solutions for extreme data mining, aggregation & analytics



of data created, consumed and stored by 2025 and this will continue to grow

Challenges associated with extreme data require approaches that span the entire compute continuum (edge, cloud, high performance computing)



Extreme data goes beyond merely high volume to include high velocity and variety

We support Europe's commitment to digital innovation and economic and societal impact!

Projects are...

advancing seamless orchestration across cloud, edge and HPC environments

helping to ensure accuracy, fairness & security of AI-driven decisions by improving data discovery, filtering & processing

prioritizing open-source toolkits, datasets and platforms to enable broader industrial adoption & community-driven advancements

CHALLENGES AND RECOMMENDATIONS: THERE IS NO AI WITHOUT DATA

We still need....

Investment in extreme data research challenges like model explainability, neural symbolic AI, HPC



Support for interoperability (like RISC-V) between AI, HPC, and cloud/edge computing to enhance efficiency



To expose/deploy extreme data sources in major EU HPC/Cloud locations to ensure near-data computing