





the challenges to overcome, and areas of collaborative research to pursue. The alliance plans to continue such interaction in order to collaborate on research in the area of semiconductor device and process as well.



chips is excessive for applications such as sophisticated AI and cryptographic processing. Meanwhile, with the exponential growth of data and rising demand for service quality and reliability resulting from the emergence of a knowledge-intensive society, the only way to improve processing performance and enhance security while staying within the system power constraints is to increase energy efficiency. Consequently, reduction in energy consumption of data processing both at the edge and in the cloud has become the most important challenge to overcome.

