

## *Policy Actions For Reliable And Robust AI Compute Governance*

This policy memo proposes chip registration/chip location verification and a whistleblower incentive and protection programme as policy recommendations for the Department of Commerce. These recommendations protect U.S. national security while maintaining its international position in AI chips.

### **SUMMARY**

As frontier AI systems pose extreme “dual-use” security risks, compute controls are an effective and realistic way to limit frontier AI systems capabilities and prevent unwanted actors from accessing those capabilities. Recent BIS actions have rescinded the [Framework for Artificial Intelligence Diffusion](#) of January 2025 and issued new guidance, including [new end-use controls for advanced computing items](#), [guidance to prevent diversion](#), and [controls on Chinese ICs](#). The [Foundry Due Diligence Rule](#) additionally mandates due diligence and licensing.

### **ANALYSIS OF CURRENT BIS EXPORT CONTROLS**

- **Safeguarding against information leaks:** As compute is a [strategic, military, and economic resource](#), current BIS export controls aim to restrict adversary access to frontier training compute and weights through the [AI chip supply-chain](#), particularly against China.
- **Fragile training compute thresholds:** Numeric performance thresholds (such as [TPP<=4800](#)) are [easy to evade](#) by distributing workloads across clusters, or by low-compute models like DeepSeek R1, and serve as a [poor proxy](#) for capabilities.
- **Lack of regulatory binding force:** Non-regulatory advisories, uneven due-diligence burdens, and weak enforcement create unpredictability and compliance burdens for exporters.
- **Model weight enforcement challenges:** Controlling AI weights is an extremely [complex](#) and hard to enforce process which will become more challenging as models increase in size.

### **RECOMMENDATIONS FOR THE DEPARTMENT OF COMMERCE**

- The Department of Commerce should strengthen export control by implementing specific **chip registration and chip location tracking methods** to [secure the AI chip supply chain](#). [Chip location verification through attestation](#) has been successfully prototyped, does not pose a privacy risk, and does not contain any security backdoors. The BIS could create a feasible and well-enforced [chip registration policy](#) consisting of manufacturing registration requirements and transfer reporting requirements.
- [Chip smuggling into China](#) is a major enforcement issue that BIS can tackle with a low-cost [whistleblowing incentive and protection programme](#). This programme would incentivise whistleblowers to report chip smuggling by providing monetary support for penalties and offering protection and confidentiality.