APPENDIX TABLE 3A-2. Indication of quantitative and qualitative discussions of impacts across the three domains of criticality in the four areas of technology. "Discussed" refers to projects that qualitatively discuss a given national objective without making it their core metric of performance. Direction of arrow corresponds to strategic planning vs. impact-assessing metrics: left-facing arrows indicate historical assessment metrics and right-facing arrows indicate future strategic planning metrics. Numbers in the arrows correspond to the note numbers below.

National objective	Security	Prosperity			Social well-being		
Project topic area		Economy	Productivity	Labor	Health	Climate	Equity
AI			← 1	→ 2			→ 3
Semi-conductors	discussed	discussed	← 4 ← 5	→ 6			discussed
Biopharma	discussed	discussed			← 7		
Energy and critical materials		→ 8		→ 9		discussed	discussed

1 Firm-level productivity increase following receipt of an AI-related patent

2 Change in quantity of job postings by a firm following its first machine learning (ML)-related job posting, both ML- and non-ML-related

3 Geographic concentration of AI-adopting firms

4 Historical economywide productivity increase derived from improved semiconductor performance

5 Modeled economywide productivity gains from advanced "beyond-CMOS" semiconductor technologies and estimated commercialization costs of these technologies

6 Geographically mapped semiconductor technician skill supply and identified clusters with potentially transferable skills

7 Essential medicine domestic supply chain resilience and barriers to advanced manufacturing adoption

8 Electric vehicle pass-through cost sensitivity to a battery material price increase

9 Battery manufacturing and supply chain labor demand and skill supply mapping