

April 30, 2023

FROM - Dr. Aiden Maxwell, Chief Advisor on Artificial Intelligence

## TO NOTE

### Trends in International Technological Advancements

#### SUMMARY

1. There have been considerable international advancements in the technology sector, especially in areas like data analytics, machine learning, robotics, and other digital technologies. Some nations have been pioneering in these fields, contributing significantly to global technological progress. While the focus is broad, a small but noticeable component of this progress is related to developments in Artificial Intelligence (AI), which is increasingly becoming a crucial aspect of technological advancements worldwide.

#### RECOMMENDATION

2. This is for information purposes only, and no immediate action is required. However, the Minister may want to consider how these developments could influence our domestic technological strategies and policies.

#### TIMING

3. As the pace of technological advancement continues to accelerate, it is beneficial for us to stay updated on the latest trends and developments.

#### BACKGROUND

4. Global advancements in the technology sector have implications for our domestic strategies and policies. Notably:
5. **GLOBAL TRENDS:** Several nations are investing heavily in technological advancements, resulting in rapid progress in areas like machine learning, data analytics, and robotics.
6. **AI DEVELOPMENTS:** Although not the primary focus of this note, it is worth mentioning that AI is a small but significant part of these developments.
7. **IMPLICATIONS:** Understanding these global trends can inform our domestic strategies and policies, ensuring that we remain competitive in the global technology arena.
8. Keeping abreast of international technological advancements aids in shaping our domestic technological strategies and policies.

#### CLEARANCE LIST

Team	Clearance necessary?	Named lead who has cleared

<b>SCS</b>	No	
<b>Perm Sec</b>	No	
<b>Second Perm Sec</b>	No	
<b>Communications (inc named Press Officer)</b>	Yes	Lara Chambers
<b>Finance/Fiscal Events</b>	No	
<b>HR</b>	No	
<b>Legal</b>	No	
<b>Parliamentary Unit</b>	No	
<b>Devolution</b>	No	
<b>Analysis</b>	No	
<b>HMTc</b>	No	
<b>Other</b>	Yes	Department for Digital, Culture, Media, and Sport, Office for Artificial Intelligence,