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innovation over human factors such as the volatility of alliances and strategic alignments. It is essential, therefore, to be dear that forecasting the origins or actors from which the atsoriginate is a very different problem from predicting the vectors or shape those threats will take when implemented. However, the latter will inevitably shape the former to a significant degree.

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Girarepresents the noneradical shift in the threat environment. This is partly because of scale but mainly because Girais pusuit of dominance in key emerging technologies such as artificial intelligence (AI) and quantum computing imply very different potential threat vectors from other states, and at very different levels. The most intuitive of these transformations in kinetic threats at the tactical and operational levels from AI controlled swarms of unnewed systems that increase agility and accelerate the user's decision cycle. A farmore profounds hift is presented by the degree to which international competitionshifts to a technological competition and economic competition that will decide which ground it is a players will hold the necessary technological advantages.

In this cortest, developments like the HRCs belt-androad initiative become strategic positioning enterprises, creatingalizanes of commicaligment and dependence amongst states that the West has difficulty cultivating. Technology acquisition, whether overt, dand stine, or merely conceiled by accordages of community or merely conceiled by accordance of community or states or merely conceiled by accordance or merely conceiled by according to the state of conceiled by according to the state of the transport of the transport of the state o

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The most striking transformation in intelligence priorities currently is, therefore, a renewed emphasis on , covering countersubversion (influence) and countersubversion (influ





rational security capabilities depends furthementally one commic prosperity. Under both the and the UKs Security and Intelligence Agencies has east a total committee to operate in support of the UKs 'economic well being'. The relationship between Defence Intelligence and 'economic well being', however, is more one of dependence than gradianship. Defence counterint elligence is particularly dose to this problem because of the importance of counterint elligence competence in the industrial and technological supply drains. Consequently, counterint elligence reeds to be seen as integral to intelligence as a Defence 'Function' as intelligence production to support decision making and unless tarning.

Question 2 Howhave the threats charged, and how could they charge further?

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Space is now note than just a collection vector for us it is an acrain which we need to develop domain avaicness, and a verue into which our counterint elignocent expired.

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. The bariers to entry into very rich open source intelligence are extremely low Any actor with modest resources can buy satellite data, or data derived from satellites at competitive prices. Reviously this would have been restricted solely to major states. These capabilities stretch dose to ubiquitous technical surveillance. It is deeply worrying that such a wide range of state actors or monstate actors could exploit large datasets for intelligence purposes, developing Insights into our organisations and identifying access points. It is a deeply worrying trend, which we think we will see grown one in the next five years paired with increasing availability from doubt or processing capabilities to extract value from those big datasets.

Exercises a very sophisticated sensor for sound, images and locations in their podets all the time with their mobile phones. With billions of these devices, and their data pull captured by state and commercial.





geopolitical events, logistical disruptions or supply drain interdictions. The panel observes that China could potentially leverage its Export Control Law of Ottober 2020 to weaponize logistics. Given Brijing's close ties with Russia, weaponization of the supply drain could negatively impact the UK and other states that support Ukraine.

23 Gira has capitalized on filling the wind of funding making sweetheart of fiers to academics or departments. For





coss greenment apportunities towark together using the fusion doctrine. From strategic to tactical levels, the China drallenge can bring together the MOD KOD) and other one groups, alongside academia and commercial entities. It is an apportunity to look at how intelligence of the future should be A defensive front that includes the UK private tech sector will be beneficial, as many of the problems possible by China can be achievable when the inclustry works in collaboration with the UK.





collection, analysis, and public diplomacy. Investment in and partnership with these sectors should continue to be a priority.

Security risks in the private sector posed by hostile foreign powers (FHS) must be solved collaboratively. The panel articipates origing integration of cloud computing AI, and web 30 (blockhain) into the MODs intelligence storage retrieval, analysis, and validation systems. Usaine, in the middle of an existential emergency, has moved exclusively to do urbecause of the security and resilience it offers (it is also draper). The panel viewed this shift as inevitable, and the sooner the UK adapts, the better. There are also counterintelligence opportunities to be found in firms which do not qualify for lists x/ISC. These can be targets for threat shut also vectors to not the mout.

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Withreference to the discussion on countering the belt archord project, intelligence partnerships within the global southment be developed and not used to moritor; contain, or even counteract the PRCs expanding influence. The noturing of new and important relationships will require investment in both attention and personnel. This requires some devotion to specialism within the ROD and MOD. This effort could be augmented further through partnership with private entities such as defence and security consultances.

- . It is at least partly responsible for the UKs outsized influence in diplomatic; security, and geopolitical affairs. We would expect this to continue, however; the UK must plan contingencies for a range of adverse outcomes, especially if American policy returns toward NAIO sceptioism, is obtained in a reven rapproducement with powers hostile to UK interests. These plans must prepare the MOD for substantial charges in process with respect to foreign liaison. This increased burden also presents opportunities for the UK to lead intelligence partnership among demonaries.
- Where family ties to HHs cristates with whom we are developing doser intelligence ties are often viewed as negative, we may be excluding takent and personnel with access and knowledge to a case of interest. The MCD meeds to build vetting practices that allow it to bring 1st generation migrants more easily into service, to harress their languages and cultural knowledge.

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This is an opportunity to reform vetting and list-x (ISC), so to create and exploit these opportunities. Also, a more technical (and, likely, technologically driven) approach to information control would enable confidence within the MCD when employing and cooperating with subjects traditionally regarded as "risks,"

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These decisions must be guided by a dear picture of political (or other material) outcomes. Estoria vas oited as an example of a state whose IC prioritises cooperation based on capability. This presents some outural difficulties though, as it requires both the UK and its partners to consede their own limitations. Beyond that, naturally, the UK spriorities for intelligence partnership should be diven by the national interest and UK policy and strategy.







