Resilience in homeland security

[Name of the Writer]

[Name of the Institution]

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**Essay I**

It is a common observation that the cultivation of crops and livestock is one of the vital components of the economy of the nation. According to the US Department of Agriculture, the food systems are interconnected by nature accompanied by an open and complex framework. It paves the way for ample targets for terrorists who are seeking and trying to harm the America's way of life. Still, there are some plans and strategies that can be formulated by critical thinking to ensure maximum resilience for the food and agriculture within the United States. These strategies are meant for the White House Chief of Staff formulated by synchronization of Secretary of Agriculture and Homeland Security.

The United States is a country that has a diverse context of action in different departments of work. in order to ensure food security resilience, food security program should be introduced. As food security depends on addressing the entire value chain that proceeds from guiding and facilitating farmers to the investment in crops to achieve long term goals, programs similar to PEPFAR should be introduced. The President Emergency Plan for Aid Relief is one of the major initiatives that can help to ensure food security. Focusing on science and technology in community such as incorporation of immediate incentives should be drafted in the tax code so as to ensure investment in food innovation. It also includes initiatives that can empower public-private partnership that should be forged in ways that can help to increase access of basic agricultural approach to innovation. It will reduce external support, resulting in the mitigation of food waste and improve tracking food entry in the system. In this case, care should be taken in terms of biotechnological advances that can create protein without animals so as to reduce greenhouse gases (Sylves & R, 2019). Multi-stakeholder approach is another initiative that can be taken to ensure resilience in food security taking into account that vulnerable people would be made to build resilience that is beyond the capacity of any single department or institution. It is an approach that infers a cohesive framework in which different sectors and departments are brought on the same board so that they support to create a partnership. Another step that can be taken to empower homeland food security resilience is to combine both, humanitarian reliefs and development. It involves the planning of a framework that would combine subject platforms in a linear manner. Humanitarian relief would be incorporated in addressing the crisis or shock phase while the other one would be applied in the latter condition that would stabilize the shock or crisis. It would affirm the essence of resilience that is a long term and continuous effort which can help to support vulnerability while empowering the ability of government and people to better manage risks in future. Incorporation of risk-sensitive approaches is another resilience supporting frame (Sylves & R, 2019). It is evident that effective risk management requires an explicit force on the making of competencies of national government along with critical analysis and enhanced monitoring. There are a lot of countries that require early warning system that can help to trigger a flexible response mechanism on appropriate scale. The same approach is required by the United States as well in cases when predetermined thresholds are exceeded (Sylves & R, 2019).

 All these approaches and steps can have long term scope that can help to empower homeland food security in the United States. Another aspect that asserts the significance of this approach is, resilience-building options are both country and context-specific. In the context of United States, these steps can prove effective by empowering the current prevailing context and bringing ease to the future platforms as well.

Reference

Sylves, R. T. (2019). *Disaster policy and politics: Emergency management and homeland security*. CQ Press.

**Essay 2**

To US Energy and Banking System

From Secretary of Treasure

Date 21-09-2019

 Taking into account the fact that over the last five years, the number of successful hacking events have increased, because of the online banking and online technological interventions. Being a secretary of the treasury and assembled with the chartered presidentially approved group of people, a ten-step approach is designed that can help to enhance the resilience of the business sectors.

**Discussion**

 According to the Cybersecurity Intelligence Index, it is asserted that about 60% of threats to banking are associated with the institution itself. It is found that many of the risks arising from the third-party agreements, where finical institutions rely more on the partnership areas tend to reduce the cost associated with set regulations. This aspect refers to the use of technology to deal with issues related to banking. Another essence that is related to the issues and threats in online banking refers to the DDoS attacks (Bruni et al. 2019). These attacks occur with the help of the Internet of Things, accompanied by the hacking of devices. Taking into account the fact that the major threats belong to the use of technology. The security plan would be defined in coordination with that potent threat, so, there is a dire need to implement those strategies that can help to overcome and mitigate the risks associated with online banking. The description of the ten-step plan is as follows

**Strong Passwords**

It is evident that passwords provide access to the funds in an account, so strong passwords should be used. It is to ensure that each password should be a collection of both words and numbers so that they cannot be guessed easily.

**Data Protection**

During sharing data on any networking site or web, special attention should be given to the sharing of required information only.

**Phishing**

The emails floated by the bank should be addressed with great care, where clicking on every link or any of the link should be avoided. Moreover, attention should be given to the links that ask for security details.
**Skimming and cloning**

When traveling abroad, attention should be given to cloning and skimming because information on the magnetic strip can be recorded while swiping. Special attention should be given to the swiping of the card on any restaurant or another place.

**Improving digital customer experience**

 Special strategies should be formulated to address issues in customer experience, along with a complete record of the customer experience so that complaints can be avoided and issues can be dealt with seriousness.

**Data analytics capabilities**

Data Analytics compatibility should be given special attention, taking into account the idea that the risk of falling behind in leveraging customer insight has become one of the major issues in the current time.

**Enhancing security and Authentication**

Special attention should be given to the enhancement of security check and authentications so that any gap in information can be identified. Moreover, it would help to know the scenario and issues

 **Timely updates**

Institutional required as well as customer-based updates should be managed within the set time-frames because timely update is one of the options that can help to maintain security and avoid the risk of hacking.

**Grievance Escalation**

Special attention should be given to the escalation of grievances because customers will only abide by the rule and regulation if they are sure the bank will take their issues seriously and their concerns will be addressed fairly and in time.

**Card protection plans**

All employees should be provided with an insurance cover for credit cart and debit card so that any worst situation such as theft can be avoided or dealt with adequately. This plan is designed for those who have multiple cards.

 It is necessary to work on all these plans so that issues and threats within banking can be resolved because it will sort out problems that customers are facing by improving the risk to threats.

Reference

Bruni, F., & Lopez, C. (2019). Monetary Policy and Financial System Resilience. *Available at SSRN 3356888*.

**Essay 3**

 Maritime Transportation System is one of the most effective and reliable sources of transportation as it carriers about 90% of the goods and services in the United States of America. As it is one of the resources that is profit-leading so steps should be taken for the maintenance of river ways. Being a governor of KY and driving a large number of food vessels over the United States, certain steps are formulated in cooperation and coordination with local and federal governments so that pliability of rivers can be enacted.

 Addressing climatic change is one of the steps that should be followed to ensure river resilience because there are a lot of cases in which rivers are not worth using because of climatic changes and inability to address the complications raised by climates. The restoration of climate change can also be in the form of incorporating risk management strategies and plans that can help to know and work on any approaching risk (Fuller, et al. 2019). Multi-stakeholder approach is another option and strategy that can be brought into practice in order to ensure that the resilience of rivers is enacted. It is asserted that if there are multiple stakeholders then there would be increased accountability with shared response and responsibilities so more effective strategies can be incorporated (Fuller, et al. 2019). Involving and integration of other institution are one of the steps that should be taken to ensure resilience because it will direct issues to some broader level where micro-investigation can be used for assessment. It includes the incorporation of companies and other organizations that deal with the management of natural resources so that every issue can be addressed with some diverse ideology and it would ultimately result in the amalgamation of regional and sub-regional corporation mechanisms (Fuller, et al. 2019). Promotion of resilience dividend is one of the ideologies that can impart effective reliance because it invites an inclusive and integrated approach for the development of strategies that can help to reduce the risk associated with disasters and trigger different social and economic benefits in the long run. Management of water is another issue that needs to be managed because the resilience of river cannot be possible without water management. Both lack and access of water can impose an equal amount of threat to the operations and transportation. Moreover, initiatives of collaboration are another platform that can help authorities to incorporate initiatives that apply an integrated strategy (Fuller, et al. 2019). It is one of the approaches that can help to analyze the avenues and issues that could collectively impart either success or failure to the systems how working is entirely based on the integrated strategies. Another step that can be taken to ensure the resilience of river is the improvement of social, economic and environmental conditions that are associated with the attention given to the systems and the associated departments because it is carrying 90% of transportation that means it is rich in resource. Here, the richness of resources is directly associated with the management of subparts and sub-components that requires great attention (Fuller, et al. 2019).

 The above-mentioned strategies are more like a systematic approach that is used for incorporating resilience in rivers. This systematic approach is driven by every proceeding and succeeding step, where maintenance of one step is the measure of the success of other coming steps. So, an integrated, collected, ecological and innovation approach is to be used for creating resilience in the KY river. It will not only maintain the efficiency of working but address threats as well that are both internal and external. Although the approach towards security purposes is also required the integration of system is a diver’s approach and it will address the relevant security threats as well, leading to a productive transportation.

**Reference**

Fuller, I. C., Gilvear, D. J., Thoms, M. C., & Death, R. G. (2019). Framing resilience for river geomorphology: Reinventing the wheel?. *River research and applications*, *35*(2), 91-106.