The White House launched a strategy for Innovation for American Innovation — aka the innovation doctrine for government. The strategy makes the case for the key innovation investments to advance the important emerging technologies identified.

**6 AREAS OF INNOVATION EXPANSION**

1. **Provenance Medicine**
   - The strategy makes the case for why the prevention and the outcomes are the key drivers in the field. Preventive care is essential and curative care is inevitable. The White House will give $215 billion to address this issue.
   - Most medical treatments are designed to treat the average patient. The House will give $215 billion to precision medicine research. That will provide better treatment to all patients, especially the most effective.
   - The BRAIN Initiative has the potential to do for neuroscience what the Human Genome Project did for genomics by enabling a dynamic understanding of brain mechanisms underlying a patient's health, disease, or function. A deepened knowledge of how brains work will better educate doctors and patients.

2. **Advanced Vehicles**
   - The strategy makes the case for why the safety of the public should be of the utmost concern. The White House will give $30 million for autonomous vehicle technology research to develop performance and safety standards for autonomous, connected, and self-driving vehicles on public roads.
   - More than 90 percent of crashes involve human error. To correct the issue the government wants to invest in autonomous vehicle technology research to develop performance and safety standards for autonomous, connected, and self-driving vehicles on public roads. To comprehensively pilot these technologies in cities, on highways, and in commercial environments.

3. **Smart Cities**
   - The strategy makes the case for why technology is the best mechanism to comprehensively address the key challenges such as reducing traffic congestion, fighting crime and fostering economic growth.
   - Communities are building an "ABC" ecosystem, leveraging the ABC framework. An emerging community of civic leaders, data scientists, technologists, and companies are joining forces to build successful Smart Cities.

4. **Educational Technology**
   - The strategy makes the case for why the connectivity and the access to high-speed broadband by 2018.
   - The United States is now on the path to give 99 percent of American students access to high-speed broadband by 2018. Through the President's ConnectED Initiative, the federal government will help bring high-speed broadband to all schools and libraries.

5. **Space**
   - The strategy makes the case for why the mission to Mars.
   - NASA is increasing its support for longer-term research projects with ambitious goals, such as protecting astronauts from radiation in space, developing advanced propulsion systems, and allowing humans to "live off the land" by producing fuel, oxygen, and water on other planets. These investments will create the foundations for a space-faring civilization and a future human mission to Mars.

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**5 KEYS TO INNOVATION LAB SUCCESS**

1. **Stability:**
   - Building credibility is necessary to the long-term success of an Innovation Lab. Metrics need to be developed to determine the success of each initiative. As political appointees may change, it becomes even more pressing to ensure there is buy-in and commitment from the agency.

2. **Incentives:**
   - Incentives, such as monetary rewards, recognition amongst peers, the opportunity to work on important projects with ambitious goals, such as protecting astronauts from radiation in space, developing advanced propulsion systems, and allowing humans to "live off the land" by producing fuel, oxygen, and water on other planets. These investments will create the foundations for a space-faring civilization and a future human mission to Mars.

3. **Diversity:**
   - Members should cross disciplines and include employees at different levels of the organization. It’s important to recognize that innovation takes time away from everyday activities. This is why it’s important for the team to be a blend of both disruptive innovators and the people who have the relationships and means to move things forward.

4. **Toolsets:**
   - Toolkits, test environments, and data and information. However, the most important resources won’t be money or tools, but people and their time.

5. **Follow-through and measurement:**
   - Establishing a process to support follow-through and measurement, such as identifying the key stakeholders, tracking the progress towards successful implementation, and developing a process to monitor and measure success.