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# A BILL FOR AN ACT

RELATING TO THE INTERNATIONAL MOON BASE ALLIANCE.

**BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF HAWAII;**

1           SECTION 1. The legislature finds that Hawaii possesses  
2 strategic assets and capabilities that make the State a  
3 potential giant in the space industry. Hawaii has a strategic  
4 location near the equator in the middle of the Pacific Ocean,  
5 resident expertise in aerospace technology, terrain that is like  
6 the Moon and Mars, and long-standing ties with space-faring  
7 nations worldwide. These features, among others, enable Hawaii  
8 to join a global space enterprise that is expected to grow from  
9 \$350 billion today to more than \$1.1 trillion by 2040.  
10 Establishing Hawaii as a major player in the space industry now  
11 means that its people will benefit from scientific, educational,  
12 and commercial potential for generations to come.

13           For the past half-century, Hawaii has played a seminal role  
14 in our national space program. Hawaii has provided astronaut  
15 training for the Apollo lunar missions and world-class  
16 observatories on the Big Island. Moreover, the University of  
17 Hawaii, the United States military, and Hawaii-based companies



1 have pioneered nationally-funded programs in planetary  
2 geosciences, satellite communications, space-based remote  
3 sensing and environmental monitoring, deep-space surveillance,  
4 and other cutting-edge applications of aerospace-related  
5 technologies.

6       Recent research commissioned by NASA shows that the Moon  
7 provides a logical steppingstone to future space exploration,  
8 since it is nearby and contains abundant resources that can both  
9 enable interplanetary travel and improve the quality of life on  
10 Earth. New economic activity such as asteroid mining, space-  
11 based solar power generation and the use of lunar resources  
12 could enrich terrestrial civilization, help preserve the Earth's  
13 fragile environment and ultimately enable sustainable human  
14 exploration to Mars and beyond. A moon base that allows humans  
15 to live on the surface of the moon to conduct research and  
16 commercial operations, also known as an evolvable lunar  
17 architecture, will enable humankind to develop lunar resources,  
18 make new discoveries, and expand the near-term frontiers of  
19 space exploration.

20       Sustainable space settlement will require advances in key  
21 technologies beyond rocket propulsion, like life support



1 systems, telecommunications, power generation, and food  
2 production. Testing these technologies on Earth will play an  
3 indispensable role in their development and implementation. The  
4 island of Hawaii's Moon-like terrain provides an ideal  
5 environment for multinational teams to develop, test, and  
6 validate technologies. Promoting Hawaii as a venue for this  
7 research will create invaluable opportunities for local  
8 scientists, engineers, entrepreneurs, and students.

9 The purpose of this Act is to create a committee called the  
10 international moon base alliance comprised of representatives  
11 from governmental, industrial, and research institutions to  
12 provide recommendations and guidance for the development of a  
13 prototype moon base on the island of Hawaii.

14 SECTION 2. The international moon base alliance shall  
15 guide the development and implementation of a prototype Moon  
16 base on the island of Hawaii. The alliance shall be composed of  
17 representatives from:

18 (1) Hawaii-based organizations including but not limited  
19 to the Hawaii aerospace advisory committee, the  
20 Pacific international space center for exploration  
21 systems, the Hawaii space flight laboratory at the



- 1 University of Hawaii at Manoa, and the Hawaii space  
2 exploration analog and simulation program;
- 3 (2) The National Aeronautics and Space Administration,  
4 including but not limited to the Space Portal at the  
5 Ames Research Center and the Exploration Integration  
6 and Science Office at the Johnson Space Center;
- 7 (3) Other appropriate federal agencies, including but not  
8 limited to the Federal Aviation Administration, the  
9 United States Pacific Command, and the United States  
10 Army Pacific Command;
- 11 (4) Other national space agencies worldwide;
- 12 (5) The Lunar Exploration and Analysis Group;
- 13 (6) The Universities Space Research Association, including  
14 the Lunar and Planetary Institute;
- 15 (7) Major corporations representing aerospace, information  
16 technology, renewable energy, robotics, manufacturing,  
17 and other appropriate industrial sectors;
- 18 (8) National space advocacy organizations, including but  
19 not limited to the National Space Society, the Lunar  
20 Explorers Society, the Space Frontiers Foundation, and  
21 the American Astronautical Society;



1 (9) Global space agencies and organizations, including but  
2 not limited to the International Lunar Exploration  
3 Working Group, the International Space Exploration  
4 Coordination Group, and the Committee on Space  
5 Research; and

6 (10) The United Nations Office for Outer Space Affairs.

7 SECTION 3. The international moon base alliance shall hold  
8 its first organizational teleconference by August 1, 2019, and  
9 shall present a strategic plan for a prototype Moon base  
10 development to the governor and legislature prior to the  
11 convening of the regular session of 2020.

12 SECTION 4. There is appropriated out of the general  
13 revenues of the State of Hawaii the sum of \$ or so much  
14 thereof as may be necessary for fiscal year 2019-2020 for the  
15 international moon base alliance to guide the development and  
16 implementation of a prototype Moon base on the island of Hawaii.

17 The sum appropriated shall be expended by the office of  
18 aerospace development for the purposes of this Act.

19 SECTION 5. This Act shall take effect on July 1, 2112.



**Report Title:**

Space Industry; Evolvable Lunar Architecture; Office of  
Aerospace Development

**Description:**

Promotes the space industry in Hawaii by creating an  
International Moon Base Alliance to provide recommendations and  
guidance for the establishment of a prototype moon base on the  
island of Hawaii. (HB875 HD1)

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