
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 U.S. military, and Hawaii-based companies have



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

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

19 Sustainable space settlement will require advances in key
20 technologies beyond rocket propulsion, like life support
21 systems, telecommunications, power generation, and food



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

8 The purpose of this Act is to create a committee called the
9 "International Moon Base Alliance" within the department of
10 business, economic development, and tourism's office of
11 aerospace development. This committee will be comprised of
12 representatives from governmental, industrial, and research
13 institutions. Its purpose will be to provide recommendations
14 and guidance for the development of a prototype moon base on the
15 island of Hawaii, promote and facilitate multinational research
16 and commercial activity, and to organize an international lunar
17 development summit in Hawaii during the fall of 2019.

18 SECTION 2. Chapter 201, Hawaii Revised Statutes, is
19 amended by adding a new section to be appropriately designated
20 and to read as follows:



1 "§201- International moon base alliance. (a) There is
2 established the international moon base alliance within the
3 office of aerospace development of the department of business,
4 economic development, and tourism. The purpose of the
5 international moon base alliance shall be to provide
6 recommendations and guidance for the development of an evolvable
7 lunar architecture on the island of Hawaii.

8 (b) The office of aerospace development, in conjunction
9 with the aerospace advisory committee, shall coordinate the
10 international moon base alliance. The office of aerospace
11 development shall extend invitations to join the international
12 moon base alliance to representatives of relevant government,
13 industry, and university organizations, including but not
14 limited to:

15 (1) Hawaii-based organizations, including but not limited
16 to the office of aerospace development, the Pacific
17 International Space Center for Exploration Systems
18 (PISCES), and the Hawaii Space Exploration Analog and
19 Simulation program;

20 (2) The National Aeronautics and Space Administration
21 (NASA), including but not limited to the Space Portal



1 at NASA Ames Research Center and the Exploration
2 Integration and Science Office at the Johnson Space
3 Center;

4 (3) Other appropriate federal agencies, including but not
5 limited to the Federal Aviation Administration, the
6 U.S. Pacific Command, and the U.S. Army Pacific
7 Command;

8 (4) Other national space agencies;

9 (5) The Lunar Exploration and Analysis Group (LEAG);

10 (6) The University Space Research Association (USRA),
11 including the Lunar and Planetary Institute;

12 (7) Major corporations representing aerospace, information
13 technology, renewable energy, robotics, manufacturing,
14 and other appropriate industrial sectors;

15 (8) National space advocacy organizations, including but
16 not limited to the National Space Society, the Lunar
17 Explorers Society, the Space Frontiers Foundation, and
18 the American Astronautical Society;

19 (9) International space agencies and organizations,
20 including but not limited to the International Lunar
21 Exploration Working Group, the International Space



1 Exploration Coordination Group, and the Committee on
2 Space Research; and

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

4 Members of the international moon base alliance shall serve
5 without compensation. The international moon base alliance
6 shall hold its first organizational teleconference by August 1,
7 2018.

8 (c) The international moon base alliance shall, in
9 collaboration with the office of aerospace development, plan,
10 organize, and host an international lunar development summit, as
11 well as create an agenda and an invitational list for such
12 event. The first summit shall be planned to take place in
13 October 2019 or as soon thereafter as possible.

14 The international lunar development summit shall focus on
15 identifying the major goals and challenges associated with the
16 design and validation of an evolvable lunar architecture on the
17 island of Hawaii, and forming strategies for enabling public-
18 private partnerships to support activities and commercial
19 ventures on both the lunar surface and in space."

20 SECTION 3. New statutory material is underscored.

21 SECTION 4. This Act shall take effect on July 1, 2018.



H.B. NO. 2706

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H.B. NO. 2706

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 an evolvable lunar architecture on the Big Island of Hawaii and to plan a development summit.

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