

JAN 24 2018

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's strategic,
2 mid-Pacific, near-equatorial location, Moon/Mars-like terrain,
3 resident expertise engaging multiple aerospace-related
4 technologies, and long-standing ties with space-faring nations
5 worldwide afford strategic assets and capabilities that can be
6 leveraged to realize humankind's full potential in space, thereby
7 enabling the State to engage as a major contributor to and
8 beneficiary of global space enterprise.

9 The legislature further finds that for the past half century,
10 Hawaii has played a seminal role in developing our national space
11 program, beginning with astronaut training for the Apollo lunar
12 missions and the development of world-class observatories on the
13 island of Hawaii. Over the past four decades, the University of
14 Hawaii, the United States military, and numerous companies
15 statewide have also pioneered nationally-funded programs in
16 planetary geosciences, satellite communications, space-based
17 remote sensing and environmental monitoring, deep-space



1 surveillance, and other areas employing aerospace-related
2 technologies. Yet, new opportunities are rapidly emerging in this
3 industry that are ideally suited for our State, many of which hold
4 substantial scientific, educational, and commercial promise for
5 Hawaii residents statewide.

6 In addition, the legislature finds that an expanded and
7 diversified space economy, based upon innovative commercial
8 utilization of lunar resources including lunar mining,
9 harvesting of space-based solar power, and the development of
10 cis-lunar propellant depots, could enrich terrestrial
11 civilizations, help preserve Earth's fragile environment, and
12 ultimately enable human exploration on Mars and throughout the
13 solar system. However, sustainable space settlements will also
14 require advances in key technologies such as life support
15 systems, telecommunications, power generation, and food
16 production; and terrestrial-based testing and evaluation of
17 these technologies will play an indispensable role in their
18 long-term development and implementation.

19 The legislature further finds that Hawaii county's Moon-
20 like terrain affords an ideal environment for multinational
21 teams to develop, test, and validate such technologies, which



1 subsequently would enable research and development opportunities
2 for local scientists, engineers, entrepreneurs, and students.

3 The purpose of this Act is to support the establishment and
4 operation of the international moon base alliance, to be
5 composed of representatives from governmental, industrial, and
6 research institutions worldwide to provide recommendations and
7 guidance for the development of a prototype Moon base on the
8 island of Hawaii. The alliance will identify major challenges
9 and goals associated with the design and validation of a
10 prototype lunar architecture, formulate strategies for enabling
11 public-private partnerships to promote and facilitate the
12 organization and implementation of multinational research
13 activities and commercial ventures on the lunar surface and in
14 cis-lunar space, and build upon recommendations from the
15 International Moon Base Summit held on the island of Hawaii in
16 October 2017.

17 SECTION 2. The international moon base alliance shall
18 represent the State of Hawaii in guiding the development and
19 implementation of a prototype Moon base on the island of Hawaii.
20 The alliance shall be composed of representatives from:



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- (1) Hawaii-based organizations including but not limited to the Hawaii aerospace advisory committee, the Pacific international space center for exploration systems, the Hawaii Space Flight Laboratory at the University of Hawaii at Manoa, and the Hawaii Space Exploration Analog and Simulation program;
- (2) The National Aeronautics and Space Administration, including but not limited to the Space Portal at the Ames Research Center and the Exploration Integration and Science Office at the Johnson Space Center;
- (3) Other appropriate federal agencies, including but not limited to the Federal Aviation Administration, the United States Pacific Command, and the United States Army Pacific Command;
- (4) Other national space agencies worldwide;
- (5) The Lunar Exploration and Analysis Group;
- (6) The Universities Space Research Association, including the Lunar and Planetary Institute;
- (7) Major corporations representing aerospace, information technology, renewable energy, robotics, manufacturing, and other appropriate industrial sectors;



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

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

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

SECTION 3. The international moon base alliance shall hold its first organizational teleconference by August 1, 2018, with a strategic plan for a prototype Moon base development presented to the governor and legislature prior to the convening of the regular session of 2019.

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

INTRODUCED BY:

Randy H. Birk

Will Ezer
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[Signature]



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Report Title:

International Moon Base Alliance

Description:

Supports the development and operation of the international moon base alliance to help guide the design and construction of the prototype Moon base on the island of Hawaii. Requires the alliance to conduct its first organizational teleconference by August 1, 2018, and submit a strategic plan for the prototype Moon base to the governor and legislature before commencement of the 2019 Session.

The summary description of legislation appearing on this page is for informational purposes only and is not legislation or evidence of legislative intent.

