A BILL FOR AN ACT

RELATING TO THE PACIFIC INTERNATIONAL SPACE CENTER FOR EXPLORATION SYSTEMS SUSTAINABLE CONCRETE INITIATIVE.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF HAWAII:

1	SECTION 1. The legislature finds that the Pacific
2	international space center for exploration systems, including its
3	proposed aerospace technology research and development park
4	project, is an economic driver for the island of Hawaii that
5	promotes the establishment and growth of new sustainable and
6	green industries along with associated jobs, workforce
7	development, internships, and science, technology, engineering,
8	and math education programs.
9	The legislature also finds that the Pacific international
10	space center for exploration systems aerospace technology
11	research and development park project will attract investment
12	that will help leverage the costs of expanding the island of
13	Hawaii's broadband capacity.

14 Current market demands for concrete in Hawaii are primarily
15 met through cement and asphalt imports. Research and
16 development enabling innovative technologies in basalt concrete

- 1 composition and delivery is an attractive and self-sustaining
- 2 alternative to continued cement and bitumen imports.
- 3 There is also interest in and work being done on developing
- 4 various basaltic concrete binding methods at the National
- 5 Aeronautics and Space Administration, Hanyang University of
- 6 Korea, Purdue University, American Society of Civil Engineers,
- 7 and many other professional organizations. In addition to
- 8 enabling three dimensional concrete printing technology, this
- 9 work holds amazing potential for creating advanced manufacturing
- 10 jobs and inexpensive building options in the State of Hawaii.
- 11 The proposed Pacific international space center for
- 12 exploration systems sustainable concrete initiative is an
- 13 important step toward realizing this potential, providing an
- 14 investment in the future of Hawaii and its economy by offering a
- 15 self-sufficient and in-situ source of concrete for local
- 16 applications.
- 17 The purpose of this Act is to provide state funding to
- 18 support the investigative stage of the Pacific international
- 19 space center for exploration systems sustainable concrete
- 20 initiative, to be matched by funds from out-of-state parties
- 21 interested in investing in the Pacific international space
- 22 center for exploration systems sustainable concrete initiative.



- 1 This investigative stage will help identify appropriate binding
- 2 methods and technologies; quantifiably test and validate the
- 3 identified technologies in terms of durability, compressive
- 4 strength, and other ASTM International certification standards;
- 5 and help identify appropriate out-of-state partners and
- 6 investors, as well as other extramural funding sources, for
- 7 program development.
- **8** SECTION 2. There is appropriated out of the general
- 9 revenues of the State of Hawaii the sum of \$ or so much
- 10 thereof as may be necessary for fiscal year 2013-2014 to support
- 11 the investigative stage of the Pacific international space
- 12 center for exploration systems sustainable concrete initiative;
- 13 provided that these funds are matched dollar-for-dollar from
- 14 sources outside the State of Hawaii, including but not limited
- 15 to the federal government, private industry, universities, and
- 16 other state governments.
- 17 The sum appropriated shall be expended by the department of
- 18 business, economic development, and tourism for the purposes of
- 19 this Act.
- 20 SECTION 3. The Pacific international space center for
- 21 exploration systems shall submit a report that includes:

SB930 HD1 HMS 2013-2788

1	(1)	An updated business plan regarding the aerospace
2		technology research and development park project;
3	(2)	Details on any progress made toward the development of
4		a world-class space center in Hawaii;
5	(3)	The development of technologies for basalt concrete
6		composition and delivery and any effect on the level
7		of cement and bitumen imports into the State;
8	(4)	The status of all working relationships with
9		educational and research institutions, federal
10		agencies, and local industry on the use of existing
11		basalt resources in the State to identify, verify, and
12		validate sustainable and in-situ concrete binders;
13	(5)	Details on any progress made toward the development of
14		a robotic operator training and certification program,
15		including program location, course and curriculum
16		development, and when the program is expected to begin
17		accepting students;
18	(6)	The level of private sector investment in aerospace
19		and related industries, including the number and
20		nature of any partnerships with private industry to
21		facilitate state-based manufacturing and operations
22		related to green energy technology;

1	(7)	The status of the memorandum of understanding with
2		Hawaii Techworks and the east Hawaii community
3		development corporation regarding the cultivation of a
4		skilled local workforce to support planned
5		manufacturing operations; and
6	(8)	A detailed statement of assets, liabilities, revenues,
7		and expenses for each fiscal year ending June 30,
8	to the le	gislature no later than September 1, 2013.
9	SECT	ION 4. This Act shall take effect on July 1, 2050.

Report Title:

Pacific International Space Center for Exploration Systems Sustainable Concrete Initiative; Appropriation

Description:

Appropriates funds to support the investigative stage of the Pacific international space center for exploration systems sustainable concrete initiative, contingent upon a dollar-for-dollar match from other sources. Effective July 1, 2050. (SB930 HD1)

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