ASSEMBLY, No. 3546

STATE OF NEW JERSEY

218th LEGISLATURE

INTRODUCED MARCH 5, 2018

Sponsored by:
Assemblyman RAJ MUKHERJI
District 33 (Hudson)
Assemblywoman ANNETTE CHAPARRO
District 33 (Hudson)
Assemblyman NICHOLAS CHIARAVALLOTI
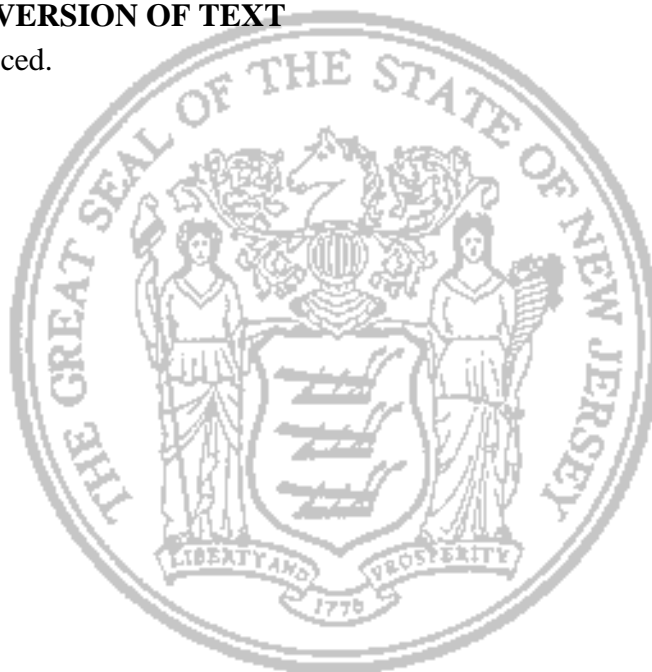**District 31 (Hudson)**

Co-Sponsored by:
Assemblyman Calabrese

SYNOPSIS
   Directs Rutgers Discovery Informatics Institute, Office of Information Technology, and New Jersey Big Data Alliance to develop advanced cyberinfrastructure strategic plan; appropriates $150,000.

CURRENT VERSION OF TEXT
   As introduced.

(Sponsorship Updated As Of: 5/25/2018)

1   AN ACT directing the Rutgers Discovery Informatics Institute,
2   Office of Information Technology, and the New Jersey Big Data
3   Alliance to develop an advanced cyberinfrastructure strategic
4   plan, supplementing Title 52 of the Revised Statutes and making
5   an appropriation.

6

7   BE IT ENACTED *by the Senate and General Assembly of the State*
8   *of New Jersey:*

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10   1.   a.   The Rutgers Discovery Informatics Institute, Office of
11   Information Technology, and the New Jersey Big Data Alliance
12   shall coordinate to establish an advanced cyberinfrastructure
13   strategic plan for the State, which shall include, but not be limited
14   to: (1) assessing the State's cyberinfrastructure, public and
15   privately-owned, including, high performance computing, data
16   storage systems, advanced instrumentation, data center facilities,
17   visualization environments, the human expertise necessary to
18   operate the cyberinfrastructure, and the software and advanced
19   networks that link these resources together; (2) creating a roadmap
20   for implementing advanced cyberinfrastructure improvements
21   throughout the State, which shall include, but not be limited to the
22   development of a shared data cloud that integrates data
23   infrastructure, hosted data and data analytics, and the development
24   of a high speed network infrastructure. The shared data cloud shall
25   host an open data repository to address big data challenges and
26   catalyze collaborations between academia, industry, and
27   government; (3) recommending implementation strategies and
28   policies for improving the State's cyberinfrastructure to promote
29   economic development in this State; (4) identifying the benefits and
30   the essential applications of cyberinfrastructure; (5) recommending
31   workforce development strategies to ensure that the necessary
32   human expertise is in place; and (6) identifying the means of using
33   advanced cyberinfrastructure to drive economic development and
34   facilitate the creation of public-private partnerships.
35   b.   The Rutgers Discovery Informatics Institute, Office of
36   Information Technology, and the New Jersey Big Data Alliance
37   shall submit the advanced cyberinfrastructure strategic plan to the
38   Governor, pursuant to section 2 of P.L.1991, c.164 (C.52:14-19.1),
39   and to the Legislature no later than one year following the effective
40   date of P.L.   , c.   (C.   ) (pending before the Legislature as this
41   bill).
42   c.   As used in this section:
43   "Big data" means high volume information assets, high velocity
44   information assets, high variety information assets, or all three, that
45   require new forms of processing to enable enhanced decision
46   making, insight discovery, and process optimization.
47   The term "cyberinfrastructure" includes, but is not limited to,
48   data networks, computational facilities, computing resources, large

data sets, specialized software applications, information technology usage improvements, and the human expertise necessary to develop and manage such resources.

"New Jersey Big Data Alliance" means a consortium consisting of Rutgers, the State University, Princeton University, New Jersey Institute of Technology, Rowan University Stockton University, Kean University, Montclair State University, and the Stevens Institute of Technology for the purpose of encouraging State government, academia, and industry to address, in a strategic and coordinated manner, the significant and immediate challenges posed by the proliferation of big data sources and the resultant deluge of digital data.

2. There shall be appropriated from the General Fund to the Rutgers Discovery Informatics Institute $150,000 for the fiscal year commencing July 1, 2017 to carry out the purposes of section 1 of P.L.   , c.   (C.   ) (pending before the Legislature as this bill).

3. This act shall take effect immediately.

STATEMENT

This bill directs the Rutgers Discovery Informatics Institute, Office of Information Technology, and the New Jersey Big Data Alliance to coordinate and establish an advanced cyberinfrastructure strategic plan. The advanced cyberinfrastructure strategic plan is to include, but is not to be limited to: (1) assessing the State's cyberinfrastructure, public and privately-owned, including, high performance computing, data storage systems, advanced instrumentation, data center facilities, visualization environments, the human expertise necessary to operate the cyberinfrastructure, and the software and advanced networks that link these resources together; (2) creating a roadmap for implementing advanced cyberinfrastructure improvements throughout the State, which shall include, but not be limited to the development of a shared data cloud that integrates data infrastructure, hosted data, and data analytics, and the development of a high speed network infrastructure. The shared data cloud is to host an open data repository to address big data challenges and catalyze collaborations between academia, industry, and government; (3) recommending implementation strategies and policies for improving the State's cyberinfrastructure; (4) identifying the benefits and the essential applications of cyberinfrastructure; (5) recommending workforce development strategies to ensure that the necessary human expertise is in place; and (6) identifying the means of using advanced cyberinfrastructure

1   to drive economic development and facilitate the creation of public
2   private partnerships.
3   Under the bill, "big data" is defined to mean high volume
4   information assets, high velocity information assets, high variety
5   information assets, or all three, that require new forms of processing
6   to enable enhanced decision making, insight discovery, and process
7   optimization. The term "cyberinfrastructure" includes, but is not
8   limited to, data networks, computational facilities, computing
9   resources, large data sets, specialized software applications,
10   information technology usage improvements, and the human
11   expertise necessary to develop and manage such resources.
12   The bill defines "New Jersey Big Data Alliance" to mean a
13   consortium consisting of Rutgers, the State University, Princeton
14   University, the New Jersey Institute of Technology, Rowan
15   University, Stockton University, Kean University, Montclair State
16   University, and the Stevens Institute of Technology for the purpose
17   of encouraging New Jersey government, academia, and industry to
18   address, in a strategic and coordinated manner, the significant and
19   immediate challenges posed by the proliferation of big data sources
20   and the resultant deluge of digital data.
21   The bill provides for a $150,000 appropriation from the General
22   Fund to the Rutgers Discovery Informatics Institute for the fiscal
23   year commencing July 1, 2017 to carry out the purposes of the bill.