

ASSEMBLY, No. 2852

STATE OF NEW JERSEY

219th LEGISLATURE

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Sponsored by:

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District 33 (Hudson)

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District 31 (Hudson)

Co-Sponsored by:

Assemblywoman Vainieri Huttie

SYNOPSIS

Directs New Jersey Cybersecurity and Communications Integration Cell, Office of Information Technology, and New Jersey Big Data Alliance to develop advanced cyberinfrastructure strategic plan.

CURRENT VERSION OF TEXT

As introduced.



(Sponsorship Updated As Of: 3/16/2020)

1 **AN ACT** directing the New Jersey Cybersecurity and
2 Communications Integration Cell, the Office of Information
3 Technology, and the New Jersey Big Data Alliance to develop an
4 advanced cyberinfrastructure strategic plan and supplementing
5 Title 52 of the Revised Statutes.

6
7 **BE IT ENACTED** by the Senate and General Assembly of the State
8 of New Jersey:

9
10 1. a. The New Jersey Cybersecurity and Communications
11 Integration Cell, established pursuant to Executive Order No. 178 of
12 2015 within the New Jersey Office of Homeland Security and
13 Preparedness, the Office of Information Technology, and the New
14 Jersey Big Data Alliance shall coordinate to establish an advanced
15 cyberinfrastructure strategic plan for the State, which shall include,
16 but not be limited to: (1) assessing the State's cyberinfrastructure,
17 public and privately-owned, including, high performance
18 computing, data storage systems, advanced instrumentation, data
19 center facilities, visualization environments, the human expertise
20 necessary to operate the cyberinfrastructure, and the software and
21 advanced networks that link these resources together; (2) creating a
22 roadmap for implementing advanced cyberinfrastructure
23 improvements throughout the State, which shall include, but not be
24 limited to the development of a shared data cloud that integrates
25 data infrastructure, hosted data and data analytics, and the
26 development of a high speed network infrastructure. The shared
27 data cloud shall host an open data repository to address big data
28 challenges and catalyze collaborations between academia, industry,
29 and government; (3) recommending implementation strategies and
30 policies for improving the State's cyberinfrastructure to promote
31 economic development in this State; (4) identifying the benefits and
32 the essential applications of cyberinfrastructure; (5) recommending
33 workforce development strategies to ensure that the necessary
34 human expertise is in place; (6) identifying the means of using
35 advanced cyberinfrastructure to drive economic development and
36 facilitate the creation of public-private partnerships; and (7)
37 identifying cybersecurity risk mitigation strategies to help ensure
38 public safety and privacy controls are comprehensively integrated
39 into the State's cyberinfrastructure.

40 b. The New Jersey Cybersecurity and Communications
41 Integration Cell, Office of Information Technology, and the New
42 Jersey Big Data Alliance shall submit the advanced
43 cyberinfrastructure strategic plan to the Governor, pursuant to
44 section 2 of P.L.1991, c.164 (C.52:14-19.1), and to the Legislature
45 no later than one year following the effective date of P.L. , c.
46 (C.) (pending before the Legislature as this bill).

47 c. As used in this section:

1 “Big data” means high volume information assets, high velocity
2 information assets, high variety information assets, or all three, that
3 require new forms of processing to enable enhanced decision
4 making, insight discovery, and process optimization.

5 The term “cyberinfrastructure” includes, but is not limited to,
6 data networks, computational facilities, computing resources, large
7 data sets, specialized software applications, information technology
8 usage improvements, and the human expertise necessary to develop
9 and manage such resources.

10 “New Jersey Big Data Alliance” means the consortium
11 designated as the State's advanced cyberinfrastructure consortium
12 pursuant to section 1 of P.L.2014, c.33 (C.52:17C-3.4), and, as of
13 the effective date of P.L. , c. (C.) (pending before the
14 Legislature as this bill), consisting of the following institutions and
15 academically oriented organizations: Rutgers, the State University
16 of New Jersey; Princeton University; New Jersey Institute of
17 Technology; Rowan University; The College of New Jersey;
18 Felician University; New Jersey City University; Ramapo College
19 of New Jersey; Rider University; Saint Peter’s University; Seton
20 Hall University; Stockton University; Kean University; Montclair
21 State University; the Stevens Institute of Technology; William
22 Paterson University of New Jersey; and the nonprofit organization
23 and technology services provider NJEdge.

24
25 2. This act shall take effect immediately.
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28 STATEMENT

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30 This bill directs the New Jersey Cybersecurity and
31 Communications Integration Cell, the Office of Information
32 Technology, and the New Jersey Big Data Alliance to coordinate
33 and establish an advanced cyberinfrastructure strategic plan. The
34 advanced cyberinfrastructure strategic plan is to include, but is not
35 to be limited to: 1) assessing the State’s cyberinfrastructure, public
36 and privately-owned, including, high performance computing, data
37 storage systems, advanced instrumentation, data center facilities,
38 visualization environments, the human expertise necessary to
39 operate the cyberinfrastructure, and the software and advanced
40 networks that link these resources together; 2) creating a roadmap
41 for implementing advanced cyberinfrastructure improvements
42 throughout the State, which shall include, but not be limited to the
43 development of a shared data cloud that integrates data
44 infrastructure, hosted data, and data analytics, and the development
45 of a high speed network infrastructure. The shared data cloud is to
46 host an open data repository to address big data challenges and
47 catalyze collaborations between academia, industry, and
48 government; 3) recommending implementation strategies and

1 policies for improving the State’s cyberinfrastructure; 4) identifying
2 the benefits and the essential applications of cyberinfrastructure; 5)
3 recommending workforce development strategies to ensure that the
4 necessary human expertise is in place; 6) identifying the means of
5 using advanced cyberinfrastructure to drive economic development
6 and facilitate the creation of public private partnerships; and 7)
7 identifying cybersecurity risk mitigation strategies to help ensure
8 public safety and privacy controls are comprehensively integrated
9 into the State's cyberinfrastructure.

10 Under the bill, “big data” is defined to mean high volume
11 information assets, high velocity information assets, high variety
12 information assets, or all three, that require new forms of processing
13 to enable enhanced decision making, insight discovery, and process
14 optimization. The term “cyberinfrastructure” includes, but is not
15 limited to, data networks, computational facilities, computing
16 resources, large data sets, specialized software applications,
17 information technology usage improvements, and the human
18 expertise necessary to develop and manage such resources.

19 The bill defines “New Jersey Big Data Alliance” to mean the
20 consortium designated as the State's advanced cyberinfrastructure
21 consortium, consisting of the following institutions and
22 academically oriented organizations: Rutgers, the State University
23 of New Jersey; Princeton University; New Jersey Institute of
24 Technology; Rowan University; The College of New Jersey;
25 Felician University; New Jersey City University; Ramapo College
26 of New Jersey; Rider University; Saint Peter’s University; Seton
27 Hall University; Stockton University; Kean University; Montclair
28 State University; the Stevens Institute of Technology; William
29 Paterson University of New Jersey; and the nonprofit organization
30 and technology services provider NJEdge.