Second Regular Session Seventieth General Assembly STATE OF COLORADO

REENGROSSED

This Version Includes All Amendments Adopted in the House of Introduction

LLS NO. 16-1071.02 Jane Ritter x4342

HOUSE BILL 16-1383

HOUSE SPONSORSHIP

Singer and Fields,

SENATE SPONSORSHIP

Grantham,

House Committees

Senate Committees

Public Health Care & Human Services Appropriations

A BILL FOR AN ACT

101	CONCERNING A PREDICTIVE DATA ANALYTIC TECHNOLOGY FOR CHILI
102	WELFARE PILOT PROGRAM, AND, IN CONNECTION THEREWITH
103	MAKING AN APPROPRIATION.

Bill Summary

(Note: This summary applies to this bill as introduced and does not reflect any amendments that may be subsequently adopted. If this bill passes third reading in the house of introduction, a bill summary that applies to the reengrossed version of this bill will be available at http://www.leg.state.co.us/billsummaries.)

The bill requires the department of human services (department) to develop, on or before September 1, 2016, a state-of-the-art data analytic system for child welfare pilot program (pilot program) to access, integrate, and analyze data sources for the purpose of calculating a child's risk for abuse or neglect. The pilot program must be able to integrate data

HOUSE

Ind Reading Unamended

HOUSE Amended 2nd Reading May 3, 2016 from various state and county sources, use various types of technology to accurately and precisely calculate child risk scores, and provide mechanisms to alert and assist caseworkers to changes in the environment of a child at risk.

The department shall report to the health and human services committee of the senate and the public health care and human services committee of the house of representatives, or any successor committees, on the progress and status of the pilot program.

Be it enacted by the General Assembly of the State of Colorado:

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2	SECTION 1. In Colorado Revised Statutes, add article 5.1 to title
3	26 as follows:
4	ARTICLE 5.1
5	Implementation Plan for a Predictive Data Analytic
6	System for Child Welfare
7	26-5.1-101. Legislative declaration. (1) THE GENERAL
8	ASSEMBLY FINDS AND DECLARES THAT:
9	(a) CHILD ABUSE AND NEGLECT IS A CRISIS THAT AFFECTS THE
10	SAFETY AND WELFARE OF VULNERABLE CHILDREN ON GLOBAL, NATIONAL,
11	STATE, AND COUNTY LEVELS;
12	(b) IN THE UNITED STATES ALONE, MORE THAN ONE THOUSAND
13	FIVE HUNDRED CHILDREN DIE EACH YEAR AS A DIRECT RESULT OF ABUSE
14	OR NEGLECT;
15	(c) In Colorado between 2007 and 2012, one hundred
16	SEVENTY-FIVE CHILDREN DIED AS A DIRECT RESULT OF ABUSE OR
17	NEGLECT;
18	(d) Information exists in state and county databases that
19	CAN HELP DETERMINE WHICH INDIVIDUALS MIGHT HAVE ACCESS TO A
20	CHILD AND THE RISKS THOSE INDIVIDUALS POSE TO THE CHILD;
21	(e) MODERN TECHNOLOGIES AND BEST PRACTICES EXIST. AND

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1	HAVE BEEN UTILIZED SUCCESSFULLY IN OTHER STATES, THAT CAN ACCESS,
2	INTEGRATE, AND ANALYZE DATA ABOUT A CHILD AND HIS OR HER
3	ENVIRONMENT IN NEAR REAL TIME TO PROVIDE A MORE TIMELY,
4	ACCURATE, AND PRECISE MEASURE OF A CHILD'S RISK OF TRAGIC
5	OUTCOMES AS A RESULT OF ABUSE OR NEGLECT;
6	(f) BY USING TECHNOLOGY TO MONITOR A CHILD'S ENVIRONMENT
7	AND CONTINUOUSLY UPDATE THE CHILD'S RISK PROFILE, CASEWORKERS
8	ARE ABLE TO FOCUS BETTER ON THE HIGHEST RISK CASES AND THOSE THAT
9	HAVE THE MOST IMMEDIATE NEED FOR INTERVENTIONS, THUS BETTER
10	EQUIPPING CASEWORKERS TO PREVENT TRAGIC OUTCOMES; AND
11	(g) Providing appropriate, user-friendly tools and
12	TECHNOLOGY TO CASEWORKERS CAN DRAMATICALLY IMPROVE
13	OUTCOMES, INCREASE PRODUCTIVITY, AND REDUCE EMPLOYEE TURNOVER
14	RESULTING FROM BURNOUT, STRESS, AND FRUSTRATION.
15	(2) THEREFORE, THE GENERAL ASSEMBLY DECLARES THAT IT IS IN
16	THE BEST INTERESTS OF THE CHILDREN OF COLORADO TO ESTABLISH AN
17	IMPLEMENTATION PLAN FOR A STATE-OF-THE-ART PREDICTIVE DATA
18	ANALYTIC SYSTEM FOR CHILD WELFARE THAT IS COMPATIBLE WITH THE
19	COLORADO CHILD WELFARE MANAGEMENT SYSTEM AND THE STATE'S
20	INFORMATION TECHNOLOGY ENVIRONMENT.
21	26-5.1-102. Predictive data analytic technology for child
22	welfare pilot program - steering committee - requirements -
23	independent vendor - reporting. (1) (a) ON OR BEFORE DECEMBER 15,
24	2016, USING THE RECOMMENDATIONS OF THE STEERING COMMITTEE
25	FORMED IN PARAGRAPH (b) OF THIS SUBSECTION (1), THE STATE
26	DEPARTMENT SHALL RELEASE A REQUEST FOR PROPOSALS FOR A
27	TECHNOLOGY VENDOR FOR A PREDICTIVE DATA ANALYTIC TECHNOLOGY

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1	FOR CHILD WELFARE PILOT PROGRAM, REFERRED TO IN THIS ARTICLE AS
2	THE "PILOT PROGRAM". THE PURPOSE OF THE PILOT PROGRAM IS TO
3	IMPLEMENT A STATE-OF-THE ART DATA ANALYTICS TECHNOLOGY SYSTEM
4	TO ACCESS, INTEGRATE, AND ANALYZE DATA SOURCES TO CALCULATE A
5	CHILD'S RISK SCORES FOR ABUSE OR NEGLECT.
6	(b) AFTER THE REVIEW BY THE JOINT TECHNOLOGY COMMITTEE
7	CONDUCTED PURSUANT TO PARAGRAPH (c) OF THIS SUBSECTION (1), THE
8	STATE DEPARTMENT SHALL CONVENE A STEERING COMMITTEE THAT
9	INCLUDES APPROPRIATE STAKEHOLDER REPRESENTATION FROM CHILD
10	WELFARE SERVICES AT THE STATE AND COUNTY LEVELS. THE STEERING
11	COMMITTEE SHALL INCLUDE IN ITS CONSIDERATIONS ANY INFORMATION OR
12	RECOMMENDATIONS PROVIDED BY THE JOINT TECHNOLOGY COMMITTEE
13	PURSUANT TO PARAGRAPH (c) OF THIS SUBSECTION (1). THE PURPOSE OF
14	THE STEERING COMMITTEE IS TO:
15	(I) CONSIDER AND RECOMMEND, AT A MINIMUM, THE APPROPRIATE
16	NUMBER AND TYPES OF COUNTIES TO PARTICIPATE IN THE PILOT PROGRAM
17	TO ENSURE ADEQUATE DATA AVAILABILITY AND REPRESENTATION OF
18	DIVERSE POPULATIONS THAT WILL RESULT IN A MEANINGFUL PILOT
19	PROGRAM;
20	(II) ASSIST THE STATE DEPARTMENT IN THE DEVELOPMENT OF THE
21	REQUEST FOR PROPOSALS FOR A TECHNOLOGY VENDOR, AS DESCRIBED IN
22	SUBSECTION (3) OF THIS SECTION, UTILIZING THE REQUIREMENTS OF
23	SUBSECTION (2) OF THIS SECTION; AND
24	(III) RECOMMEND AN INDEPENDENT THIRD-PARTY EVALUATOR TO
25	PERFORM THE OBLIGATIONS SPECIFIED IN SECTION 26-5.1-103 (2).
26	(c) Prior to the convening of the steering committee
27	PURSUANT TO PARAGRAPH (b) OF THIS SUBSECTION (1) AND TO THE

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1	RELEASE OF THE REQUEST FOR PROPOSALS, THE JOINT TECHNOLOGY
2	COMMITTEE SHALL MEET AS SOON AS FEASIBLY POSSIBLE, SO AS TO NOT
3	DELAY THE RELEASE OF THE REQUEST FOR PROPOSALS, TO DISCUSS ISSUES
4	RELATED TO THE REQUEST FOR PROPOSALS, TECHNICAL AND COST BENEFIT
5	ISSUES RELATED TO THE PILOT PROGRAM, AND THE OVERALL TECHNICAL
6	FEASIBILITY OF THE PILOT PROGRAM.
7	(2) THE DATA ANALYTIC SYSTEM MUST PROVIDE THE FOLLOWING
8	CAPABILITIES:
9	(a) THE ABILITY TO INTEGRATE DATA FROM VARIOUS STATE AND
10	COUNTY DATA SOURCES;
11	(b) ADVANCED MATCHING AND ENTITY RESOLUTION TO
12	ACCURATELY MERGE DATA FROM DIFFERENT DATABASES;
13	(c) ADVANCED SOCIAL NETWORK OR LINK ANALYSIS TO
14	DETERMINE BOTH KNOWN AND HIDDEN RELATIONSHIPS THAT THE CHILD
15	MAY HAVE WITH OTHER PEOPLE;
16	(d) USE OF THE LATEST ADVANCED ANALYTICAL TECHNIQUES,
17	INCLUDING PREDICTIVE MODELING; COMPLEX PATTERN ANALYSIS; SOCIAL
18	NETWORK ANALYSIS; TEXT MINING; AND GEOSPATIAL ANALYSIS, TO MORE
19	ACCURATELY AND PRECISELY CALCULATE CHILD RISK SCORES;
20	(e) THE ABILITY TO REGULARLY MONITOR DATA SOURCES TO
21	AUTOMATICALLY IDENTIFY CHANGES TO A CHILD'S ENVIRONMENT AND
22	RECALCULATE THE CHILD'S RISK ACCORDINGLY;
23	$(f) \ A {\tt NALERTINGMECHANISMTHATNOTIFIESCASEWORKERSWHEN}$
24	CHILD RISK FACTORS EXCEED PRESET TOLERANCE LEVELS;
25	(g) An intuitive user interface for caseworkers to easily
26	PRIORITIZE AND VISUALIZE CASES AND RELATED INFORMATION ABOUT THE
27	CHILD AND HIS OR HER ENVIRONMENT; AND

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1	(II) THE ABILITY FOR FEEDBACK AND SELF-LEARNING THAT
2	CAPTURES OUTCOMES AND UTILIZES THE INFORMATION TO IMPROVE
3	ANALYTIC ACCURACY OVER TIME.
4	(3) AT THE CONCLUSION OF THE REQUEST FOR PROPOSALS PROCESS
5	DEVELOPED PURSUANT TO SUBSECTION (1) OF THIS SECTION, THE STATE
6	DEPARTMENT SHALL SELECT AND ENTER INTO A VENDOR CONTRACT FOR
7	THE PILOT PROGRAM IN AN AMOUNT NOT TO EXCEED FIVE HUNDRED
8	THOUSAND DOLLARS WITH A TECHNOLOGY VENDOR WITH EXPERIENCE IN
9	IMPLEMENTING DATA ANALYTICS TECHNOLOGY TO ACCESS, INTEGRATE
10	AND ANALYZE ENTERPRISE HUMAN SERVICES DATA TO CALCULATE RISK
11	SCORES. THE TECHNOLOGY VENDOR SELECTED SHALL ENSURE AND
12	CERTIFY ITS COMPLIANCE WITH ALL RELEVANT STATE AND FEDERAL
13	PRIVACY LAWS AND POLICIES.
14	(4) Unless otherwise precluded by state or federal
15	STATUTE OR RULES OR REGULATIONS, STATE AGENCIES SHALL MAKE THEIR
16	DATA AVAILABLE TO THE STATE DEPARTMENT FOR THE SPECIFIC PURPOSE
17	OF THE PILOT PROGRAM. DATA SHARING AGREEMENTS OR MEMORANDA OF
18	UNDERSTANDING MUST BE EXECUTED BETWEEN AGENCIES TO PROTECT
19	THE PRIVACY AND CONFIDENTIALITY OF THE DATA.
20	26-5.1-103. Reporting and recommendations. (1) ON OR
21	BEFORE MARCH 31, 2017, AND EVERY QUARTER THEREAFTER UNLESS
22	OTHERWISE DIRECTED BY THE COMMITTEE CHAIRS, THE STATE
23	DEPARTMENT SHALL SUBMIT A WRITTEN REPORT TO THE JOINT
24	TECHNOLOGY COMMITTEE, THE HEALTH AND HUMAN SERVICES
25	COMMITTEE OF THE SENATE, AND THE PUBLIC HEALTH CARE AND HUMAN
26	SERVICES COMMITTEE OF THE HOUSE OF REPRESENTATIVES, OR ANY
27	SUCCESSOR COMMITTEES, ON THE PROGRESS AND STATUS OF THE PILOT

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1	PROGRAM. THE REPORT MUST INCLUDE, AT A MINIMUM:
2	(a) THE OVERALL PILOT PROGRAM STATUS, MILESTONES, AND
3	BUDGETARY REPORTS;
4	(b) THE DATA SOURCES THAT HAVE BEEN INCORPORATED, AS WELL
5	AS ADDITIONAL DATA SOURCES THAT WOULD ADD VALUE TO THE OVERALL
6	GOALS OF THE PILOT PROGRAM;
7	(c) ANALYTICAL RESULTS AND ACCURACY;
8	(d) Examples of Case Interventions;
9	(e) PRODUCTIVITY IMPROVEMENTS; AND
10	(f) AGENCY PROCEDURAL CHANGES OR BEST PRACTICES
11	IDENTIFIED BY THE PILOT PROGRAM.
12	(2) At the conclusion of the pilot program, the state
13	DEPARTMENT AND THE JOINT TECHNOLOGY COMMITTEE SHALL REVIEW
14	AND, IN ADDITION TO THE QUARTERLY REPORTING REQUIRED PURSUANT
15	TO SUBSECTION (1) OF THIS SECTION, AND AFTER REVIEW BY AN
16	INDEPENDENT THIRD-PARTY EVALUATOR, PROVIDE A RECOMMENDATION,
17	PLAN, AND COST ESTIMATE FOR A STATEWIDE IMPLEMENTATION OF THE
18	PILOT PROGRAM.
19	26-5.1-104. Repeal. This article is repealed, effective
20	January 1, 2018.
21	SECTION 2. Appropriation. (1) For the 2016-17 state fiscal
22	year, \$432,153 is appropriated to the department of human services for
23	use by the office of information technology services. This appropriation
24	is from the general fund. To implement this act, the office may use this
25	appropriation as follows:
26	(a) \$50,000 for the child welfare predictive analytic pilot program;
27	and

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1	(b) \$382,153 for the purchase of information technology services.
2	(2) For the 2016-17 state fiscal year, the general assembly
3	anticipates that the department of human services will receive \$432,153
4	in federal funds for use by the office of information technology services.
5	The appropriation in subsection (1) of this section is based on the
6	assumption that the department will receive this amount of federal funds,
7	which is included for informational purposes only.
8	(3) For the 2016-17 state fiscal year, \$764,306 is appropriated to
9	the office of the governor for use by the office of information technology.
10	This appropriation is from reappropriated funds received from the
11	department of human services under subsections (1) and (2) of this
12	section. To implement this act, the office may use this appropriation to
13	provide information technology services for the department of human
14	services.
15	SECTION 3. Safety clause. The general assembly hereby finds,
16	determines, and declares that this act is necessary for the immediate
17	preservation of the public peace, health, and safety.

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