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LEGISLATIVE ACTION

Senate

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House

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The Committee on Environment and Natural Resources (Brodeur) recommended the following:

**Senate Amendment (with title amendment)**

Delete everything after the enacting clause  
and insert:

Section 1. Section 14.2031, Florida Statutes, is created to  
read:

14.2031 Statewide Office of Resilience.—The Statewide  
Office of Resilience is established within the Executive Office  
of the Governor. The office shall be headed by a Chief  
Resilience Officer, who is appointed by and serves at the



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11 pleasure of the Governor.

12 Section 2. Section 339.157, Florida Statutes, is created to  
13 read:

14 339.157 Resilience action plan.—

15 (1) The department shall develop a resilience action plan  
16 for the State Highway System based on current conditions and  
17 forecasted future events. The goals of the action plan are to do  
18 all of the following:

19 (a) Recommend strategies to enhance infrastructure and the  
20 operational resilience of the State Highway System which may be  
21 incorporated into the transportation asset management plan.

22 (b) Recommend design changes for retrofitting existing and  
23 constructing new state highway facilities.

24 (c) Enhance partnerships for collaboration to address  
25 multijurisdictional resilience needs.

26 (2) The resilience action plan must include all of the  
27 following components:

28 (a) An assessment of the State Highway System to identify  
29 roadway facilities and drainage outfalls that may be subject to  
30 vulnerabilities associated with tidal, rainfall, the combination  
31 of tidal and rainfall, and storm surge flooding, including  
32 future projections of sea-level rise, using existing data for  
33 current and forecasted future events. As part of the assessment,  
34 the department shall do all of the following using the most up-  
35 to-date National Oceanic and Atmospheric Administration  
36 precipitation frequency and sea-level rise data:

37 1. Synthesize historical and current infrastructure  
38 resilience issues statewide.

39 2. Evaluate alternatives for retrofitting existing systems



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40 and infrastructure.

41 3. Develop prioritization criteria for resilience project  
42 identification.

43 4. Develop a prioritized resilience needs project list, in  
44 addition to existing projects within the work program, with the  
45 associated costs and timeline.

46 5. Develop a statewide database identifying and documenting  
47 those assets vulnerable to current and future flooding. The  
48 department shall develop a cost estimate and schedule to enhance  
49 existing data to include site-specific details and existing  
50 criteria to improve the needs prioritization.

51 (b) A systemic review of the department's policies,  
52 procedures, manuals, tools, and guidance documents to identify  
53 revisions that will facilitate cost-effective improvements to  
54 address existing and future State Highway System infrastructure  
55 vulnerabilities associated with flooding and sea-level rise.

56 (c) Provision of technical assistance to local agencies and  
57 modal partners on resilience issues related to the State Highway  
58 System and the deployment of local and regional solutions.

59 (3) By June 20, 2023, the department shall submit the  
60 resilience action plan to the Governor, the President of the  
61 Senate, and the Speaker of the House of Representatives. Every  
62 third year on June 30 thereafter, the department shall submit a  
63 status report reviewing updates to the action plan and the  
64 associated implementation activities.

65 Section 3. Section 380.093, Florida Statutes, is amended to  
66 read:

67 380.093 Resilient Florida Grant Program; comprehensive  
68 statewide flood vulnerability and sea-level ~~sea-level~~ rise data



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69 set and assessment; Statewide Flooding and Sea-Level ~~Sea-Level~~  
70 Rise Resilience Plan; regional resilience entities.—

71 (1) LEGISLATIVE INTENT.—

72 (a) The Legislature recognizes that this ~~the~~ state is  
73 particularly vulnerable to adverse impacts from flooding  
74 resulting from increases in frequency and duration of rainfall  
75 events, storm surge from more frequent and severe weather  
76 systems, and sea-level ~~sea-level~~ rise. Such adverse impacts pose  
77 economic, social, environmental, and public health and safety  
78 challenges to this ~~the~~ state. To most effectively address these  
79 challenges, funding should be allocated in a manner that  
80 prioritizes addressing the most significant risks.

81 (b) The Legislature further recognizes that the adverse  
82 impacts of flooding and sea-level ~~sea-level~~ rise affect coastal  
83 and inland communities all across the state. Consequently, a  
84 coordinated approach is necessary to maximize the benefit of  
85 efforts to address such impacts and to improve the state's  
86 resilience to flooding and sea-level ~~sea-level~~ rise.

87 (c) The Legislature further recognizes that to effectively  
88 and efficiently address and prepare for the adverse impacts of  
89 flooding and sea-level ~~sea-level~~ rise in this ~~the~~ state, it is  
90 necessary to conduct a comprehensive statewide assessment of the  
91 specific risks posed to this ~~the~~ state by flooding and sea-level  
92 ~~sea-level~~ rise and develop a statewide coordinated approach to  
93 addressing such risks.

94 (2) DEFINITIONS.—As used in this section, the term:

95 (a) "Critical asset" includes:

96 1. Transportation assets and evacuation routes, including  
97 airports, bridges, bus terminals, ports, major roadways,



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98 marinas, rail facilities, and railroad bridges.

99       2. Critical infrastructure, including wastewater treatment  
100 facilities and lift stations, stormwater treatment facilities  
101 and pump stations, drinking water facilities, water utility  
102 conveyance systems, electric production and supply facilities,  
103 solid and hazardous waste facilities, military installations,  
104 communications facilities, and disaster debris management sites.

105       3. Critical community and emergency facilities, including  
106 schools, colleges, universities, community centers, correctional  
107 facilities, disaster recovery centers, emergency medical service  
108 facilities, emergency operation centers, fire stations, health  
109 care facilities, hospitals, law enforcement facilities, local  
110 government facilities, logistical staging areas, affordable  
111 public housing, risk shelter inventory, and state government  
112 facilities.

113       4. Natural, cultural, and historical resources, including  
114 conservation lands, parks, shorelines, surface waters, wetlands,  
115 and historical and cultural assets.

116       (b) "Department" means the Department of Environmental  
117 Protection.

118       (c) "Preconstruction activities" means activities  
119 associated with a project which occur before construction  
120 begins, including, but not limited to, design of the project,  
121 permitting for the project, surveys, site development,  
122 solicitation, public hearings, local code amendments,  
123 establishing local funding sources, and easement acquisition.

124       (d) "Regionally significant assets" means critical assets  
125 that support the needs of communities spanning multiple  
126 geopolitical jurisdictions, including, but not limited to,



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127 regional medical centers, emergency operations centers, regional  
128 utilities, major transportation hubs and corridors, airports,  
129 and seaports.

130 (3) RESILIENT FLORIDA GRANT PROGRAM.—

131 (a) The Resilient Florida Grant Program is established  
132 within the department.

133 (b) Subject to appropriation, the department may provide  
134 grants to a county or municipality to fund:

135 1. The costs of community resilience planning and necessary  
136 data collection for such planning, including comprehensive plan  
137 amendments and necessary corresponding analyses that address the  
138 requirements of s. 163.3178(2)(f).†

139 2. Vulnerability assessments that identify or address risks  
140 of inland or coastal flooding and sea-level ~~sea level~~ rise.†

141 3. The development of projects, plans, and policies that  
142 allow communities to prepare for threats from flooding and sea-  
143 level ~~sea level~~ rise.† and

144 4. Preconstruction activities for projects to be submitted  
145 for inclusion in the Statewide Flooding and Sea-Level Rise  
146 Resilience Plan which are located in a municipality that has a  
147 population of 10,000 or fewer or a county that has a population  
148 of 50,000 or fewer, according to the most recent April 1  
149 population estimates posted on the Office of Economic and  
150 Demographic Research's website ~~projects to adapt critical assets~~  
151 to the effects of flooding and sea level rise.

152 (c) A vulnerability assessment conducted pursuant to  
153 paragraph (b) must encompass the entire county or municipality;  
154 include all critical assets owned or maintained by the grant  
155 applicant; and use the most recent publicly available Digital



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156 Elevation Model and generally accepted analysis and modeling  
157 techniques. An assessment may encompass a smaller geographic  
158 area or include only a portion of the critical assets owned or  
159 maintained by the grant applicant with appropriate rationale and  
160 upon approval by the department. Locally collected elevation  
161 data may also be included as part of the assessment as long as  
162 it is submitted to the department pursuant to this paragraph.

163 1. The assessment must include an analysis of the  
164 vulnerability of and risks to critical assets, including  
165 regionally significant assets, owned or managed by the county or  
166 municipality.

167 2. Upon completion of a vulnerability assessment, the  
168 county or municipality shall submit to the department the  
169 following:

170 a. A report detailing the findings of the assessment.

171 b. All electronic mapping data used to illustrate flooding  
172 and sea-level ~~sea-level~~ rise impacts identified in the  
173 assessment. When submitting such data, the county or  
174 municipality shall include:

175 (I) Geospatial data in an electronic file format suitable  
176 for input to the department's mapping tool.

177 (II) Geographic information system data that has been  
178 projected into the appropriate Florida State Plane Coordinate  
179 System and that is suitable for the department's mapping tool.  
180 The county or municipality must also submit metadata using  
181 standards prescribed by the department.

182 c. A list of critical assets, including regionally  
183 significant assets, that are impacted by flooding and sea-level  
184 ~~sea-level~~ rise.



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185 (d) A vulnerability assessment conducted pursuant to  
186 paragraph (b) must include all of the following, if applicable:

187 1. Peril of flood comprehensive plan amendments that  
188 address the requirements of s. 163.3178(2)(f), if the county or  
189 municipality is subject to such requirements and has not  
190 complied with such requirements as determined by the Department  
191 of Economic Opportunity.

192 2. The depth of:

193 a. Tidal flooding, including future high tide flooding,  
194 which must use thresholds published and provided by the  
195 department. To the extent practicable, the analysis should also  
196 geographically display the number of tidal flood days expected  
197 for each scenario and planning horizon.

198 b. Current and future storm surge flooding using publicly  
199 available National Oceanic and Atmospheric Administration or  
200 Federal Emergency Management Agency storm surge data. The  
201 initial storm surge event used must equal or exceed the current  
202 100-year flood event. Higher frequency storm events may be  
203 analyzed to understand the exposure of a critical asset.

204 c. To the extent practicable, rainfall-induced flooding  
205 using spatiotemporal analysis or existing hydrologic and  
206 hydraulic modeling results. Future boundary conditions should be  
207 modified to consider sea-level ~~sea-level~~ rise and high tide  
208 conditions. Vulnerability assessments for noncoastal communities  
209 must include the depth of rainfall-induced flooding for a 100-  
210 year storm and a 500-year storm, as defined by the applicable  
211 water management district or, if necessary, the appropriate  
212 federal agency. Projections of future rainfall conditions should  
213 be utilized, if available.





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214 d. To the extent practicable, compound flooding or the  
215 combination of tidal, storm surge, and rainfall-induced  
216 flooding.

217 3. The following scenarios and standards:

218 a. All analyses in the North American Vertical Datum of  
219 1988.

220 b. At least two local sea-level ~~sea level~~ rise scenarios,  
221 which must include the 2017 National Oceanic and Atmospheric  
222 Administration intermediate-low and intermediate-high sea-level  
223 ~~sea level~~ rise projections.

224 c. At least two planning horizons that include planning  
225 horizons for the years 2040 and 2070.

226 d. Local sea-level ~~sea level~~ data that has been  
227 interpolated between the two closest National Oceanic and  
228 Atmospheric Administration tide gauges. Local sea-level ~~sea~~  
229 ~~level~~ data may be taken from one such gauge if the gauge has a  
230 higher mean sea level. Data taken from an alternate tide gauge  
231 may be used with appropriate rationale and department approval,  
232 as long as it is publicly available or submitted to the  
233 department pursuant to paragraph (b).

234 (4) COMPREHENSIVE STATEWIDE FLOOD VULNERABILITY AND SEA-  
235 LEVEL ~~SEA LEVEL~~ RISE DATA SET AND ASSESSMENT.—

236 (a) By July 1, 2023 ~~2022~~, the department shall complete the  
237 development of a comprehensive statewide flood vulnerability and  
238 sea-level ~~sea level~~ rise data set sufficient to conduct a  
239 comprehensive statewide flood vulnerability and sea-level ~~sea~~  
240 ~~level~~ rise assessment. In developing the data set, the  
241 department, in coordination with the Florida Flood Hub for  
242 Applied Research and Innovation, shall compile, analyze, and



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243 incorporate, as appropriate, information related to  
244 vulnerability assessments submitted to the department pursuant  
245 to subsection (3) or any previously completed assessments that  
246 meet the requirements of subsection (3).

247 1. The Chief Science Officer shall, in coordination with  
248 necessary experts and resources, develop statewide sea-level ~~sea~~  
249 ~~level~~ rise projections that incorporate temporal and spatial  
250 variability, to the extent practicable, for inclusion in the  
251 data set. This subparagraph does not supersede regionally  
252 adopted projections.

253 2. The data set must include information necessary to  
254 determine the risks to inland and coastal communities,  
255 including, but not limited to, elevation, tidal levels, and  
256 precipitation.

257 (b) By July 1, 2024 ~~2023~~, the department shall complete a  
258 comprehensive statewide flood vulnerability and sea-level ~~sea~~  
259 ~~level~~ rise assessment that identifies inland and coastal  
260 infrastructure, geographic areas, and communities in this ~~the~~  
261 state that are vulnerable to flooding and sea-level ~~sea-level~~  
262 rise and the associated risks.

263 1. The department shall use the comprehensive statewide  
264 flood vulnerability and sea-level ~~sea-level~~ rise data set to  
265 conduct the assessment.

266 2. The assessment must incorporate local and regional  
267 analyses of vulnerabilities and risks, including, as  
268 appropriate, local mitigation strategies and postdisaster  
269 redevelopment plans.

270 3. The assessment must include an inventory of critical  
271 assets, including regionally significant assets, that are



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272 essential for critical government and business functions,  
273 national security, public health and safety, the economy, flood  
274 and storm protection, water quality management, and wildlife  
275 habitat management, and must identify and analyze the  
276 vulnerability of and risks to such critical assets. When  
277 identifying critical assets for inclusion in the assessment, the  
278 department shall also take into consideration the critical  
279 assets identified by local governments and submitted to the  
280 department pursuant to subsection (3).

281 (c) The department shall update the comprehensive statewide  
282 flood vulnerability and sea-level ~~sea-level~~ rise data set and  
283 assessment every 5 years. The department may update the data set  
284 and assessment more frequently if it determines that updates are  
285 necessary to maintain the validity of the data set and  
286 assessment.

287 (5) STATEWIDE FLOODING AND SEA-LEVEL ~~SEA-LEVEL~~ RISE  
288 RESILIENCE PLAN.—

289 (a) By December 1, 2021, and each December 1 thereafter,  
290 the department shall develop a Statewide Flooding and Sea-Level  
291 ~~Sea-Level~~ Rise Resilience Plan on a 3-year planning horizon and  
292 submit it to the Governor, the President of the Senate, and the  
293 Speaker of the House of Representatives. The plan must consist  
294 of ranked projects that address risks of flooding and sea-level  
295 ~~sea-level~~ rise to coastal and inland communities in the state.  
296 All eligible projects submitted to the department under this  
297 section must be ranked and included in the plan. Each plan must  
298 include a detailed narrative overview describing how the plan  
299 was developed, including a description of the methodology used  
300 by the department to determine project eligibility, a



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301 description of the methodology used to rank projects, the  
302 specific scoring system used, the project proposal application  
303 form, a copy of each submitted project proposal application form  
304 with projects separated by "eligible" and "not eligible," the  
305 total number of project proposals received and deemed eligible,  
306 the total funding requested, and the total funding requested for  
307 eligible projects.

308 (b) The plan submitted by December 1, 2021, before the  
309 comprehensive statewide flood vulnerability and sea-level ~~sea~~  
310 ~~level~~ rise assessment is completed, will be a preliminary plan  
311 that includes projects that address ~~addresses~~ risks of flooding  
312 and sea-level ~~sea-level~~ rise identified in available local  
313 government vulnerability assessments and projects submitted by  
314 water management districts which mitigate the risks of flooding  
315 or sea-level rise on water supplies or water resources of the  
316 state. The plan submitted by December 1, 2022, and the plan  
317 submitted by December 1, 2023, will be updates ~~an update~~ to the  
318 preliminary plan. The plan submitted by December 1, 2024 ~~2023~~,  
319 and each plan submitted by December 1 thereafter, must ~~shall~~  
320 address risks of flooding and sea-level ~~sea-level~~ rise  
321 identified in the comprehensive statewide flood vulnerability  
322 and sea-level ~~sea-level~~ rise assessment.

323 (c) Each plan submitted by the department pursuant to this  
324 subsection must include the following information for each  
325 recommended project:

- 326 1. A description of the project.
- 327 2. The location of the project.
- 328 3. An estimate of how long the project will take to  
329 complete.



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- 330 4. An estimate of the cost of the project.  
331 5. The cost-share percentage available for the project.  
332 6. A summary of the priority score assigned to the project.  
333 7. The project sponsor.

334 (d)1. By September 1, 2021, and each September 1  
335 thereafter, the following entities ~~counties and municipalities~~  
336 may submit to the department a list of proposed projects that  
337 address risks of flooding or sea-level ~~sea-level~~ rise identified  
338 in vulnerability assessments that meet the requirements of  
339 subsection (3):-

340 a. Counties.

341 b. Municipalities.

342 c. Special districts, as defined in s. 189.012, which are  
343 responsible for the operation and maintenance of an airport or a  
344 seaport facility.

345  
346 For the plans submitted by December 1, 2021; December 1, 2022;  
347 and December 1, 2023, such entities may submit projects  
348 identified in existing vulnerability assessments which do not  
349 comply with subsection (3). A regional resilience entity may  
350 also submit ~~such~~ proposed projects to the department pursuant to  
351 this subparagraph on behalf of one or more member counties or  
352 municipalities.

353 2. By September 1, 2021, and each September 1 thereafter,  
354 the following entities ~~each water management district and flood~~  
355 ~~control district~~ may submit to the department a list of any  
356 proposed projects that mitigate the risks of flooding or sea-  
357 level ~~sea-level~~ rise on water supplies or water resources of  
358 this ~~the~~ state and a corresponding evaluation of each project:-



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- 359        a. Water management districts.  
360        b. Drainage districts.  
361        c. Erosion control districts.  
362        d. Flood control districts.  
363        3. Each project submitted to the department pursuant to  
364 this paragraph by a county, municipality, regional resilience  
365 entity, water management district, or flood control district for  
366 consideration by the department for inclusion in the plan must  
367 include:  
368        a. A description of the project.  
369        b. The location of the project.  
370        c. An estimate of how long the project will take to  
371 complete.  
372        d. An estimate of the cost of the project.  
373        e. The cost-share percentage available for the project.  
374        f. The project sponsor.  
375        (e) Each project included in the plan must have a minimum  
376 50 percent cost share unless the project assists or is within a  
377 financially disadvantaged small community. For purposes of this  
378 section, the term "financially disadvantaged small community"  
379 means:  
380        1. A municipality that has a population of 10,000 or fewer,  
381 according to the most recent April 1 population estimates posted  
382 on the Office of Economic and Demographic Research's website,  
383 and a per capita annual income that is less than the state's per  
384 capita annual income as shown in the most recent release from  
385 the Bureau of the Census of the United States Department of  
386 Commerce that includes both measurements; or  
387        2. A county that has a population of 50,000 or fewer,



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388 according to the most recent April 1 population estimates posted  
389 on the Office of Economic and Demographic Research's website,  
390 and a per capita annual income that is less than the state's per  
391 capita annual income as shown in the most recent release from  
392 the Bureau of the Census of the United States Department of  
393 Commerce that includes both measurements.

394 (f) To be eligible for inclusion in the plan, a project  
395 must have been submitted ~~by a county, municipality, regional~~  
396 ~~resilience entity, water management district, or flood control~~  
397 ~~district~~ pursuant to paragraph (d) or must have been identified  
398 in the comprehensive statewide flood vulnerability and sea-level  
399 ~~sea-level~~ rise assessment, as applicable.

400 (g) Expenses ineligible for inclusion in the plan include,  
401 but are not limited to, expenses associated with:

- 402 1. Aesthetic vegetation.
- 403 2. Recreational structures such as piers, docks, and  
404 boardwalks.
- 405 3. Water quality components of stormwater and wastewater  
406 management systems, except for expenses to mitigate water  
407 quality impacts caused by the project or expenses related to  
408 water quality which are necessary to obtain a permit for the  
409 project.
- 410 4. Maintenance and repair of over-walks.
- 411 5. Park activities and facilities, except expenses to  
412 control flooding or erosion.
- 413 6. Navigation construction, operation, and maintenance  
414 activities.
- 415 7. Projects that provide only recreational benefits.

416 (h) The department shall implement a scoring system for



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417 assessing each project eligible for inclusion in the plan  
418 pursuant to this subsection. The scoring system must include the  
419 following tiers and associated criteria:

420 1. Tier 1 must account for 40 percent of the total score  
421 and consist of all of the following criteria:

422 a. The degree to which the project addresses the risks  
423 posed by flooding and sea-level ~~sea-level~~ rise identified in the  
424 local government vulnerability assessments or the comprehensive  
425 statewide flood vulnerability and sea-level ~~sea-level~~ rise  
426 assessment, as applicable.

427 b. The degree to which the project addresses risks to  
428 regionally significant assets.

429 c. The degree to which the project reduces risks to areas  
430 with an overall higher percentage of vulnerable critical assets.

431 d. The degree to which the project contributes to existing  
432 flooding mitigation projects that reduce upland damage costs by  
433 incorporating new or enhanced structures or restoration and  
434 revegetation projects.

435 2. Tier 2 must account for 30 percent of the total score  
436 and consist of all of the following criteria:

437 a. The degree to which flooding and erosion currently  
438 affect the condition of the project area.

439 b. The overall readiness of the project to proceed in a  
440 timely manner, considering the project's readiness for the  
441 construction phase of development, the status of required  
442 permits, the status of any needed easement acquisition, and the  
443 availability of local funding sources.

444 c. The environmental habitat enhancement or inclusion of  
445 nature-based options for resilience, with priority given to





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446 state or federal critical habitat areas for threatened or  
447 endangered species.

448 d. The cost-effectiveness of the project.

449 3. Tier 3 must account for 20 percent of the total score  
450 and consist of all of the following criteria:

451 a. The availability of local, state, and federal matching  
452 funds, considering the status of the funding award, and federal  
453 authorization, if applicable.

454 b. Previous state commitment and involvement in the  
455 project, considering previously funded phases, the total amount  
456 of previous state funding, and previous partial appropriations  
457 for the proposed project.

458 c. The exceedance of the flood-resistant construction  
459 requirements of the Florida Building Code and applicable flood  
460 plain management regulations.

461 4. Tier 4 must account for 10 percent of the total score  
462 and consist of all of the following criteria:

463 a. The proposed innovative technologies designed to reduce  
464 project costs and provide regional collaboration.

465 b. The extent to which the project assists financially  
466 disadvantaged communities.

467 (i) The total amount of funding proposed for each year of  
468 the plan may not be less than ~~exceed~~ \$100 million. Upon review  
469 and subject to appropriation, the Legislature shall approve  
470 funding for the projects as specified in the plan. Multiyear  
471 projects that receive funding for the first year of the project  
472 must be included in subsequent plans and funded until the  
473 project is complete, provided that the project sponsor has  
474 complied with all contractual obligations and funds are



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475 available.

476 (j) The department shall initiate rulemaking by August 1,  
477 2021, to implement this section.

478 (6) REGIONAL RESILIENCE ENTITIES.—Subject to specific  
479 legislative appropriation, the department may provide funding  
480 for the following purposes to regional entities that are  
481 established by general purpose local governments and whose  
482 responsibilities include planning for the resilience needs of  
483 communities and coordinating intergovernmental solutions to  
484 mitigate adverse impacts of flooding and sea-level ~~sea-level~~  
485 rise:

486 (a) Providing technical assistance to counties and  
487 municipalities.

488 (b) Coordinating multijurisdictional vulnerability  
489 assessments.

490 (c) Developing project proposals to be submitted for  
491 inclusion in the Statewide Flooding and Sea-Level ~~Sea-Level~~ Rise  
492 Resilience Plan.

493 Section 4. Section 380.0933, Florida Statutes, is amended  
494 to read:

495 380.0933 Florida Flood Hub for Applied Research and  
496 Innovation.—

497 (1) The Florida Flood Hub for Applied Research and  
498 Innovation is established within the University of South Florida  
499 College of Marine Science to coordinate efforts between the  
500 academic and research institutions of the state. The University  
501 of South Florida College of Marine Science or its successor  
502 entity will serve as the lead institution and engage other  
503 academic and research institutions, private partners, and



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504 financial sponsors to coordinate efforts to support applied  
505 research and innovation to address the flooding and sea-level  
506 ~~sea level~~ rise challenges of this ~~the~~ state.

507 (2) The hub shall, at a minimum:

508 (a) Organize existing data needs for a comprehensive  
509 statewide flood vulnerability and sea-level ~~sea level~~ rise  
510 analysis and perform a gap analysis to determine data needs.

511 (b) Develop statewide open source hydrologic models for  
512 physically based flood frequency estimation and real-time  
513 forecasting of floods, including hydraulic models of floodplain  
514 inundation mapping, real-time compound and tidal flooding  
515 forecasts, future groundwater elevation conditions, and economic  
516 damage and loss estimates.

517 (c) Coordinate research funds from the state, the federal  
518 government, or other funding sources for related hub activities  
519 across all participating entities.

520 (d) Establish community-based programs to improve flood  
521 monitoring and prediction along major waterways, including  
522 intracoastal waterways and coastlines, of this ~~the~~ state and to  
523 support ongoing flood research.

524 (e) Coordinate with agencies, including, but not limited  
525 to, the Department of Environmental Protection and water  
526 management districts.

527 (f) Share its resources and expertise.

528 (g) Assist in the development of training and in the  
529 development of a workforce in this ~~the~~ state that is  
530 knowledgeable about flood and sea-level ~~sea level~~ rise research,  
531 prediction, and adaptation and mitigation strategies.

532 (h) Develop opportunities to partner with other flood and



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533 sea-level ~~sea-level~~ rise research and innovation leaders for  
534 sharing technology or research.

535 (i) Conduct the activities under this subsection in  
536 cooperation with various local, state, and federal government  
537 entities as well as other flood and sea-level ~~sea-level~~ rise  
538 research centers.

539 (3) The hub must provide tidal and storm surge flooding  
540 data to counties and municipalities for vulnerability  
541 assessments that are conducted pursuant to s. 380.093(3). The  
542 hub must provide rainfall-induced and compound flooding data  
543 sets; however, more localized data or modeling may be used.

544 (4) The hub shall employ an executive director.

545 ~~(5)-(4)~~ By July 1, 2022, and each July 1 thereafter, the hub  
546 shall provide an annual comprehensive report to the Governor,  
547 the President of the Senate, and the Speaker of the House of  
548 Representatives that outlines its clearly defined goals and its  
549 efforts and progress on reaching such goals.

550 Section 5. Subsection (2) of section 472.0366, Florida  
551 Statutes, is amended to read:

552 472.0366 Elevation certificates; requirements for surveyors  
553 and mappers.—

554 (2) Beginning January 1, 2023 ~~2017~~, a surveyor and mapper  
555 shall, within 30 days after completion, submit to the division a  
556 digital copy of each elevation certificate that he or she  
557 completes as outlined on the division's website. The copy must  
558 be unaltered, except that the surveyor and mapper may redact the  
559 name of the property owner. The copy need not be signed and  
560 sealed when submitted to the division; however, an original  
561 signed and sealed copy must be retained in the surveyor and



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562 mapper's records as prescribed by rule of the board.

563 Section 6. This act shall take effect July 1, 2022.

564

565 ===== T I T L E A M E N D M E N T =====

566 And the title is amended as follows:

567 Delete everything before the enacting clause

568 and insert:

569 A bill to be entitled

570 An act relating to statewide flooding and sea-level

571 rise resilience; creating s. 14.2031, F.S.;

572 establishing the Statewide Office of Resilience within

573 the Executive Office of the Governor; providing for

574 the appointment of a Chief Resilience Officer;

575 creating s. 339.157, F.S.; requiring the Department of

576 Transportation to develop a resilience action plan for

577 the State Highway System; providing the goals and

578 required components of the plan; requiring the

579 department to submit the plan to the Governor and the

580 Legislature by a specified date; requiring the plan to

581 be updated every 3 years; providing requirements for

582 the updated plan; amending s. 380.093, F.S.; defining

583 terms; revising the projects the Department of

584 Environmental Protection may fund within the Resilient

585 Florida Grant Program; revising vulnerability

586 assessment requirements for noncoastal communities;

587 extending the dates by which the department must

588 complete a comprehensive statewide flood vulnerability

589 and sea-level rise data set and assessment; requiring

590 the data set to be developed in coordination with the



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591 Florida Flood Hub for Applied Research and Innovation;  
592 requiring eligible projects submitted to the  
593 department to be ranked and included in the Statewide  
594 Flood and Sea-Level Rise Resilience Plan; revising the  
595 entities authorized to submit proposed projects by  
596 specified dates for the plan; amending s. 380.0933,  
597 F.S.; requiring the Florida Flood Hub for Applied  
598 Research and Innovation to provide tidal and storm  
599 surge flooding data to counties and municipalities for  
600 vulnerability assessments; amending s. 472.0366, F.S.;  
601 revising the effective date of a requirement that a  
602 surveyor and mapper submit a copy of completed  
603 elevation certificates to the Division of Emergency  
604 Management; requiring the surveyor and mapper to  
605 submit a digital copy of a completed elevation  
606 certificate to the division; providing an effective  
607 date.