

Members

Sen. Brandt Hershman, Chairperson
Sen. Vi Simpson
Rep. Kathy Kreag Richardson
Rep. Linda Lawson



LEGISLATIVE COUNCIL DATA PROCESSING SUBCOMMITTEE

Legislative Services Agency
200 West Washington Street, Suite 301
Indianapolis, Indiana 46204-2789
Tel: (317) 233-0696 Fax: (317) 232-2554

LSA Staff:

John M. Ross, Attorney for the Subcommittee
Diane Powers, Fiscal Analyst for the
Subcommittee

Authority: Reestablished by Legislative Council
May 19, 2004

MEETING MINUTES¹

Meeting Date: September 01, 2011
Meeting Time: 11:00 A.M.
Meeting Place: State House, 200 W. Washington
St., 431
Meeting City: Indianapolis, Indiana
Meeting Number: 1

Members Present: Sen. Brandt Hershman, Chairperson; Sen. Vi Simpson; Rep. Kathy Kreag Richardson.

Members Absent: Rep. Linda Lawson.

Senator Hershman called the meeting to order, introduced the members who were present and briefly set forth the Legislative Council's charge to the subcommittee. He advised that they were to study the potential cost savings, convenience and flexibility of iPad type technology for the General Assembly. Included in the study would be a review of what other legislatures have experienced with iPad technology. The subcommittee is to report back to the Legislative Council later this interim.

Senator Hershman invited George Angelone to address the subcommittee regarding some of the preliminary research that he and others had accomplished in anticipation of this meeting. George referred the members to a memo (Exhibit A) which set forth a suggested approach the subcommittee could use to comply with the Legislative Council's directive. The memo, and George's comments to the subcommittee, addressed the following:

¹ These minutes, exhibits, and other materials referenced in the minutes can be viewed electronically at <http://www.in.gov/legislative>. Hard copies can be obtained in the Legislative Information Center in Room 230 of the State House in Indianapolis, Indiana. Requests for hard copies may be mailed to the Legislative Information Center, Legislative Services Agency, West Washington Street, Indianapolis, IN 46204-2789. A fee of \$0.15 per page and mailing costs will be charged for hard copies.

- (1) Developments in other states regarding iPads and other electronic alternatives to paper documents;
- (2) Benefits of mobile technology;
- (3) Suggested pilot project; and
- (4) Workflow and Design study.

(For details regarding these four topics, see Exhibit A.)

The subcommittee agreed to proceed with the initial phase of the pilot project by providing each member of the subcommittee with an iPad immediately. The iPads will be loaded with appropriate software to allow for testing of the technology for a period of time. After the testing period and review of feedback from subcommittee members, the subcommittee will decide if a second phase of the pilot project should proceed with a group of legislators testing the technology during the 2012 General Assembly.

Ball State University agreed to provide a workflow and design study at no cost. Jonathan Huer, the director of the Department of Emerging Technologies and Media Development at Ball State, made a presentation to the subcommittee regarding the proposed study. (See Exhibit B.) The subcommittee agreed to allow Ball State to proceed with the study.

Access Indiana made a presentation to the subcommittee regarding the possibility of the internet providing tablet-friendly applications. (See Exhibit C.)

Representative Richardson and Senator Simpson were provided with iPads. (Senator Hershman already owned an iPad.) LSA staff was charged with surveying the members regarding their experiences with the iPad over the test period to help determine if the pilot project should be expanded to additional legislators.

The meeting adjourned at 12:00 noon.

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LCOP
9/1/2001
EXHIBIT A

To: Members of the Data Processing Subcommittee
From: George Angelone, Deputy Director
Re: Study Topic Assigned to the Data Processing Subcommittee
Date: September 1, 2011

On June 7, 2011, the Legislative Council assigned the following study topic to the Data Processing Subcommittee:

Studying and report back to the Legislative Council regarding the potential savings to be realized through the use of iPad-type technology in the General Assembly. Include in the study a review of what other states are doing and an analysis of the potential cost savings, flexibility and convenience of such devices.

The Council directed the Data Processing Subcommittee to report back to the Council this interim. Under Resolution 11-02, the Subcommittee's last meeting must be held not later than October 31, 2011, and a final report to the Council must be submitted within 10 working days after the final meeting of the Subcommittee, unless the Council Chairman and Vice-Chairman jointly extend the due date for a Subcommittee's final report.

The study topic can be subdivided into the following questions:

- How are other state legislatures using mobile technology like the iPad?
- How might the Indiana General Assembly use mobile technology like the iPad to maximize cost savings and other advantages, such as convenience and flexibility?

Developments in Other States

A preliminary survey of information on the Internet indicates that three states have purchased iPads for some or all legislators and are evaluating the usefulness of these devices:

- Vermont (Conducted a pilot project with the members of one standing committee in the House of Representatives. The pilot project has been expanded to a second standing committee in the Senate).
- Virginia (Conducting a pilot project with 15 members set to be completed in 2012).
- West Virginia (Senate has developed a specialized applications and distributed iPads to all 40 Senators).

The projects in these states have not progressed to the point that long term benefits can be assessed. However, they report that they are achieving significant cost savings, increasing availability to legislative information, and more effectively handling legislative information.

Significantly more states are evaluating how best to convert paper driven activities into paperless activities. Developments include:

- Florida, Texas, New York, Washington, and other states are modifying their public Internet sites to make it easier to retrieve information on smart phones and using RSS technology to send out electronic notices of meetings and other events.
- At least 18 states are exploring or have committed to distributing bill packets, committee packets, notices, and other documents in electronic form rather than as paper documents.
 - The initiatives in these states began before iPad-type devices became widely available.
 - Legislators in most of these states use laptops to view electronic files.
 - Two of these states have declared that the electronic version is the "official" authenticated version of the law or other information in the electronic file.
 - New York is putting a public question on the ballot to require the legislature to go "paperless".

Although not part of the study requested by the Indiana Legislative Council, a third development is the use of off-site computer hardware and software accessible through the Internet ("cloud services") to conduct legislative business. At least two states (Wyoming; Virginia) are in the process of replacing basic word processing, spreadsheet, and mail programs that are ordinarily purchased and loaded on each computer with "cloud" services, like Google Apps, which are delivered over the Internet.

Maximizing Benefits from Mobile Technology

Indiana legislators and some staff use laptop computers for mobile computing purposes. Laptops are replaced on a 3 year cycle. The latest generation of these laptops purchased for members of the House of Representatives:

- Weigh 6.24 pounds.
- Have a battery life of 7 hours.
- Cost about \$1,500 each, when out-fitted with the Microsoft Office suite of software and a wireless connection.
- Have an internal 120 gigabytes of internal storage, a 15.5 inch diagonal screen, a CD/DVD drive, 4 UBS ports, and a built-in keyboard and a pointing stick and touch board mouse. Ethernet and wireless connections have been added.

An iPad 2:

- Weighs 1.33 pounds
- Has a battery life rated at 10 hours.
- Costs about \$800 each, when out-fitted with the iWorks office suite software, document reader and annotation software, a protective case, and a wireless keyboard.
- Has 64 gigabytes of internal storage, a diagonal screen size of 9.7 inches, an internal WiFi wireless connection, one proprietary 30 pin dock connector, and touch screen technology to replace a mouse. A touch screen keyboard is built in but a full-sized

wireless keyboard can be added.

Although both laptops and iPad type devices are considered mobile devices, they have different design advantages. PC Magazine said of the laptop model most recently purchased by the House of Representatives, "[a]t 6.1 pounds (with a 9 cell battery), the Dell E5510 is more desktop replacement than commuter friendly, even though it's battery life says otherwise." In contrast, Steve Jobs, former CEO of Apple, Inc., called the iPad a "third-type of device" positioned between smart phones and laptops. It was designed to be good at providing Internet access, being used to read and respond to email, and viewing a broad range of media, including books and news. Not surprisingly, corporations that purchased iPads in 2010 reported that iPads were primarily used for Internet access, reading email, and working way from the office. To a lesser extent, iPads were used to make presentations and replace laptops.

A data consulting company, MISI Company, recently reported the following from its analysis of the usefulness of iPads in the corporate setting:

The employees who benefitted the most were executives who primarily review materials, and those who travel often. The iPad's portability, instant-on nature, easy reader capabilities, and the long battery life made it perfect for them. On the other hand, employees on an associate or administrative level would not benefit as much from this device because they are typically completing more complex work tasks. For these employees, the iPad won't replace their laptop and/or desktop so it would just be another device to carry around.

These consultants suggest that when the leadership of an organization are trying to decide the appropriate use of iPad-type devices, they should:

- Look at how persons who possess the device are using them and how they want to use them.
- Survey, interview, and watch members of the organization work to get a thorough understanding of the tasks that could be performed on the devices. The note that some organizations have used a pilot project to identify how iPad devices could streamline activities.
- Look at the context in which the devices will be used to evaluate the risks and benefits of adoption.
- Provide adequate support and training to ease any transition.

The experience in other states suggest that savings and other advantages can accrue from replacing paper driven legislative processes with greater electronic access to legislative documents. The experiments in Vermont, Virginia, and West Virginia with the iPad are not far enough along to conclude that iPad-type devices are the best device for generating electronic documents or viewing electronic documents. Further analysis specifically geared toward the work of the Indiana General Assembly would be justified.

Although more information can be gained from interviewing staff and legislators in other states, the Staff suggests that the General Assembly take the following steps to gain the information needed to adopt a successful paperless initiative:

- Pilot Project
 - Have members of the DP Subcommittee test iPads loaded with basic software programs through October and ask these legislators for their observations.
 - Interview legislators who have already purchased iPads to get their observations.
 - Note: If the DP Subcommittee determines that further testing is necessary, conduct a Virginia or Vermont type pilot project with one or two committees of the Indiana House of Representatives or Senate, or both, during November 2011 through March 2012 and evaluate the experience in the Summer of 2012.
- Workflow and Design Study
 - Map Work Flows
 - Conduct interviews with staff to map the flow and use of documents in the Indiana House of Representatives and Senate.
 - Conduct interviews with legislators and staff to map how laptops are currently being used and evaluate whether an iPad-type device can accomplish the same tasks.
 - In interviews, ask staff and legislators and get their recommendations.
 - Based on the results of interviews, develop recommendations:
 - How to best convert each legislative task to a paperless process.
 - Whether an iPad device is suitable to support the legislative activities of:
 - * Legislators.
 - * Staff who travel to meeting rooms or other locations to perform part or all of their functions.
 - * How an iPad device and the legislative computer system might be configured to best provide access to legislative information
 - What new applications are needed or useful for supporting the legislative process.
- Evaluate ideas proposed by accessIndiana and the Indiana Office of Technology based on the framework developed in the Workflow and Design Study
- Compile Additional Preliminary Cost and Benefit Data
 - Related to Using Paper:
 - Identify paper, hardware, software, and personnel time devoted to producing, transporting, and storing paper copies.
 - Identify other disadvantages of using paper copies.
 - Evaluate benefits of substituting electronic copies for paper copies.
 - Related to Reconfiguring the General Assembly's Internet, intranet, hardware, and software to reduce the use of paper.
 - Related to Designing Computer Screens and Aggregating Data in a Way that Makes Electronic Information Easy to Get to on a Mobile Device like the iPad.
- Present a Report to the DP Subcommittee

Ball State University has agreed to provide the workflow and design study without charge. They propose to spend September creating a description and flowchart based on interviews and other

research with the legislature that best outlines areas where entities (vendors, Ball State or other universities, etc.) could collaborate and assist the committee, LSA, and other related state organizations in this transition. This should assist with an RFP process. The study would be conducted by the Ball State University Office on Emerging Technologies. There are several advantages to working with Ball State University. Ball State University has:

- Worked with the Indiana General to provide training services when the Indiana General Assembly first distributed laptop computers to legislators.
- Have a dedicated staff who train students how to design and use media software. The projects have included iPhone applications, Web sites, videos, widgets, digital billboards.
- Successfully implemented several iPad projects at Ball State University, including a successful Board of Trustees meeting in which board members used an iPad to review information that had formerly been distributed in paper binders.
- Have a national reputation for working with outside groups, particularly the NCAA, on emergency technology issues.
- Have conducted preliminary discussions with other Indiana educational institutions on the issue of how to best collaborate on computer projects.

A representative of Ball State University will be present at the September 1 meeting of the DP Subcommittee to explain the proposal. In addition, representatives from accessIndiana will be present to demonstrate some of the ideas that accessIndiana and the Indiana Office of Technology believe they could develop and maintain for the General Assembly. accessIndiana has indicated that direction from the General Assembly is needed to decide among the various possible applications that can be developed. The study proposed by Ball State University would provide the framework that can be used by the DP Subcommittee to evaluate the direction that this project should take.

The Ball State University study would not include any programming services, including programming related to the creation of any applications that the legislature wanted. Depending on the decisions made by the DP Subcommittee and the Legislative Council, the legislature could enter into agreements with one or more parties to provide the necessary services to implement the design and provide training related to the new system. These agreements could include some combination of the Department of Administration, accessIndiana, Ball State University, and the IU School of Informatics.

LCDF
9/11/2011
EXHIBIT B



Emerging Tech

@ Ball State University

Jonathan Blake Huer

Director of Emerging Technologies and Media Development

Co-Founder of Ball State University's Digital Corps

BA in Design (UCLA), MFA in Producing (USC),
Executive Certificate in Strategy and Innovation (MIT)

Apple Distinguished Educator, Adobe Education Leader,
2008 *Campus Technology* magazine Innovator Prize

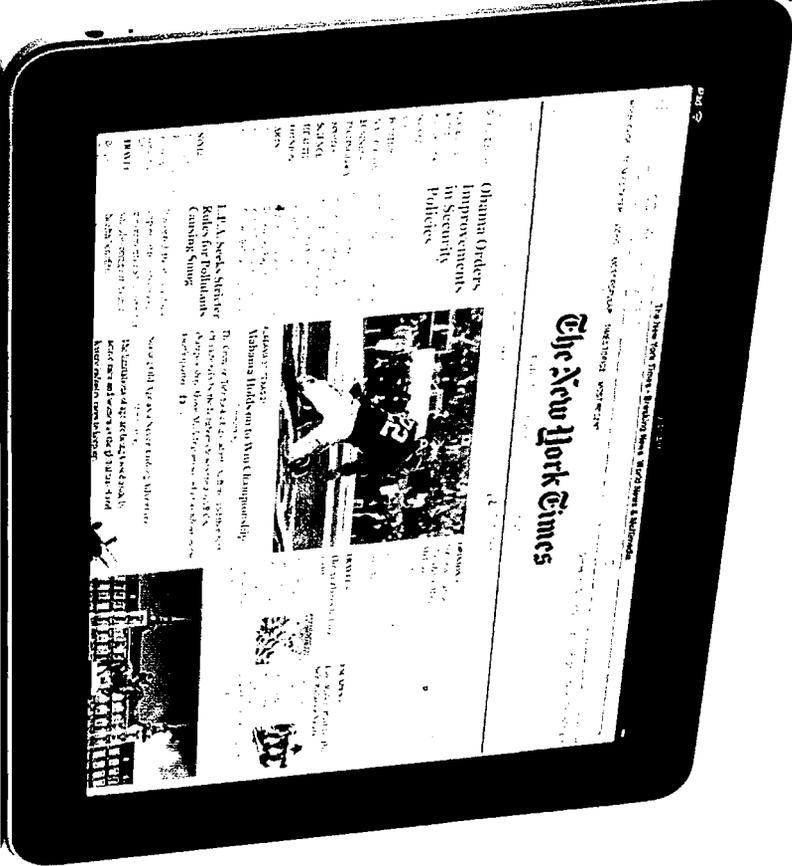
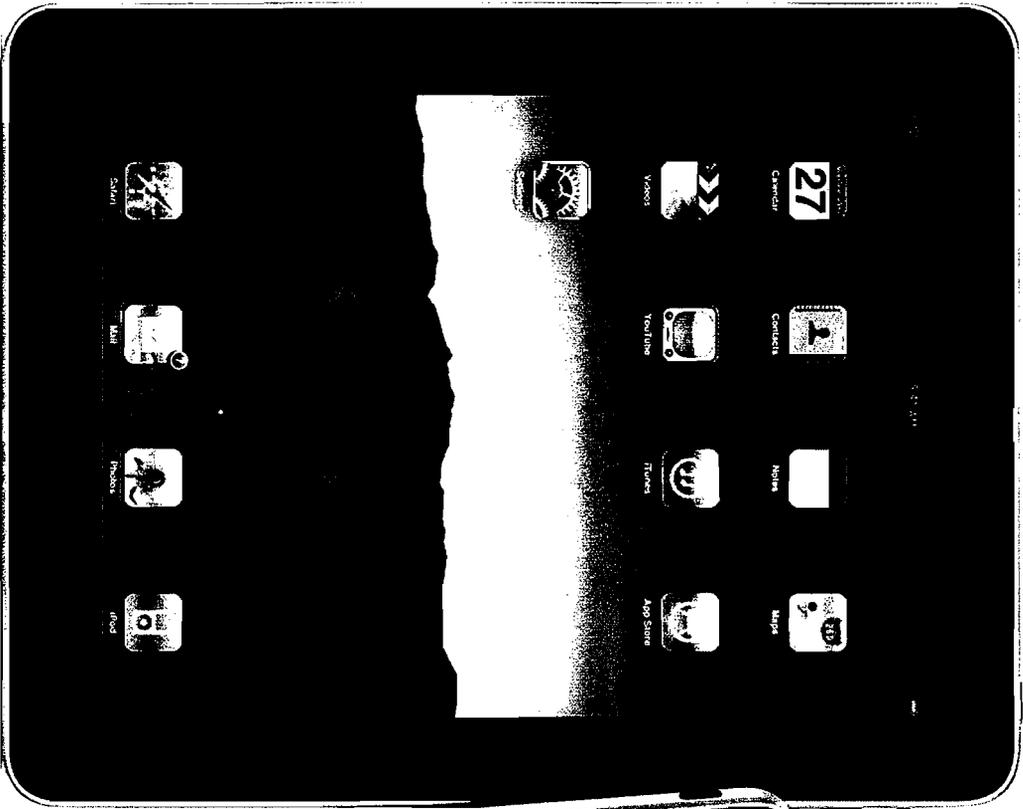
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What we can do:

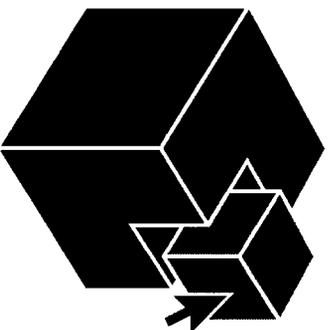
Vendor neutral consultant

Analyze current process and propose replacements
and/or transformations

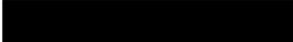
Coordinate the implementation of new processes
and provide training as needed







EMERGING TECHNOLOGIES
MEDIA DEVELOPMENT & TRAINING



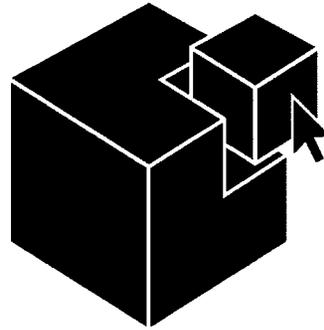
**Solve problems
with technology**



**Solve problems
for people**

Story
Team

Design
Team



Development
Team

Training
Team

EMERGING TECHNOLOGIES
MEDIA DEVELOPMENT & TRAINING



Replacement *vs.* Transformation



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The New York Times

Not just a new look. A new outlook.

Wednesday, August 31, 2011 Last Update: 7:25 PM ET

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After Obama Plans Speech, Boehner Asks to Reschedule

By HELENE COOPER
51 minutes ago

President Obama requested a joint session of Congress to talk about the economy on the same night as a G.O.P. candidates' debate, and Speaker John A. Boehner asked him to reschedule.

Post a Comment
Video From The Caucus

U.S. Moves to Block Merger Between AT&T and T-Mobile

By EDWARD WYATT 4:08 PM ET
The Justice Department filed



Michael Appleton for The New York Times

Irene May Cost New York \$1 Billion

By RIKK SIMPLE and NOAH ROSENBERG 6:17 PM ET
Gov. Andrew M. Cuomo, above in Prattsville, N.Y., said that he expected damage to reach "close to \$1 billion."

Post a Comment | Obama to Visit Paterson on Sunday 5:40 PM ET
Risks Seen in Vermont Sewer and Water Plants 6:47 PM ET

OPINION • The Stone: Happiness, Philosophy and Science

Before we can establish a science of happiness, we must agree on what happiness means.



- Dowd: What Price Life?
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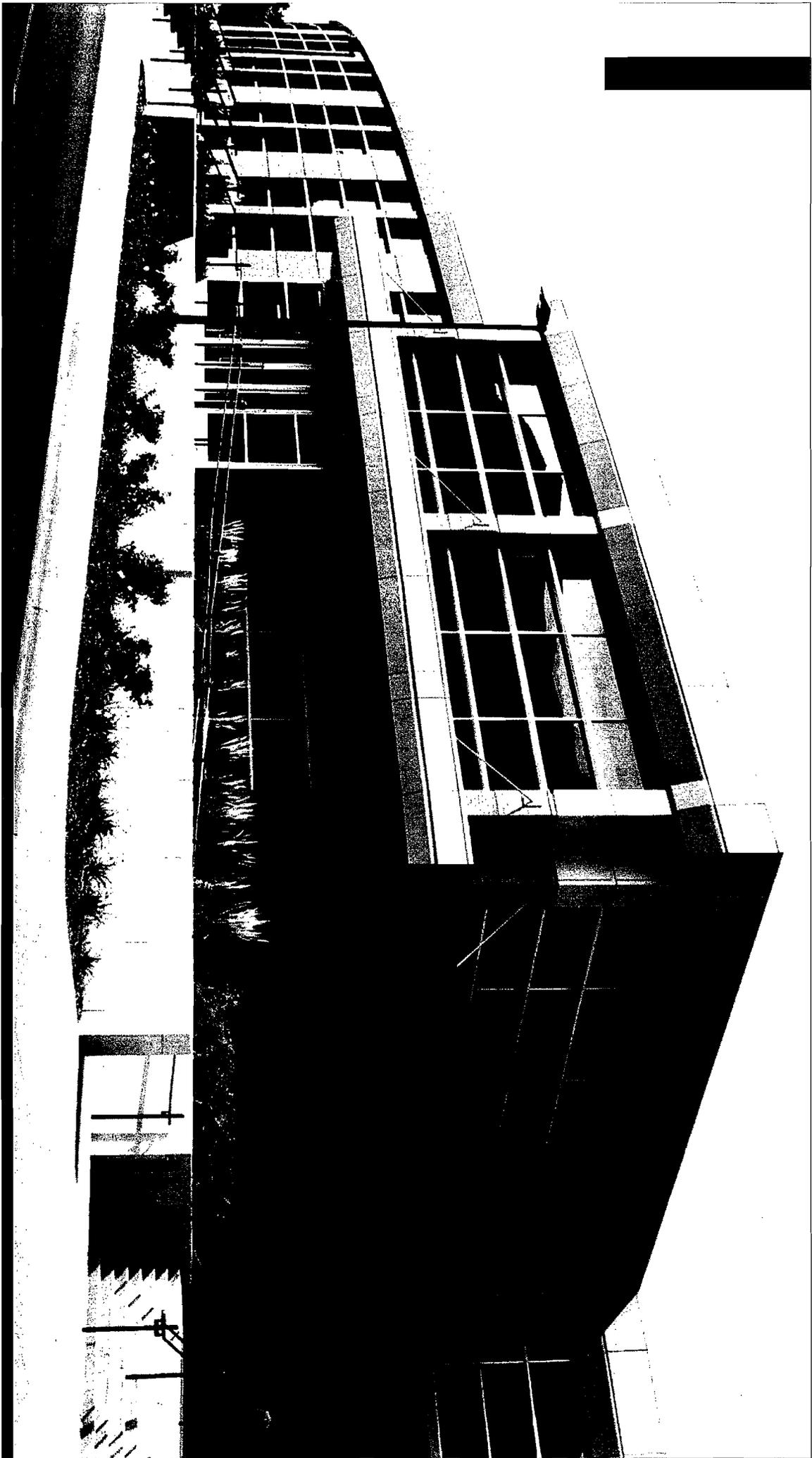
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Arena Concourse



Lewellen Pool



SRWC Fitness Center



Neely Lounge



Gym 2



5 Court Gym



Climbing Wall



Field Sports



SRWC Indoor Turf Bldg



What we can do:

Analyze current process

Outline a product-neutral or specific solution that **replaces** current process

Provide suggestions to **transform** and improve processes

Engage Digital Corps students and Emerging Technologies staff to **train** members of the legislature

Develop software* or coordinate the development of the process

**separate agreement*



Emerging Tech

@ Ball State University

LCDF 9/1/2011
EXHIBIT 2

IN.SOV

presentation
LSA iPad Proposal

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Legislators
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iPad 4:20 AM 32%

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House, Terri Austin, H036

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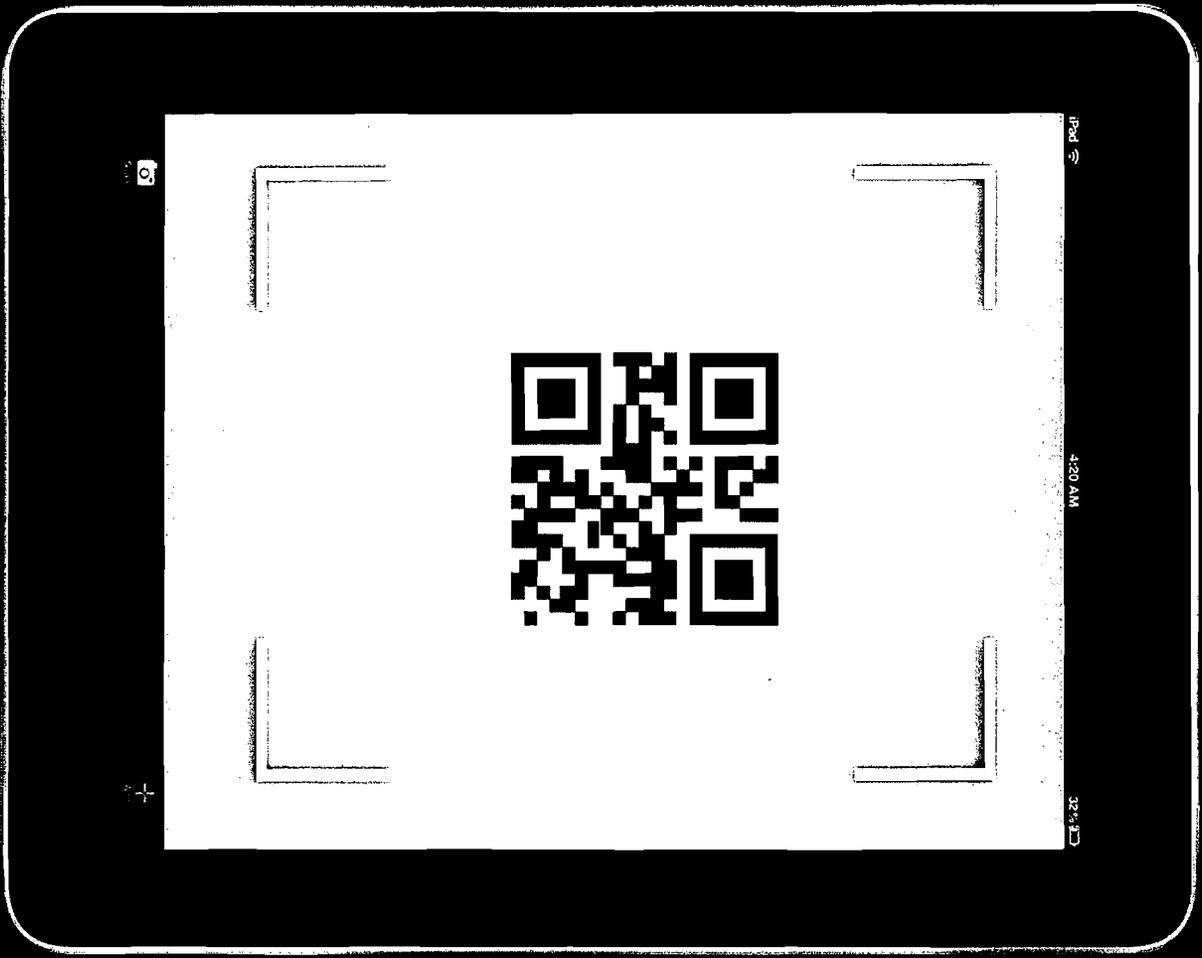
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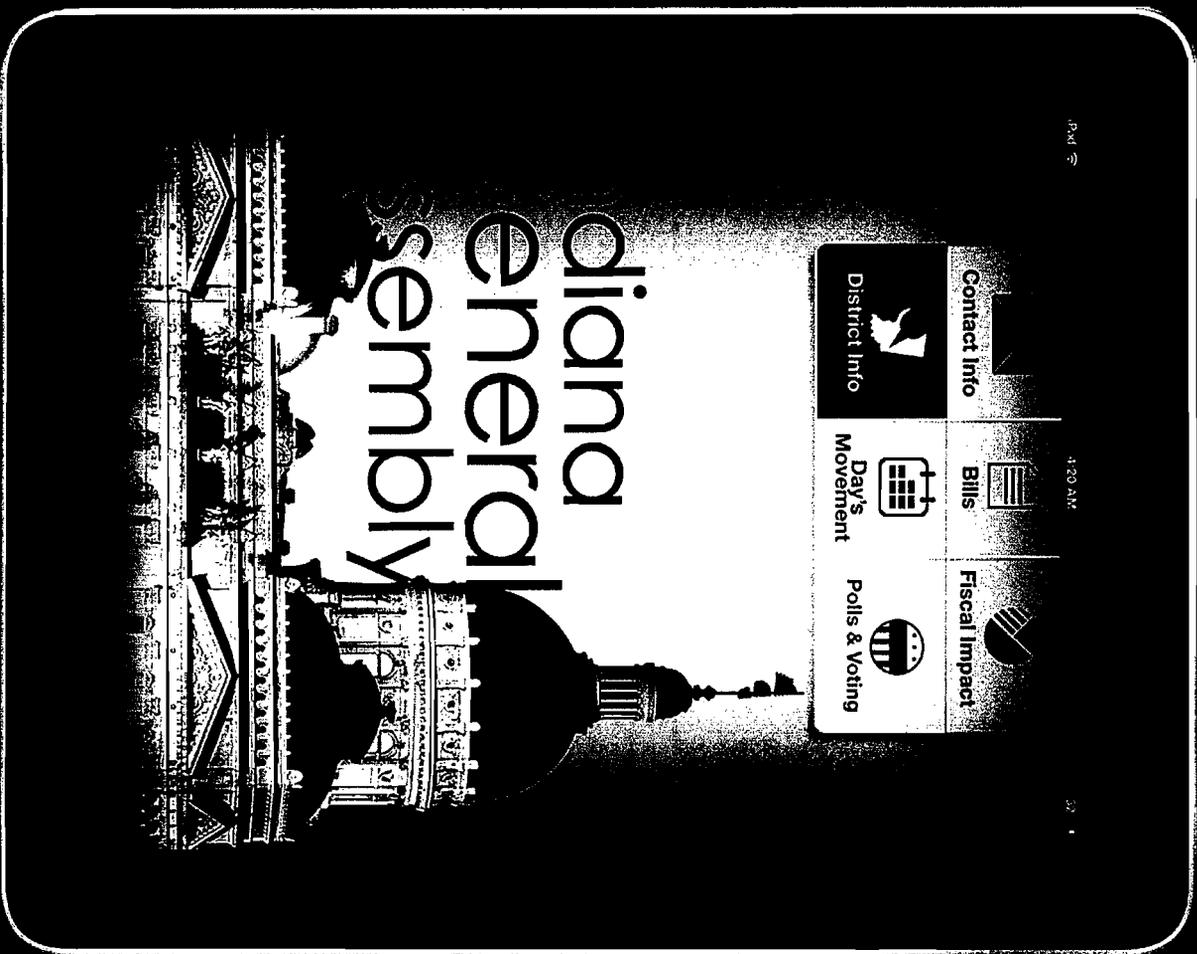
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Senate

Indiana State Senate

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Districts



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Day's Movement



Fiscal Impact



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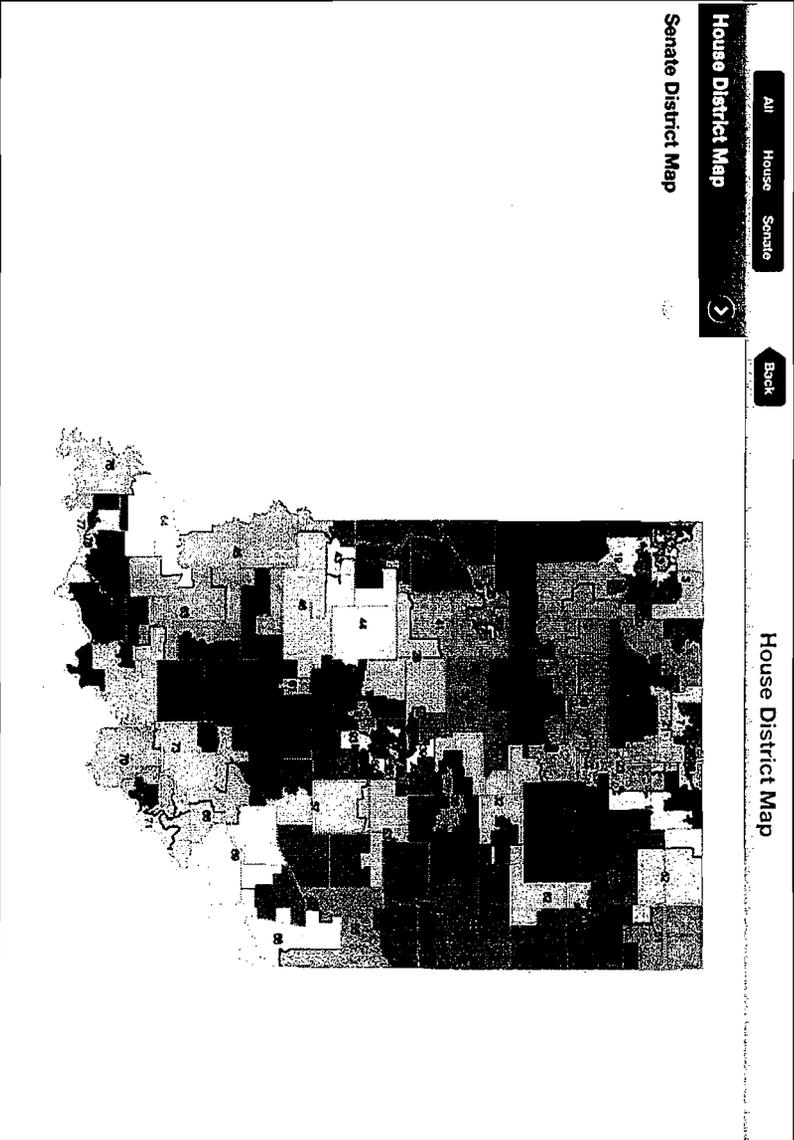
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House District Map

Senate District Map



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Press & Video

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All House Senate Back Rep. Brandt Hershman

Brandt Hershman
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Travis Holdman
District 19

Luke Kenley
District 20

Dennis Kruse
District 14

Sue Landske
District 6

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District 42

David Long
District 16

Jim Merritt, Jr.

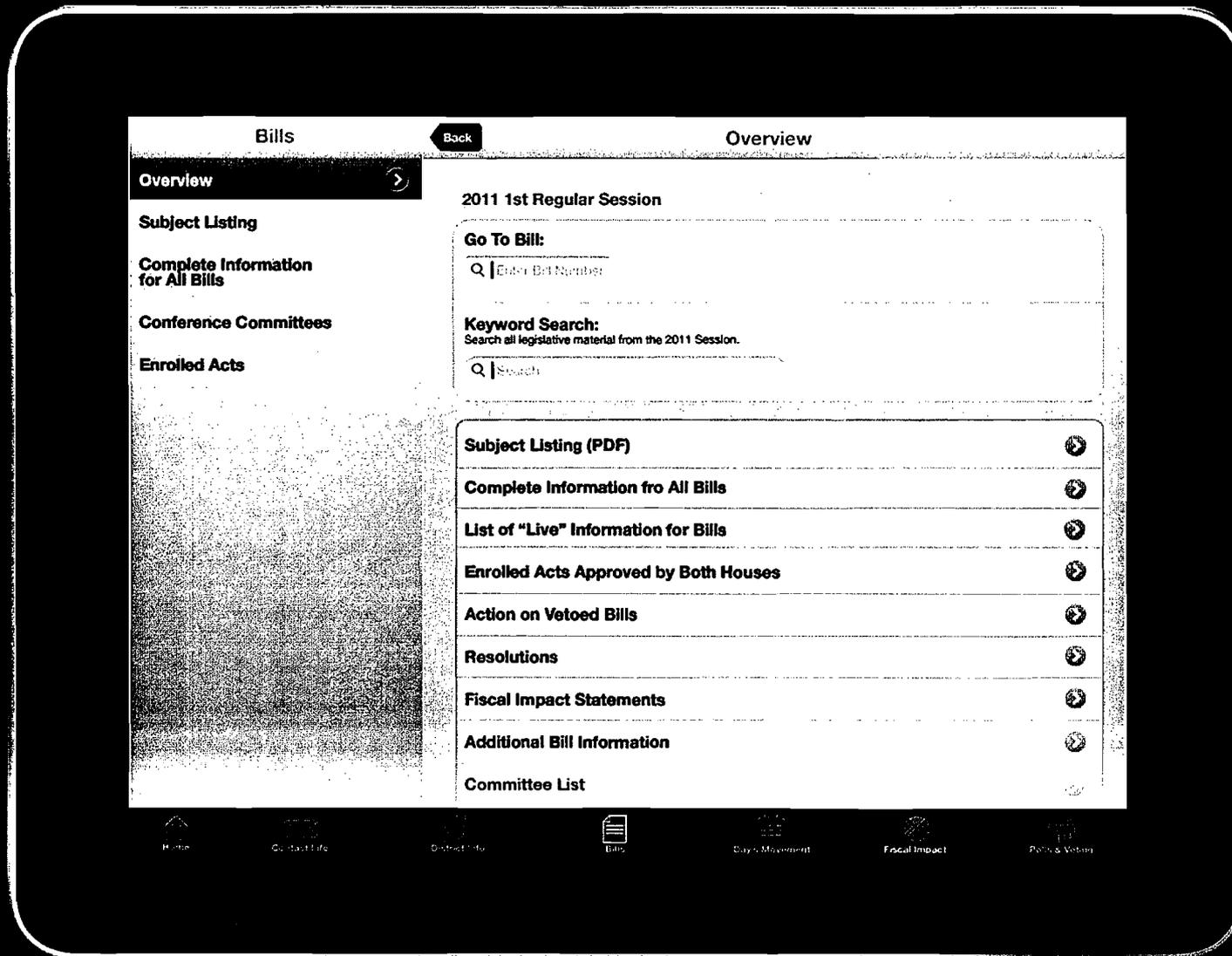


Senator
BRANDT HERSHMAN
Majority Whip
Indiana State Senator, District 7

Legislator Information

<p>Elected Indiana State Senate, 2000 - present Majority Whip</p> <p>Leadership Indiana Senate Majority Whip Tax & Fiscal Policy, Chair</p> <p>Political Affiliation Republican</p> <p>Standing Committees Appropriations Elections State Budget Committee Tax & Fiscal Policy, Chair</p> <p>Education Purdue University, Political Science</p> <p>Senate District 7</p> <p>Counties Served White County & portions of Boone, Carroll, Clinton, Jasper & Tippecanoe counties</p>	<p>Civic and Community Activities</p> <p>2010 Senator David Ford Legislature Award AIA Award</p> <p>2006 Indiana Telecommunications Association Legislative Champion Award</p> <p>2006 Indiana Rural Water Alliance John Reeves Award</p> <p>2006 Council of State Governments Henry Toll Fellow Champion Award</p> <p>2004 Indiana Soybean Growers Association President's Award</p> <p>2004, 2008 Indiana GOP Platform Committee</p> <p>Heartland Institute Board of Advisors</p> <p>American Legislative Exchange Council (Telecom Task Force)</p> <p>Council of State Government (Agriculture Committee)</p> <p>National Conference of State Legislatures - State-Federal Coordinator</p> <p>(Standing Committee on Labor and Workforce Development)</p> <p>(Committee on Redistricting and Elections)</p> <p>Civic Activities</p> <p>Indiana Rural Development Council, Governing Board</p> <p>Pi Kappa Phi Board of Directors, Vice President</p>
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2011 1st Regular Session

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Senate

House

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SB 0001 (3) (PDF)	SB 0004 (5) (PDF)	SB 0007 (2) (PDF)
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SB 0002 (1) (PDF)	SB 0006 (2) (PDF)	SB 0009 (4) (PDF)
SB 0002 (2) (PDF)	SB 0006 (3) (PDF)	SB 0009 (5) (PDF)
SB 0002 (3) (PDF)	SB 0006 (4) (PDF)	SB 0010 (1) (PDF)
SB 0002 (4) (PDF)	SB 0006 (5) (PDF)	SB 0010 (2) (PDF)



Poll Questions

Are you a proponent of the I-69 project? >

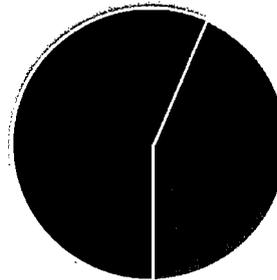
Does the Indiana law banning texting while driving go far enough?

What regulations should be put in place for staging outdoor concerts?

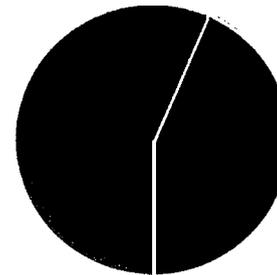
Will the replacement of precincts with vote centers make you more likely to vote in the November city election?

Polls & Voting

Are you a proponent of the I-69 project?



Yes
57%



No
43%