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# **Higher Education Appropriations Subcommittee Meeting Packet**

**November 2, 2011  
8:30 a.m. – 11:00 a.m.  
Reed Hall**



**The Florida House of Representatives**  
APPROPRIATION COMMITTEE

Higher Education Appropriations Subcommittee

**Dean Cannon**  
Speaker

**Marlene O'Toole**  
Chair

**MEETING AGENDA**

Reed Hall

November 2, 2011

- I.** Meeting Called To Order
- II.** Opening Remarks by Chair
- III.** FSU Mag Lab Funding Request Presentation
- IV.** Vocational Rehabilitation Overview (including injured Worker Program Update)
- V.** Blind Services Overview
- VI.** Closing Remarks
- VII.** Meeting Adjourned





# **National High Magnetic Field Laboratory (Mag Lab)**

- **Overview**
- **Scientific and Technological Productivity**
- **Research Applications**
- **Educational Outreach**
- **Growth in NSF “Core Funding”**
- **Economic Impact Report**
- **Broader Impact**
- **Request for \$3.3 M**

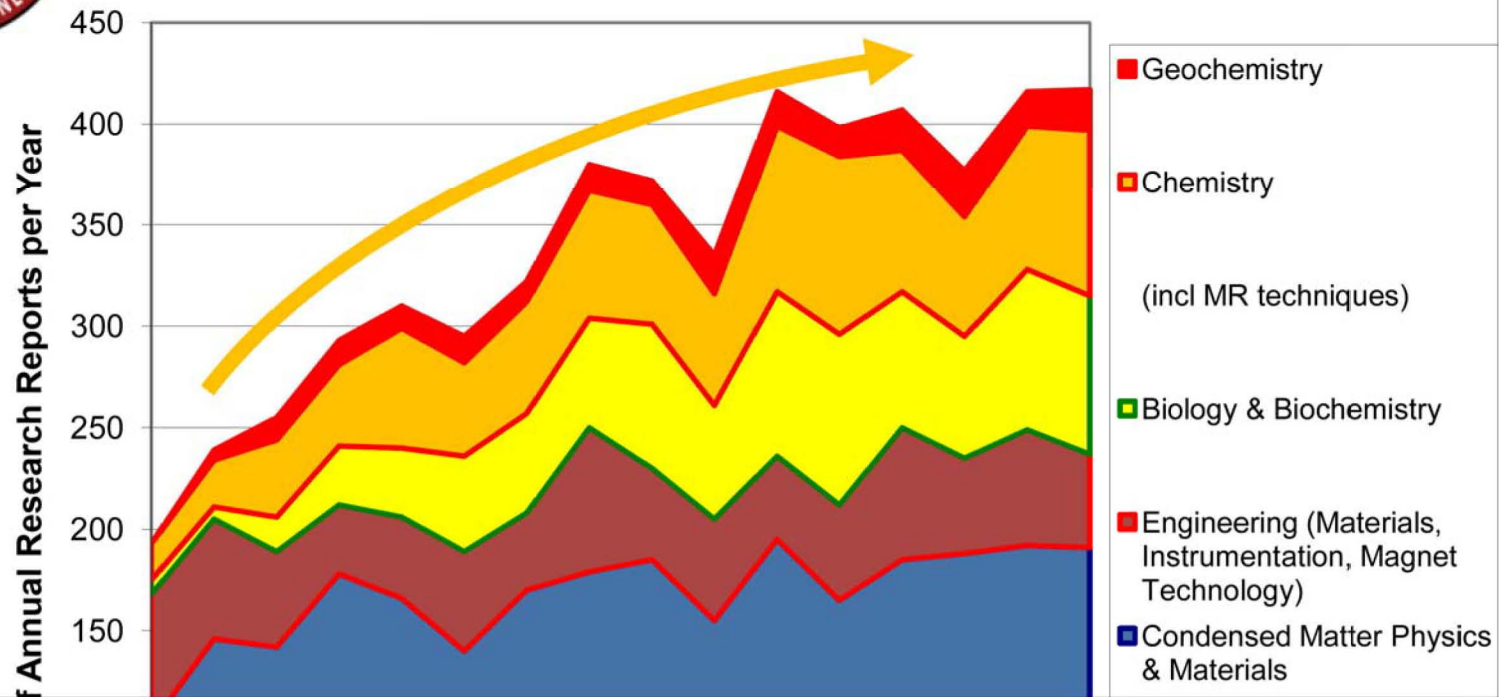


# “The Mag Lab”

- **The ONLY National Lab in Florida**
- **Transferred from MIT because of a unique federal and State of Florida partnership**
- **Three locations:**
  - **Florida State University (Headquarters)**
  - **University of Florida**
  - **Los Alamos National Lab**



## Research at the MagLab is Growing *Research Activity by Visiting Scientists up 100%*

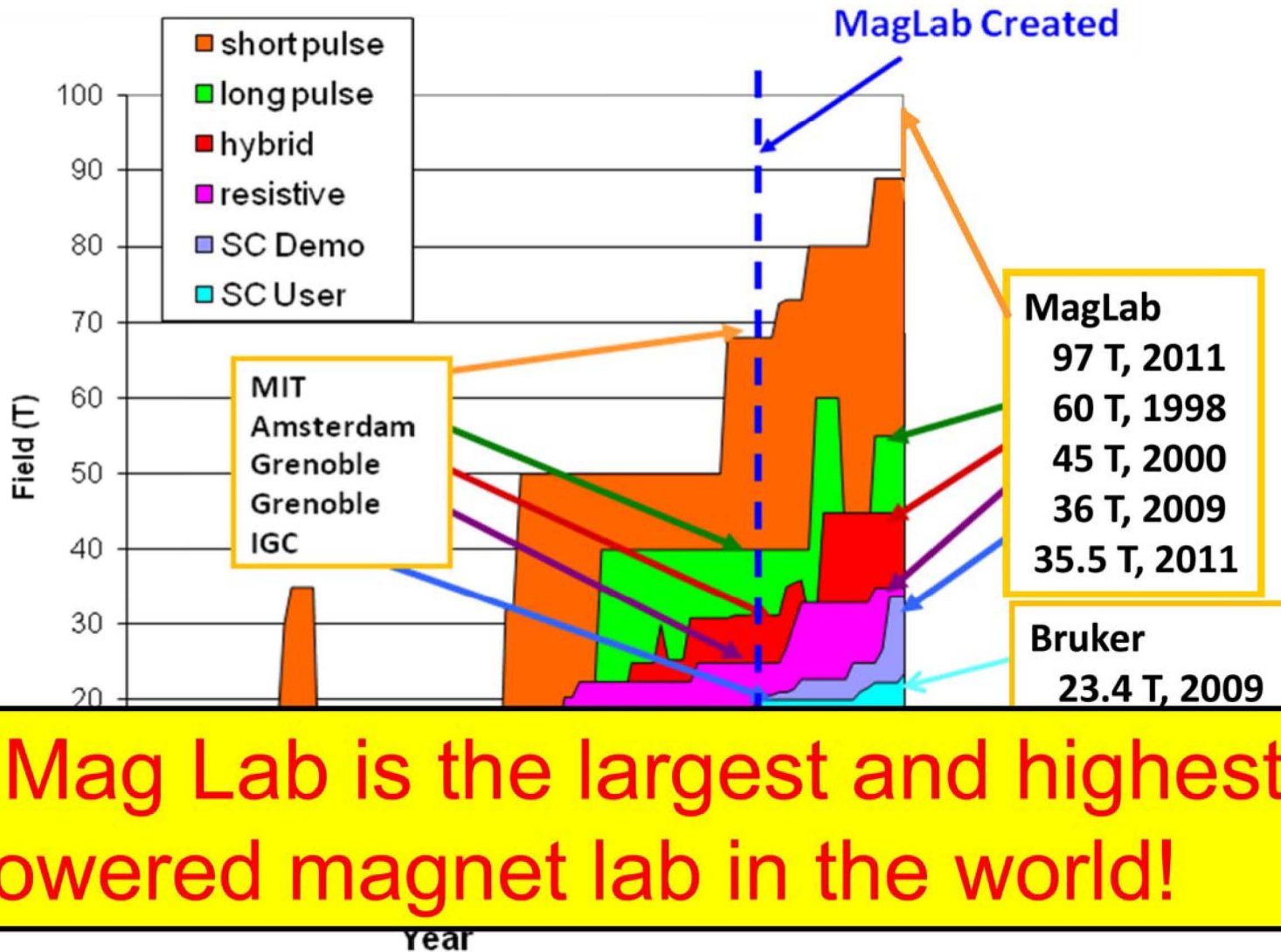


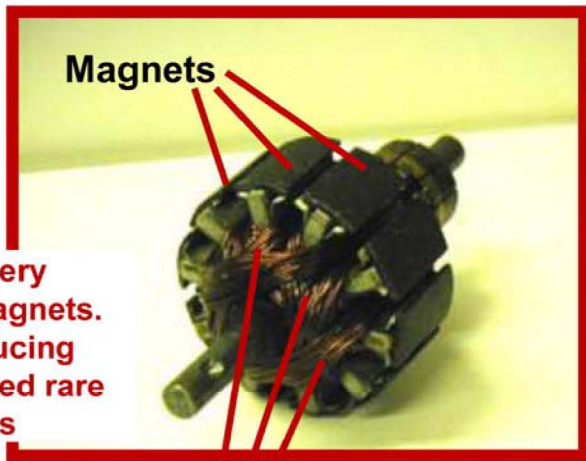
Research of important societal needs:  
Energy, environment, public health

1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010



## The MagLab Leads the World in Virtually Every Category of High-Field Magnets





Every motor, every generator needs magnets. China is now reducing exports of the needed rare earth elements

Coils of wire carrying electricity...

## Magnets for Energy



10% of all power generated is wasted by heating the "world's largest toaster". Superconducting materials co-developed at the MagLab could reduce this greatly

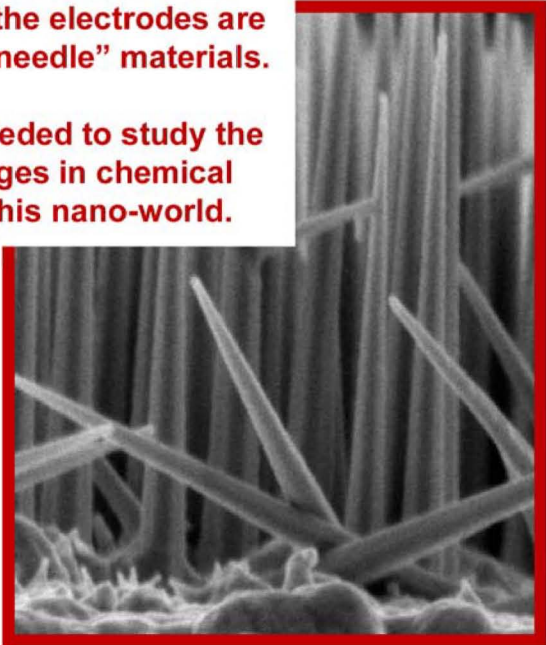


Magnets enable the first-ever analysis of ALL the components of petroleum,

- critical for analyzing long-term results of Deepwater Horizon spill (top)
- critical for converting plentiful low-grade petroleum (left) into high-grade fuel

Batteries and fuel cells store more energy if the electrodes are made of "nano-needle" materials.

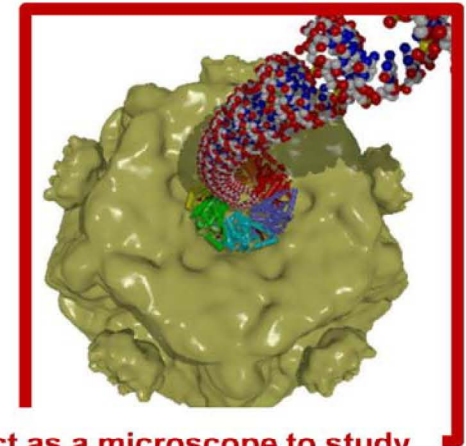
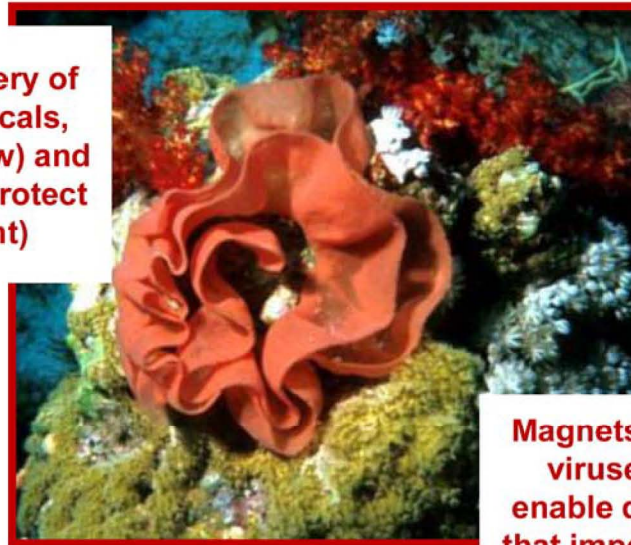
Magnets are needed to study the strange changes in chemical reactions in this nano-world.





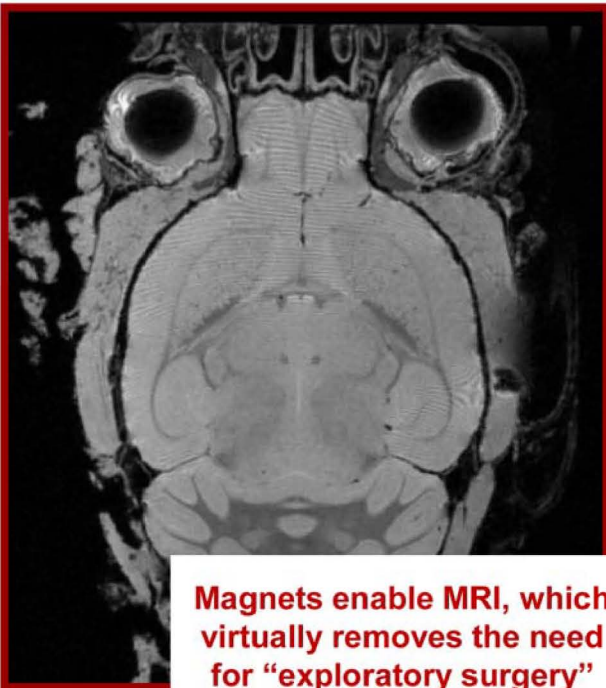


Magnets enable the discovery of potential new pharmaceuticals, such as insect venom (below) and anti-fungal chemicals that protect shell-less mollusks (right)

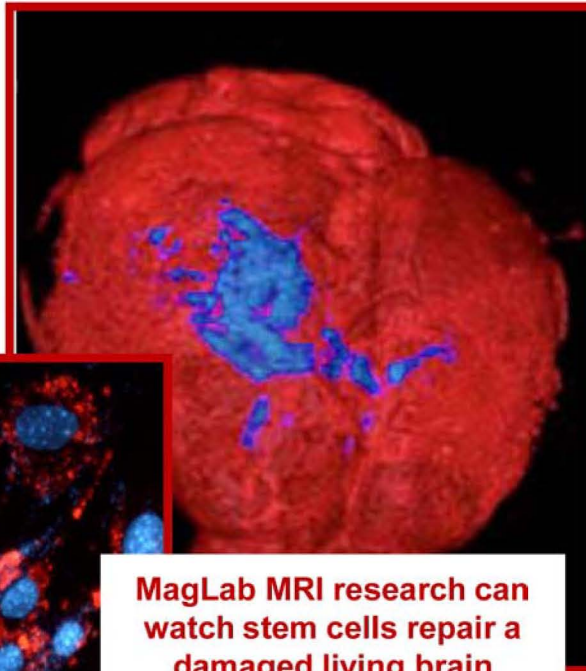


Magnets act as a microscope to study viruses, including HIV (above), to enable development of antiviral drugs that impede the ability of the virus DNA launch an attack on the body's cells.

## Magnets for Medicine

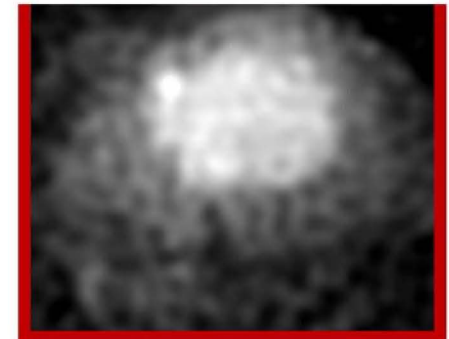


Magnets enable MRI, which virtually removes the need for "exploratory surgery"



MagLab MRI research can watch stem cells repair a damaged living brain

MagLab MRI research can see sodium, and thus determine immediately after chemotherapy which tumor cells will soon die





## Research Experiences for Undergraduates 2007-2011

- Applications from across the U.S. with an objective of encouraging STEM undergraduates to pursue graduate school in STEM fields
- 34 Florida undergraduates  
UCF, FSU, FAMU, UF, Bethune, Cookman, Florida Gulf Coast University, Tallahassee Community College
- Provides opportunities for publishing research as undergraduates
- Provides internships that go beyond the summer REU experience
- Provides opportunities across institutions to share research



## Research Experiences for Teachers 2007-2011

- Applications from across the U.S. with an objective of mentoring and making significant positive changes in teachers' views of science, understanding of scientific concepts, and self-efficacy in terms of science teaching
- 50 middle and high school teachers
  - \*125 students over 20 years \*Students influenced: **125,000**
- 25 elementary school teachers
  - \*25 students over 20 years \*Students influenced: **12,500**
- At least half from Title I and underserved schools
- Improvements in teachers' communication skills relative to science concepts
- Teachers increased leadership roles in schools or districts



## K12 Outreach and Community Outreach

- Objective of making significant positive changes in K12 and public's views of science and their understanding of scientific concepts
- Classroom and school outreach to ~10,000 K12 students, 13 counties Florida
- High School Internships
- School Science Nights
- Professional Development through teacher workshops at Title I schools and rural counties
  - Panhandle Area Education Consortium
- Community outreach monthly at Barnes & Noble, quarterly at Chick-Fil-A Family Night, WFSU, Senior Center Days, Grandparents as Parents
- Science Cafes (speakers from across the state)
- SciGirls Camps (Tallahassee, Orlando, Miami)





## **Growth in NSF “Core Funding”**

- **\$54 million for 1990-1994**  
**increasing to..**
- **\$128 million for 2003-2007**
- **\$162 million for 2008-2012**
- **\$200 million for 2013-2017 (proposed)**



# Mag Lab/Industrial Collaborations- Two Examples

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## STEM Focus

FOCUS

## Bing Energy

- Came to Tallahassee to work in partnership with FSU professors who pioneered a fuel cell composed on carbon nanotubes. **Collaborating with Magnet Lab on next generation fuel cell technology**
  - Company transfer tied to \$1.9M award received from Governor's Center of Excellence Program
    - \* Expected to Create ~244 New Jobs
    - \* Average wage of \$41,655
- 

## Danfoss Turbocor

- Came to Tallahassee to produce advanced centrifugal compressors for efficiency chiller systems, and supplies the global market
- Patented compressors contain a unique **magnetic bearing system** combined with high performance **permanent magnet motors** that provide energy savings of up to 40% in cooling large buildings compared to conventional chiller compressors
- Business has been growing an average of 20% per year (2007-2010), even during the economic slowdown and creating jobs in R&D and manufacturing
- Critical issues surround rare earth elements and how they are undermining American competitiveness in Turbocor's area of business. **During September 2011 testimony to U.S. House of Representatives, Turbocor cited Magnet Lab collaboration involving research of alternate materials as an important solution to China's monopoly on Rare Earths and the implications for U.S. Foreign and Security Policy**





## STEM Focus

FOCUS



## Results

RESULTS

# Spinoffs from Mag Lab in Tallahassee:

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- The Tai-Yang Research Company
  - develops military, space and commercial applications of high temperature superconductor materials.
- High Performance Magnetics
  - Designs, fabricates and tests advanced cable-in-conduit magnet components
- FSU Magnet Research and Development (Non-profit)
  - Designs, fabricates and tests advanced magnets for U.S and international research facilities
  - Currently manufacturing a \$10 million magnet for research organization in Germany
  - Extensive number of subcontractors throughout Florida

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## Impact of Mag Lab/Industrial collaborations in Florida

- Meet Workforce Demands
- More Competitive **High Tech and High Wage** Workforce
- Attract Businesses to Florida
- Stimulate the Economy
- Better Social Benefits



## Request for \$3.3 Million

<b>(3) Faculty – Scholar Scientists (NMR, Optics, Magnet)</b>	<b>\$ 375 k</b>
<b>(3) A&amp;P staff (Budget, HR, C&amp;G)</b>	<b>\$ 250 k</b>
<b>(6) Fringes</b>	<b>\$ 175 k</b>
<b>Expenses – Operating Budget for Scholar Scientists</b>	<b>\$ 500 k</b>

**OCO – Recurring (Year 1 details follow):** **\$ 2,000 k**

- cryogenics and helium recovery
- replacement of obsolete P/S instrumentation
- replacement of obsolete NMR consoles
- upgrades to 28MW magnets
- replacement of inner S/C coils for 45T Hybrid
- H/F insert for new Series Connected Hybrid

**Total** **\$ 3,300 k**

**Needed to support new research ventures in areas that are critical  
to the Florida and National high technology economy  
ENERGY – NEW MATERIALS - ENVIRONMENT**



Vocational  
Rehabilitation  
Overview

# Division of Vocational Rehabilitation

Program Overview  
Aleisa McKinlay, Director

House Higher Education Appropriations Subcommittee  
November 2, 2011

# Mission

**To provide services to eligible individuals with physical and/or mental impairments that will enable an individual to achieve an employment goal and enhance their independence.**

# Direct Service Programs

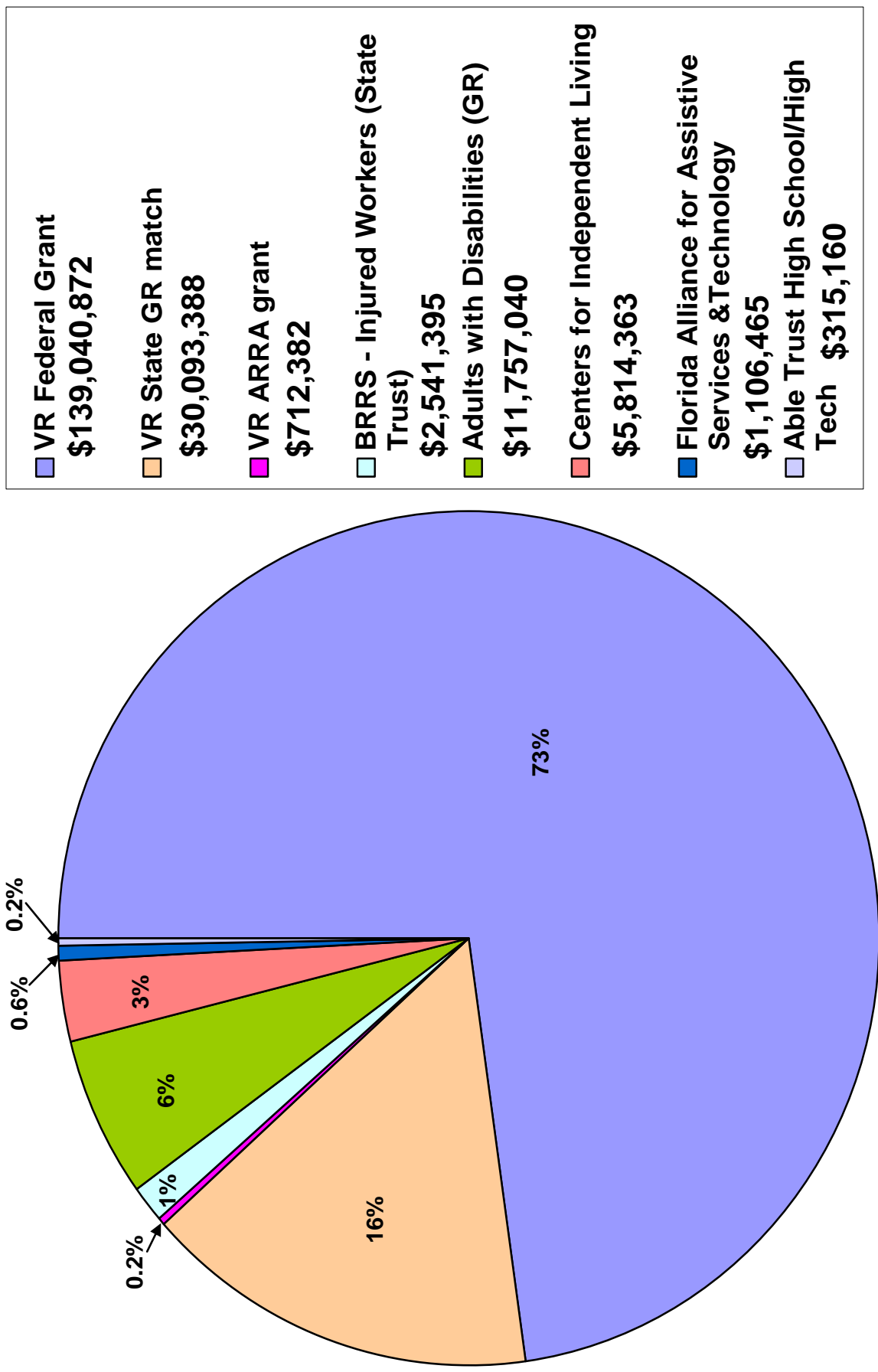
- Vocational Rehabilitation (VR)
  - Federal Rehabilitation Act of 1973, as amended
  - Chapter 413, Florida Statutes
  - State/Federal partnership
  - 21.3% GR matches 78.7% federal grant
- Bureau of Rehabilitation & Reemployment Services (BRRS) – Florida’s Injured Worker Program
  - Helps workers injured on the job return to employment
  - Funded through Worker’s Compensation Administration Trust Fund

# Pass-Through Programs

- **Adults with Disabilities (AWD)**
  - 40 School Districts and 10 Florida Colleges
  - 14,491 students were enrolled in FY 2010-11
- **Independent Living**
  - 16 Centers for Independent Living (CILs) and Florida Independent Living Council (FILC)
  - FY 09-10 IL services to 23,894 individuals with disabilities
  - FY 09-10 Information and referral to 36,666
- **Florida Alliance for Assistive Services and Technology (FAAST)**
  - Provided specific training to 48,704 individuals, where 12,203 received access to and acquisition of Assistive Technology services and 2,327 were loaned assistive devices.
- **Able Trust - High School/High Tech**
  - Program served 1,711 students in 35 counties and 305 schools and alternative education settings, where 74% of HS/HT graduates entered postsecondary education or employment

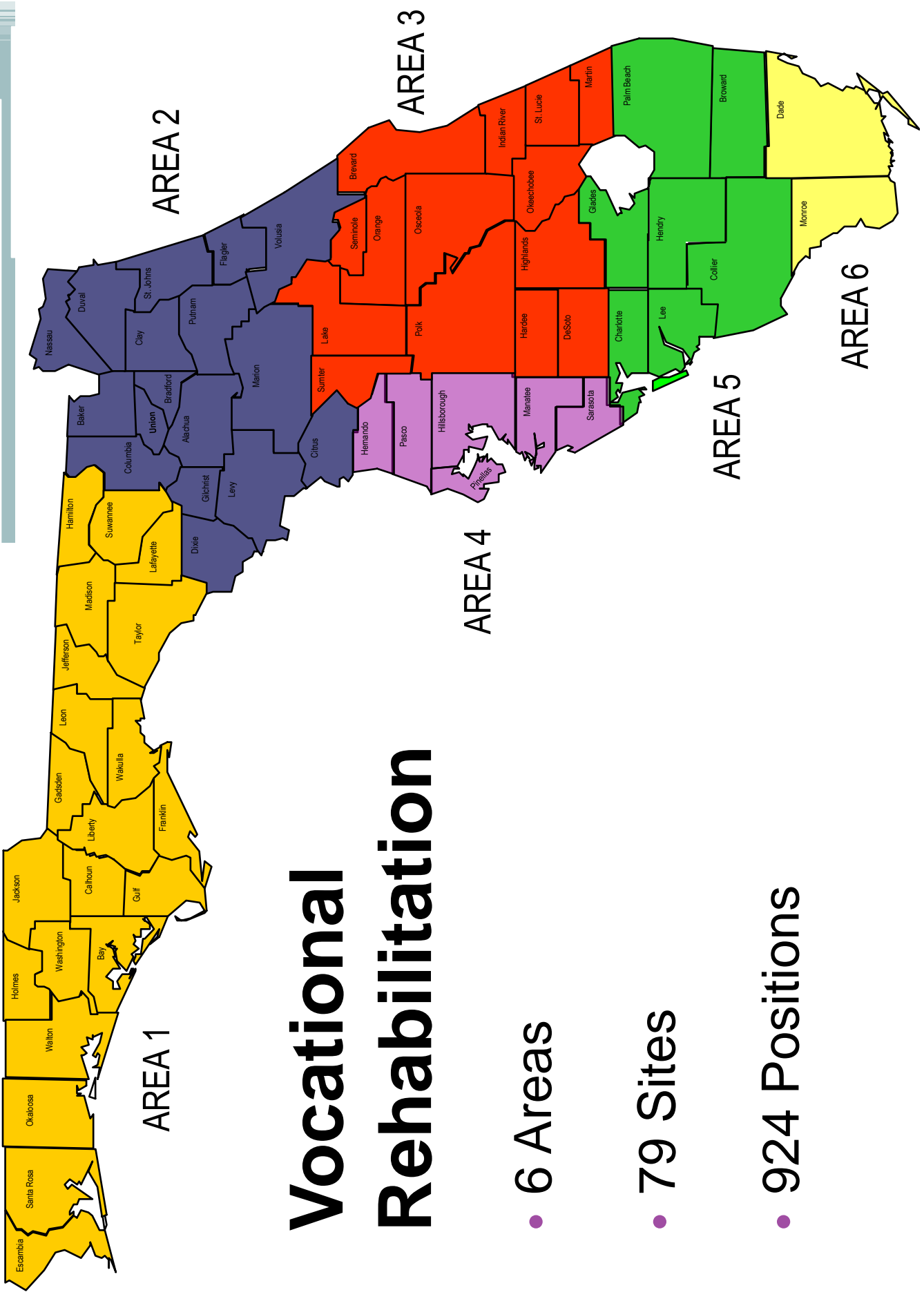
# DVR Funding By Program (FY 2011-2012)

Note: Pie Chart Indicates Percentage of Total





# **General Vocational Rehabilitation Program**



# Vocational Rehabilitation

- 6 Areas
- 79 Sites
- 924 Positions



# Order Of Selection

- Required when the state vocational rehabilitation agency is unable to provide rehabilitation services to **all eligible** individuals in the State who apply for services
- Establishes the order to be followed in selecting eligible individuals to be provided vocational rehabilitation services (Legal basis: 34 CFR, Part 361.36)
- Invoked in August 2008

<b>Category 1 (Most Significant Disabilities)</b>	Three or more severe functional limitations and requiring three or more primary services for at least 12 months
<b>Category 2 (Significant Disabilities)</b>	One or two functional limitations and requiring two or more services for at least 6 months – OR receiving SSDI or SSI
<b>Category 3 (Not Significantly Disabled)</b>	No serious functional limitation or does not require multiple services, and services are expected to last less than 6 months

# VR Process



**Successful Closure**

**Employment**

**Services Provided**

**IPE Development - 120 Days**

**Eligibility Determination - 60 Days**

**Application**



**Referral or Walk In**

<b>Division of Vocational Rehabilitation:            Cost of Client Services &amp; Number of Clients Served            (Ranked 1 - 10 by Cost for State Fiscal Year 2010-2011)</b>			
Cost of Services	Percent of Cost of Services	# of Clients	Average Cost Per Client
<b>\$102,162,247</b>	<b>100%</b>	<b>48,097</b>	<b>\$2,124</b>
1. TUITION, TRAINING, TUTORS, BOOKS, ETC. \$17,580,843	17.2%	11,378	\$1,545
2. PHYSICAL RESTORATION \$16,555,369	16.2%	14,168	\$1,168
3. MENTAL RESTORATION \$12,330,207	12.1%	19,514	\$632
4. PLACEMENT - EMPLOYMENT SERVICES \$9,015,630	8.8%	3,015	\$2,990
5. WORK EVALUATION \$6,524,791	6.4%	7,414	\$880
6. SUPPORTED EMPLOYMENT \$5,380,472	5.3%	2,061	\$2,611
7. HOSPITALIZATION \$5,282,710	5.2%	2,632	\$2,007
8. HEARING AIDS \$4,504,243	4.4%	1,937	\$2,325
9. TRANSPORTATION \$3,956,360	3.9%	10,684	\$370
10. ON THE JOB TRAINING \$3,645,918	3.6%	1,011	\$3,606
10a. OJT Reimbursements to Employers			\$2,870,735
10b. OJT to Providers			\$775,183

**Division of Vocational Rehabilitation:  
Cost of Client Services & Number of Clients Served  
(Ranked 11 - 23 by Cost for State Fiscal Year 2010-2011)**

Cost of Services	Percent of Cost of Services	# of Clients	Average Cost Per Client
<b>\$102,162,247</b>	<b>100%</b>	<b>48,097</b>	<b>\$2,124</b>
<b>11. PROSTHETICS AND ORTHOTICS</b>			
\$3,580,437	3.5%	2,929	\$1,222
<b>12. REHABILITATION TECHNOLOGY</b>			
\$3,316,842	3.2%	499	\$6,647
<b>13. DENTAL RESTORATION</b>			
\$2,385,249	2.3%	1,332	\$1,791
<b>14. OTHER GOODS AND SERVICES</b>			
\$2,143,935	2.1%	8,745	\$245
<b>15. PRESCRIPTION DRUGS</b>			
\$1,853,276	1.8%	3,132	\$592
<b>16. MAINTENANCE</b>			
\$1,179,970	1.2%	1,172	\$1,007
<b>17. PERSONAL ASSISTANCE</b>			
\$716,694	0.7%	38	\$18,860
<b>18. SELF-EMPLOYMENT (CBTAC)</b>			
\$608,542	0.6%	236	\$2,579
<b>19. COMPUTER HARDWARE AND SOFTWARE</b>			
\$597,198	0.6%	415	\$1,439
<b>20. INTERPRETERS</b>			
\$488,649	0.5%	839	\$582
<b>21. CHILDCARE</b>			
\$202,286	0.2%	72	\$2,810
<b>22. OCCUPATIONAL LICENSES, TOOLS, STOCK, ETC.</b>			
\$90,190	0.1%	62	\$1,455
<b>23. TECHNICAL AIDS AND DEVICES</b>			
\$80,401	0.1%	131	\$614



## Employment Outcomes

- In FY 2010-11, FL VR helped 5,018 individuals achieve their employment goal. This is a 30% improvement from 3,874 in FY 2009-10.
- 4,883 (97%) of the successes were individuals with significant or most significant disabilities.

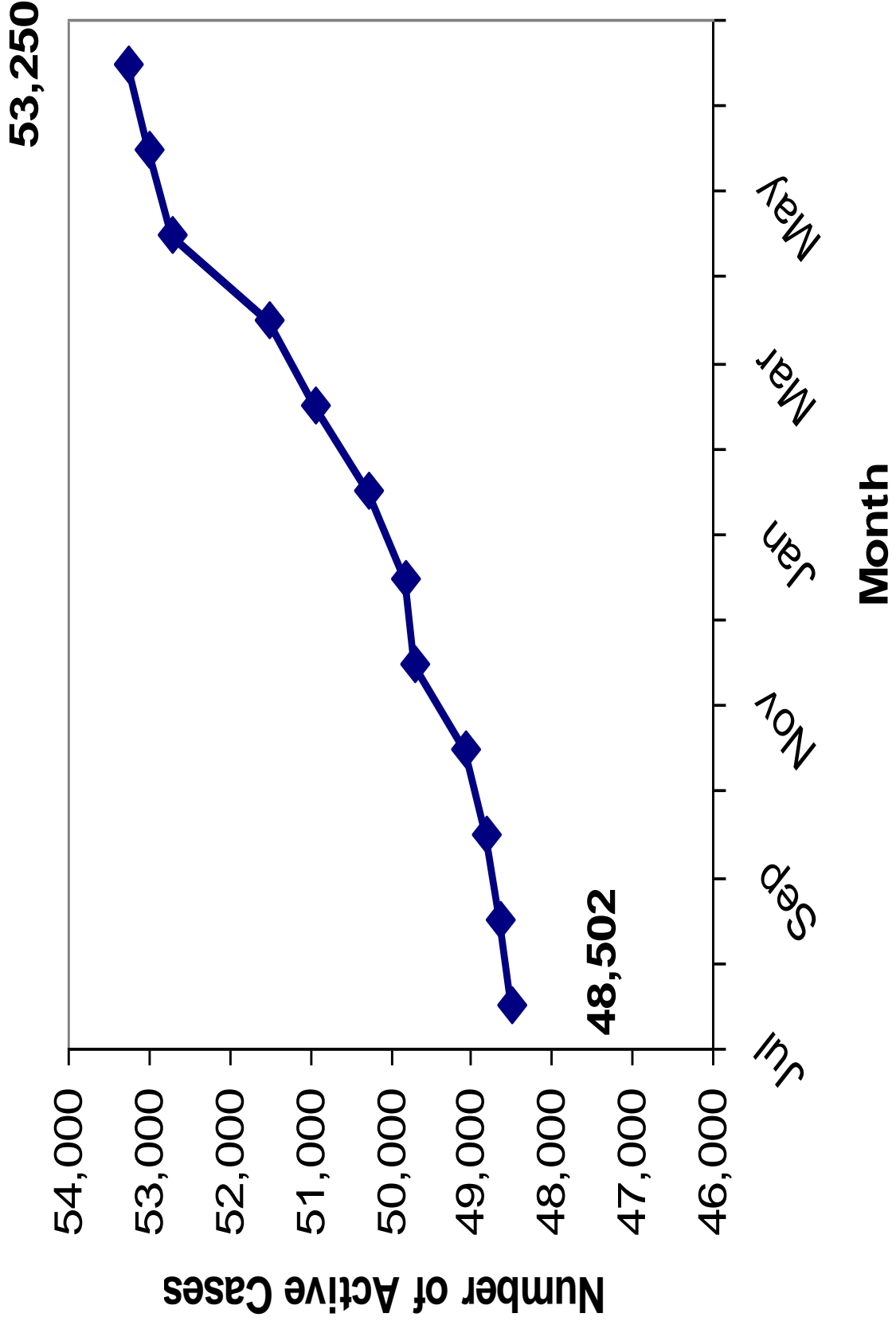
# Impact on Florida's Economy

## FY 2010-11

Program	Individuals Placed or Retained in Employment	Average Annual Salary	Projected Annual Earnings in One Year
Vocational Rehabilitation	5,018	\$17,597	\$88,301,746
Injured Worker	1,235	\$27,736	\$30,548,960

- Projected salaries earned by customers employed in their first year of employment
- Data compiled from RIMS, the data system used for both state and federal reporting and from ARAMIS, the data system for the Injured Worker program

# Number of Active Cases FY 2010-2011 (Through June 30, 2011)



# Workload Rising Under Order of Selection

(as of September 30, 2011):

- **Total Receiving Services:** 40,964
  - 15,535 are Transition Age (38%)
- **Ready To Be Processed:** 6,785
- **Applicant Status:** 6,370
- **Total Active Caseload:** 54,119

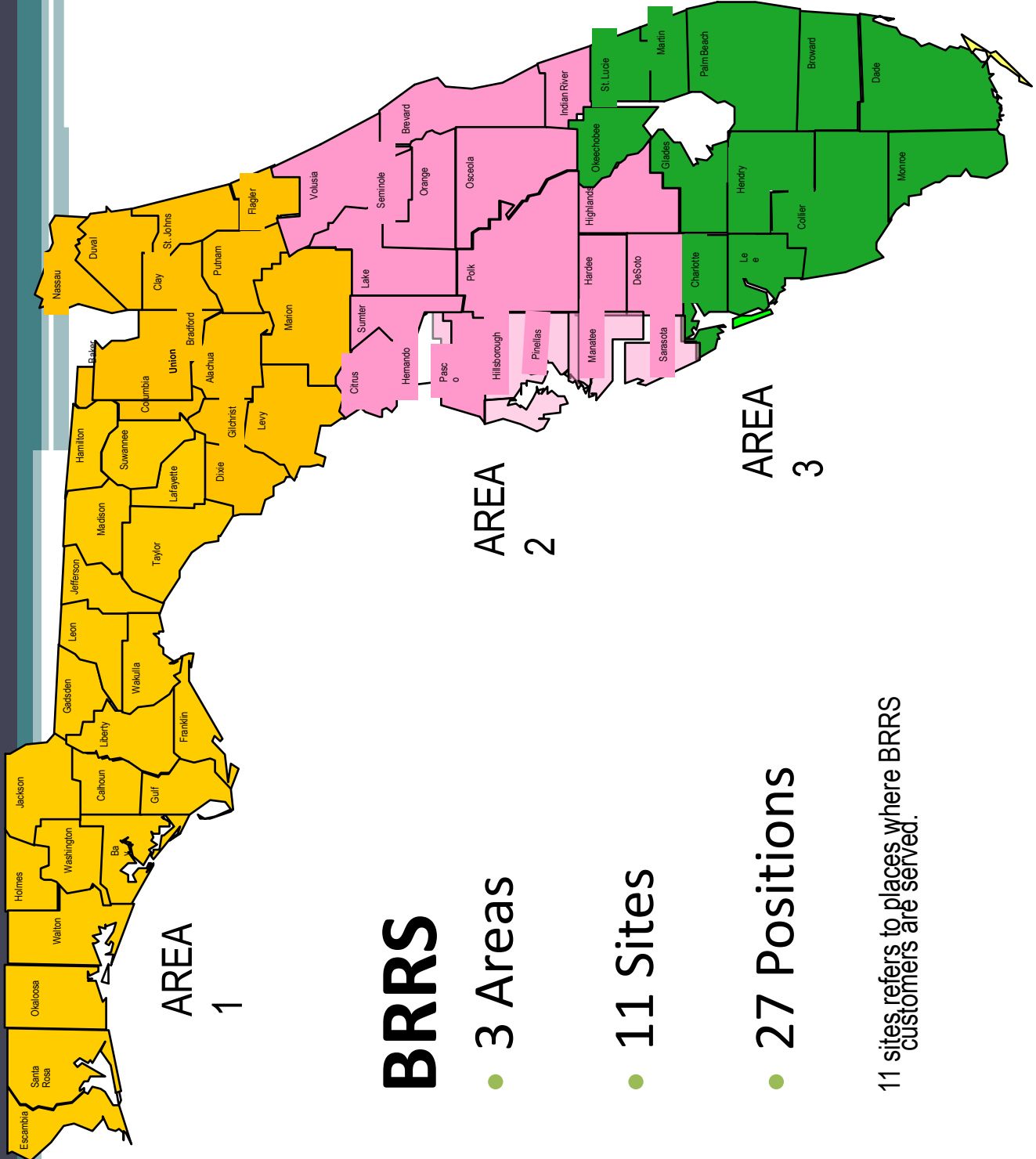
## Wait List

- **Category 1 and 2 = 0**
- **Category 3 = 2,695**





# **Bureau of Rehabilitation and Reemployment Services (BRRS) Florida's Injured Worker Program**



# BRRS

- 3 Areas
- 11 Sites
- 27 Positions

11 sites refers to places where BRRS customers are served.

# BRRS - Injured Worker Program

- Funded by Workers Compensation Administration Trust Fund
- Provides Florida's injured workers with reemployment services to return them to suitable gainful employment
- FTEs have been reduced from 82 to 27. The BRRS Purchased Client Services budget allocation is \$430,376. This is \$1,083,332 less than the FY 2010-11 allocation of \$1,513,708.
- As a result, BRRS and the VR Bureau of Field Services have initiated a triage / cross-referral process.
- Using that approach, DVR absorbed the cost for continuation of training and education sponsorship for 110 BRRS clients at a cost of \$300,806.



# BRRS Unresolved Issues

- Rule Revisions are in process.
- Statutory revision is potentially needed to reconcile the responsibilities of BRRS with available resources.
- Unanticipated expenses
  - Unemployment compensation
  - Leave payouts
  - Retirement benefits
  - Archiving and scanning of records

# Division Challenges and Issues

- **Unemployment Rates**

Persons With Disabilities		Persons With No Disabilities	
July 2010	July 2011	July 2010	July 2011
16.4%	16.8%	9.5%	9.0%

**The unemployment gap for persons with disabilities is getting wider.**

## **Division Challenges & Issues (continued)**

- **Managing and projecting financial and human resources**
- **Providing services to injured workers, given recent reductions**



## **Questions and Discussion**

**For further information, please  
contact Aleisa Mckinlay at  
Aleisa.Mckinlay@vr.fldoe.org  
Phone: (850) 245-3311**

**VR Website  
[www.Rehabworks.org](http://www.Rehabworks.org)**







**Joyce Hildreth, Director**  
**Ellen McCarron, Deputy Director**

- **Programs and Services FY 2010-2011**
  - Blind Babies Program
  - Children's Program
  - Vocational Rehabilitation for Visually Impaired
  - Bureau of Business Enterprise Program
  - Independent Living Program
  - Rehabilitation Center for the Blind and Visually Impaired
  - Braille and Talking Books Library Services

- **Programs and Services FY 2010-2011**
  - **Blind Babies Program**
    - Funding: State general revenue
    - 773 visually impaired babies served
    - Services are contracted within the community
    - Provides family involvement, communication, social skills, mobility, sensory development, play, literacy experiences, self-care and independence

- **Programs and Services FY 2010-2011**
  - **Children's Program**
    - Funding: State general revenue
    - 987 school-age children served
    - 65% increase over prior year successful transitions from preschool to school
    - Assists school-age children who have visual impairments to meet current and future challenges

- **Programs and Services FY 2010-2011**
  - **Vocational Rehabilitation for Visually-impaired**
    - Funding: 78.7% federal and 21.3% general revenue
    - 5408 clients received services
    - 720 visually impaired Floridians placed in jobs
    - 8.1% increase over prior year job placement
    - Provides education, training, equipment and skills needed for success, when a visual impairment is a barrier to employment
    - School to work transition

- **Programs and Services FY 2010-2011**
- **Bureau of Business Enterprise Program**
  - Funding: 78.7% federal and 21.3% non-federal funding from the earnings of the food service vendors
  - 145 blind vending and food service facilities supported
  - 323 jobs established, generating \$18.6 million in taxable revenue
  - An extensive training program prepares blind individuals to become self-employed

- **Programs and Services FY 2010-2011**
  - **Independent Living Program**
    - Funding: 90% federal and 10% general revenue
    - 4,336 adult clients served
    - Senior citizens are the largest age group of people with diminished vision
    - Training for daily living activities necessary for independence
    - Community rehabilitation contractors provide training on techniques and devices that regain and enhance independence





- **Programs and Services FY 2010-2011**
- **Braille and Talking Book Library Services**
  - A partnership between the State of Florida and Library of Congress
  - Funding: Materials and equipment are provided with federal funding and staffing and operation are state funded
  - 30,651 active readers
  - 2.2 million Braille, cassette and digital books loaned

# Appropriated Budget FY 2011-12

- Federal Trust Fund – \$36,814,743
- State Trust Funds -- \$1,675,778
- General Revenue – \$14,253,320

Total Budget – \$52,743,841

# Appropriated Budget FY 2011-12

(General Revenue – \$14,253,320)

- Match Requirement – \$7,940,933
- Remaining General Revenue used for:
  - Independent Living – \$2,568,203
  - Children's Program – \$586,583
  - Blind Babies Program – \$1,637,661
  - Braille and Talking Book Library – \$1,519,940

# State Match Requirement Breakdown

- Vocational Rehabilitation – \$7,695,25
- Independent Living – \$245,682
- In Service Training Grant – \$9,073

Total – \$7,940,933

# Appropriation Budget FY 2012-2013

## Additional Funds Request

Blind Babies Workload increase – \$540,891

- Documented additional need for services of 201 babies

Tenant Broker increase – \$7,008

- Statutory Requirement for property leasing

# 2012-13 Budget Request for the Division of Blind Services

	2011-12 Legislative Appropriation	2012-13 SBE Request	Increase/ (Decrease)	% Increase/ (Decrease)
Client Services	\$ 25,281,253	\$ 25,822,144	\$ 540,891	2.14%
Community Rehabilitation Facilities	\$ 5,369,554	\$ 5,369,554	\$ 0	0.00%
Remaining Programs	\$ 22,093,034	\$ 22,100,042	\$ 7,008	0.03%
<b>Total</b>	<b>\$ 52,743,841</b>	<b>\$ 53,291,740</b>	<b>\$ 547,899</b>	<b>1.04%</b>



