Cognitive Information Processing Theory: Applying Theory and Research to Practice

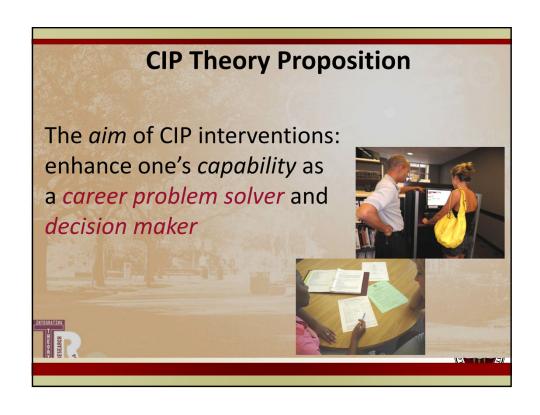
Debra Osborn, Ph.D. Florida State University July 2019

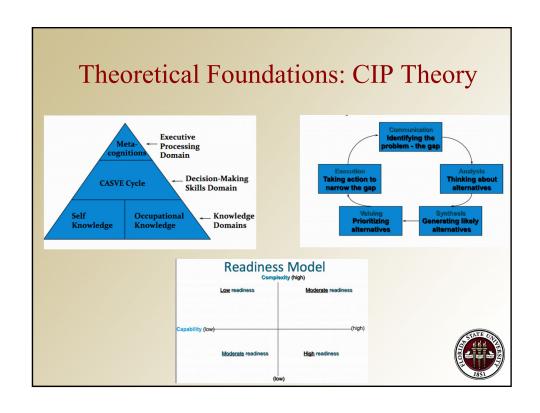


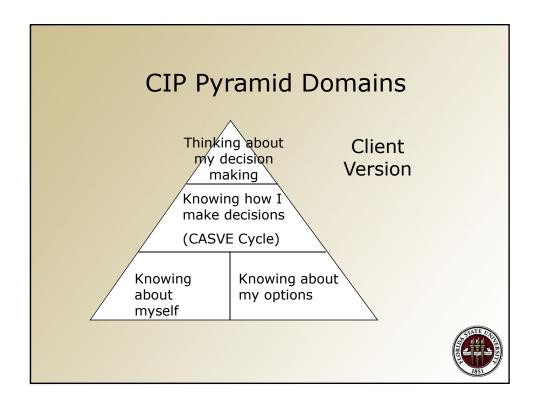
Today's Goals:

- Review key elements of CIP
- Present practical CIP tools and strategies
- Share research findings on CIP and its service delivery model





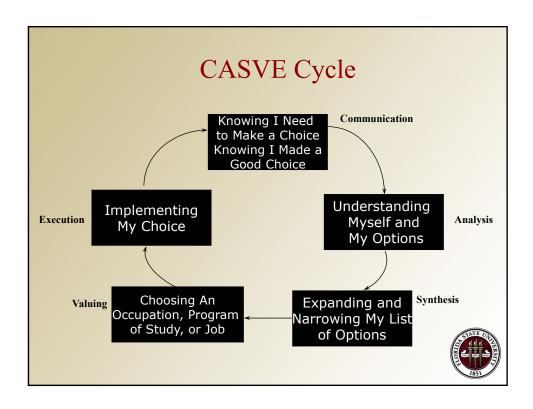




Research on Pyramid Components

- Multiple studies correlating DCT to career constructs (indecision, anxiety, depression, impulsivity, neuroticism)
- Recent study on the relationships among the pyramid (Osborn et al., in press).
- Impact of CIP-based courses on reducing DCT and increasing career decidedness (multiple studies)





Research on CASVE Cycle

- Osborn et. al (in press) found all students start in earlier stages, but those in career course more likely to move to later stages by the end of the course.
- Bullock-Yowell currently testing instrument on CASVE Cycle.



Readiness

The capability of an individual to make appropriate career choices taking into account the complexity of family, social, economic, and organizational factors that influence career development

Readiness also includes possessing adequate language skills and literacy skills for communication and learning

Source: Sampson, J. P., Jr., Reardon, R. C., Peterson, G. W., & Lenz, J. G. (2004). Career counseling and services: A cognitive information processing approach. Pacific Grove, CA: Brooks/Cole.

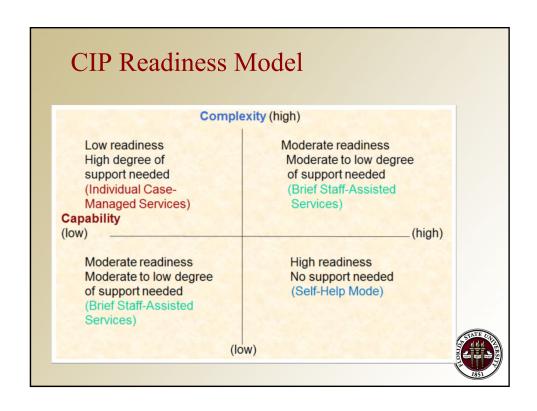


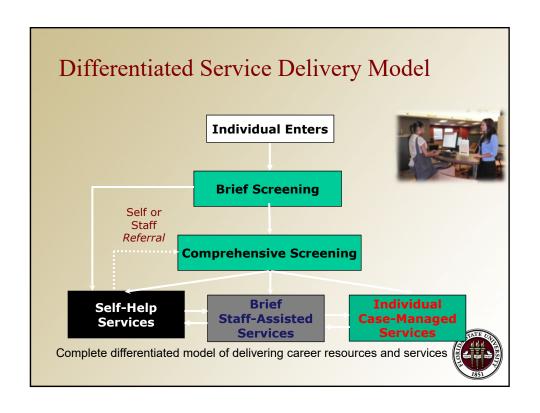
Accurate Assessment of Individual Needs

- *Capability* concerns <u>internal factors</u> that make it more, or less, difficult to decide about occupational, educational, training, or employment options
- *Complexity* concerns <u>external factors</u> that make it more, or less, difficult to decide, such as the family, society, the economy, or organizations

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Poll question

Which of the service delivery styles has demonstrated effectiveness via empirical research?

- a) Brief-assisted model
- b) Self-help services
- c) Individual case-managed approach
- d) All of the above



Research on Differentiated Model

ALL OF THE ABOVE:

- Kronholz (2015) provided case study/report on effectiveness of self-help career services.
- Osborn et al. (2016) demonstrated effectiveness of brief-career assisted model.
- Whiston et al. (2017) found individual career counseling sessions had the largest effect size.



CIP-related & created resources

• Decision Space Worksheet

Available at: http://career.fsu.edu/techcenter/resources/service-delivery-

handouts

- Individual Career Learning Plan
- Guide to Good Decision Making
- Career Thoughts Inventory/Workbook



Decision Space Worksheet (DSW) Decision Space Worksheet (DSW) Assessing Decision Space Worksheet (DSW) Activity Manual personal and social context Negative Neutral Positive A measure of Negative Neutral Positive complexity Available at: http://career.fsu.edu/techcenter/resources/service-delivery**handouts** or http://tinyurl.com/fsu-hand Carr. D. L. & Lenz. J. G. (2010). The Decision Space

Purpose of the Decision Space Worksheet (DSW)

- Cognitive mapping task
- Helps clients reveal thoughts, feelings, persons, circumstances associated with career decision
- Helps clients prioritize importance of contextual influences
- Can be used with middle school through college level students and adults

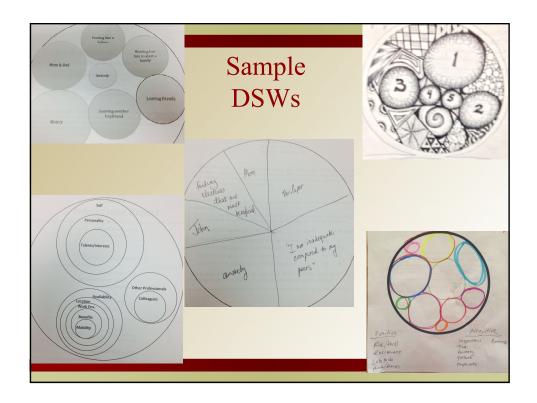


Types of Issues Revealed

- Cognitive distortion
- •Disabling emotions
- •Financial
- •Family
- •Education

- Interests
- •Self doubt
- •Employment
- •Quality of life

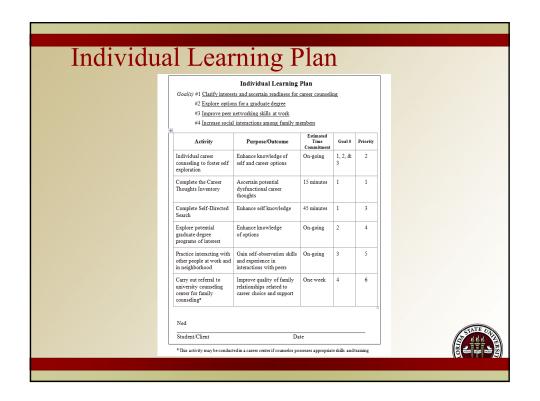


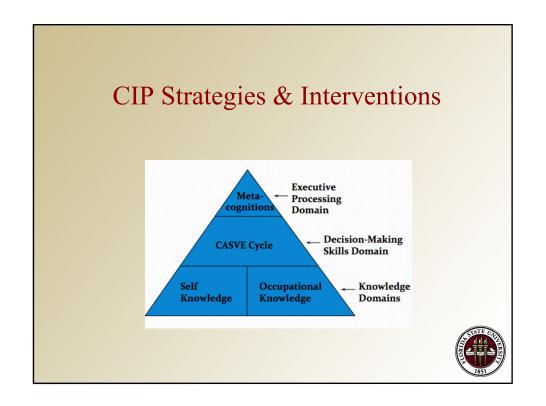


Next Steps with the DSW

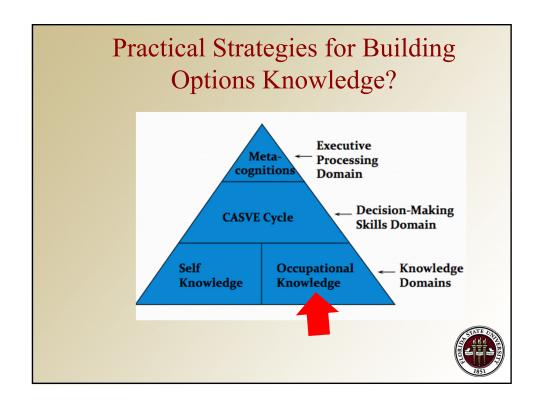
- Further readiness assessment?
- Develop a treatment plan or Individual Learning Plan
 - Readiness assessment
 - Career assessment
 - Options information
 - Referrals for mental health concerns

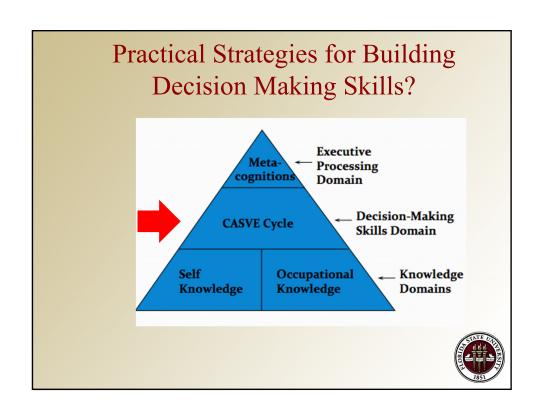


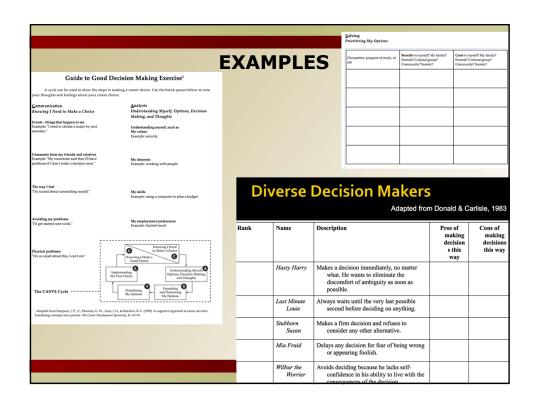


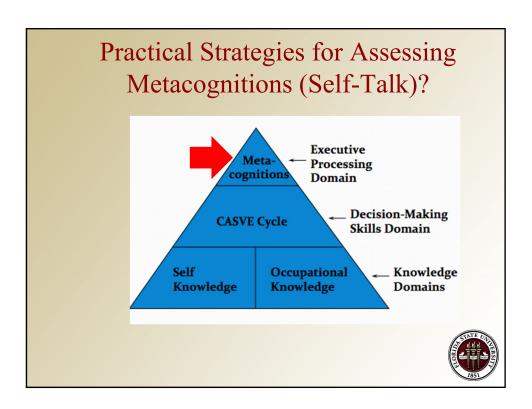








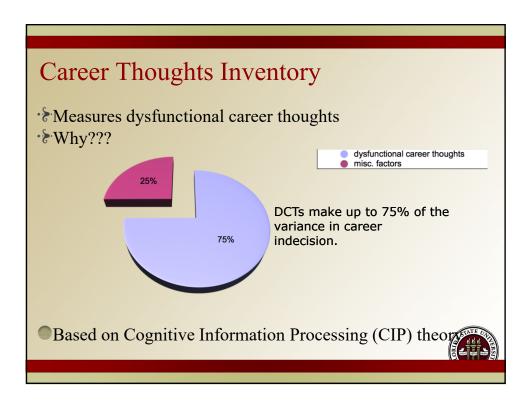


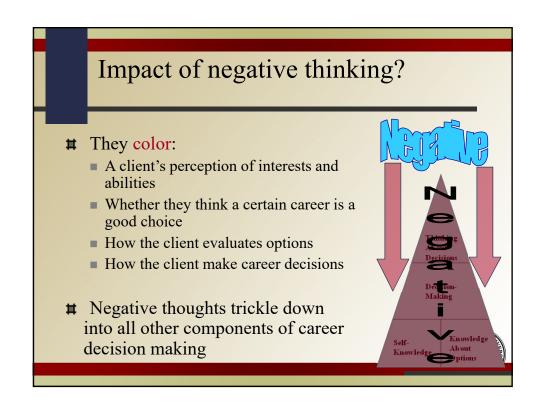


Poll Question

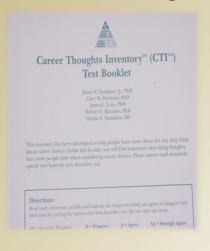
- *What %age of career indecision is attributed to dysfunctional career thinking?
- a) 25%
- b) 50%
- c) 75%
- d) 100%







Career Thoughts Inventory (CTI)



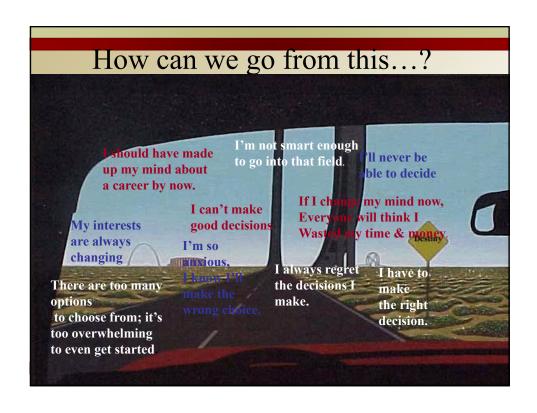
- Self-administered
- · Objectively scored
- 48-Item measure of dysfunctional thoughts in career choice
- 3 Subscales:
 - Decision MakingConfusion
 - Commitment Anxiety
 - External Conflict

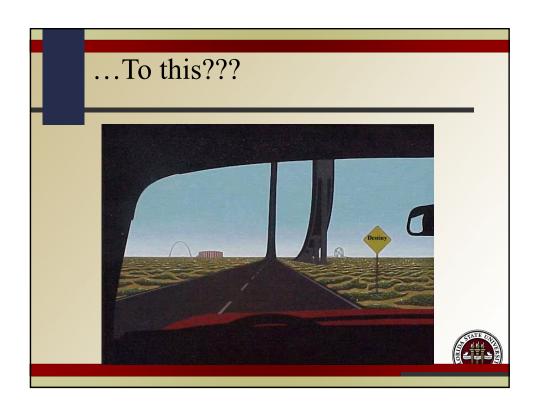
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Sample Items

- Finding a good job is just a matter of luck.
- I'm embarrassed to let others know I haven't chosen a career.
- I know what job I want, but someone's always putting obstacles in my way.







Poll question

Which of the following is an evidenced-based approach to addressing dysfunctional thoughts?

- a) Cognitive restructuring
- b) Diaphragmatic breathing
- c) Paraphrasing
- d) Reflective Listening

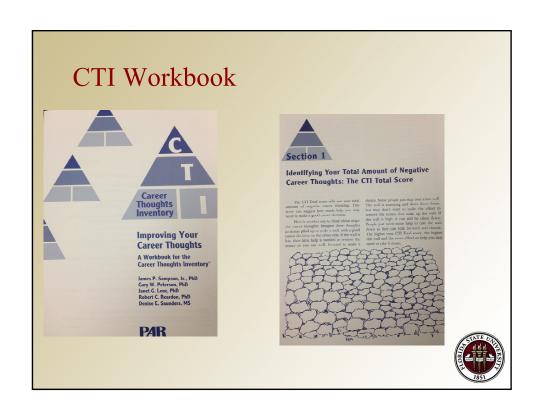


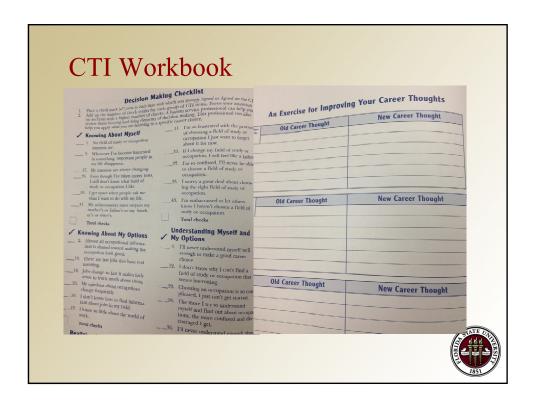
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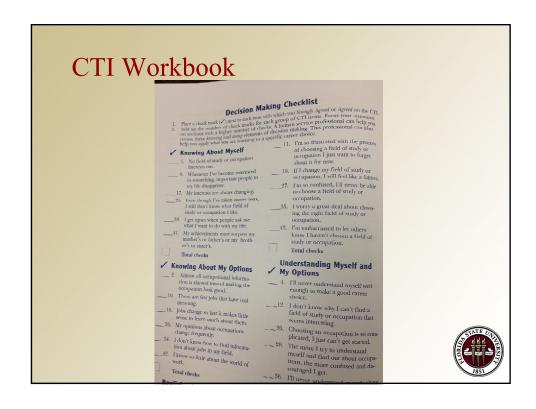
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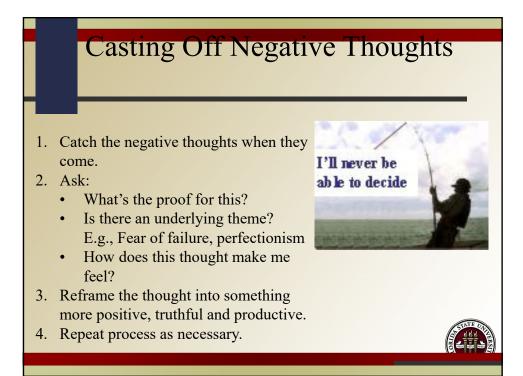
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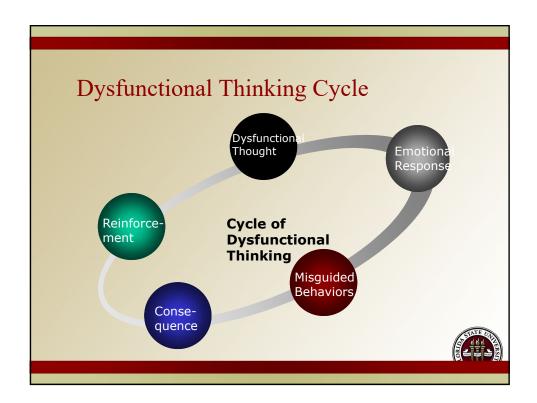








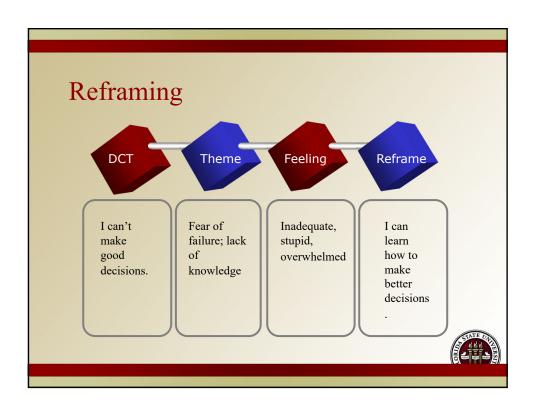




DIBS Method

- Dispute Irrational Beliefs (Ellis)
 - Identify the irrational belief.
 - Ask: Can I rationally support it?
 - Ask: What evidence exists of the falseness of my belief?
 - Ask: Is there any evidence for the trueness of my belief?
 - Dispute:
 - What are the worst things that could happen if my belief is true?
 - What are good things that could happen if my belief is true?
- 10 minutes a day
- "So what if...?" versus "What if?"
- Identify, Challenge, Alter, Act





Reframing Exercise			
Negative thought	Theme	Feeling	Reframe
			ATTE

Research on CIP theory-based interventions

- "Probably the most widely studied career interventions....cognitive information processing theory...".
- "Studies in Iceland and Switzerland provide empirical support for the efficacy of CIP-based interventions."
 - Brown, S. (2015). Career intervention efficacy: Making a difference in people's lives. APA

 Handbook of Career Interventions, Vol. 1.

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| December 1918 | Post- | Foundation | Post- | Post

Summary

- CIP offers simple structures to the sometimes chaotic and complex nature of career decision making.
- CIP provides a guide for understanding where a client is and for pinpointing relevant interventions.
- CIP offers tools to aid career practitioners in their work.
- CIP continues to generate research and has an ongoing bibliography.

BIBLIOGRAPHY: A COGNITIVE INFORMATION PROCESSING (CIP) THEORY-BASED APPROACH TO CAREER DEVELOPMENT AND SERVICES

James P. Sumpson, Jr., PhD, Gay W. Peterson, PhD, Robert C. Reardon, PhD, and Jamet G. Lenz, PhD

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