



IUCRC Logic Model Update January 2015

Teri Behrens

Lindsey McGowen

Denis Gray



Analysis of Program Goals and Objectives

- Program has evolved over 30-plus years
- Goals and objectives have tended to be emergent and/or high-level impacts
- Evaluation has also been ongoing and emergent
- Program solicitation emphasizes “means” and “ends” with little in between
- Little guidance on the mechanism(s) that help translate means into ends
- Little guidance on all the intermediate steps that come between means and ends



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Means and Ends

Means

- *Leverage NSF funds with industry to support graduate students performing industrially relevant research;*
- *Integrate research and education, and facilitate technology transfer*
- *Promote research programs of mutual interest*
- *Active engagement with academic and industrial leaders throughout the world*
- *Develop long term partnerships among industry, academe and government*

Ends

- *Contribute to the nation's research infrastructure base*
- *Enhance the intellectual capacity of the engineering or science workforce*
- *Expanding the innovation capacity of our nation's competitive workforce*
- *Encouraging the nation's research enterprise to remain competitive*



Enhanced Innovation Ecosystem



Project Goals

- Shine a light on ...
 - Program Mechanism(s)
 - Program Logic Model: activities, outputs, outcomes, impacts for various stakeholder groups and indicators for each
 - Identify data that has been collected to support program effectiveness and identify opportunities for additional assessment



Project Team

- Teri Behrens
- Alexandra Medina-Borja
- Craig Boardman
- Connie Chang
- Denis Gray
- Shannon Griswold
- Larry A Hornak
- Lindsey McGowen
- Craig Scott
- Eric Sundstrom
 - With additional feedback from the Evaluator Group



Process

- In-person workshop – generated many ideas
- Drafted LM
- Reviewed over 4 conference calls
- Presented to Evaluator Group in June 2014
- Feedback incorporated
- Revised (Final?) LM review in January 2015
- Logic modeling is an iterative process – should be a living document



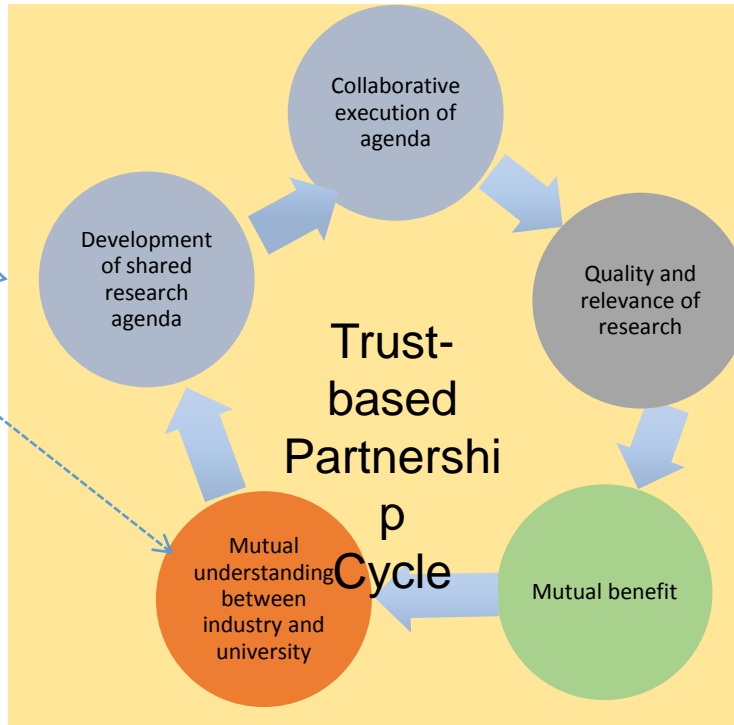
IUCRCs: BUILDING AN ENHANCED RESEARCH AND INNOVATION ECOSYSTEM

University resources and facilities

NSF Funding, Prestige and Technical assistance (Best practices in center management)

Industry intellectual and financial support

System Interventions



Students

- Increased opportunities for internships/employment
- Ideas / funding for thesis / dissertation research
- Industry network
- Skills in bridging industry / academy

Faculty : Short-term

Increased:

- Scholarly productivity & reputation
- Advances in knowledge
- Skills in collaborative research
- Consulting / contract opportunities
- Ability to attract / support students and opportunities
- Industry network

Faculty: Long-term

- Funding from diversified sources
- New / enhanced relationships with industry (social capital)
- Opportunities for scientific leadership

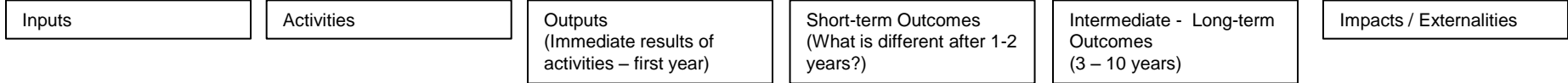
Industry: Short-term

- Access to potential employees
- Amplified R&D
- Broader scientific network
- Access to IP

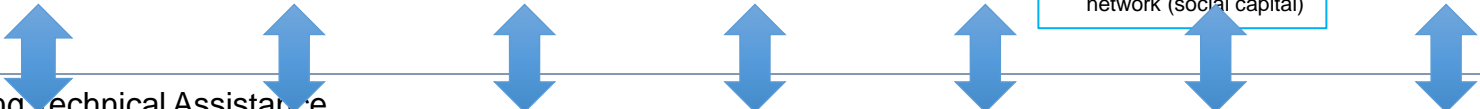
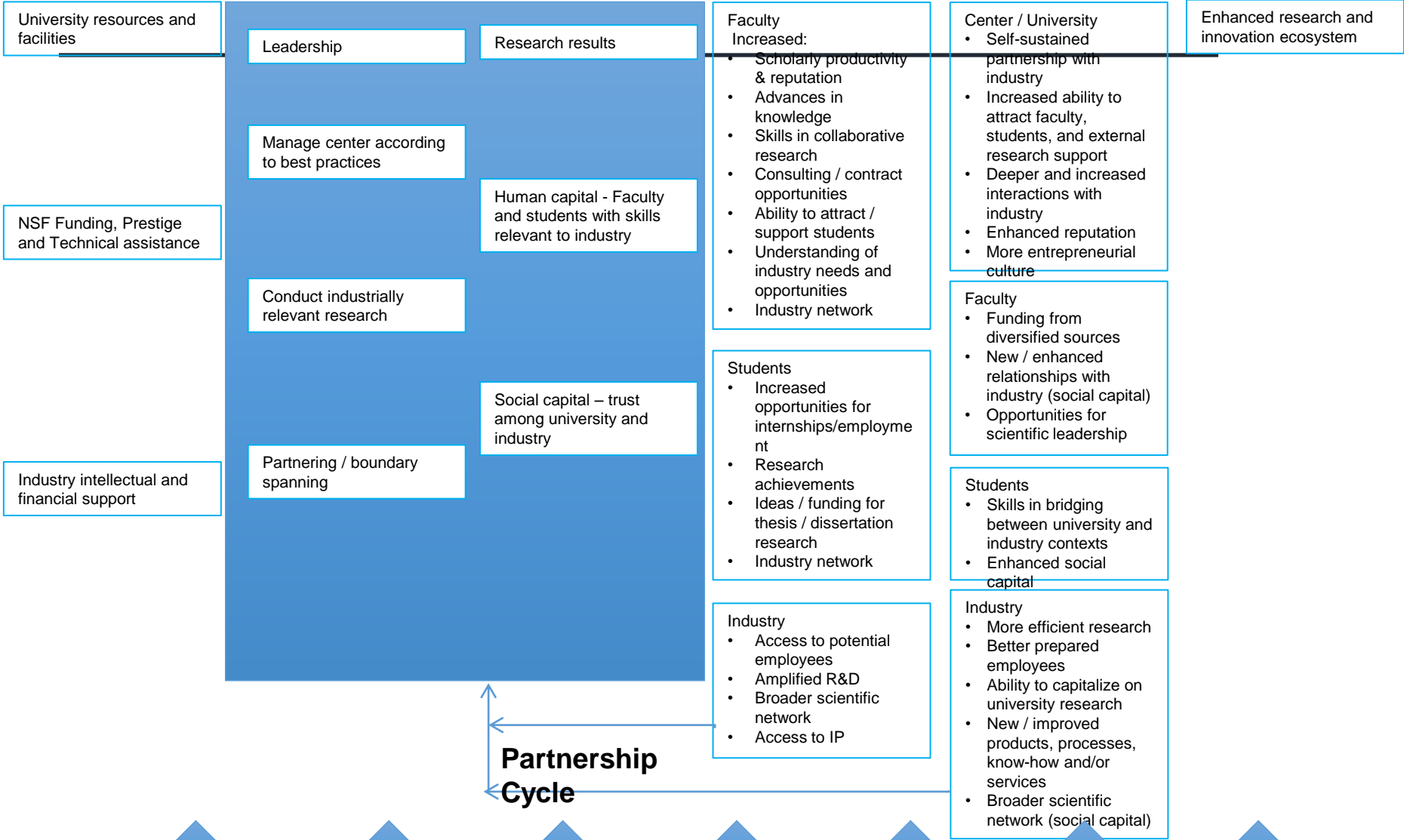
Industry: Long-term

- More efficient research
- Better prepared employees
- Ability to capitalize on university research
- New / improved products, processes, know-how and/or services
- Broader scientific network (social capital)

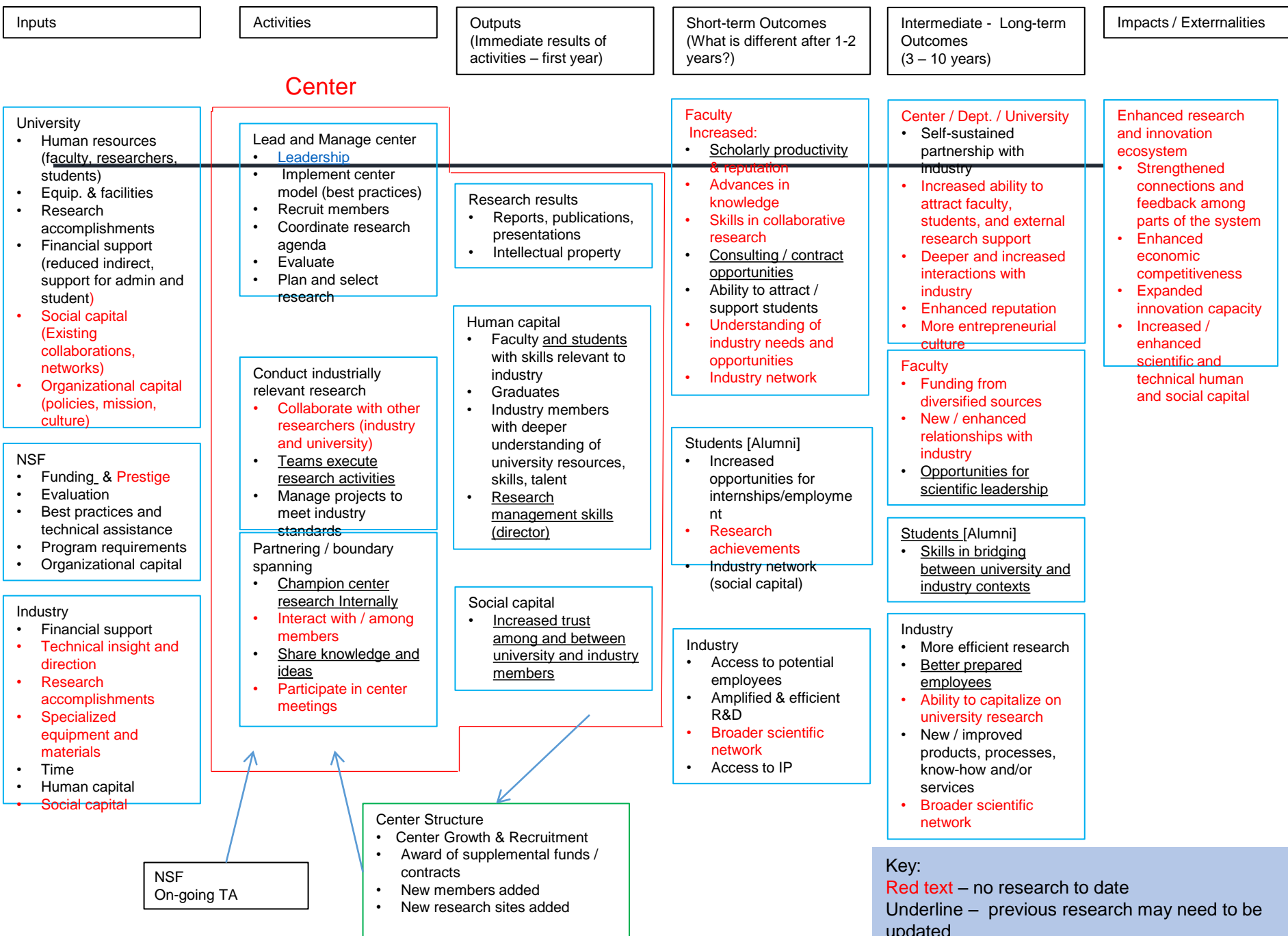
IUCRCs are a SYSTEM level intervention – targeted support creates a self-reinforcing network of relationships.



Center Operations



NSF On-going Technical Assistance
 Center Growth: Award of supplemental funds / contracts -- New members added -- New research sites added



Key:
Red text – no research to date
 Underline – previous research may need to be updated
 Black text – sufficient current research



Next Steps

- Feedback from team and NSF
- Build link between measurement LM and data source
- Identify and fill gaps in evaluation / research