
CAISE REVERSE SITE VISIT

An Evaluation Perspective

May 13, 2008

Inverness Research

Inverness Research

- Study the investments made in the improvement of education
 - Many studies of NSF and other projects including Centers, Networks, Collaborations
 - Groundtruthing -- theory of action and field realities
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Our Perspective and Assumptions about CAISE

- CAISE is intended to be a Center that enhances the ISE field and increases the efficacy of the NSF ISE investment
 - CAISE is an innovative entity without precedent to guide its design
 - CAISE will evolve its design over time
 - CAISE is a cooperative agreement and a collaborative effort
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Our Perspective and Assumptions about the evaluation of CAISE

- Allegiance of the evaluator is to the best use of the investment, to the public good, and not to the project or NSF
 - Goal of the evaluation is to help optimize the return on investment
 - Formative feedback
 - Critical friend role
 - Documenting impacts
 - Distilling lessons learned
 - First year work: focusing on initiation of work and formulation of the Center
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Evaluation Activities to Date

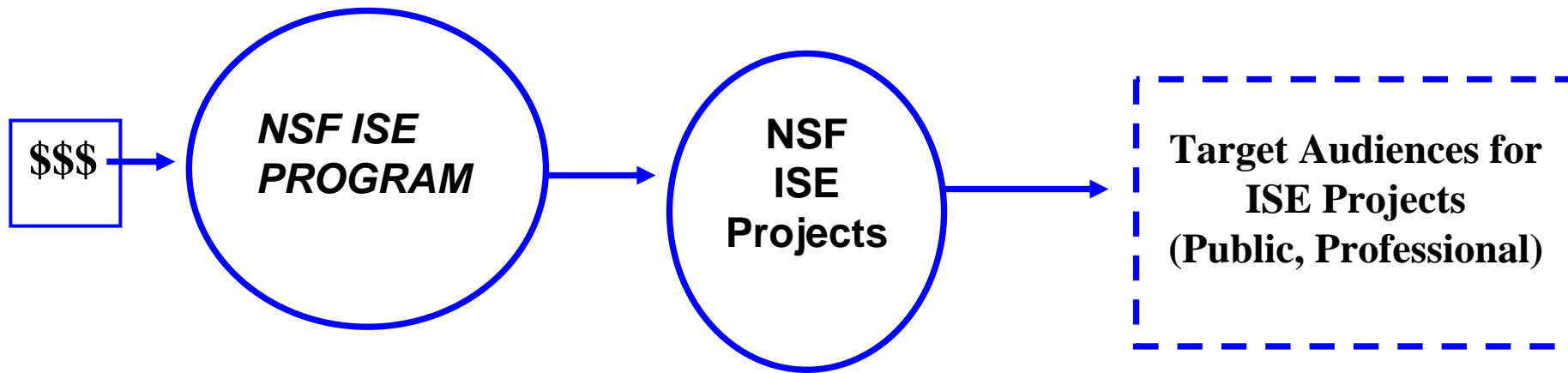
- Participated in key Center formation meetings
 - Ongoing discussions/interviews with key Center leaders
 - Review of documents; tracking work of the Center
 - Participated in Web inquiry group
 - Brief review of the website
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Overview

- The CAISE “Design Space”
- Opportunities within the Design Space:
 - Strengthening the ISE Field
 - Serving and Strengthening the NSF ISE Program
 - Communicating to NSF and External Audiences
 - Growing a Center
- Summary of Progress and Next Steps

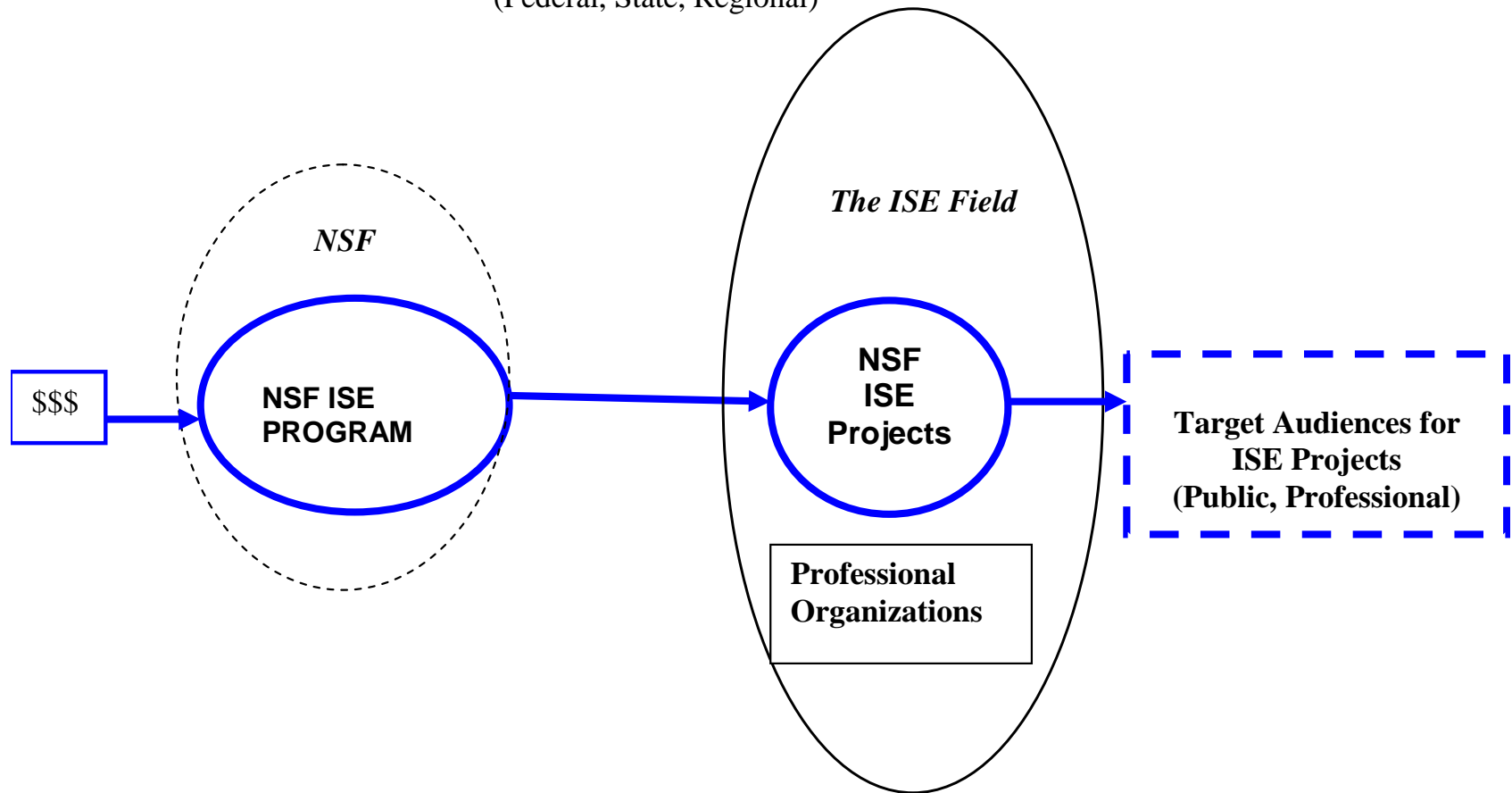
The CAISE Design Space

The Basic Stream of Investment

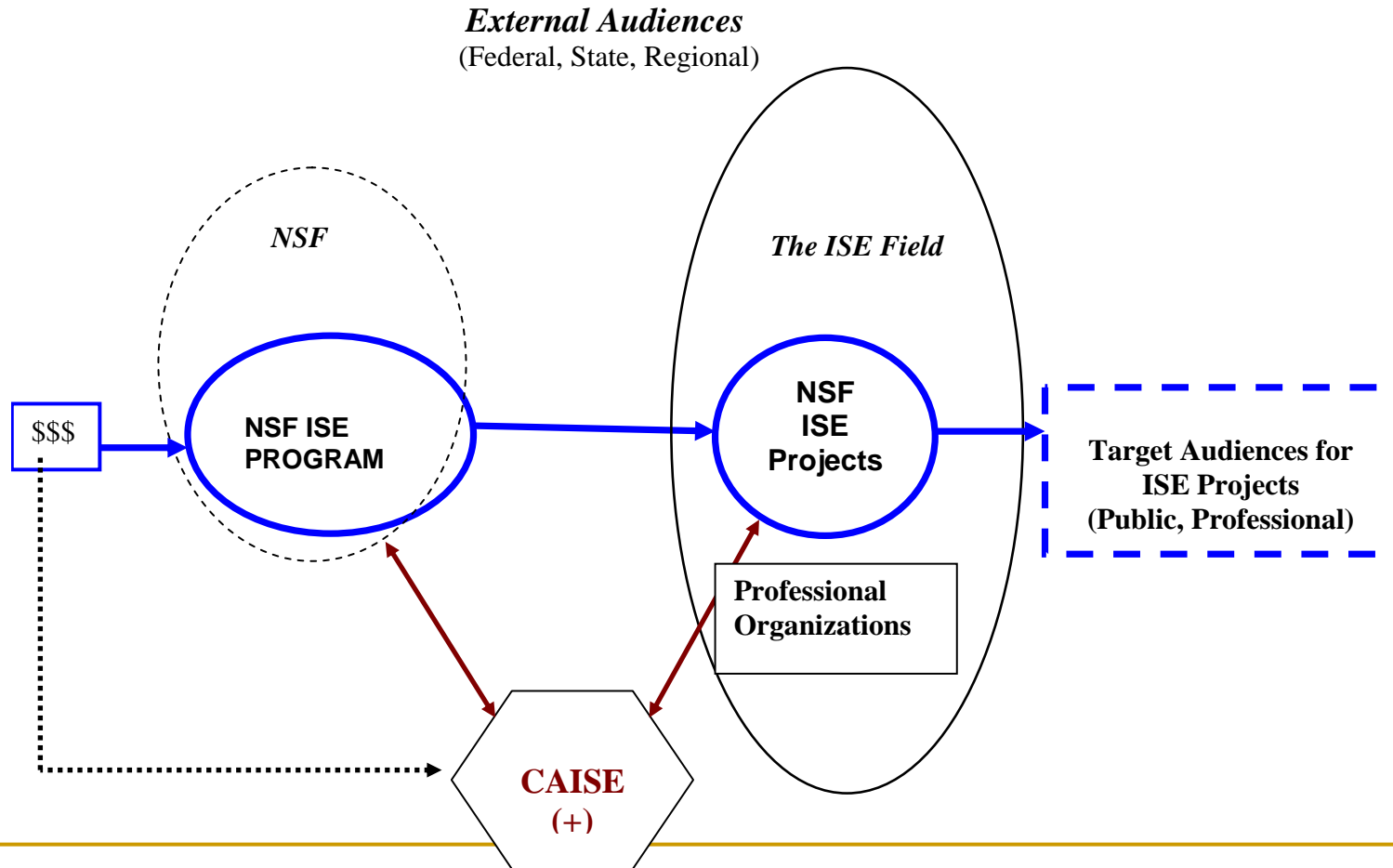


The Stream of Investment in Broader Contexts

External Audiences
(Federal, State, Regional)

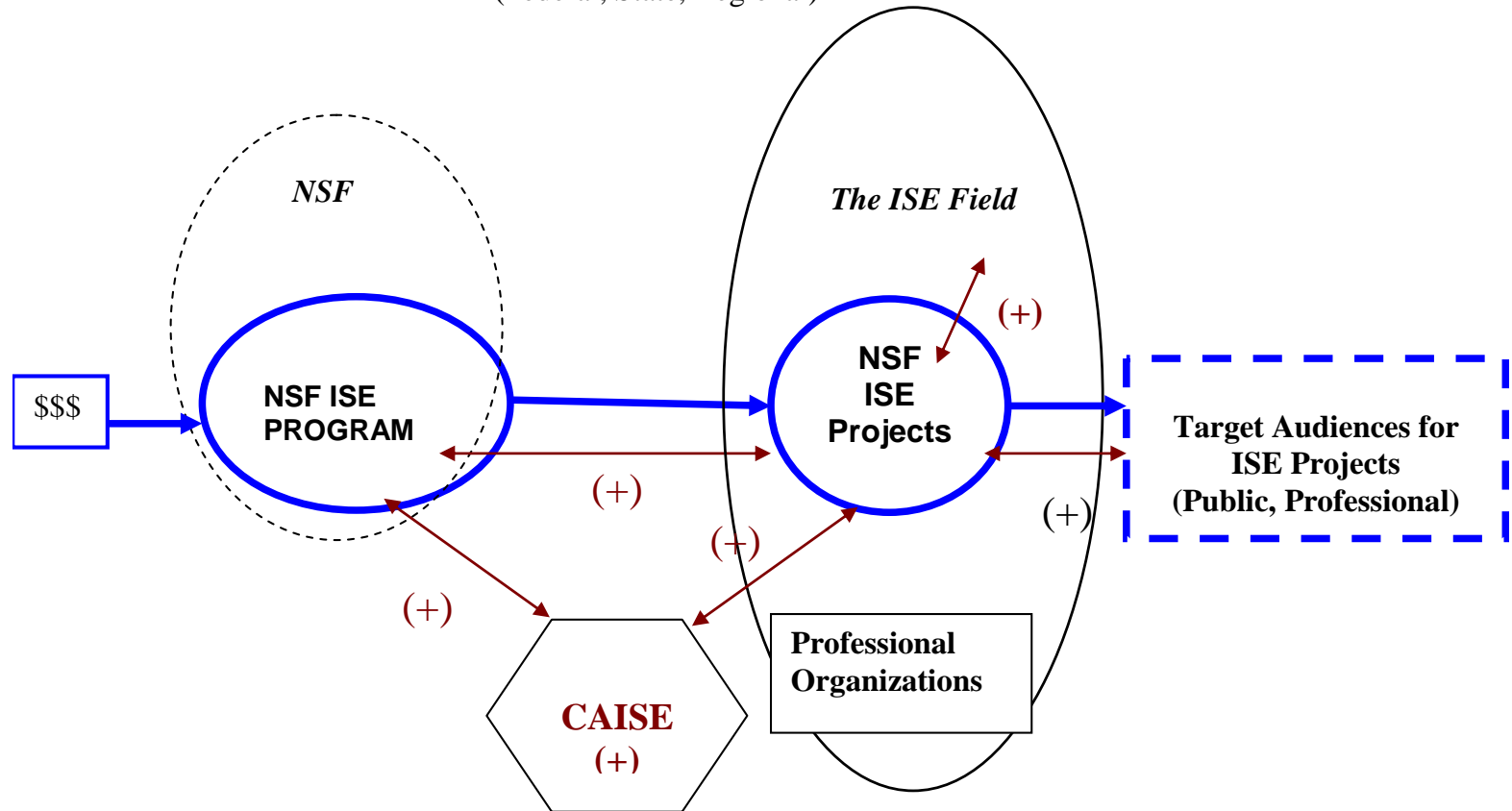


The Investment in CAISE

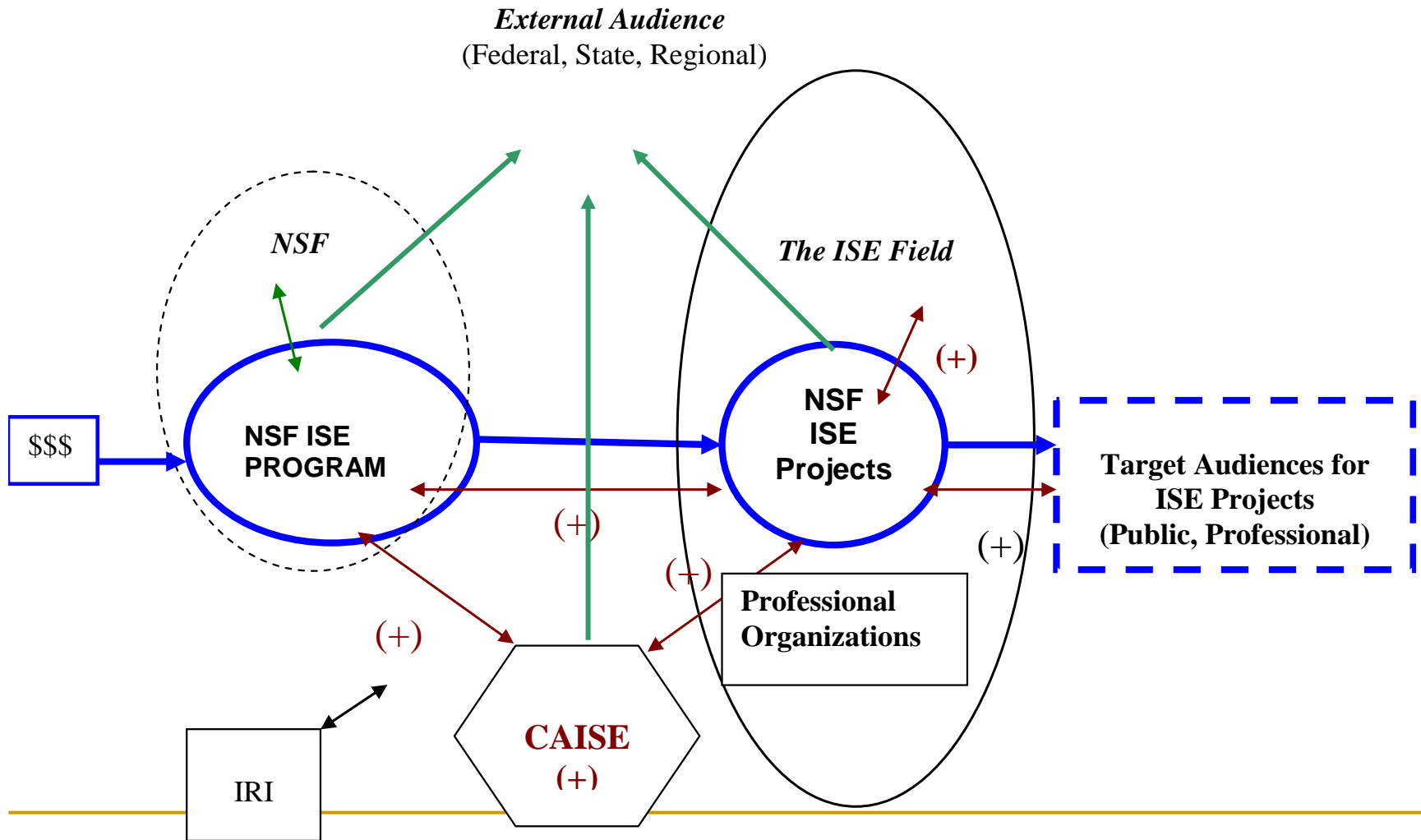


Strengthening the ISE program and the ISE field

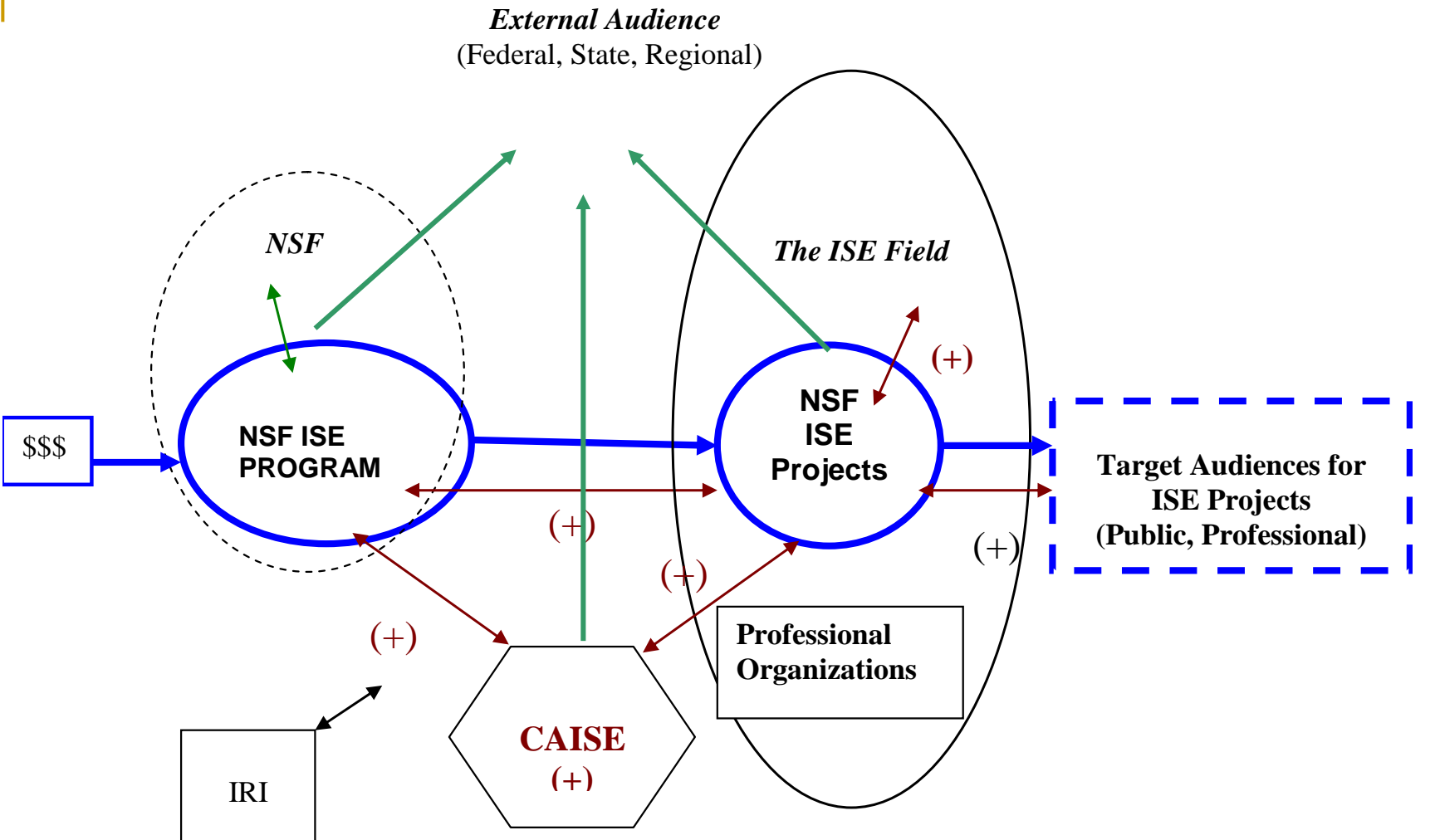
External Audience
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Communicating the value of ISE investments



CAISE DESIGN SPACE



Note – Blue lines represent stream of investment; red arrows represent interactions and contributions; Green arrows represent communication and advocacy

Strengthening the ISE Field

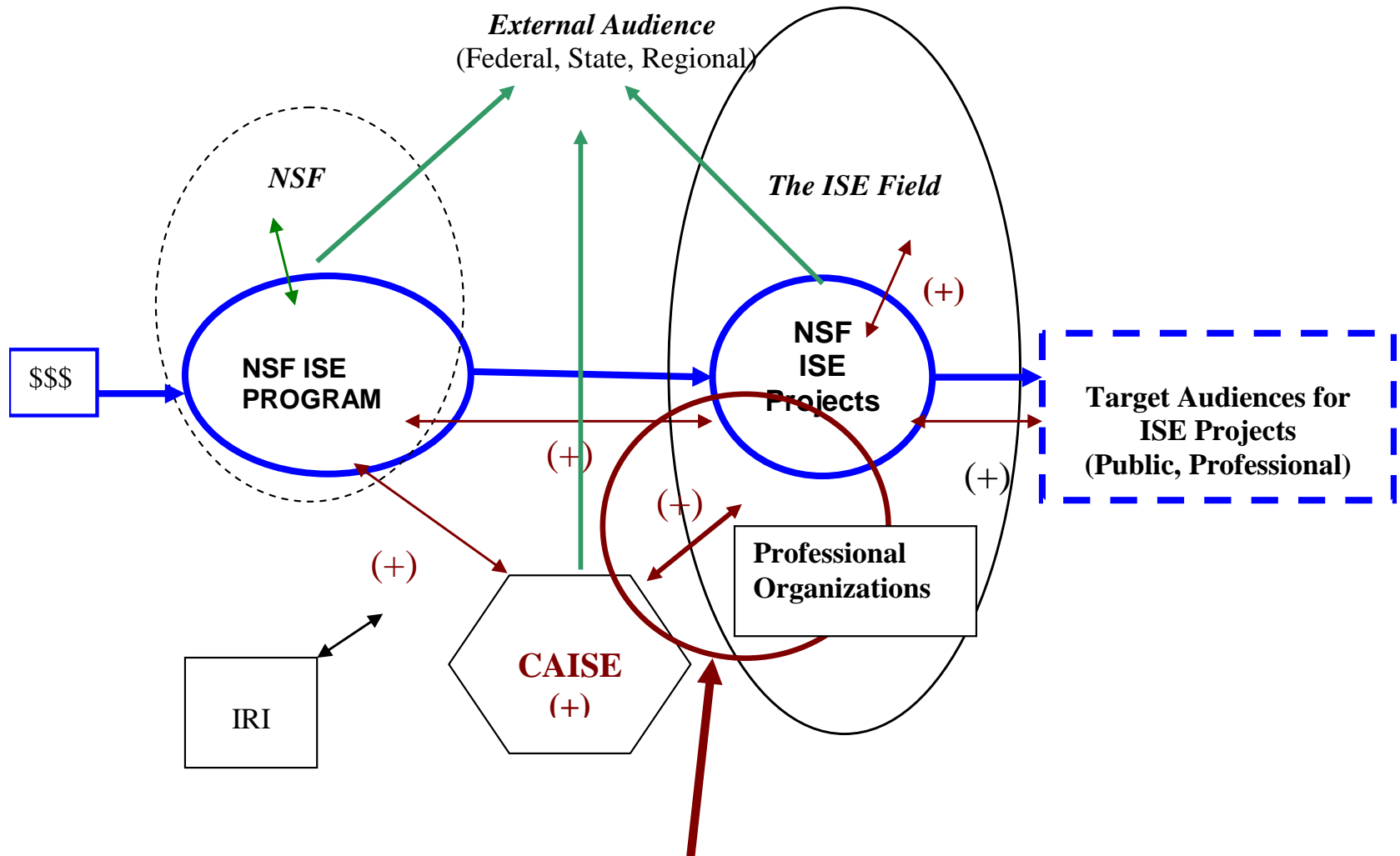
The Concept of the “Field” (Oxford English Dictionary)

- Open countryside
- Battlefield; Playing Field
 - “Take the field”
- All the competitors who play/fight on the field ...all engaged in the same game
 - “the rest of the field”
 - “to play the field”
- An area or sphere of action, operation or investigation
 - A department, area of study, shared inquiry

Characteristics of a Strong Field

- The field is recognized as a field with its own identity
 - The domain of the field is valued by society at large
 - The people and work of the field are visible
 - The field attracts and retains good people
 - The field produces high quality work and is responsible for quality control
 - The field is intellectually rich, diverse, interactive
 - The field is producing and sharing new knowledge, innovations
 - The field is well connected -- internally and externally
 - Multiple sources of support and funding
 - Able to identify and address critical issues
-

STRENGTHENING THE ISE FIELD



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Things to do to strengthen a Field

- Create greater visibility and sense of shared identity
- Attract and retain high quality people to work in the field
- Garner more resources and create the capacity for gaining additional support
- Create mechanisms for developing new leadership
- Generate and share new research, knowledge
- Identify and address critical issues in the field
- Create greater community, connections, relationships – both internally and externally
- Support innovation, creativity
- Enhance professional activity, responsibility

Strengthening the ISE Field:

Current CAISE Activities

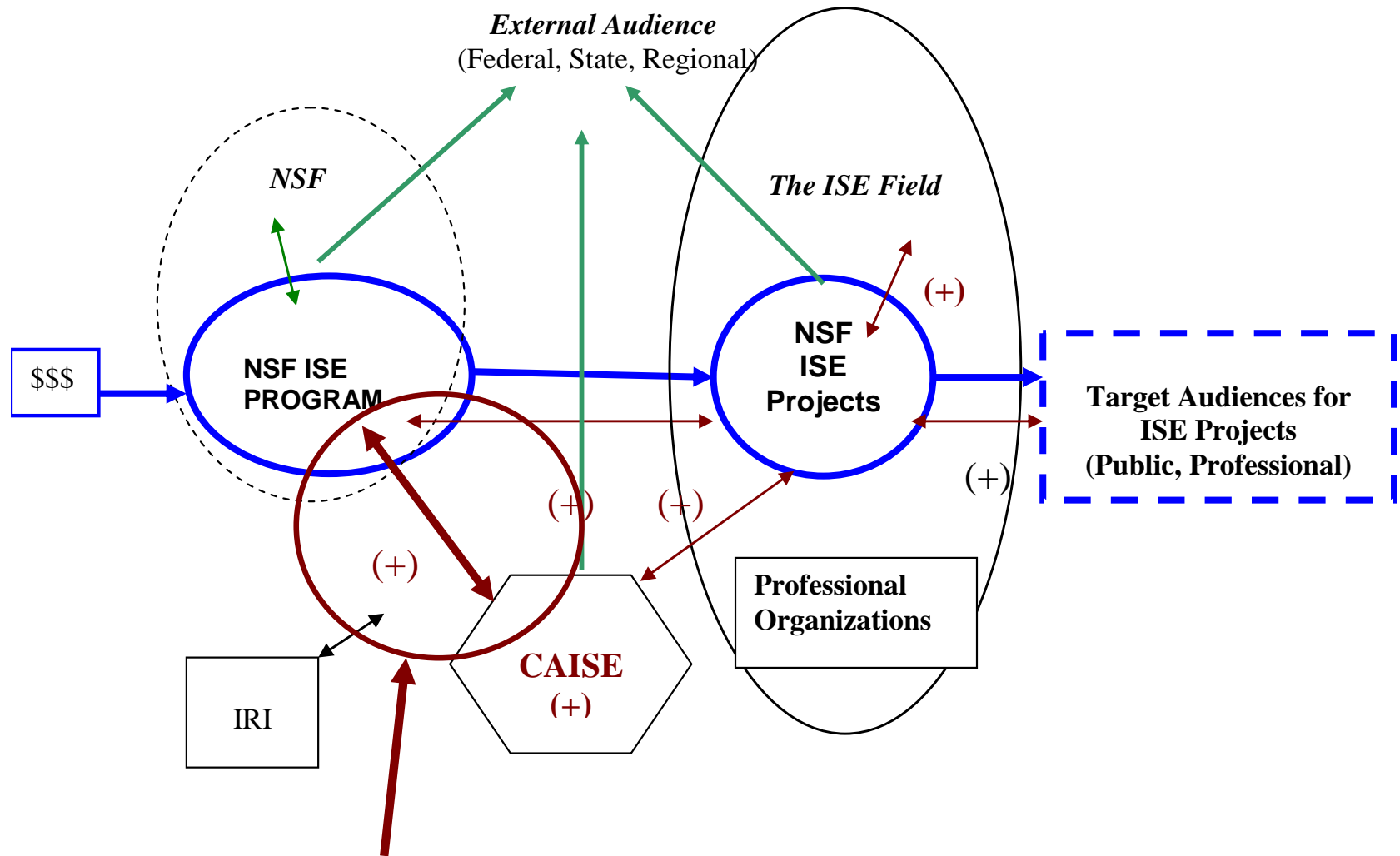
- Inquiry groups
 - PI meeting
 - Workshops (VSA)
 - Steering Committee and Forum
 - Fellows Program
 - Landscape study
 - Newsletter articles
 - Insci.org website
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Serving and Strengthening the NSF ISE program

SERVING AND STRENGTHENING NSF ISE PROGRAM



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Things to do to strengthen a Grantmaking Program

- Help grantmakers better understand the state of the field and the landscape they are trying to influence
 - Help shape the grantmaking theory of action
 - Provide feedback on current and past grants -- portfolio, initiatives, individual grants
 - Help to identify promising opportunities
 - Enhance communication between funder and the field
 - Help funder improve evaluation criteria, practices
 - Help funder make a case for their grantmaking to key external audiences
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Serving and Strengthening the NSF ISE Program: Current CAISE Activities

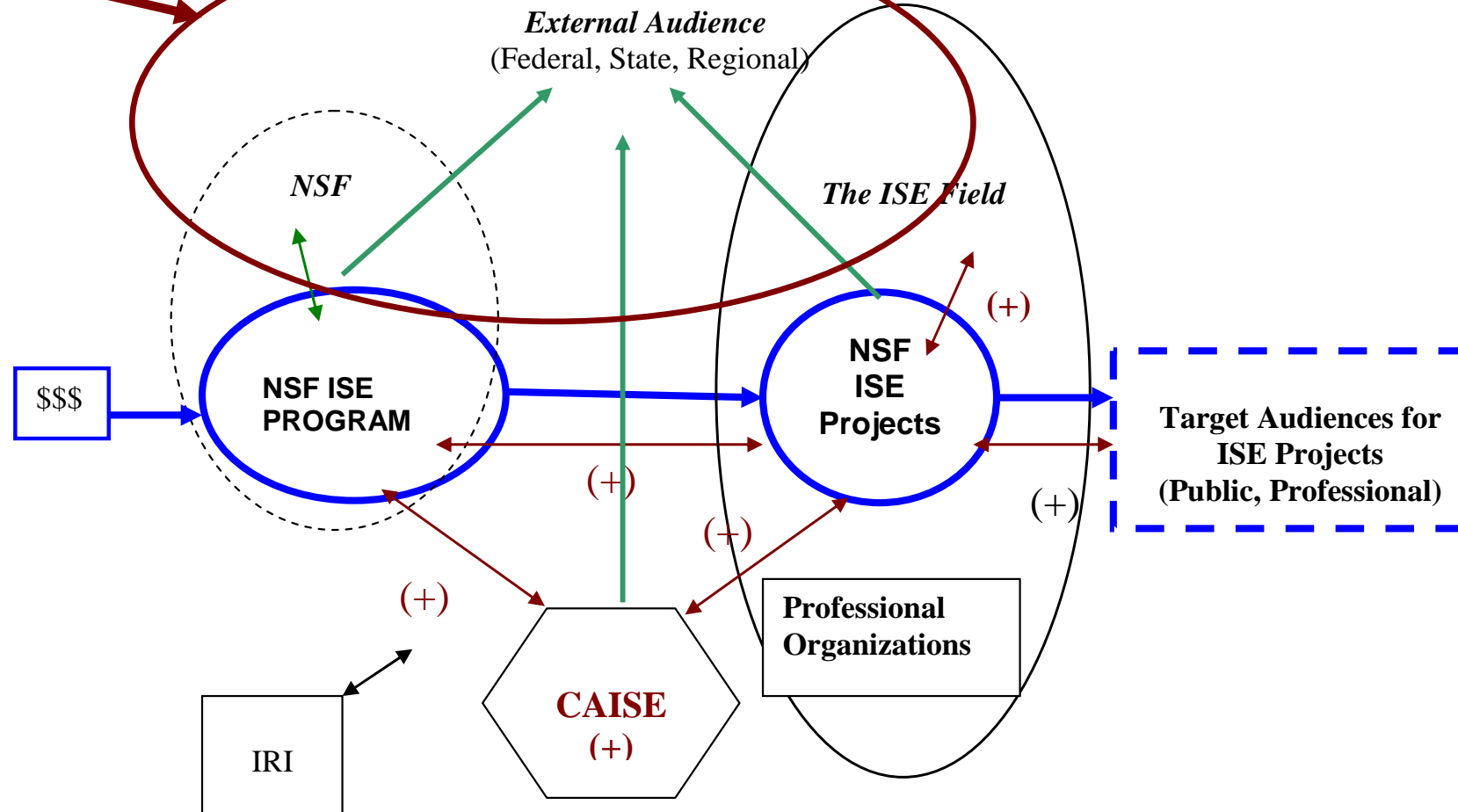
- Regular meetings with NSF ISE staff
 - Feedback to NSF ISE on the state of the field
 - Landscape study
 - PI Survey
 - Portfolio Inquiry Group → Analysis to inform grantmaking
 - Inquiry groups inform ISE re particular domains
 - Helping NSF ISE to communicate to the field
 - PI meeting
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- Dissemination: e.g. the evaluation framework

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Communicating the value of ISE investments to NSF and external audiences

COMMUNICATING TO NSF AND EXTERNAL AUDIENCES



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Things to do to make the case for a funding program

- Portray the portfolio, spectrum of grants made
 - Portray a statistical picture of people, institutions served
 - Communicate the nature and needs of the field that is being funded
 - Demonstrate multiple ways in which there is a return on the investment made
 - Demonstrate progress, learning in the investment strategies and processes
 - Provide evidence of key contributions to targeted audiences
 - Provide evidence of leverage, cost-effectiveness
 - Illuminate the cumulative contributions (capacity building) of the investments
 - Provide illuminative anecdotes, stories that portray benefits of the investments
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Communicating the value of ISE investments to NSF and External Audiences: Current CAISE Activities

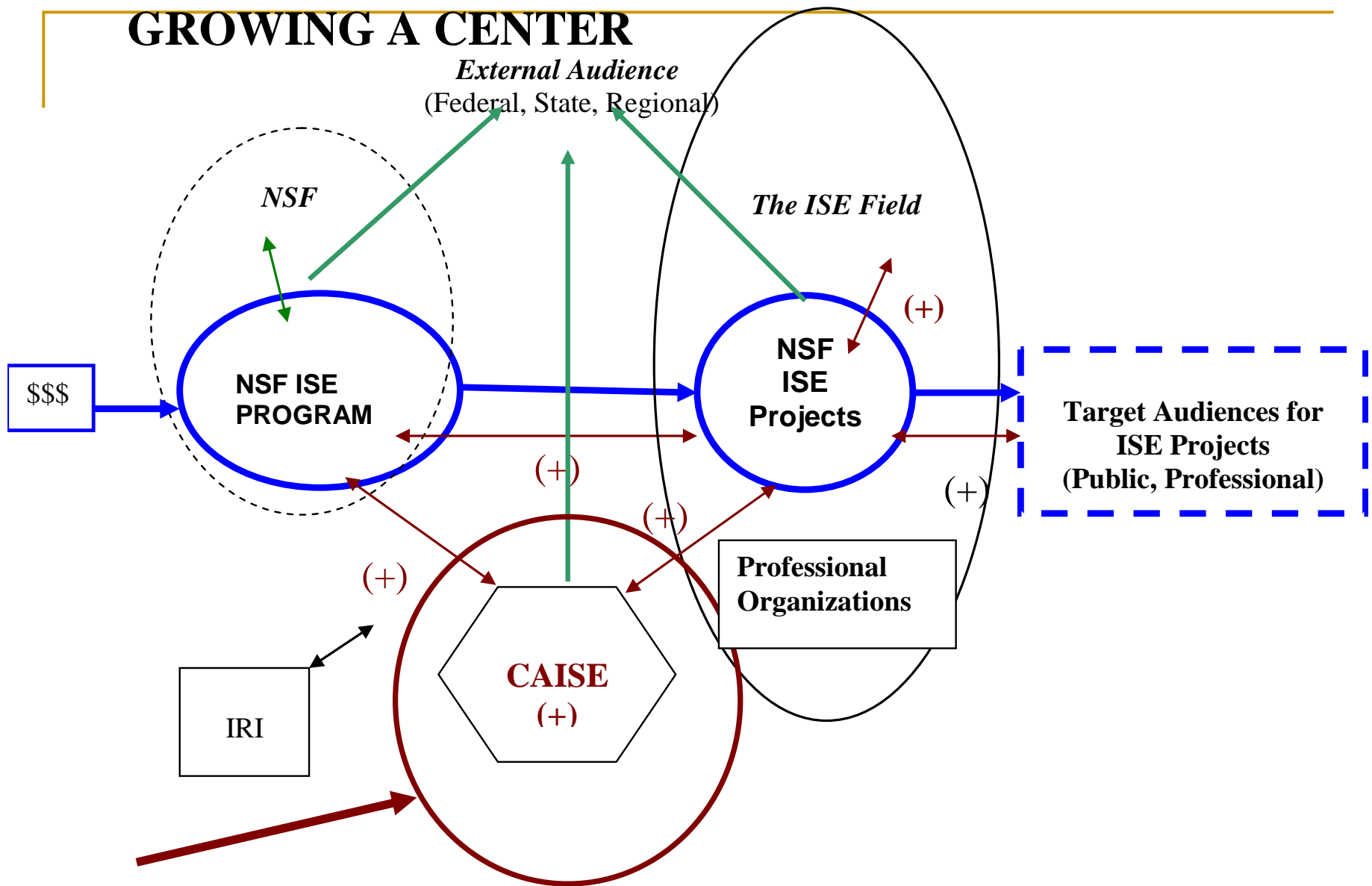
- Newsletter
 - Insci.org website
 - Inquiry Groups
 - Portfolio analysis
-

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Growing a Sustainable Center

GROWING A CENTER



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Things to do to grow a sustainable Center

- Create a shared vision of mission and purpose
 - Develop strong leadership
 - Develop strong staff and others to do the work
 - Establish clear governance and decisionmaking
 - Assure strong financial support(s)
 - Develop symbiotic interactions with the field
 - Develop a portfolio of work that supports the mission of the Center and increases Center capacity
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Growing a Center:

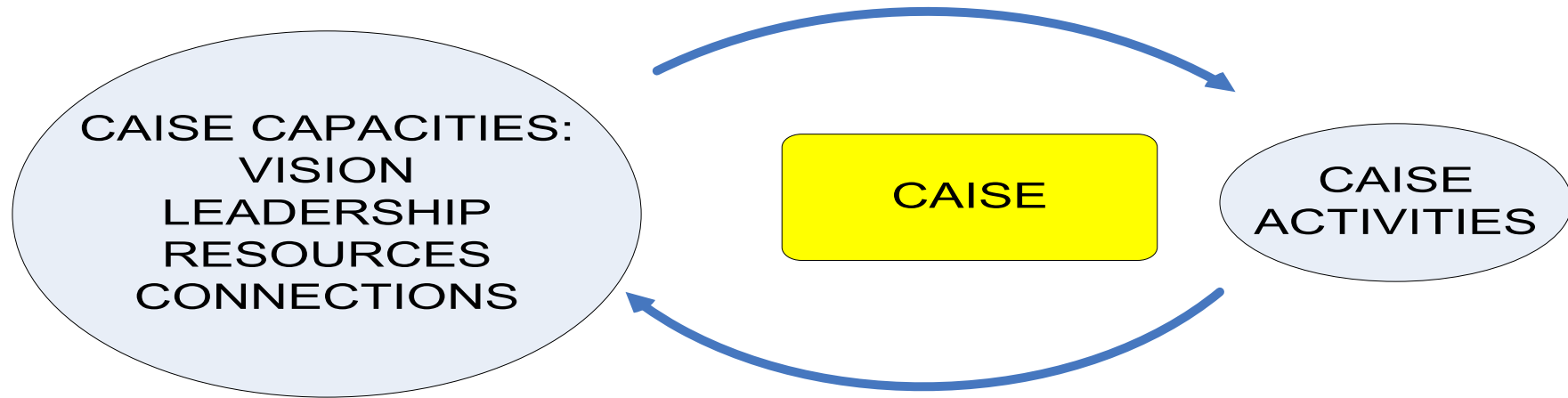
Current CAISE Activities

- First year has been focused on foundation building, establishing the mechanisms and structures to work together
 - Working toward a shared vision
 - Hiring of Director
 - Hiring of Project Manager
 - Raising visibility and awareness of Center
 - Co-PI calls and meetings
 - Steering committee formation
-

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-

CAISE Capacities and Initiating the Work of CAISE



Emerging Design Challenges

Continued Refinement of the Conceptualization of the Center

- Independent Organization vs Project vs Contract?
- Organizing Metaphor?
 - AAAS, Community Organizing, Regional government
- Nature and extent of connections with the Field?
 - ISE projects
 - Individuals
 - Institutions
 - Agencies, organizations, disciplines, sectors
- Nature and extent of connections with NSF ISE program ?

Governance and Decisionmaking

- Role of the PI
 - Roles of the CO-PIs
 - Roles of the Director and Project Manager
 - Roles of the Steering Committee
 - Roles of the NSF ISE program officers
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- Decisionmaking groups, structures and processes
-

Prioritization of Center Functions

- Strengthening the Field
 - (which functions?)
 - Serving and strengthening NSF ISE grantmaking
 - (which functions?)
 - Communicating the value of the ISE investment
 - Develop a sustainable independent Center
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Congruence and Coherence of CAISE Activities

- Activities congruent with priorities?
 - Cost and contribution of different CAISE activities?
 - Design of individual activities?
 - The overall coherence of a CAISE portfolio of activities?
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Center strategic planning and allocation of resources

- How are resources to be allocated across functions and priorities?
 - What is the process of decisionmaking?
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Proposed CAISE goals for Year Two

- Make demonstrable progress in addressing key design challenges
 - Overall conceptualization
 - Governance and decisionmaking
 - Prioritization of Center functions
 - Congruence and coherence of CAISE activities
 - Center strategic planning and allocation of resources

END
