	FINAL LIST OF EFRI INDICATORS AND SOURCES OF DATA (10/25/12)		
	DIMENSION/INDICATOR	**Data Collection Instrument**	**Notes**
Indicator #			
Classifier	Grand Challenge or National Need that this project addresses as stated in the proposal	proposal	New indicator; Changed collection instrument from RPPR
	PROJECT OUTPUTS/ KNOWLEDGE TRANSFER ACROSS DISCIPLINES		
1	••Number of Interdisciplinary collaborations (or percentage of grants with this characteristic)	Monitoring System	
2	••Number of papers with co-authors from different disciplines	Monitoring System	Changed from RPPR
3	••Number of citations/seminal highly referenced publications	External Consultant/Google Scholar	Added "# of citations" Added external consultant
4	List of PI achievements (awards, leadership, promotions, etc)	Monitoring System	New indicator
	INNOVATION OF IDEAS IN AREAS OF GREATER OPPORTUNITY		
5	••Number of follow on grants supported by other agencies (or percentage of grants with this characteristic) after an EFRI award	Monitoring System	
6	••Number of researchers (PIs, post-docs, graduate, undergraduate and other research assistants) exchanged across laboratories (inter-disciplinary, inter-institutional)	Monitoring System	
7	Number of government agencies co-funding EFRI research	Monitoring System (EFRI officers)	Info will be collected by officers in the monitoring sys

8	••Number of grants with International collaborations (or percentage of grants with this characteristic)	Monitoring System	Indicator added back
9	National need(s)/ grand challenge(s) addressed by the completed research or research in progress (have there been any changes in the scope of the research?)	Monitoring System	New indicator
	POTENTIAL FOR TRANSLATIONAL RESEARCH		
10	••Number of PIs with additional continuation funding at larger scale from other agencies (or percentage of grants with this characteristic)	Monitoring System	
11	••Number of start-up companies whose formation an EFRI award contributed (# of jobs, including founder)	Monitoring System	
12	•• Number of patent citations	Google Scholar	Split this into two indicators
13	Licensing activity	Monitoring System	Added new indicator
14	••Number of companies interested in partnering with EFRI awardees	Monitoring System	
15	Number of new techniques, tools, resources, equipment, methods of research, models, etc.	Monitoring System	New indicator
	INNOVATIVE RESEARCH METHODS OR DISCOVERIES ARE INTRODUCED TO THE CLASSROOM		
16	••Number of topics that have generated curriculum changes or inclusions of modules to teach methods, discoveries or innovations funded by EFRI at college level	Monitoring System	
17	••Number of topics that have generated curriculum changes or inclusions of modules to teach methods, discoveries or innovations funded by EFRI at PK-12 levels	Monitoring System	
	PROJECT RESULTS ADVANCE THE FRONTIER / CREATION OF NEW FIELDS OF STUDY		
18	••New academic programs around EFRI topics	Monitoring System	
19	••Number of grants that develop out-of-the-box approaches or what disciplinary experts would consider new methods or methodologies (or percentage of grants with this characteristic)	External contractor	
20	••Number of EFRI students who become involved in	Monitoring	

	high risk research in their portfolio after graduation	System : tracking students' trajectories	
21	Creation of communication medium on new topic, i.e., new conferences, new journals, working groups, congressional hearings, etc.	Monitoring System	New indicator
	FOSTERING PARTICIPATION OF UNDEREPRESENTED GROUPS IN SCIENCE		
22	••Number of participants and research assistants from underrepresented groups in research activities	Monitoring System	Combined participants and research assistants into one indicator
23	••Percentage of participants from underrepresented groups who stated their EFRI experience (lab and interactions with research group) influenced positively their decisions and career path	Survey reported in monitoring system	