

## AIM OF THE PAPER

The paper takes stock from other analyses already developed (Reale and Zinilli, 2016; Id., 2017; Zinilli, 2016) on the peer-review process within PRIN.

Our goal is a meta-analysis of peer-review system in a specific competitive project-funding scheme in Italy, namely the Research Project of the National Interest (PRIN).

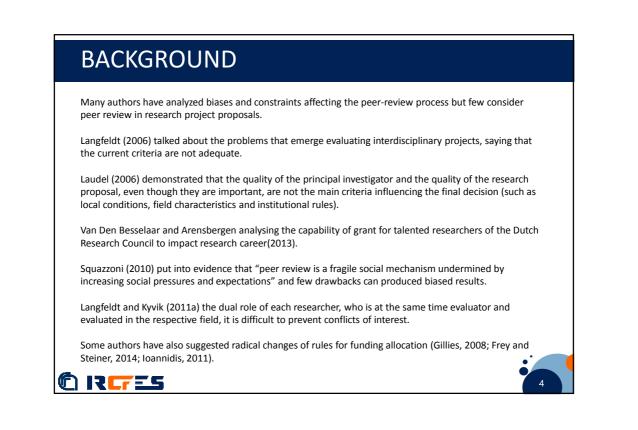
We want to verify -on the base of results achieved, conditions under which reforms of peer-review mechanisms in the ex-ante evaluation might produce transformative effects, modifying beliefs and motivations for actions, which are likely to influence the actors' behavior.

Transformative effects: *reliability and transparency* of the process beyond the effectiveness selecting the best proposals



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## FRESEARCH QUESTIONS How have the peer-review mechanisms of academic project funding been transformed to achieve the goal of reliability and transparency? Does the transformation address the need to have more trustable assessment processes for the scholars' community? Transformation in ex-ante peer assessment can be realized only by enforcing open, direct and continuous interactions of peers involved. Information resources and new rules, criteria and scoring systems are not able to influence biases coming from local habits and national self-reference of the academic community.



## METHODOLOGY

The paper uses the projects submitted to competitive project funding that were admitted for funding.

The empirical base are the PRIN-Projects of National Interest- a funding scheme for collaborative academic research in all the scientific fields implemented in Italy

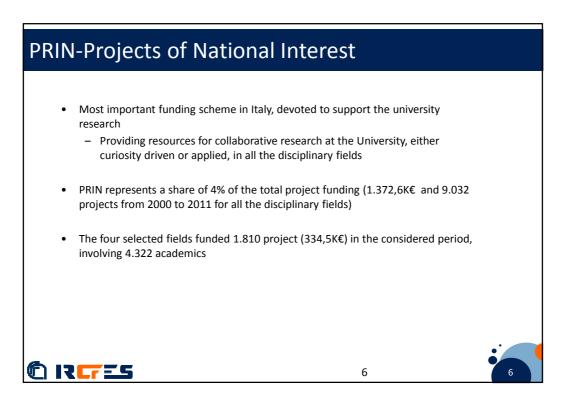
Limitations:

No information about all the applicants but only on beneficiaries Only local communities are represented in the study (Italy)

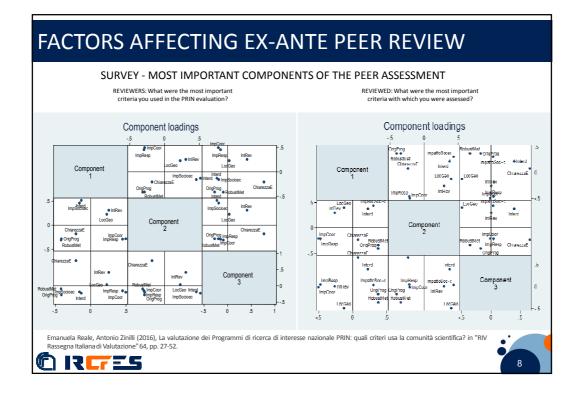
Data refer to twelve years (from 2000 to 2011) and four fields of science (Physics, Chemistry, Economics and Social sciences)

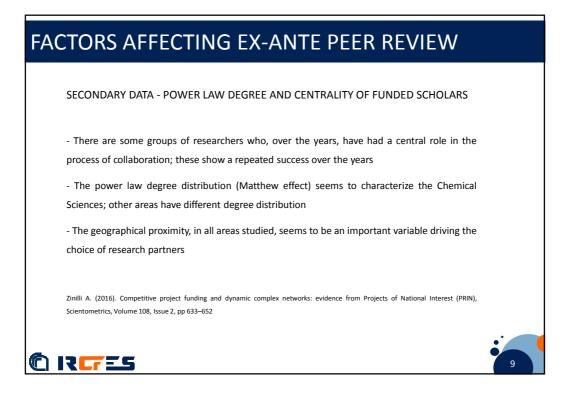
The methodology combines secondary data on proponents and proposals approved (source MIUR), interviews (17) and a survey on 983 scholars involved as coordinators (COs) of the projects and principal investigators (PIs) representing 23% of the projects approved in the 4 fields analysed.





SURVEY: REVIEWERS AND REVIEWED: COHERENCE OR BIASES?							
Criteria used by peers for PRIN project ex-ante assessment	REVIEWERS: What were the most important criteria you used in the PRIN evaluation?	REVIEWED: What were the most important criteria with which you were assessed?	Difference *(t- test) -1,8*				
The Importance of the coordinator	5,39	7,19					
The Importance of the principal investigators	5,72	6,47	-0,75*				
Clarity of the project	6,94	6,18	0,77*				
The reviewer's interest in the project	2,87	4,5	-1,63*				
Interdisciplinarity	4,18	3,76	0,42*				
Social relevance/impact	3,99	3,49	0,5*				
Originality of the project	7,48	6,09	1,38*				
Methodological strength	6,64	5,27	1,37*				
Geographical localization	1,83	2,04	-0,21				





Code	Item	Physics	Chemistry	Economics	Social Sciences	
	Importance given to the coordinator				-	
1	Importance of the quality of the proposal	- +	- +	- +	- +	
	Impact	NA	NA	NA	+	
2	Average scores					
	Rating methods			-	-	
	Threshold minimum	-	-			
	International peers			NA	-	
3	Peers Interactions	- +	- +	- +	- +	
Note: +Pos	tive reporting; -Negative reporting; -+Nei	ther negative no	or positive; NA= r	not emerging issue		
	nilli A. (2017). Evaluation for the allocation (17) 26 (3): 190-198 doi: 10.1093/reseval,		esearch project fi	unding: Can rules impr	ove the peer review?	

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