

IRIS

THE CINECA'S CRIS SOLUTION

Caso de èxito en Italia

Federico Ferrario

Contents

- CINECA
- The Italian research ecosystem and IRIS
- IRIS features
- Key of success (other than luck)

What about CINECA?

NON PROFIT CONSORTIUM

- 67 italian universities
- 9 Research Institutions
- Italian Ministry of Education (MIUR)

Founded in **1969**, with more **700**

employees,

What about CINECA?

Today it is the largest Italian computing centre, one of the most important

World Wide Web shows the 500 most powerful commercially available computer systems known to us



CINECA is often been in the TOP

10

What about CINECA?



Scientific Research

High Performance Computing – FERMI: 5° in EU / 15° WW)
Scientific Visualization & Interactive Virtual Environments

We support activities of the scientific communities through:

- supercomputing and its applications
- qualified employees that assists researchers in the use of the technological infrastructure

What about CINECA?



Technological Innovation

Data Center

Information and Knowledge Management Services Health Care Systems

It is also concretely engaged in technological transfer activities for businesses and public administration.

it creates advanced systems for data management and analysis in the biomedical and health, manufacturing and large-scale retail trade sectors

What about CINECA?

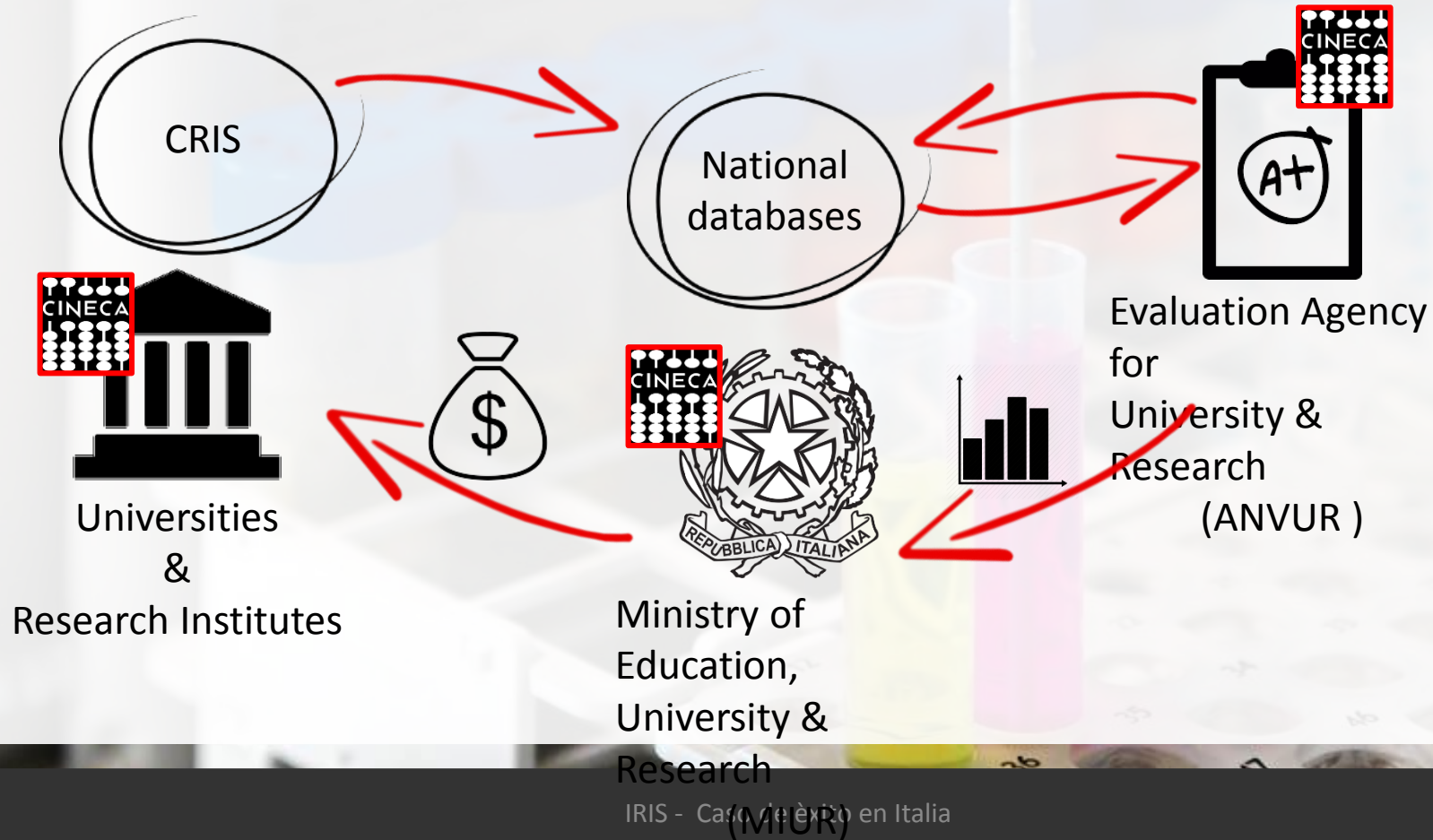


Higher Education

Solutions & Services for the University Administration
Services for the Ministry of Education, University and Research
(MIUR)

CINECA develops complex information systems to
support all the Higher Education

Italian research ecosystem: Institutional stakeholder



Italian research ecosystem: Universities



What's about you, IRIS?



Universities to do research need resources. They have:

- to build laboratories;
- to buy equipment;
- to hire staff.

Which are skills of my researchers, which equipment do we have and who use this equipment?

What's about you, IRIS?



With these resources,
Universities can:

- carry out projects
- sign contracts
- register patents...

Do you know success rate of your projects?
Do you know which workgroup is involved
in which projects?

What's about you, IRIS?



During the lifecycle of projects researchers write publications

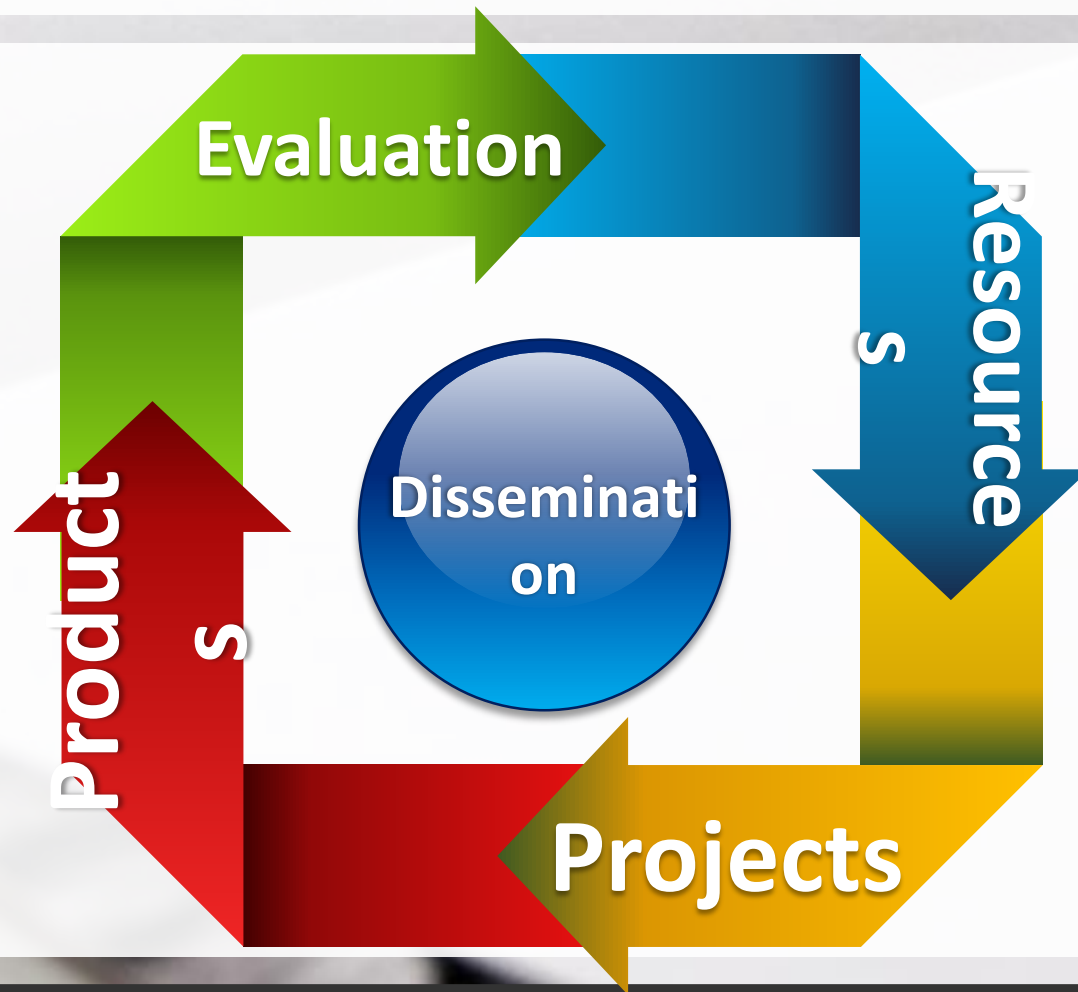
Do you know the average of publications for departments last two years?

What's about you, IRIS?



Now I have a huge database with resoucers, projects, patents, contracts, publications....
what I need more over?
I need to evaluate what I have done to define investments for the next cycle.

What's about you, IRIS?



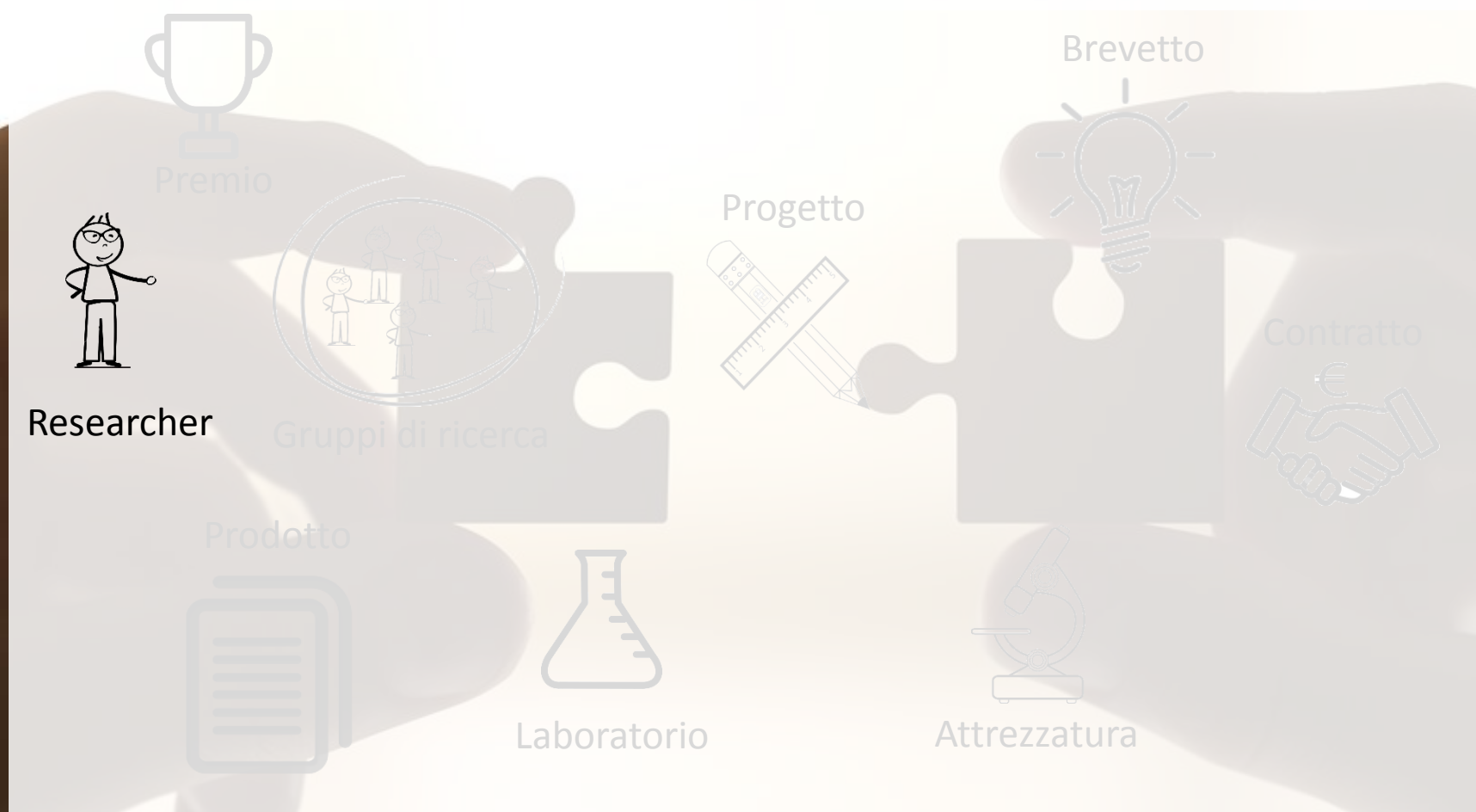
Anything else?

I surely want to increase visibility of my university to attract different stakeholders: students, industries, partners for grants... so I need a shop windows for my skills

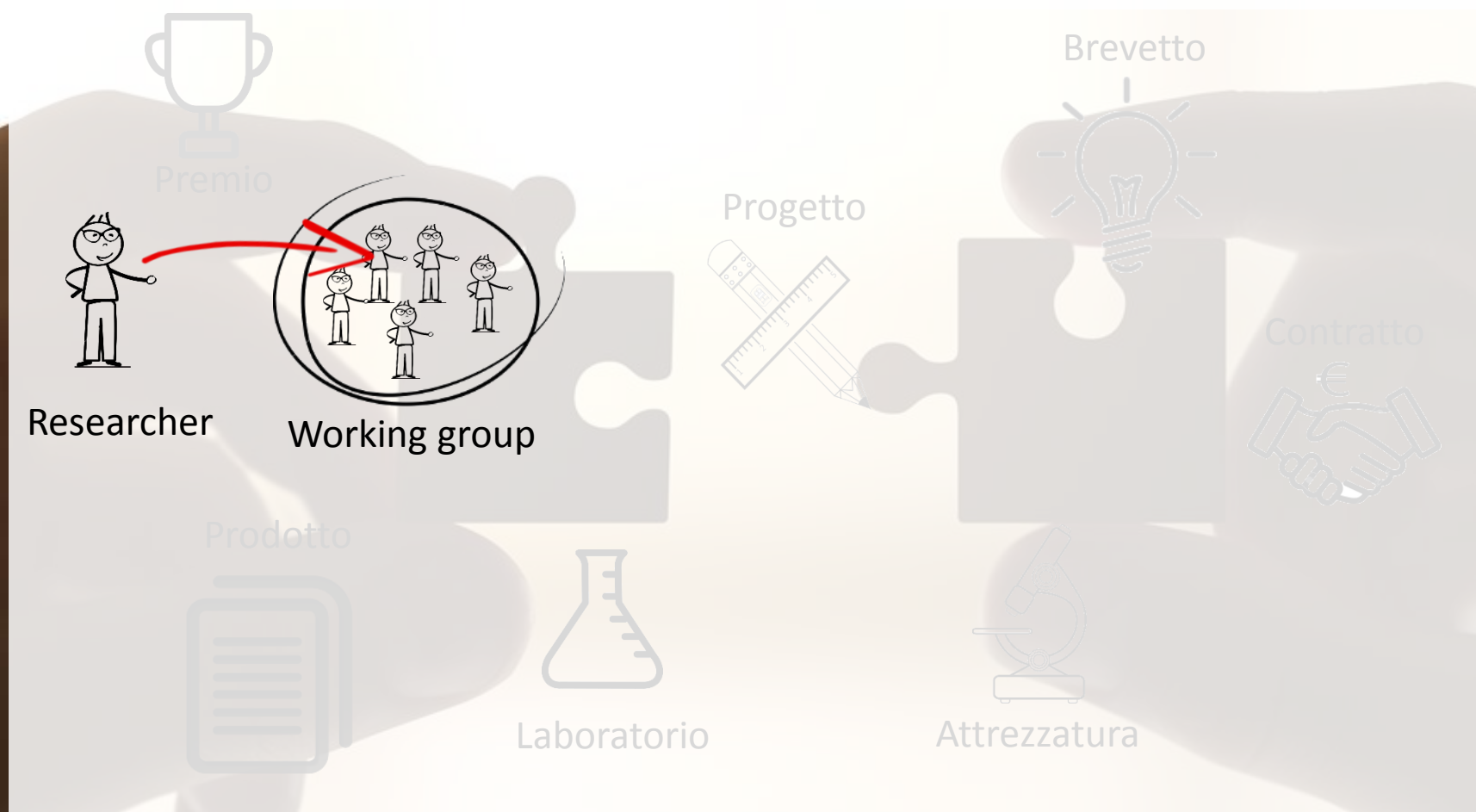
What's about you, IRIS?



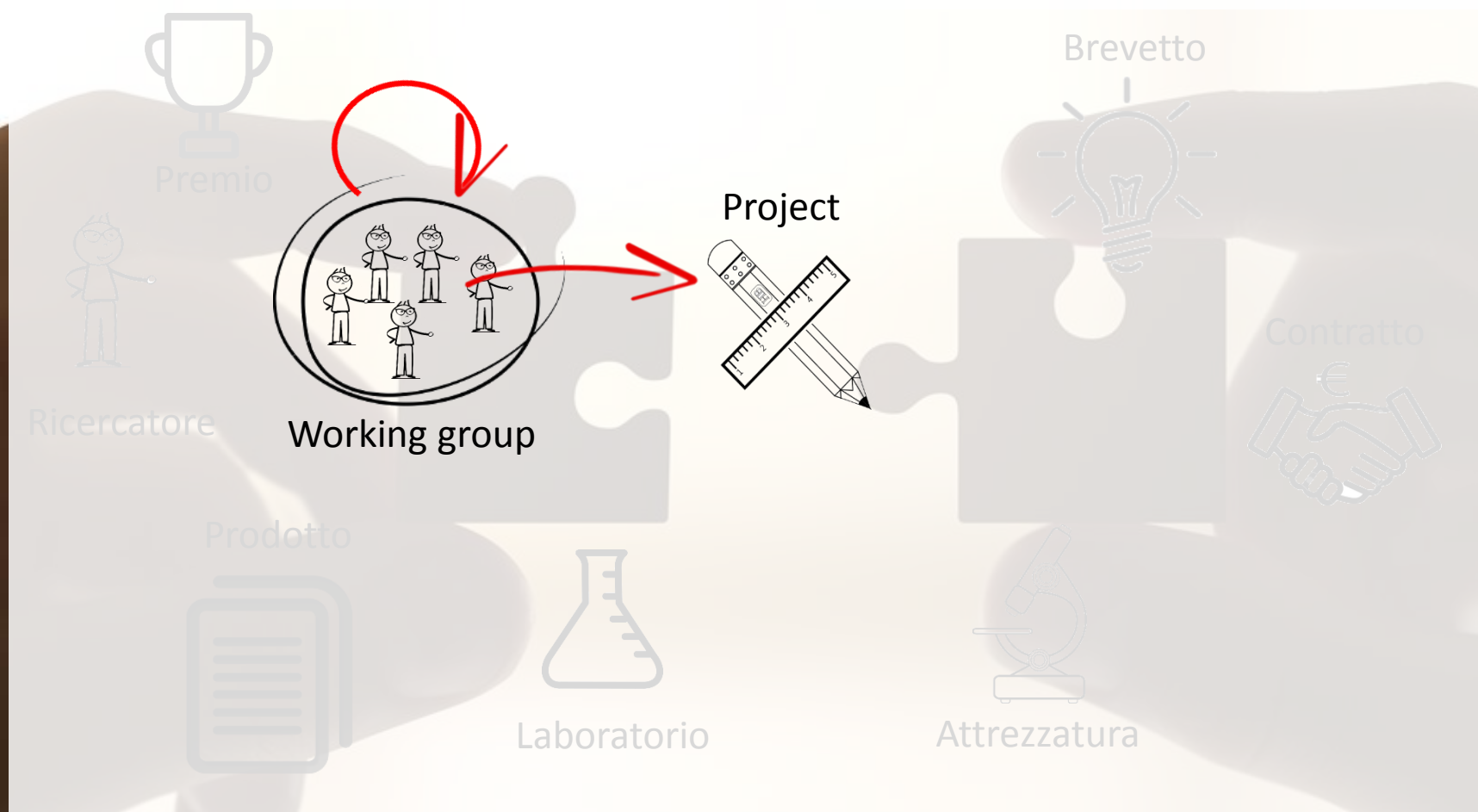
Bring to light relations between research entities



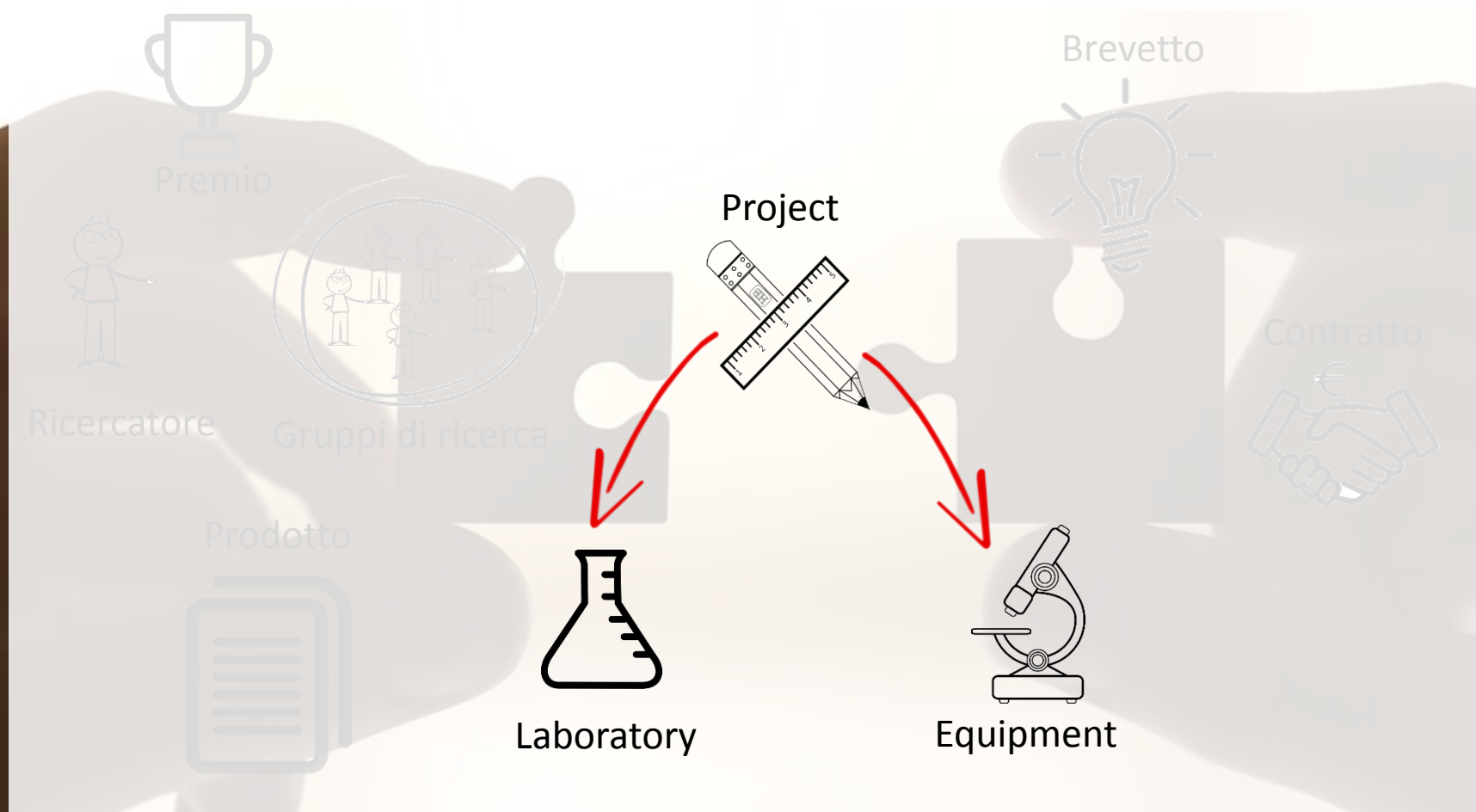
Bring to light relations between research entities



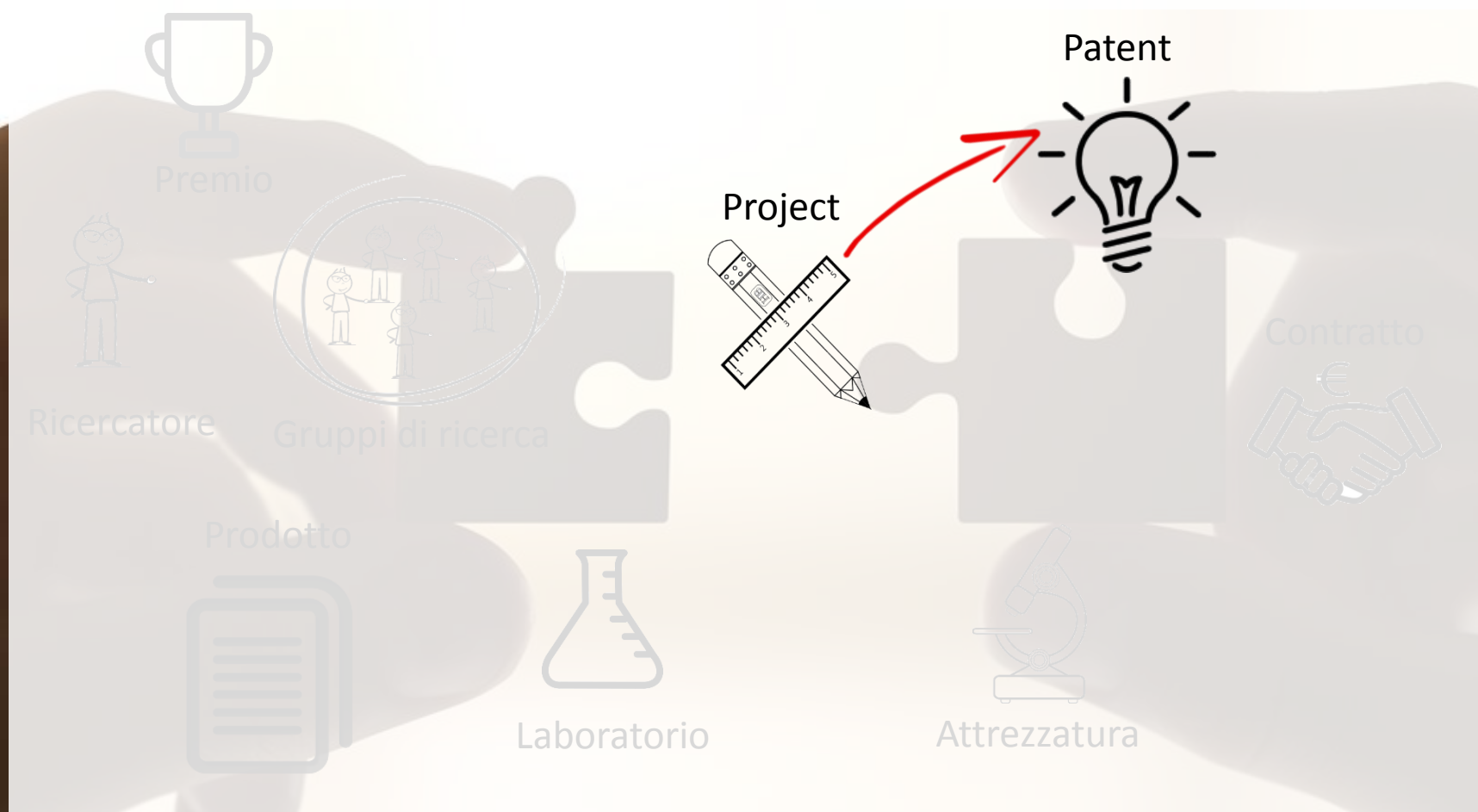
Bring to light relations between research entities



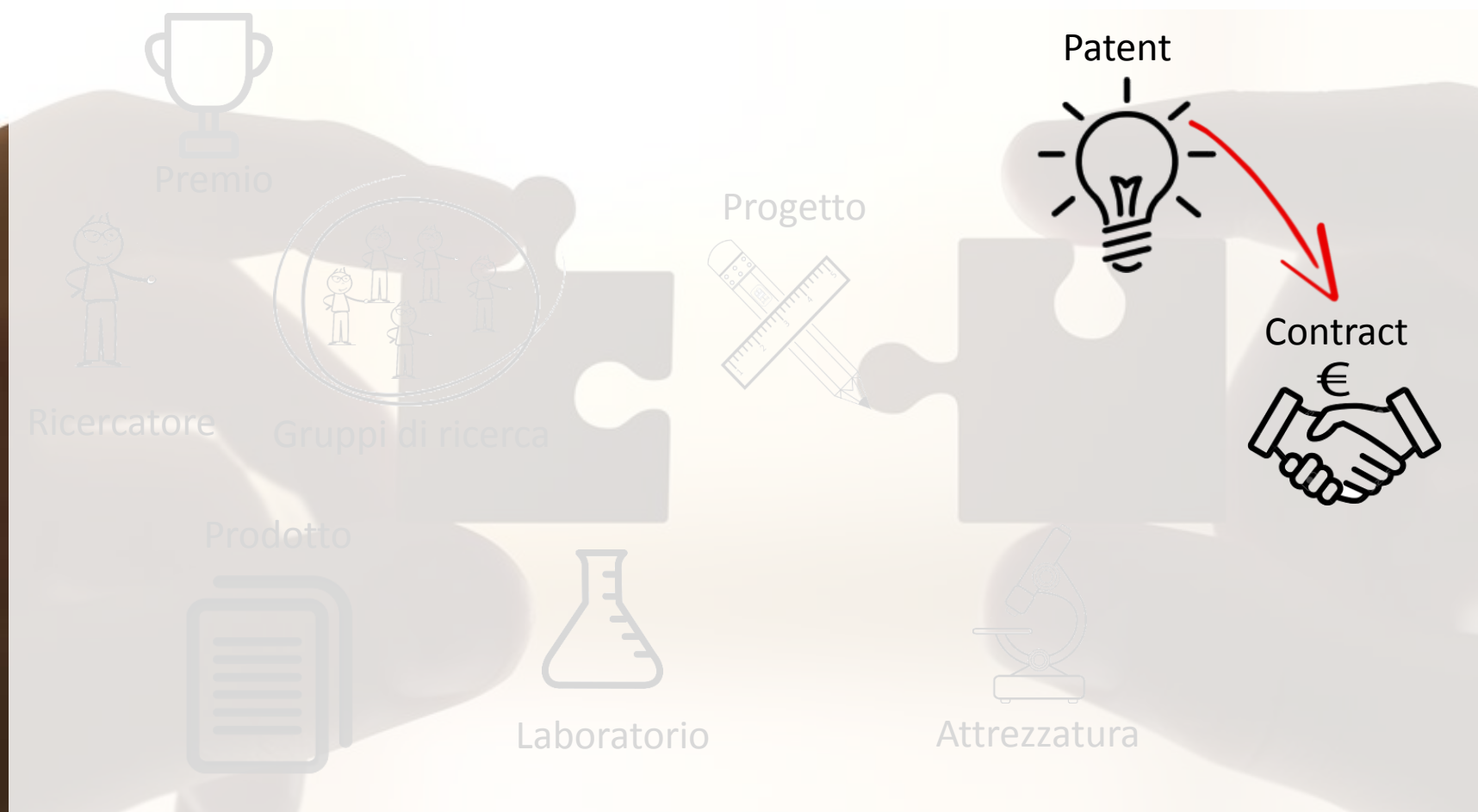
Bring to light relations between research entities



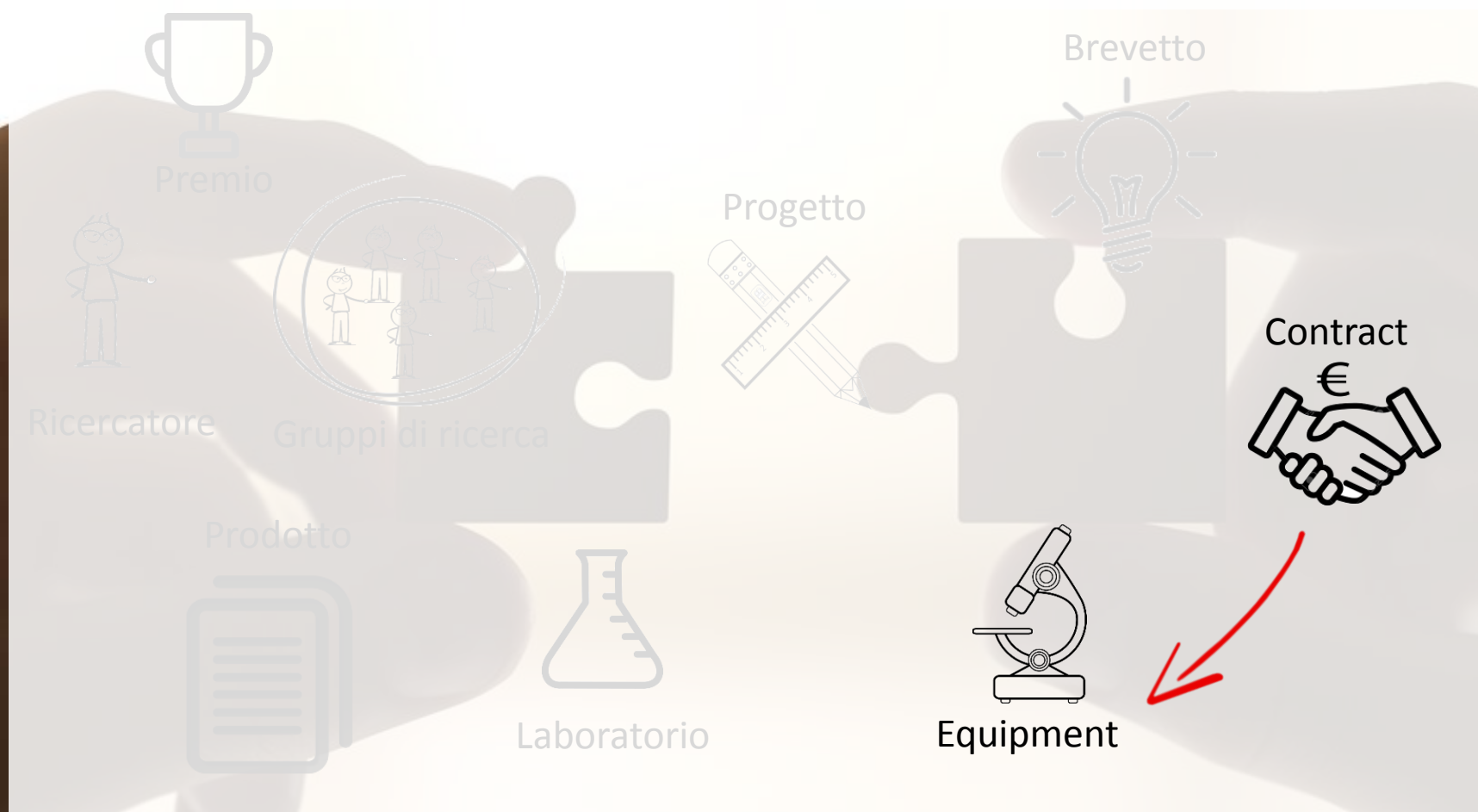
Bring to light relations between research entities



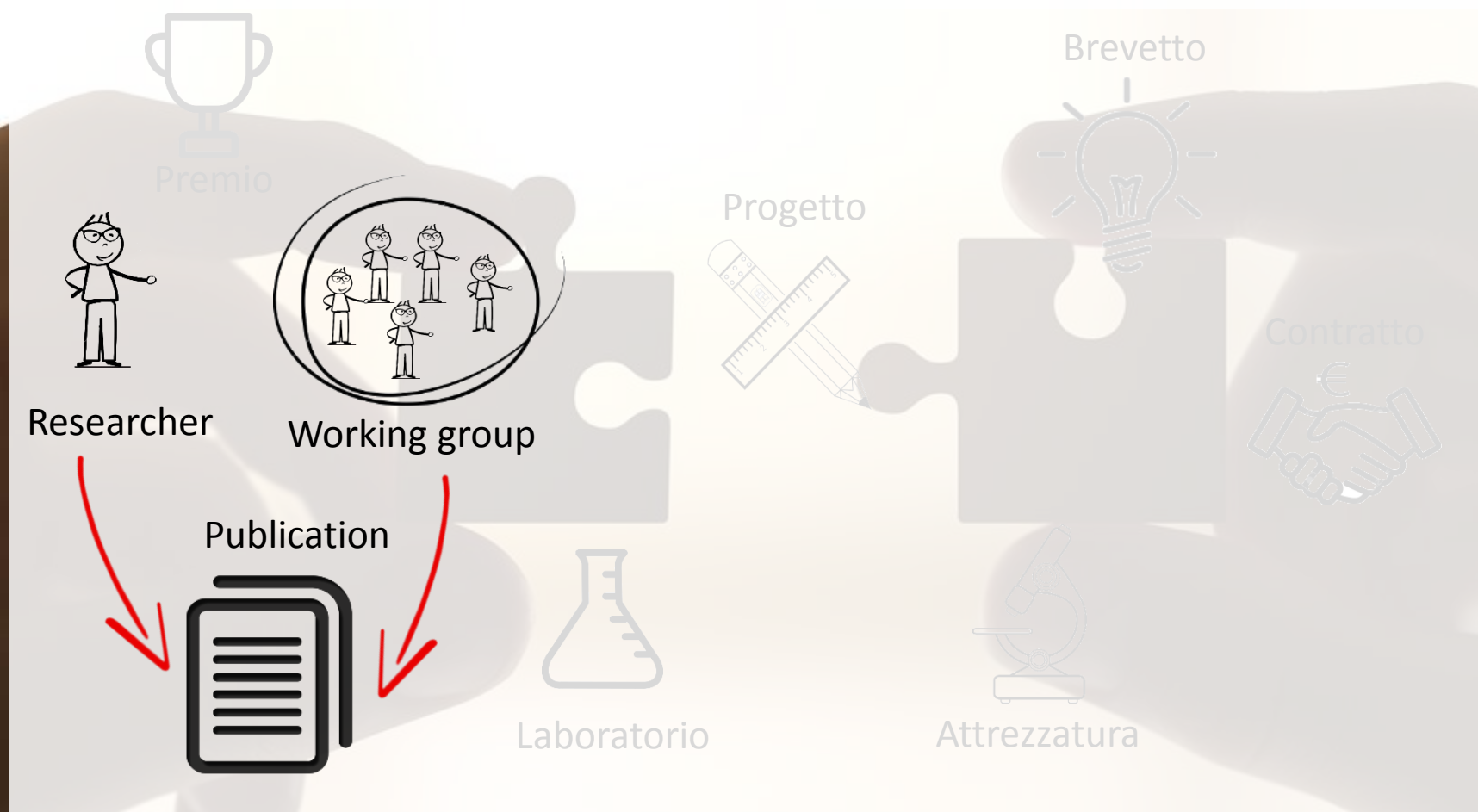
Bring to light relations between research entities



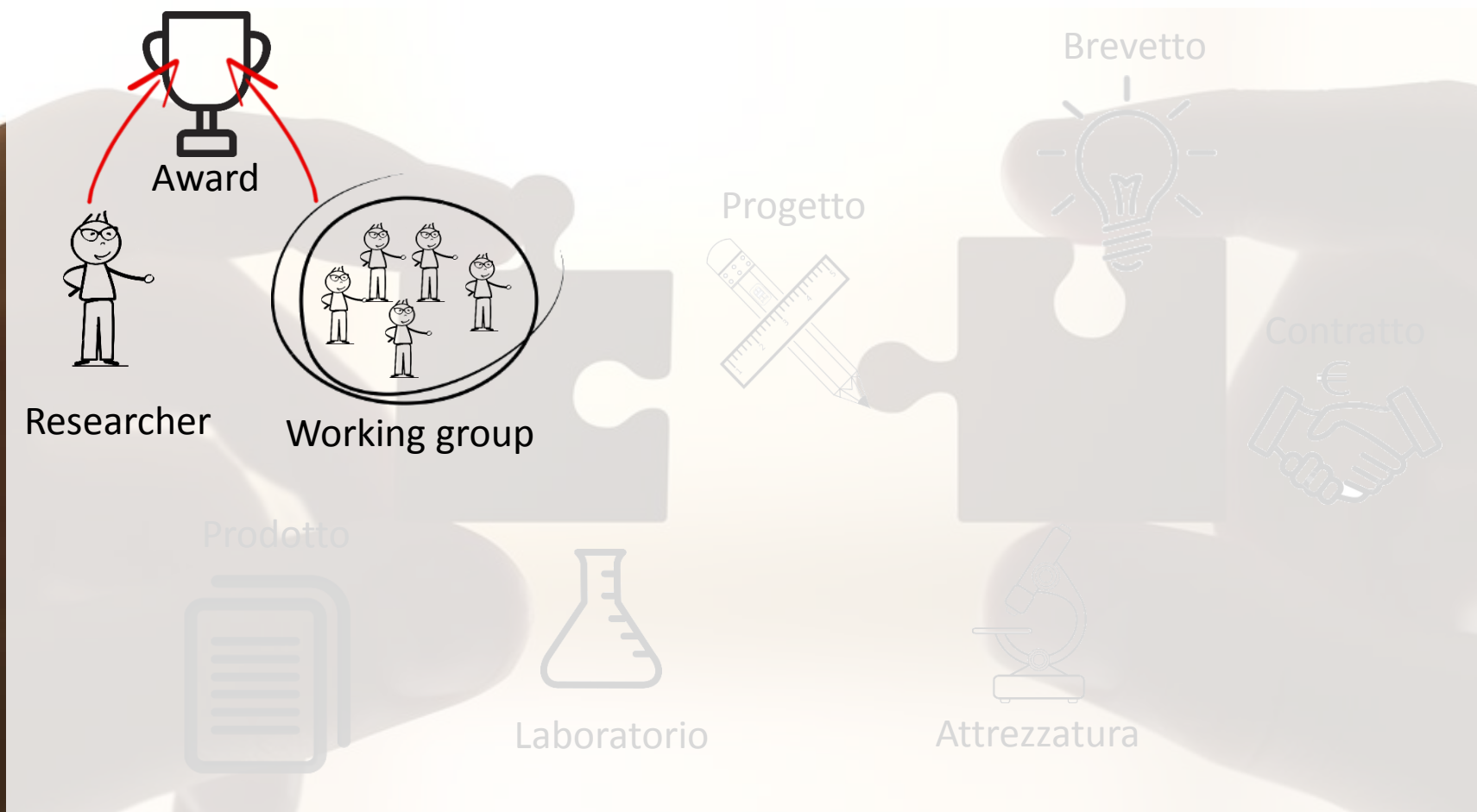
Bring to light relations between research entities



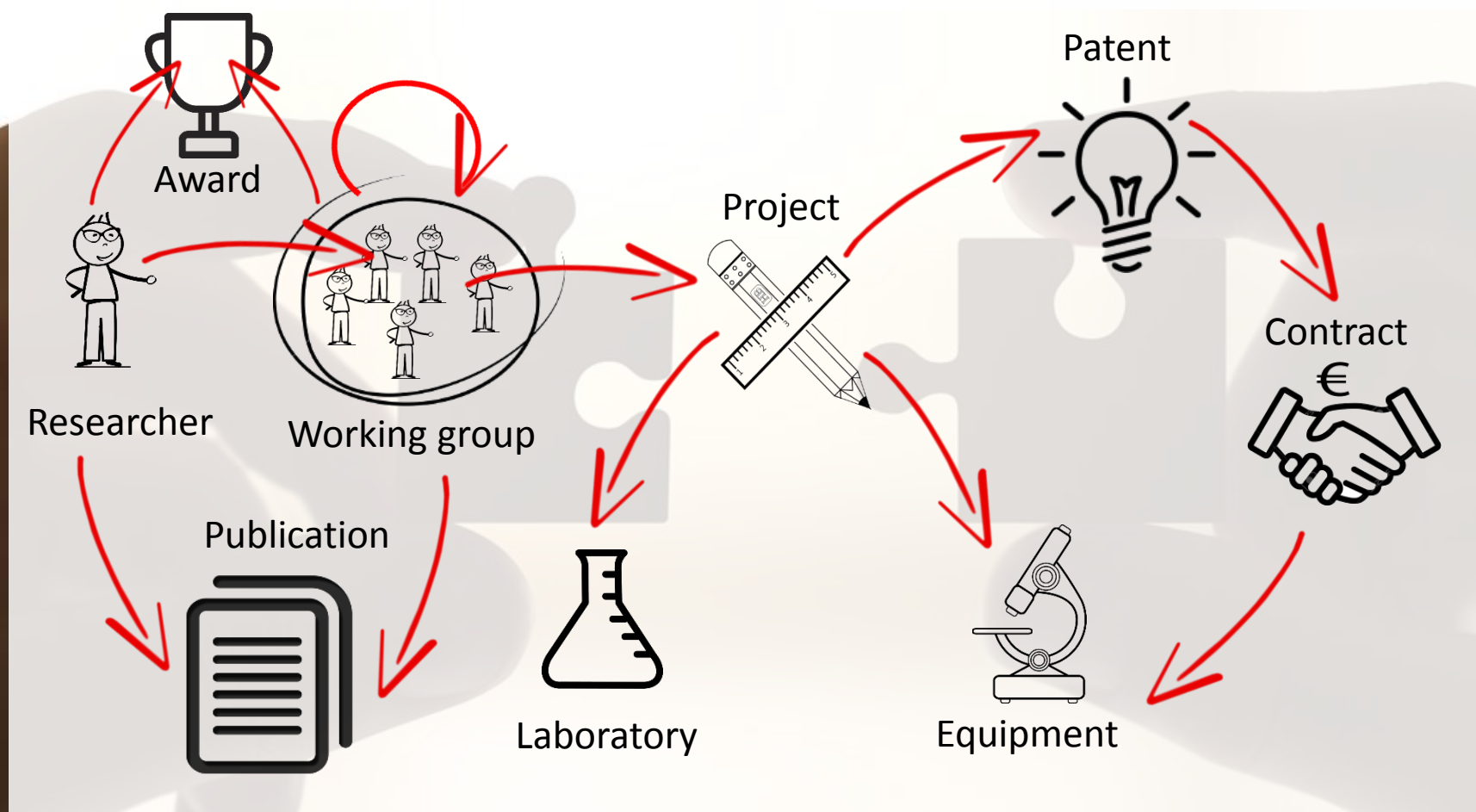
Bring to light relations between research entities



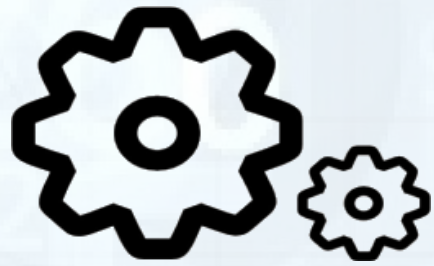
Bring to light relation between research entities



Bring to light relations between research entities



What is the coverage of IRIS in Italy?



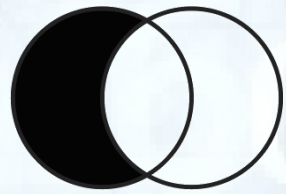
78 production environments

Among Universities and Research institutes

Growth rate of
40 % in the last 3 years



“78 universities” is just an absolute number



What is the coverage of IRIS in Italy?

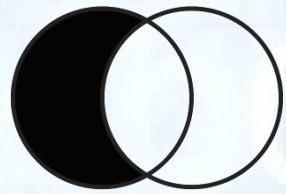
Based on University size(ANVUR 's classification)

100% Big Universities

90% Medium Universities

30% Small universities

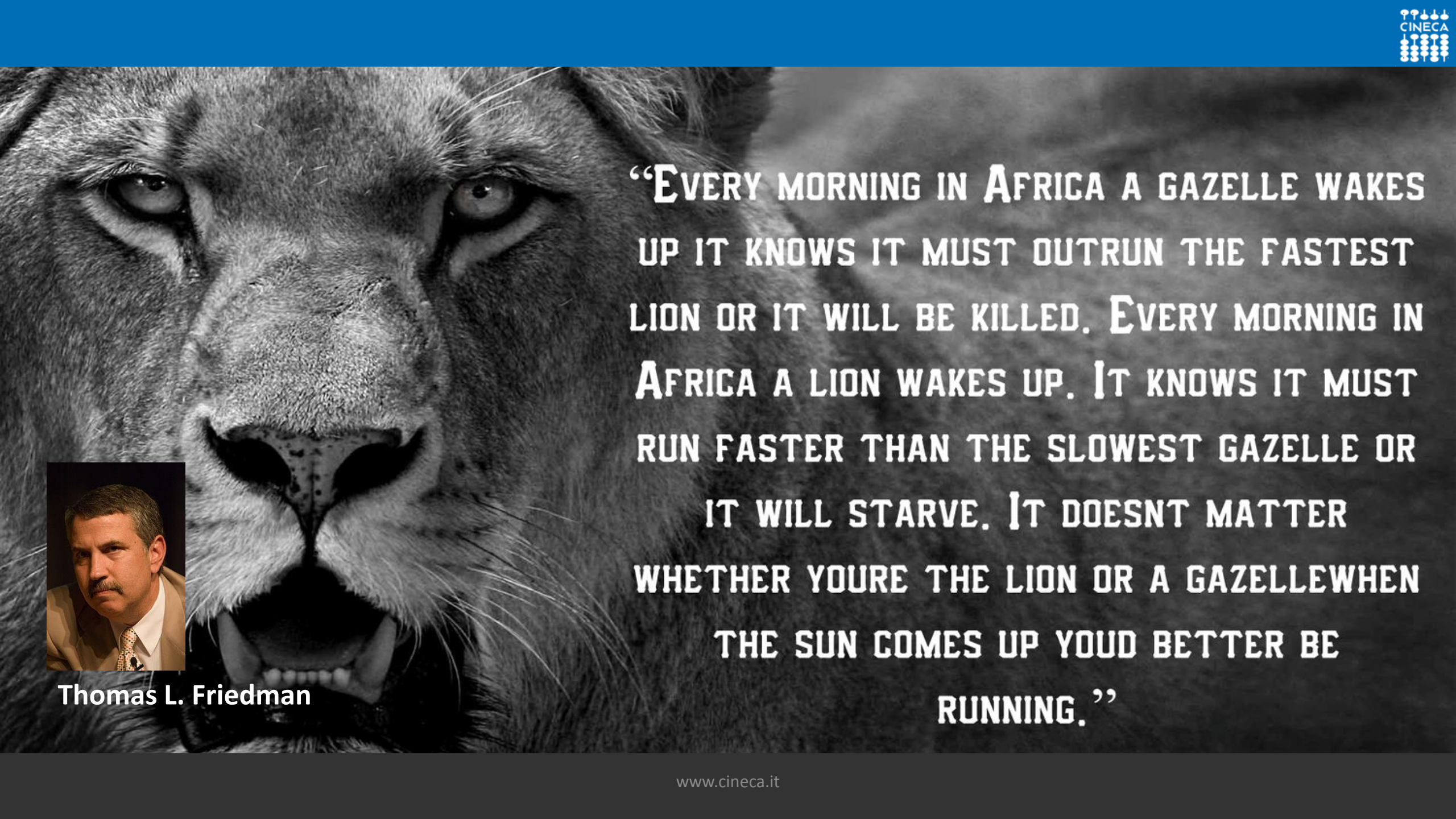
“78 universities” is just an absolute number



What is the coverage of IRIS in Italy?

Compared to professors and researchers registered in Ministry's databases of publications

96% IRIS coverage



“EVERY MORNING IN AFRICA A GAZELLE WAKES UP IT KNOWS IT MUST OUTRUN THE FASTEST LION OR IT WILL BE KILLED. EVERY MORNING IN AFRICA A LION WAKES UP. IT KNOWS IT MUST RUN FASTER THAN THE SLOWEST GAZELLE OR IT WILL STARVE. IT DOESNT MATTER WHETHER YOURE THE LION OR A GAZELLEWHEN THE SUN COMES UP YOUD BETTER BE RUNNING.”



Thomas L. Friedman

Real life in Italy...

Every morning in Italy, a researcher wakes up. It knows it must run faster than IRIS....

One way for 96% of researchers to manage scientific CV, projects, publications and more over.

Even if a researcher changes University or Research institutes he can do the **same things** in the **same way**

Real life in Italy...

Due to universities
trust That adopt IRIS



Stakeholders'
commitment

From universities to Ministry, from
researchers to Cineca's developers

We are building the Italian research
system!

Institutional Repository: Two faces



Dissemination

It is in charge of dissemination thanks to a public web portal and standard interoperability protocols

Management

It is in charge to manage publications with a powerful components for cataloguing, validating and configurable workflow



Institutional Repository: DO IT ONCE

YOU ONLY LIVE ONCE, BUT IF YOU DO IT RIGHT,
ONCE IS ENOUGH



Mary Jean West

I think should be a vision for IRIS

Institutional Repository: DO IT ONCE

For researcher IRIS, and CRIS in general, are an overhead of what they have to do

«I have to work on projects not on CRIS».



we have to
implement a CRIS
that is an overhead
but as lower as
possible

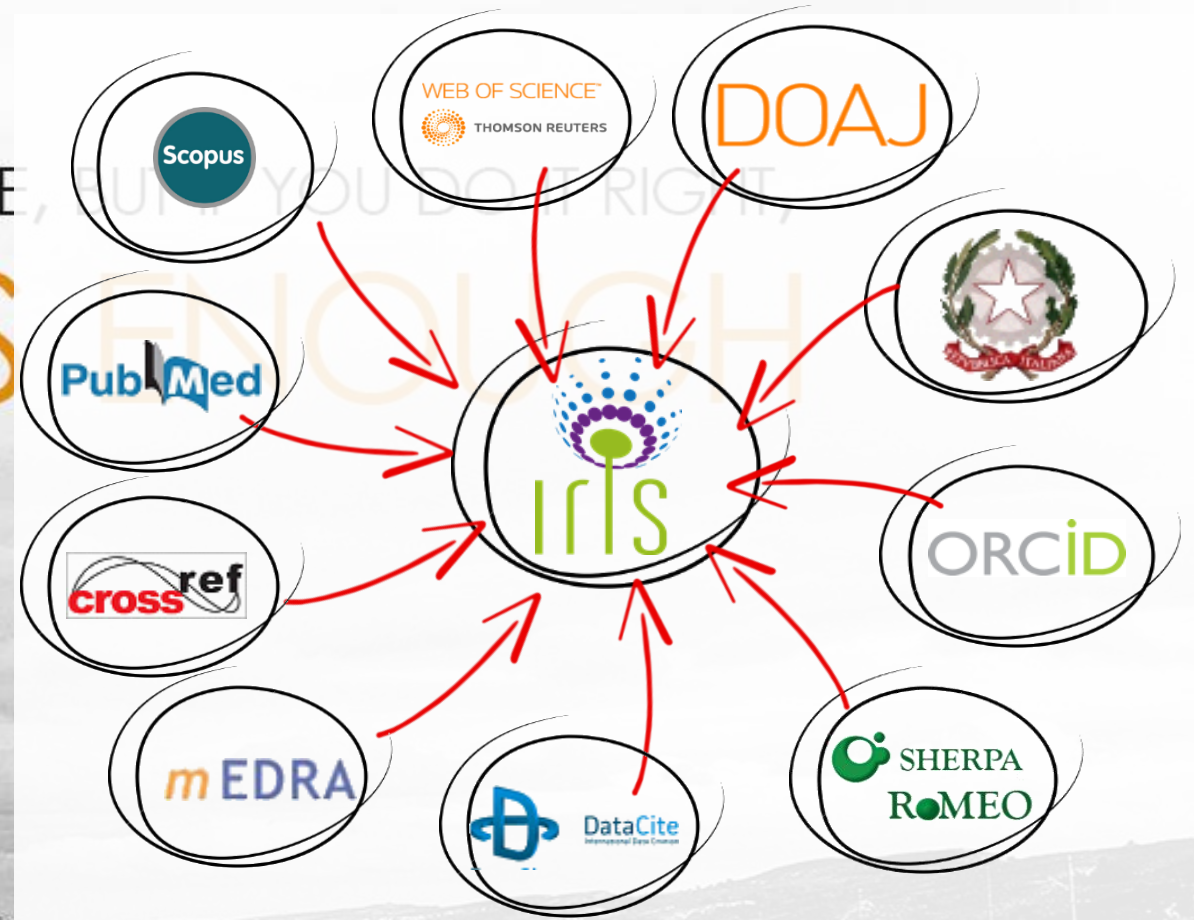
probably all of you that are
CRIS's manager have listen this
sentence



Institutional Repository: DO IT ONCE

One author loads publication in IRIS:

- In a automatic way
- for all authors in their University (IRIS analyzes authors' string and It tries to identify internal authors based on University HR registry);



 [Aiuto](#) 

[Desktop prodotti](#) / [Nuova registrazione](#)

Nuova registrazione: recupera i dati da servizi bibliografici esterni

[Modulo di ricerca](#) [Risultati](#)

Registrazione manuale

Ricerca libera da banche dati

Ricerca per identificativo

Compila la maschera utilizzando gli identificativi (il DOI è preferibile) e seleziona "Cerca". Il risultato è un elenco di pubblicazioni che afferiscono ai dati inseriti. Per proseguire nell'inserimento seleziona e importa i record.

SCOPUS ID:



ad esempio 2-s2.0-0000000117

DOI (Digital Object Identifier):

ad esempio, 10.1021/ac0354342

PubMed ID:





Aiuto

sei in: Visio

✓ 1 - Licenza

✎ 2 - Descrivere

✓ 3 - Descrivere

✓ 4 - Descrivere

✓ 5 - Descrivere

✓ 6 - Carica

○ 7 - Verifica

Invia: Descrivi questo prodotto

Tipologia corrente

01 - Articolo su periodico

Si prega di compilare le informazioni richieste per l'isperimento seguente. Nella maggior parte dei browser, è possibile utilizzare il tasto Tab per spostare il cursore sulla casella o il tasto successivo, per evitare di dover utilizzare il mouse ogni volta.

Il titolo non deve essere racchiuso tra virgolette né terminare con un punto.

✱ Titolo dell'articolo

Study of (W/Z)H production and Higgs boson couplings using $H \rightarrow WW^*$ decays with the ATLAS detector

In alternativa alla importazione della registrazione, si possono inserire i dati sugli autori manualmente. In questo caso occorre digitare o incollare nell'apposito box sottostante i nomi degli autori nel formato "Iniziale puntata del nome spazio Cognome" es "N. Rossi". Successivamente cliccare sul bottone "Elabora stringa autori", il sistema elaborerà la stringa e la renderà verde se riconosciuti come interni all'ateneo, in grigio se esterni e in arancione se necessario disambiguare il riconoscimento. Cliccando sul singolo autore è possibile: disconoscere un autore interno (se di colore verde), disambiguare più autori (se di colore arancione). Verrà inoltre calcolato automaticamente il numero degli autori e verrà mostrato il numero degli autori identificati (interni ed esterni) con la possibilità di integrare ulteriori informazioni.

✱ Autori

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PIZIO, CATERINA

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Mostra autori interni

Mostra autori esterni

Mostra autori da disambiguare

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1	ANDREAZZA, ATTILIO	ANDREAZZA, ATTILIO Qualifica: PROFESSORE ORDINARIO Afferenza: DIPARTIMENTO DI FISICA SSD: Settore FIS/01 - Fisica Sperimentale Settore concorsuale: 02/A1 - FISICA SPERIMENTALE DELLE INTERAZIONI Matricola: 015236 Email: attilio.andreaZZa@unimi.it	☐ Corresponding	Non specificato	N/A	
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3	CONSONNI		☐ Corresponding	Non specificato	N/A	

Institutional Repository: DO IT ONCE

The publication is sent everywhere is needed:

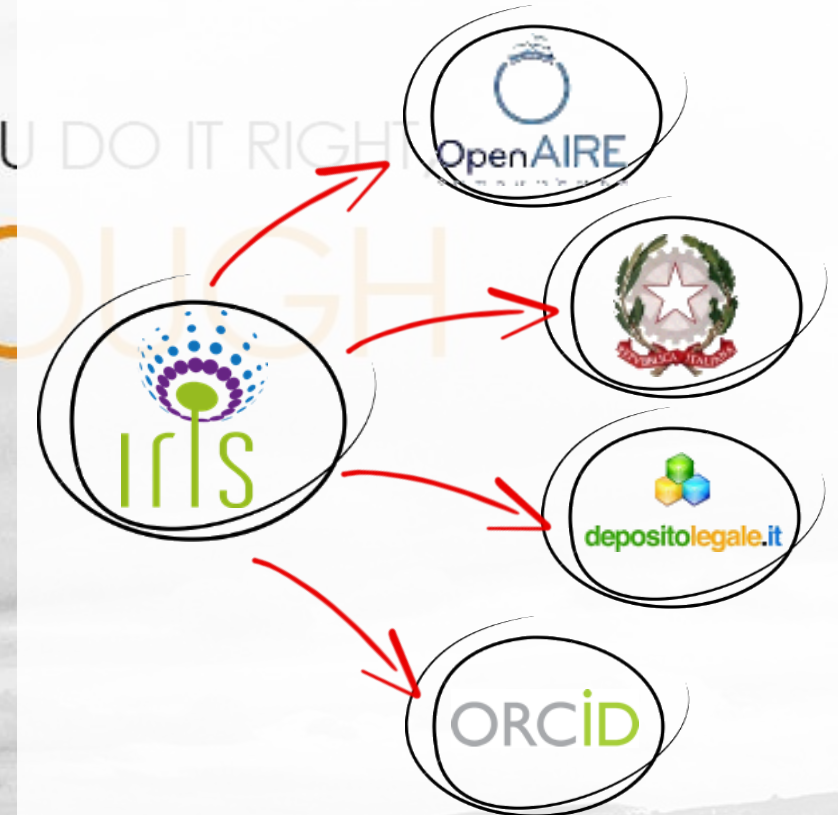
For instance, for ministry obligations in Italy:

- a publication, if it was funded by European community, have to be sent to European Community's Portal;
- must to be sent to Ministry Database, for evaluation;
- in case of PHD thesis must to be sent to the National database of PHD thesis.

For dissemination:

- to ORCID.
- to University's Institutional Website

• Etc.
25/01/2019



Institutional Repository: DO IT RIGHT

if you want to convince your researcher that loading publication into your CRIS is a value for him...

you have to "DO IT RIGHT"...**Enhancing experience**

If you give me 1..... I'll give you back 100

Data enrichment

Visibility

Decision support

Data Quality Assessment

Institutional Repository: DO IT RIGHT *Data enrichment*



Scheda breve

Titolo:

Autori:

Data di pubblica

Rivista:

Abstract

Handle:

Appare n
tipologie



See more details

- Tweeted by 3838
- Blogged by 24
- On 895 Facebook pages
- Mentioned in 54 Google+ posts
- Picked up by 28 news outlets
- Reddited by 15
- 5 readers on Mendeley
- 0 readers on CiteULike



Citazioni

PMC

SCOPUS

WEB OF SCIENCE

9

81

65

percentili forniti da SCOPUS

PLUMX

Usage

PDF Views: 1204
HTML Views: 9446
Abstract Views: 36

Captures

Readers: 44

Mentions

Comments: 11

Social Media

Tweets: 63
+1s: 5
Likes: 22
Shares: 15

Citations

Scopus: 8
CrossRef: 7

see details

CITAZIONI

IVISTA - METRICA SJR (PESATA)

IVISTA - METRICA SNIP (PESATA)

IVISTA - METRICA CITESCORE (PESATA)

2016

2017

2018

SCOPUS

FILE IN QUESTO PRODOTTO:

Institutional Repository: DO IT RIGHT *Visibility*

We have to change our point of view

Universities or Industries

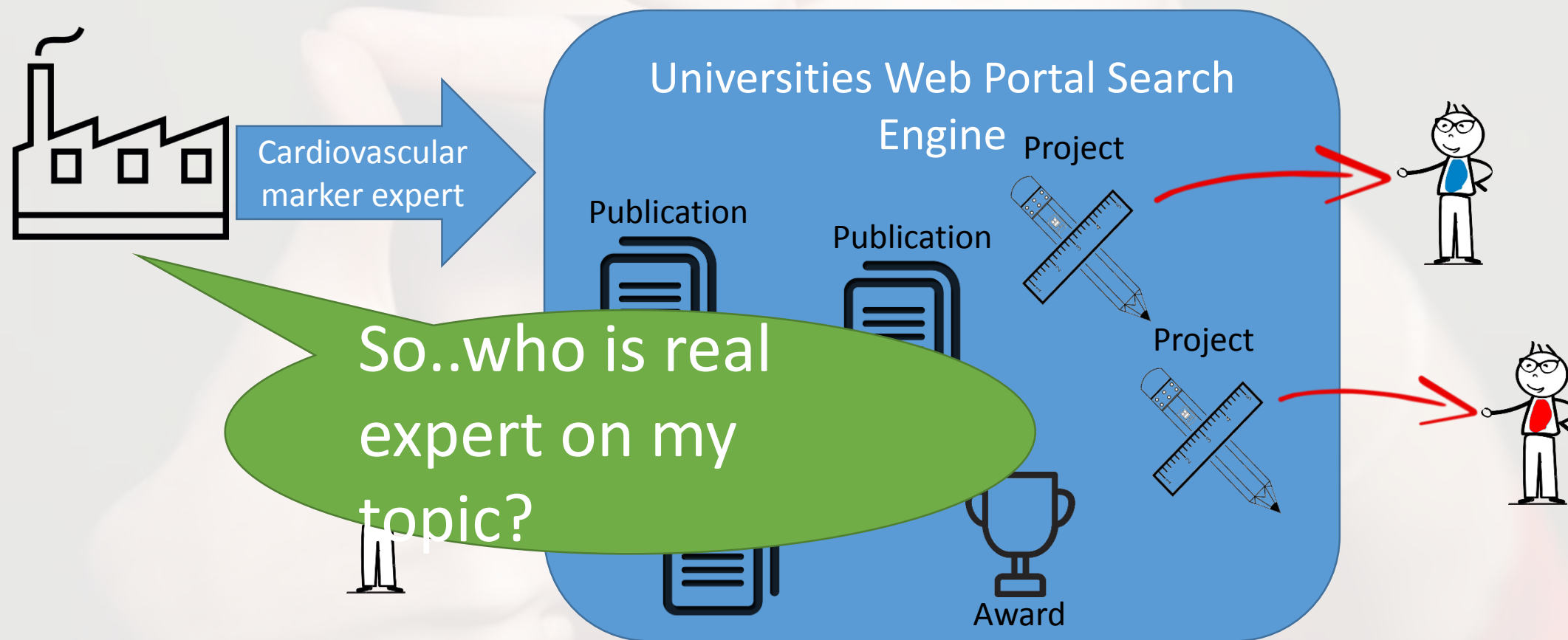
Don't ask:

“Give me a list of publications, projects that match my needs”

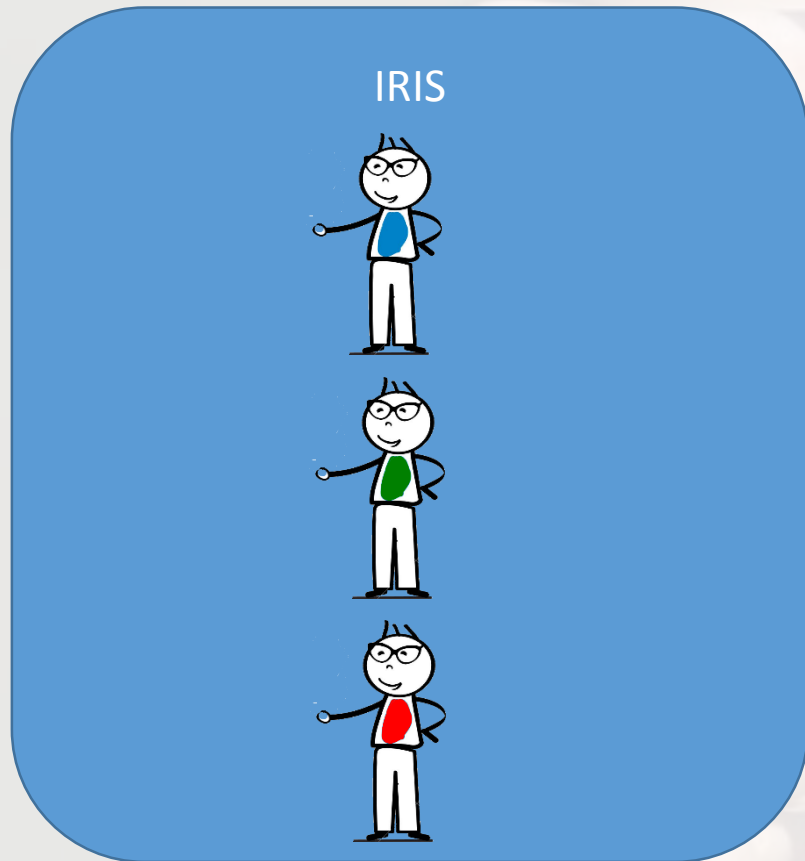
They ask:

“Tell me who can resolve my needs”

Institutional Repository: DO IT RIGHT *Visibility*

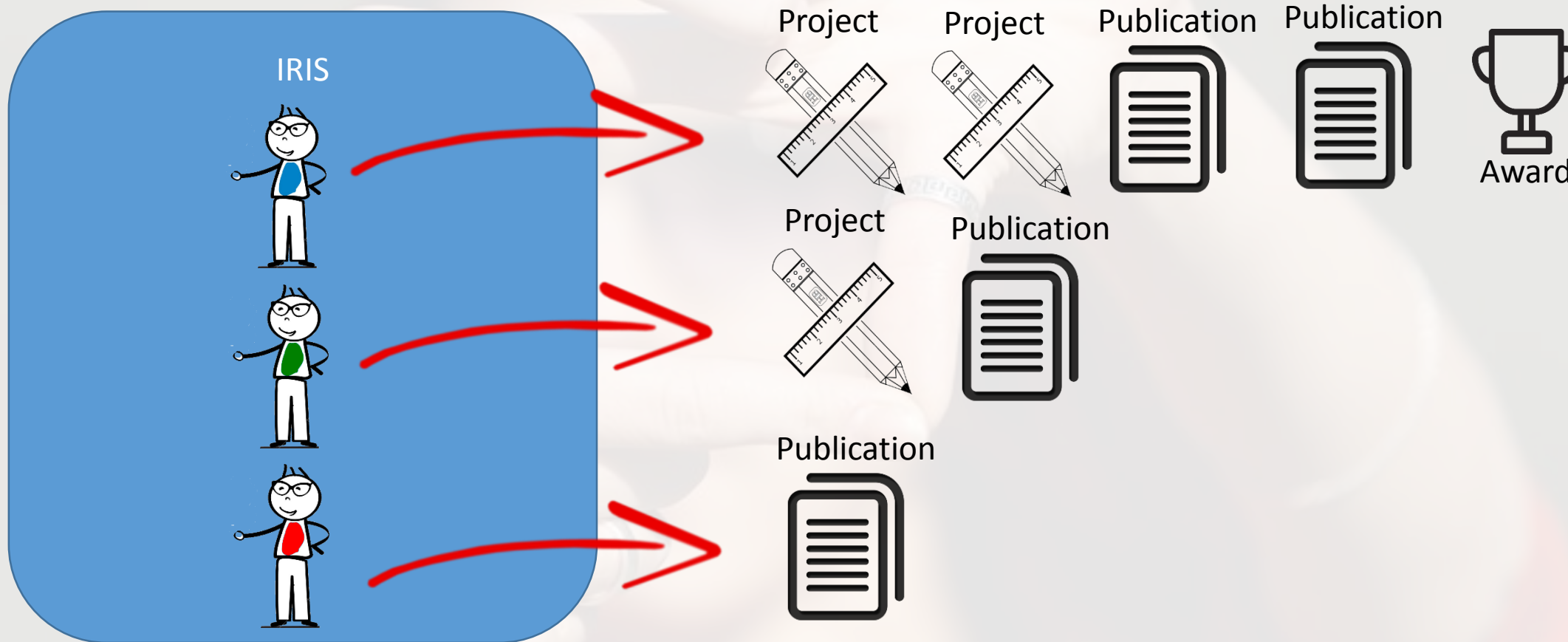


Institutional Repository: DO IT RIGHT *Visibility*



IRIS instead show the experts on that topic analyzing all publications and projects on topic but doesn't show single Object, IRIS shows people that has demonstrated skills based on their works.

Institutional Repository: DO IT RIGHT *Visibility*



UNIVERSITÀ DEGLI STUDI DI MILANO

Expertise & Skills

Research Output

Activities & Projects

Expertise & Skills

Search

DANIELE

Positions

1. Docenti, BIBLIOTECA DEL DIPARTIMENTO DI ECONOMIA, MANAGEMENT E METODI QUANTITATIVI
2. Docenti, DIPARTIMENTO DI ECONOMIA, MANAGEMENT E METODI QUANTITATIVI
3. Docenti, FACOLTA' DI SCIENZE POLITICHE

Research Areas

1. 13/A - ECONOMIA
2. 13/A1 - ECONOMIA POLITICA
3. 85 - ISTRUZIONE
4. AREA MIN. 13 - Scienze economiche e statistiche
5. Economia
6. SH1_11 - Labour economics, income distribution and poverty
7. SH2_1 - Social structure, inequalities, social mobility, interethnic relations
8. SH4_11 - Education: systems and institutions, teaching and learning
9. Settore P01A - Economia Politica
10. Settore SECS-P/01 - Economia Politica

Visualizations

Co-author Network

Map of Science

Affiliation

Publications

Research

Identity

Selected Publications

Academic Article

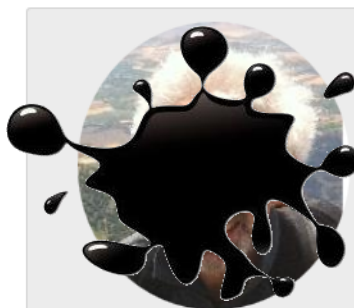
Year	Title	Altmetric
2017	Does random selection of commissioners improve the quality of selected candidates ? : an investigation in the Italian Academia. <i>ITALIAN ECONOMIC JOURNAL</i> . 2017	2

Research Output

Activities & Projects

Expertise & Skills

Search



Visualizations

 Co-author Network Map of Science

DANIELE

Positions ▾

1. Docenti, BIBLIOTECA DEL DIPARTIMENTO DI ECONOMIA, MANAGEMENT E METODI QUANTITATIVI
2. Docenti, DIPARTIMENTO DI ECONOMIA, MANAGEMENT E METODI QUANTITATIVI
3. Docenti, FACOLTA' DI SCIENZE POLITICHE

Research Areas

- | | |
|---|--|
| 1. 13/A - ECONOMIA | 2. 13/A1 - ECONOMIA POLITICA |
| 3. 85 - ISTRUZIONE | 4. AREA MIN. 13 - Scienze economiche e statistiche |
| 5. Economia | 6. SH1_11 - Labour economics, income distribution and poverty |
| 7. SH2_1 - Social structure, inequalities, social mobility, interethnic relations | 8. SH4_11 - Education: systems and institutions, teaching and learning |
| 9. Settore P01A - Economia Politica | 10. Settore SECS-P/01 - Economia Politica |

Affiliation

Publications

Research

Identity

Prizes & Awards

1. Chair at Georgetown University (Washington)

Other Research Activities

1. Attività di studio e ricerca relativa all'autovalutazione d'Istituto. principal investigator
2. Convenzione per Osservatorio Mercato del Lavoro principal investigator

Expertise & Skills

[Research Output](#)[Activities & Projects](#)[Expertise & Skills](#)


@uni.mi.it

Positions

- 1. Docenti, |
- MANAGEMENT
- 3. Docenti, |

Research

- 1. 13/A - ECO
- 3. 85 - ISTRU
- 5. Economia
- 7. SH2_1 - Sc
- relations
- 9. Settore P0

Visualizations

 Co-author Network

 Map of Science

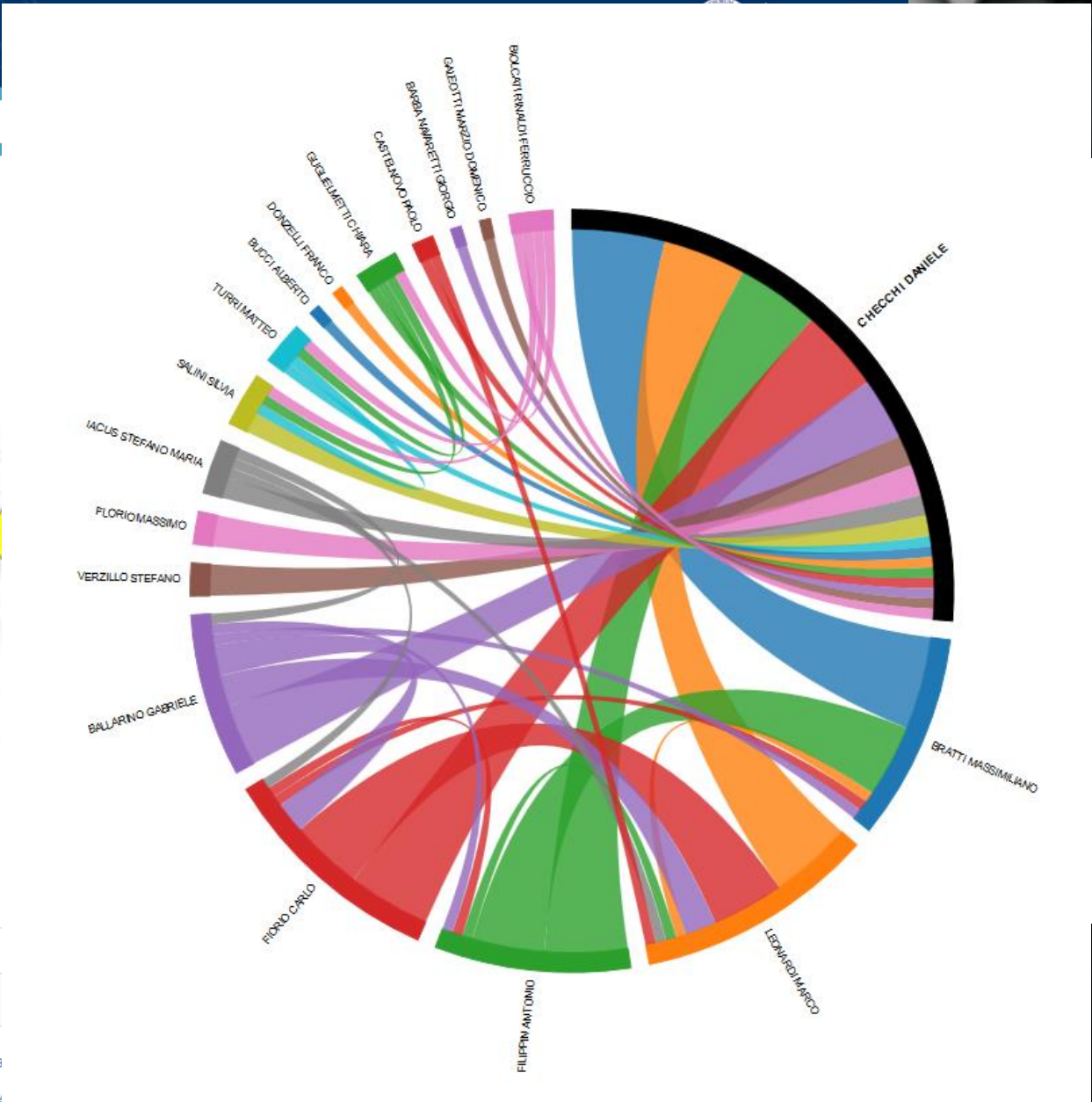
Affiliation

Prizes & Awa

- 1. Chair at G

Other Research Activities

- 1. Attività di studio e ricerca
- 2. Convenzione per Osser



Product catalogue: DO IT RIGHT *Data Quality Assessment*

“Researchers don’t have much time for CRIS”

but also librarians, department directors, and so on don’t have time to waste.

We also have to support these other CRIS' actors to verify and increase quality of data present into the CRIS.

Product catalogue: DO IT RIGHT *Data Quality Assessment*



Discover match on Bibliographic Databases

- It can find potential matches between products in IRIS and products in Scopus, WOS, Pubmed
- It can compare IRIS records with external record and merge them to obtain a complete and validated record

Discover mismatch between fulltexts and publisher's policies

- It can help authors to identify correct policy during submission
- It can help repositories admin to correct potential policy violation



Identify duplicated records

- During submission by authors, to prevent duplication
- Offline, to allow repository admin to improve quality

Product catalogue: DO IT RIGHT *Data Quality Assessment*

Researcher is not an expert on publisher's policy: often he is afraid to violate publisher's policies

Can I load preprint or editorial version?

Do fulltext be visible to everyone or only to repository manager?

Ok...I don't load fulltext



✓ 1 - Licenza

✓ 2 - Descrivere

✓ 3 - Descrivere

✓ 4 - Descrivere

✓ 5 - Descrivere

6 - Carica

7 - Verifica

8 - Completato

Invia: carica un file

Si prega di inserire il nome del file sul disco rigido locale corrispondente al prodotto. Se si fa clic su "Sfoglia ...", apparirà una nuova finestra in cui è possibile individuare e selezionare il file sul disco rigido locale.

Si prega di notare, inoltre, che il sistema IRIS è in grado di preservare il contenuto di alcuni tipi di file meglio di altri tipi.

File del documento:

Selezionare un file...

Seleziona la tipologia per questo file

Tipologia

Post-print (versione accettata dall'editore)

Hai deciso di non aderire alla policy Open Access di ateneo

Il file verrà archiviato solo per finalità interne e non sarà consultabile pubblicamente.

Invia il file al "Sito Docente", se stai caricando un PDF dovrai selezionare Sì o No. Attenzione: il Sito Docente accetta solo file PDF di dimensione inferiore a 10 Mb, per file di dimensione superiore è quindi necessario indicare "No" come scelta di upload

Trasferimento sito docente:

N/A

Si prega di dare una breve descrizione del contenuto di questo file, per esempio "Articolo principale", o "tabelle dei dati sperimentali".

Descrizione del file:

Inserisci note per questo file

Note

Seleziona publisher e copyright

Publisher copyright

Nessun publisher

Database di SHERPA/RoMEO per le policy degli editori

Tutte le informazioni in SHERPA/RoMEO sono corrette al meglio delle nostre conoscenze, ma non possono essere usate per scopi legali. SHERPA non può essere ritenuta responsabile per il riutilizzo dei dati di RoMEO, o per interpretazioni alternative che derivano da queste informazioni.

Il database SHERPA/RoMEO fornisce i seguenti dati per la rivista che hai inserito.

Rivista: Advanced Drug Delivery Reviews (ISSN: 0169-409X)

Editore: Elsevier

Pre-print dell'autore: ✓ L'autore può archiviare il pre-print (cioè pre-referaggio)

Post-prints dell'autore: ✓ L'autore può archiviare il post-print (cioè bozza finale post-referaggio)

Versione dell'editore: ✗ l'autore non può archiviare la versione dell'editore/PDF

Condizioni generali:

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- Author's post-print on author's personal website immediately
- Author's post-print on open access repository after an embargo period of 12 months
- Permitted deposit due to Funding Body, Institutional and Governmental policy or mandate, may be required to comply with embargo period of 12 months
- Author's post-print may be used to update arXiv and RePEC
- Publisher's version/PDF cannot be used
- Must link to publisher version with DOI
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RoMEO: Questo è un editore green in RoMEO

colore	policy di archiviazione
verde	può archiviare pre-print e post-print o una versione dell'editore/PDF

Dietro le ali che fuggono [2 item(s)]

Tipologia: 3.8 Traduzione di libro

Item ID: 86327

Handle: 11386/4663283

Ultima modifica: 2017-05-30 01:56

Status: definitivo

Responsabile del dato: RIPA, Valentina

Title: Dietro le ali che fuggono.

Date issued: 2014

Tipologia: 5.2 Curatela con ISBN

Item ID: 112586

Handle: 11386/4686349

Ultima modifica: 2017-06-20 10:41

Status: definitivo

Responsabile del dato: RIPA, Valentina

Title: Dietro le ali che fuggono

Date issued: 2014

Social Preferences and the Third Sector: Looking for a Microeconomic

Tipologia: 2.1.2 Articolo su libro con ISBN

Item ID: 26114

Handle: 11386/2282330

Ultima modifica: 2017-05-24 10:42

Status: definitivo

Responsabile del dato: NESE, Annamaria

Title: Social Preferences and the

Date issued: 2009

Tipologia: 2.1.2 Articolo su libro con ISBN

Item ID: 110067

Handle: 11386/4684154

Ultima modifica: 2017-09-26 05:25

Status: definitivo

Responsabile del dato: NESE, Annamaria

Title: Social Preferences and the

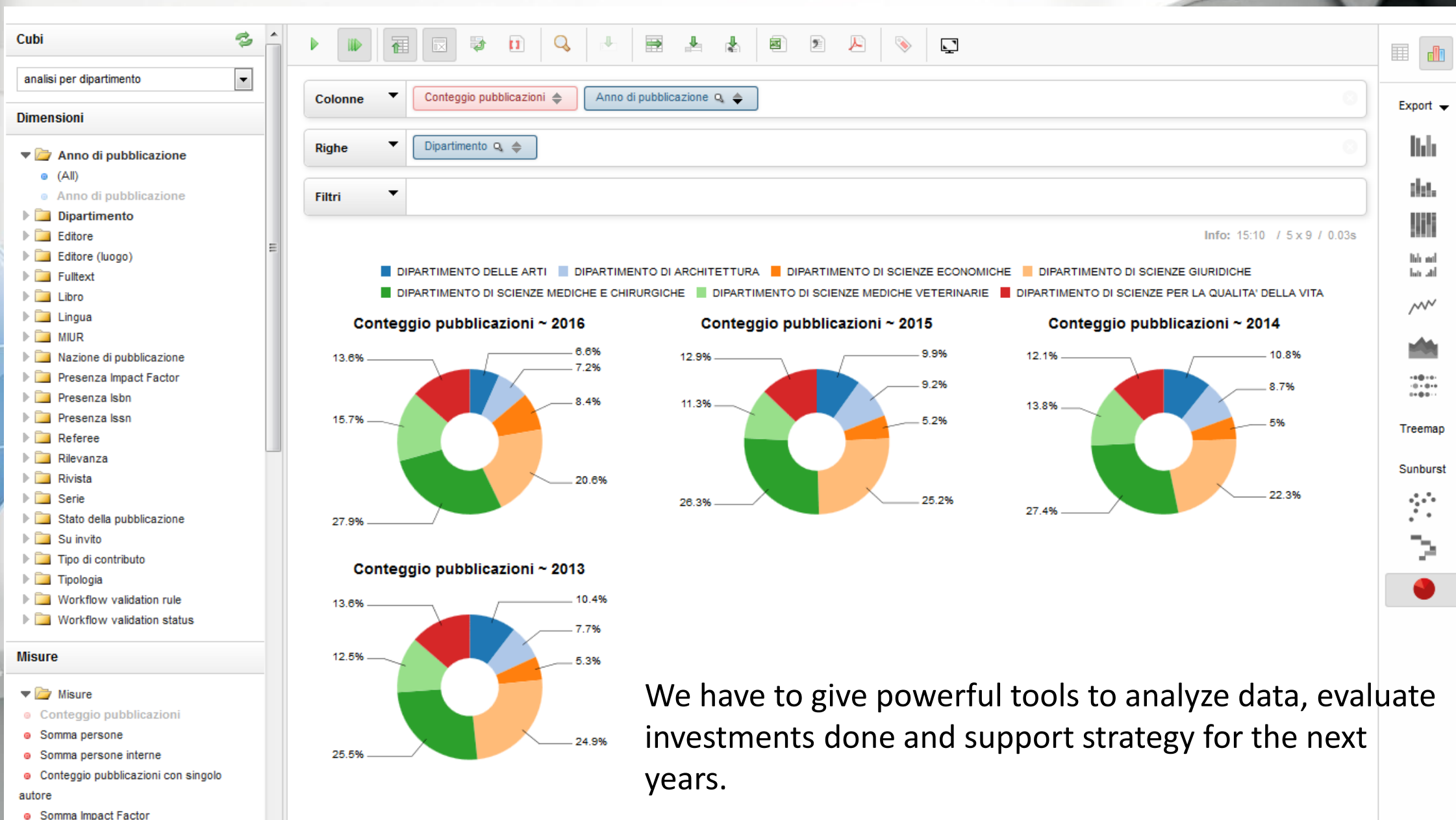
Date issued: 2009

2014			86327
BREVE DESCRIZIONE DEI CONTENUTI(ABSTRACT) (DC.DESCRPTION.ABSTRACTITA)			112586
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Product catalogue: DO IT RIGHT *Decision support*

We have to support the virtuous process that transform data into information, information in knowledge that becomes strategy.





How it was possible to achieve this ambitious goal?

Answer 1:
«time is money»



Give to researchers/admin tools that return
maximum results with **minimum**
effort

Question

**Do you know your
researchers' prestige and
their curricular activities?**

«Scientific CV»



Awards

National and international research award



Topic of Interests

ERC, ISI-CRUI, Ateco, Free keywords (incremental), research line;

Standard Italian Taxonomies

- Involvement in academies, scientific associations at national and/or international level
- Management or scientific responsibility in research institutions;
- Phd tutoring
- Involvement in Editorial board
-

Question

Where and how research is done in your Institution?



Equipment

Laboratories



And much more...



Agreements

Projects and Activities



Patents

And much more...



Public Engagement

Incoming & Outgoing



Working Group

Question

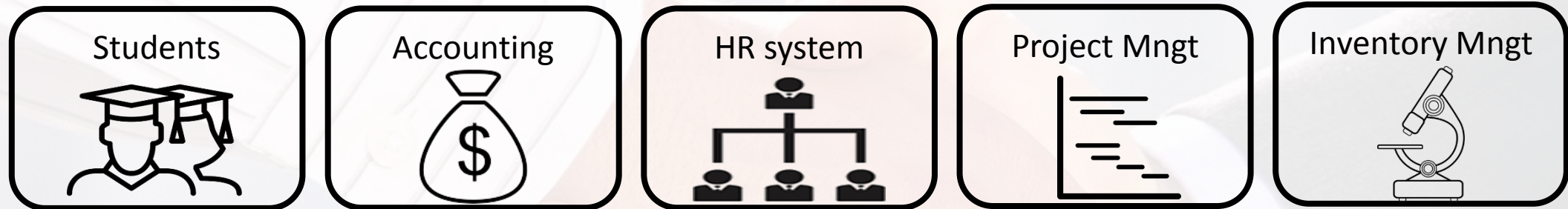
How it was possible to
achieve this ambitious
goal?

Integrations with other Universities systems

CINECA is pervasive not only with IRIS but with the whole suite to manage all Universities processes



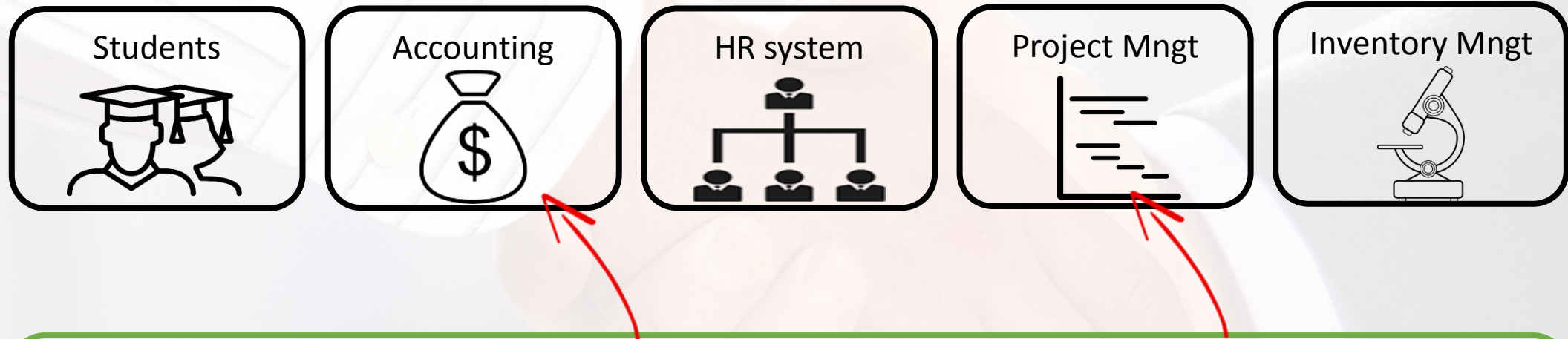
Integrations with other Universities system



PhD Thesis are automatically loaded into catalogue for dissemination



Integrations with other Universities system

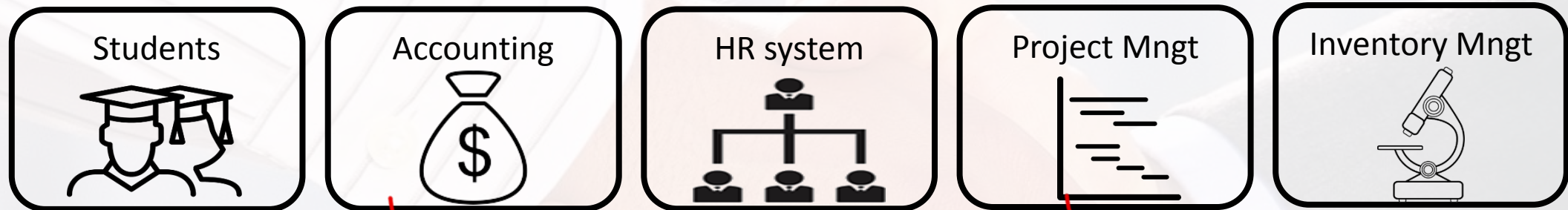


Project idea, proposal and financing iter are managed by IRIS.



When is founded IRIS initialize Accounting and PJM Systems

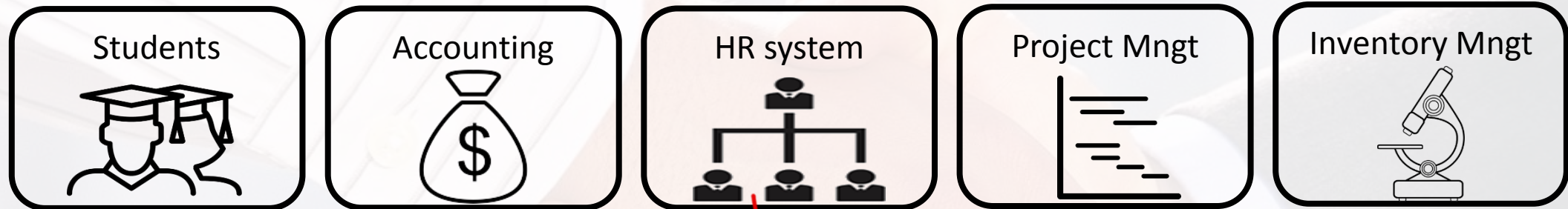
Integrations with other Universities system



Project's Budget variations or workgroup variation should change project data or status in IRIS



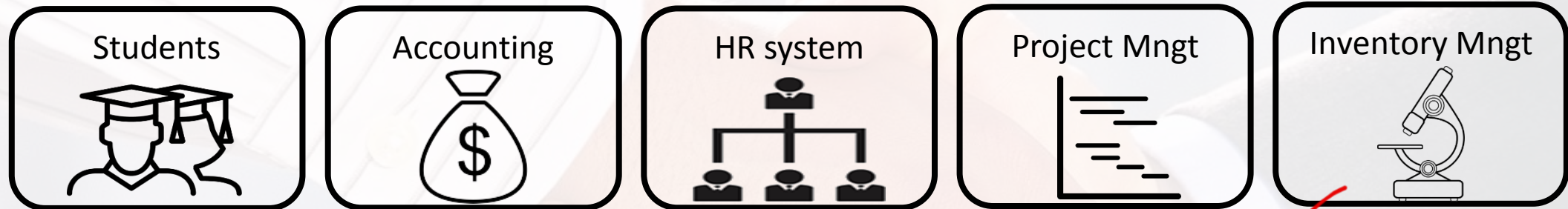
Integrations with other Universities system



IRIS takes all information about researchers and professors from HR system and enriches them with research attributes



Integrations with other Universities system



IRIS takes information about equipment from inventory system and enriches them with research attributes



FULFILMENT of Ministry obligations

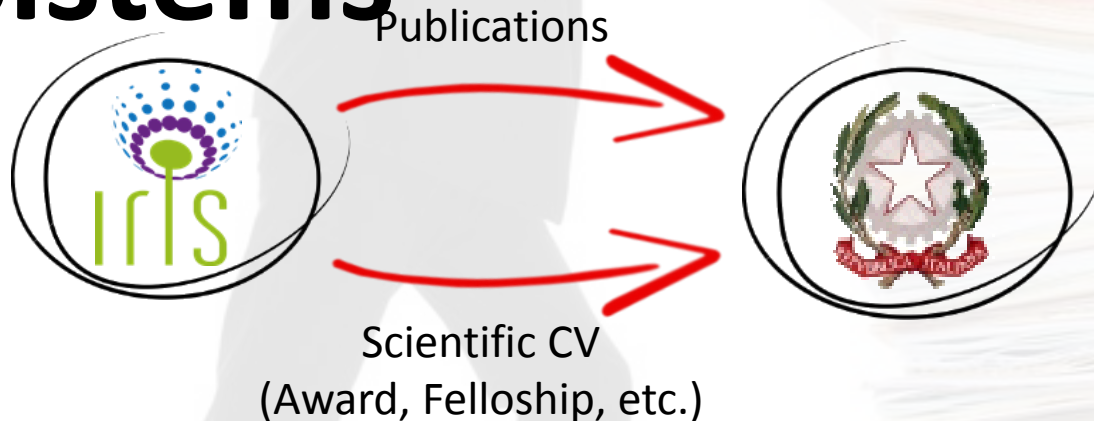
Periodically Ministry and Evaluation Agency organize an evaluation exercise:

- Every 4 year: National Evaluation Exercise (VQR)
- Every Year: National Evaluation Exercise - for Departments (SUA-RD)
- Every 4 months: Evaluation for researcher's threshold (ASN)

Based on these evaluations Ministry define allocation of funds for Universities and define threshold for researchers.

FULFILMENT of Ministry obligations

Live sincronization with Ministry Systems

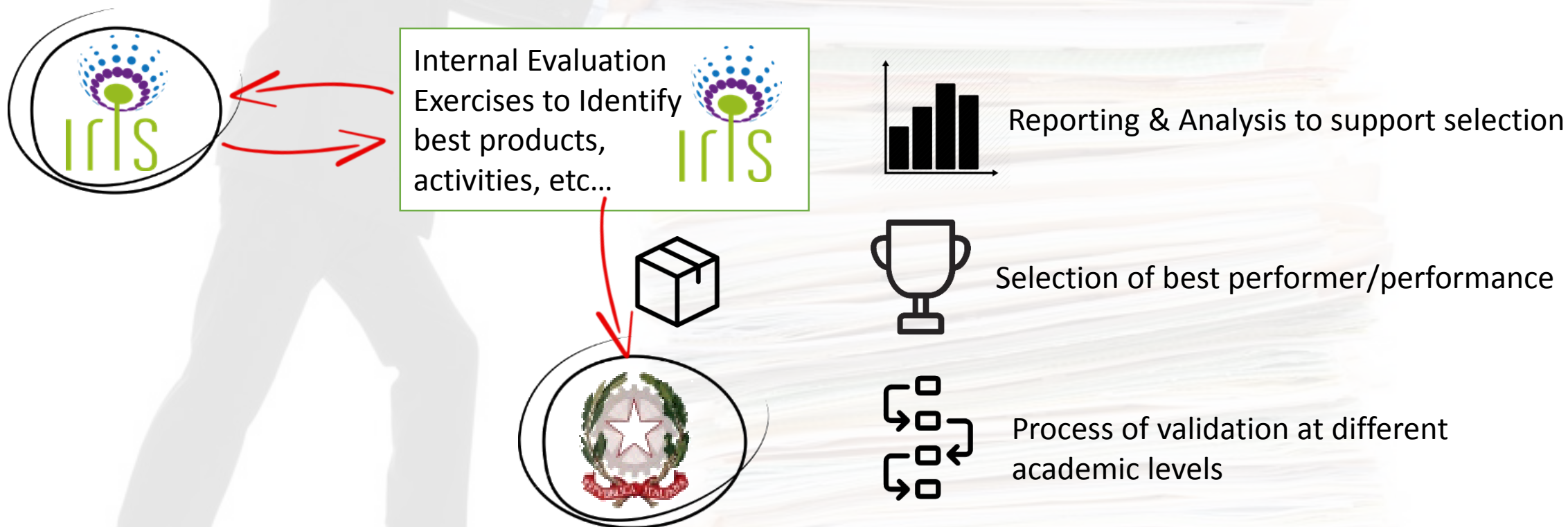


In this way Universities:

- have control of research they have done locally;
- at the same time they fulfill to ministry's obligations.

FULFILMENT of Ministry obligations

Evaluation exercise: identify the best activities

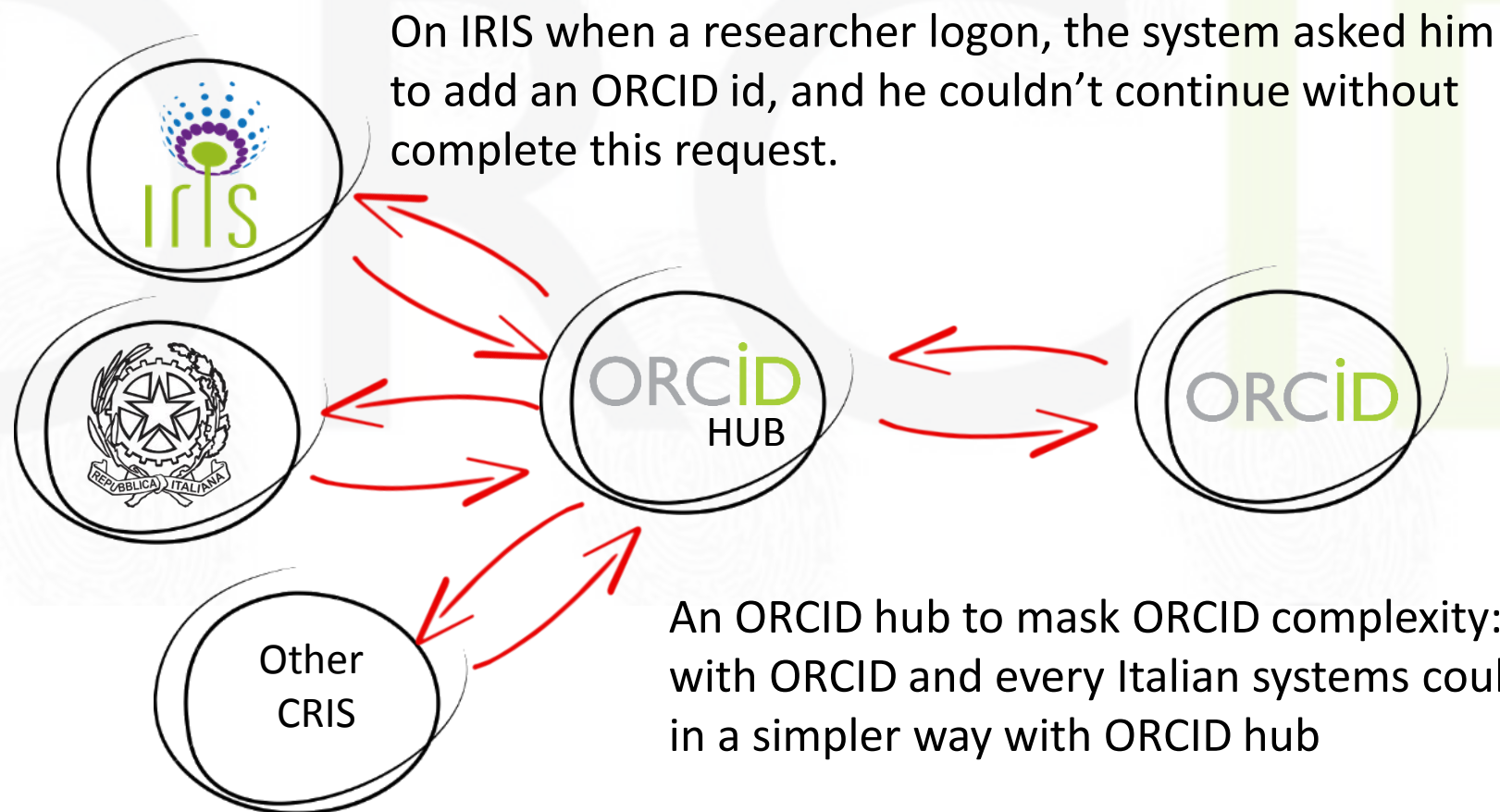


ORCID adoption USE CASE

In 2016 Ministry of Education launched the Italian Researcher Identifier for Evaluation (IRIDE)

**For National Evaluation Exercise a researcher
MUST HAVE ORCID**

ORCID adoption USE CASE



ORCID adoption USE CASE

Strong
commitment
from MINISTRY



Proactive
implementation in
central and peripheral
systems

94% researchers have

But in the real life, there are not only good news....

Local system MUST to be aligned ALWAYS with Ministry system

- 1) Each requirement of Ministry have to be implemented in two environments**
- 2) Risk of misalignment between two systems**

ENGAGE: IRIS Focus Group

Universities/Research Institutes that adopt IRIS is involved in IRIS Focus Group.

Group of Universities employees

Focus Group **defines** IRIS **road map** and helps CINECA to **identify needs** and **requirements**

ENGAGE: IRIS Focus Group

The best choice we have done some years ago

- By one side, Universities are (and feel) more involved in IRIS, and by the other side CINECA will receive less bad reviews on IRIS because is not only a CINECA's product, but a CONSORTIUM's product.
- For CINECA is a really opportunity because we are really developing what universi

This is really what I need !



ENGAGE: IRIS Focus Group (info for 2017)

- 40 Universities officially involved (235 people is subscribed to IRIS' Wiki, mailing list);
- 5 Universities are coordinators of 5 different subgroups (one for each IRIS' module);
- 25 discussion pages on wiki
- 16 CISCO webEX meetings with all universities;
- 62 analisys documents released;
- 14 CISCO webEX meetings with Universities' coordinator
- 9 webinars, demos

Market point of view

- A technical partner for all stakeholder: CINECA develops software for Ministry, for Evaluation Agency and for Universities
 - Universities can sleep easily, because they know that all the systems will be aligned, in a coherent way with a clear semantic.
 - And... in unlucky event of problems, all the responsibilities and troubleshooting will be in charge on CINECA
- IRIS is pervasive in Universities, and could be the simplest choice

This captive market is an opportunity or risk?

Opportunity

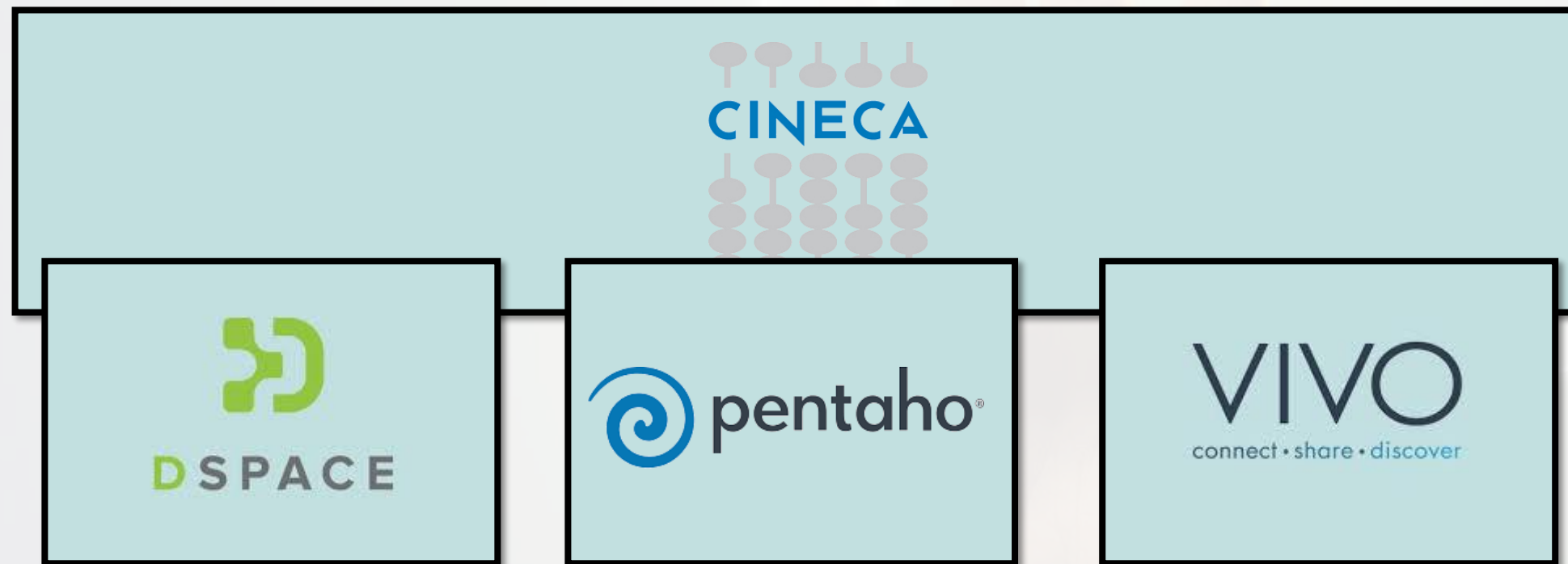
Standardization
Reduce national costs of
CRIS



Risk

Feel there's no escape
Enhancement of quality
based on Market
Competition

Technicalities



Question

How many people
do we need?

IRIS staff and organization



Thank you



f.ferrario@cineca.it