

Università
Ca' Foscari
Venezia

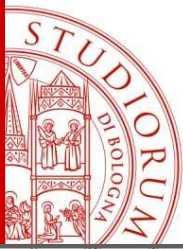


Research Management Workshop
Advanced Research Management Tools
Venezia 07/10/2015 – Università Ca' Foscari

Information Systems in the Assessment of the University Research Products

Anna Muraro

ARIC - Settore Gestione dati e sviluppo applicativi
Alma Mater Studiorum, Università di Bologna, Italy



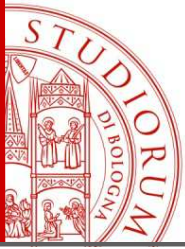
from OR to VRA

from **2004** to **2013**: **Research Observatory (OR)**

- ✓ start of **ANVUR** (National Agency for the Evaluation of the University System and Research)
- ✓ **VQR** (first Research Evaluation Process: 2004-2010)
- ✓ start of **ASN** (Scientific National Qualification process)

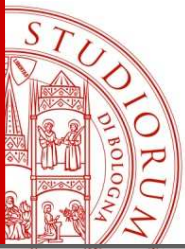
from **2014** to date: **Commission for the University Research Evaluation (VRA Commission)**

- review process of the University research evaluation system, to make it more consistent with both national and international criteria



what is VRA for ?

The **results of the new assessment** process will be used by the University Governance and Departments to define policies for **allocating resources for scientific research** on the **basis of merit**.



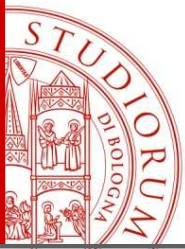
OR vs. VRA: main differences

OR

- evaluation of the **structures**
- comparability among 14 scientific CUN-areas at UniBO level, by a specific Indicator
- 14 scientific areas clustered in 2 macro-areas (Science and Human Sciences), 2 evaluation criteria
- all products present in UniBO research catalogue (CRIS)

VRA

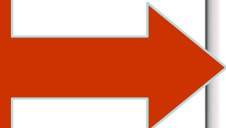
- evaluation of the **researchers**
- comparability among the same scientific areas at the national/international level
- 17 scientific areas, 17 evaluation criteria
- a selected, limited number of products



OR vs. VRA: main differences

the 17 VRA scientific areas include 3 new entries:

- ✓ Informatics (01-09)
- ✓ Architecture (08B)
- ✓ Psychology (11B)



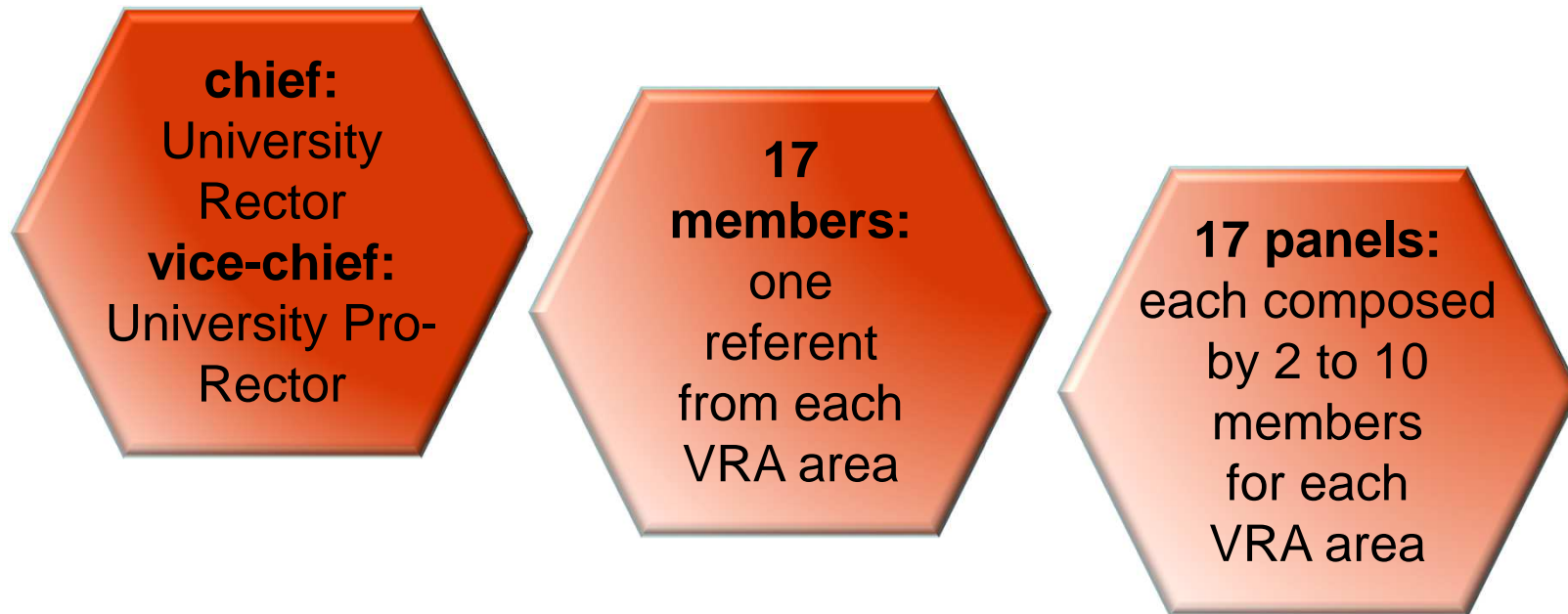
VRA

- evaluation of the researchers
- comparability among the same scientific areas at the national/international level
- 17 scientific areas, 17 evaluation criteria
- a selected, limited number of products

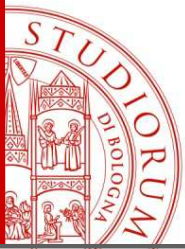


aims and features of the VRA Commission

- **to ensure consistency between internal (Departments, Researchers) and external evaluation of the University**

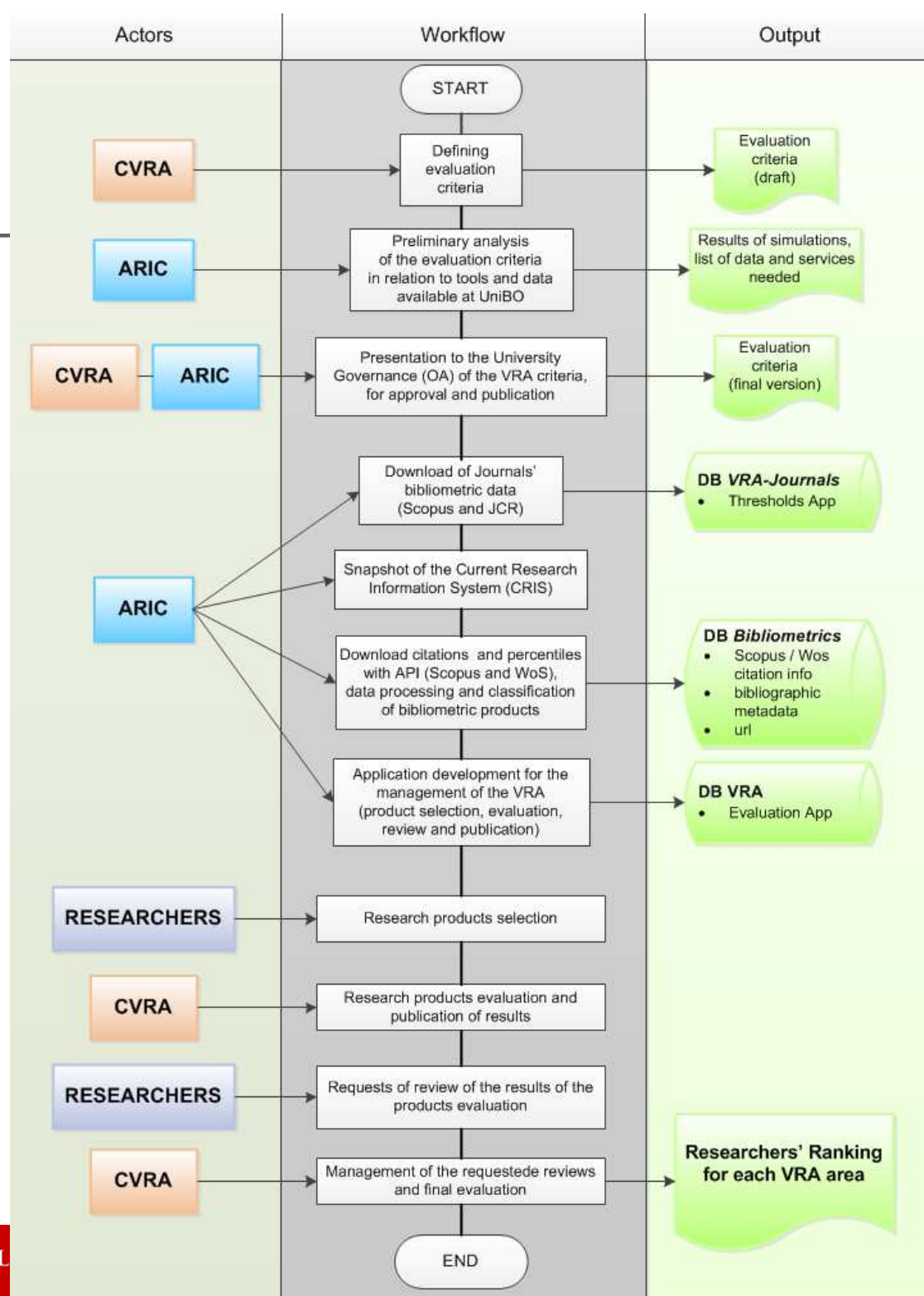


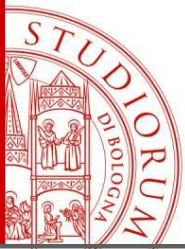
- ✓ **panel members and referents are selected by the Rector based on indications from the Department Directors**
- ✓ **VRA criteria and final evaluations are subjected to the University Governance**



work flow of the VRA:

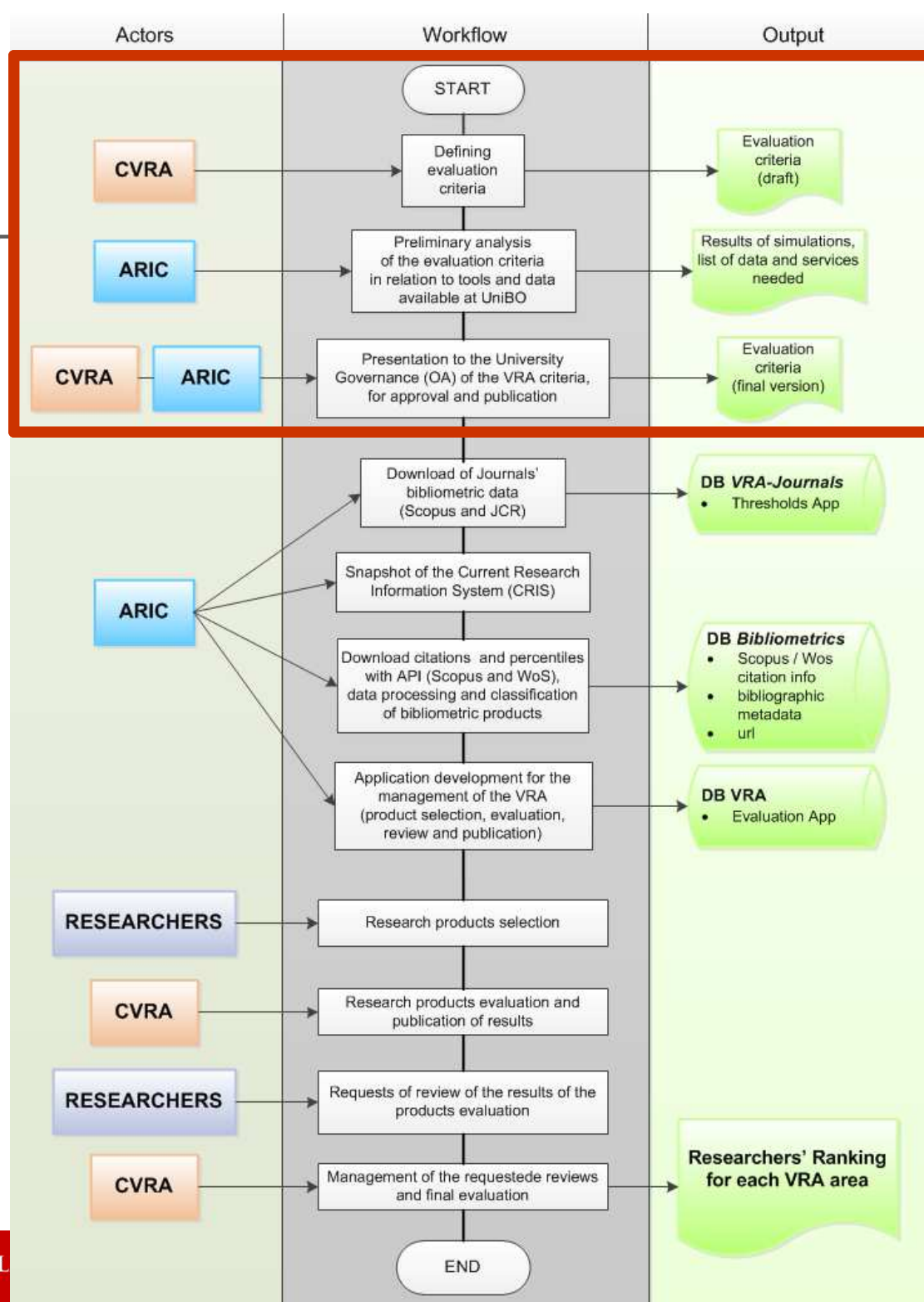
- actors
- actions
- outputs





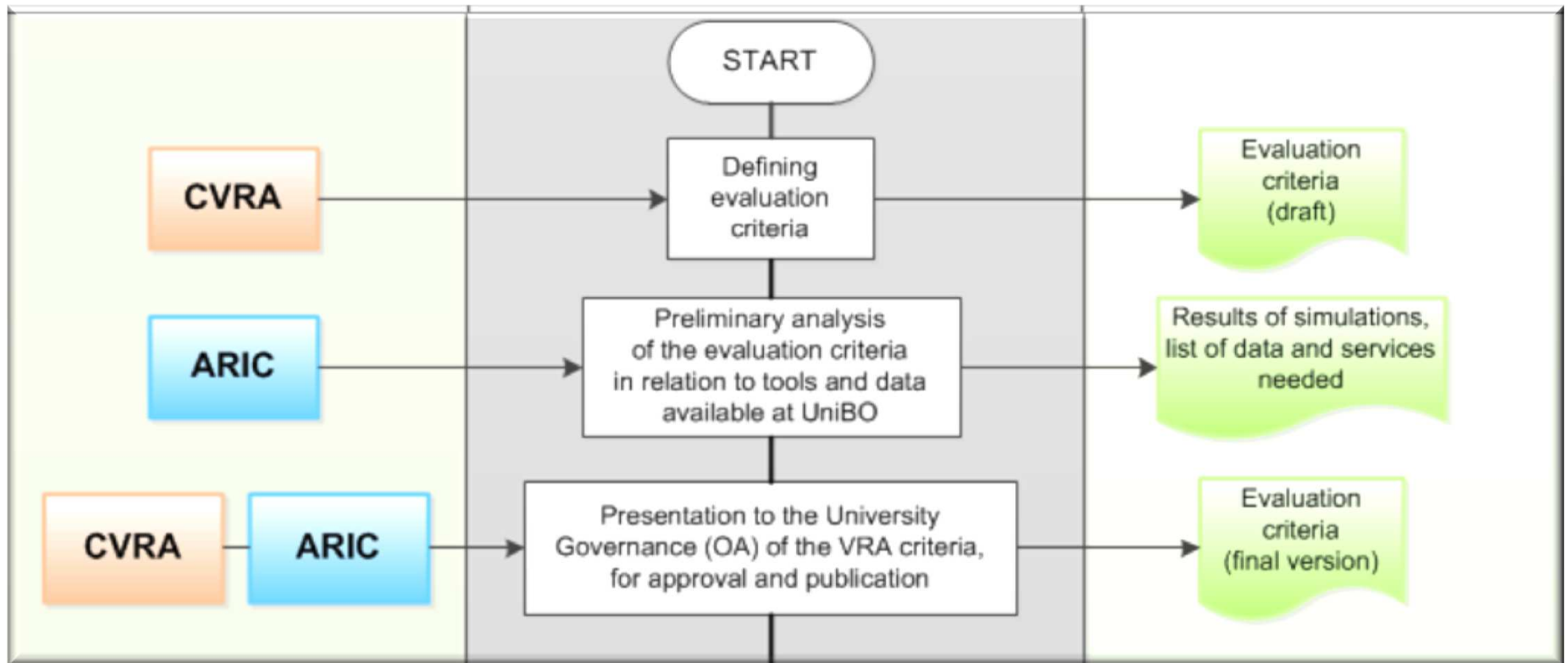
work flow of the VRA:

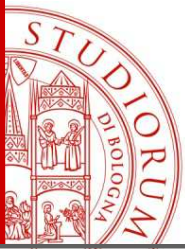
- actors
- actions
- outputs



work flow of the VRA: part I

definition of the evaluation criteria

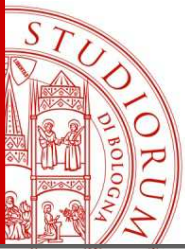




autonomy of the CVRA Panels

each of the 17 panels defines specific criteria for its own Scientific Area, inspired by ANVUR and matching the general CVRA criteria, e.g.:

- ✓ typologies of eligible scientific products
- ✓ requested number of publications (4 to 12)
- ✓ evaluation criteria
- ✓ criteria to manage cases of multiauthorship:
 - total authors
 - UniBO authors
 - VRA Scientific Area authors
 - Department authors.....



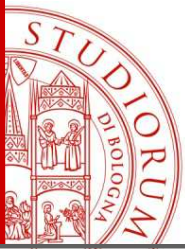
products evaluation classes

VRA Evaluation Classes and correspondences with the ANVUR/VQR classes

Class	CVRA	ANVUR / VQR
Excellent	A	E
Good	B	B
Acceptable	C	A
Limited	D	L
Not evaluable	NC	-

main targets:

transparency and predictability of the evaluation's outcome



products evaluation classes

the **panels** attribute to each class a **score** that varies according to the document type

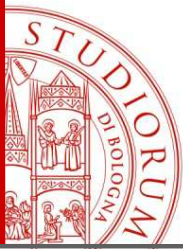
Example bibliometric

Class	score
A	1
B	0,8
C	0,5
D (indexed)	0,2
D- (non-indexed)	0,1
NC	0

Example non-bibliometric

Class	score	
	Monographic product	non-Monographic product
A +	3,5	1,2
A	3	1
B	2,4	0,8
C	1,5	0,5
D	0,6	0,2
NC	0	0

the individual researcher score is the **sum** of the selected products scores and can be adapted according to the rules specific to each area.

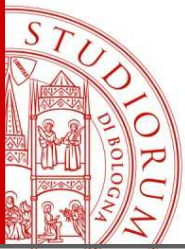


non-bibliometric products

each area defines the classes for each eligible document type and the **criteria** are based on some fundamental hinges, including:

- relevance;
- originality / innovation;
- internationalization;
- scientific correspondence to the area;
- peer review and / or supervision of a scientific referee;
- journal placement in the ANVUR VQR-ASN / UniBO classes and / or in international ratings (for articles only);
- former classification according to OR (when present)

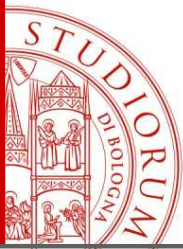
once defined, the class of non-bibliometric products **does not change** over time



bibliometric products

data sources and criteria adopted by the bibliometric panels

VRA Scientific Area	W (WoS) / S (Scopus)	V (VQR1 percentile's classes) / Q (quartile's classes)
01 Mathematics	W	Q
01-09 Informatics	S	Q
02 Physics	W / S	Q
03 Chemistry	W	V
04 Earth Sciences	W / S	Q
05 Biology	W	Q
06 Medicine	W	Q
07 Agricultural and Veterinary Sciences	W / S	V
08A Civil Engineering	W / S	V
09 Industrial and Information Engineering	W / S	V
11B Psychology	W / S	Q



bibliometric products

bibliometric indicators for the journals:

- **Impact Factor (IF)** based on **JCR**
- **Scimago Journal Ranking (SJR)** based on **Scopus** title list

bibliometric indicators for the publications:

- **number of citations**, based on Scopus and/or WoS.

the class of bibliometric products can change over time

bibliometric products

the class of each product is calculated for the corresponding year, with reference to the scientific category (JCR Subject Category and/or ASJC Scopus).

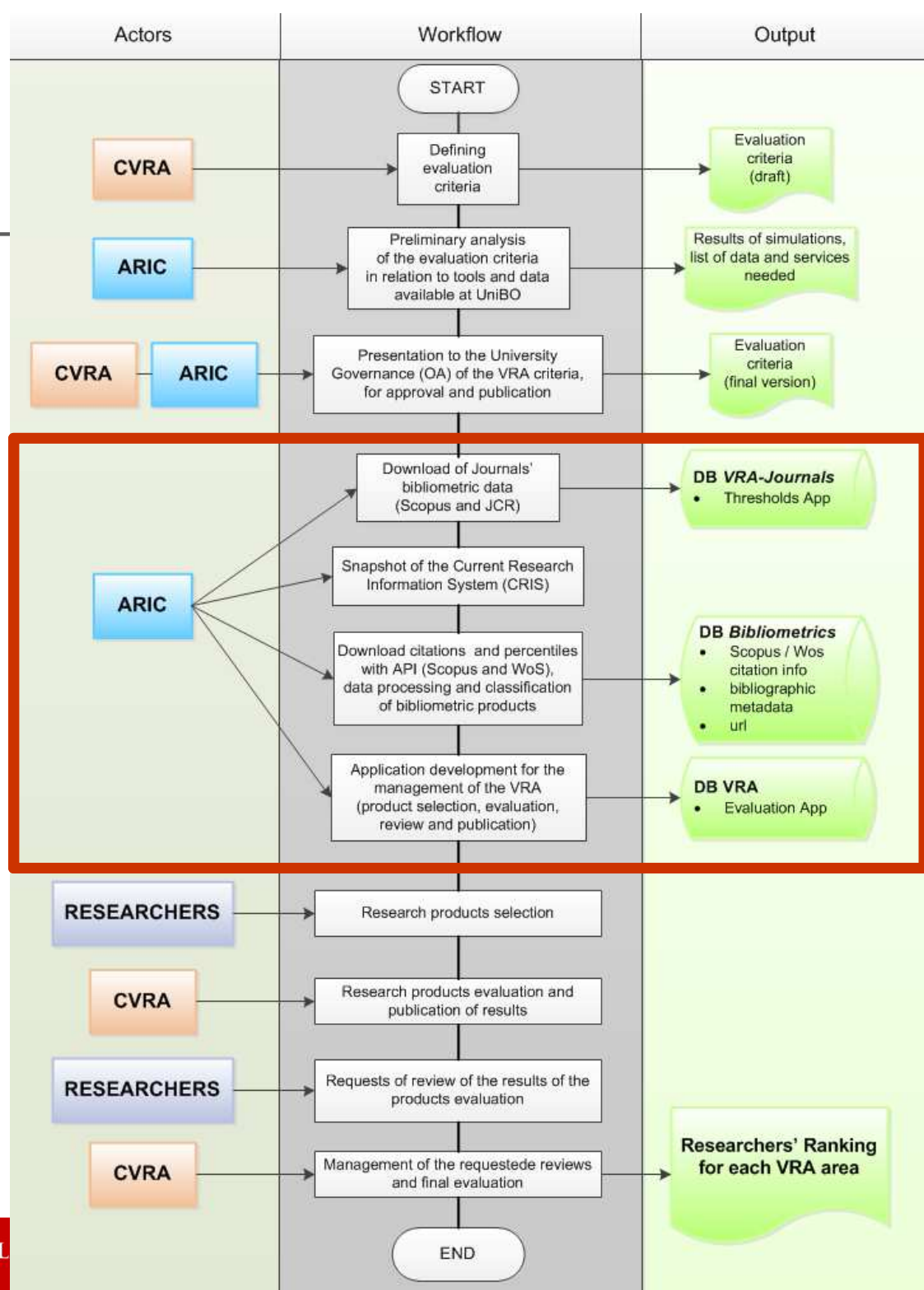
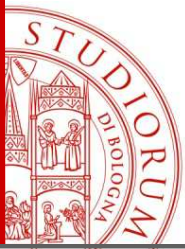
- years < 2012: **both the bibliometric indicators** for the journals and the publications (citations) are used, integrated through the application of a matrix (specific for each VRA Area)

		VRA 2012-2013			
		bibliometric indicator			
		1	2	3	4
n° of citations	1	A	A	B	C
	2	A	B	C	D
	3	B	C	D	D
	4	C	D	D	D

theoretical case

- years 2012 and 2013: **only the bibliometric indicators** for the journals are used

VRA 2012-2013			
bibliometric indicator			
1	2	3	4
A	B	C	D

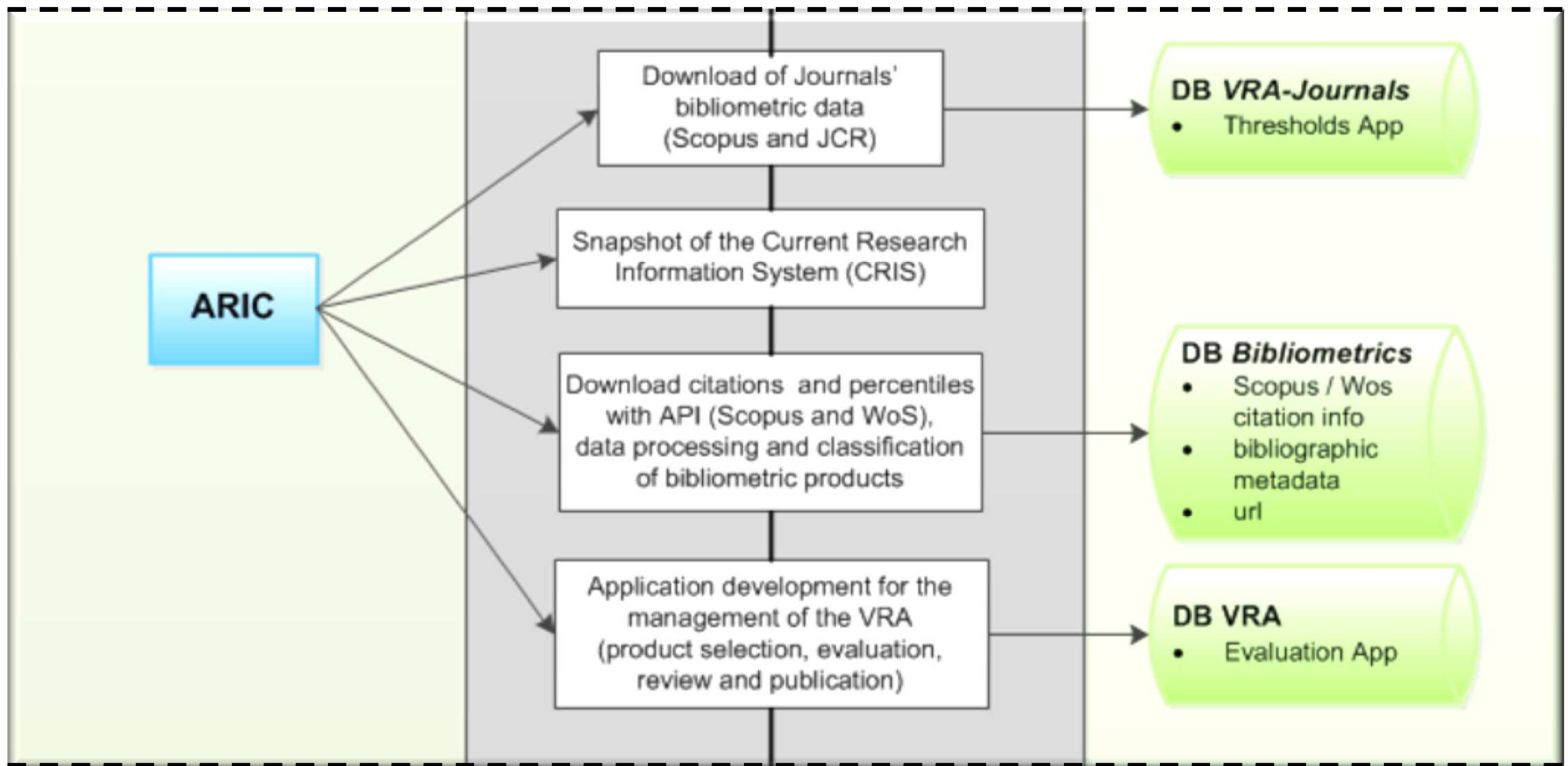


work flow of the VRA:

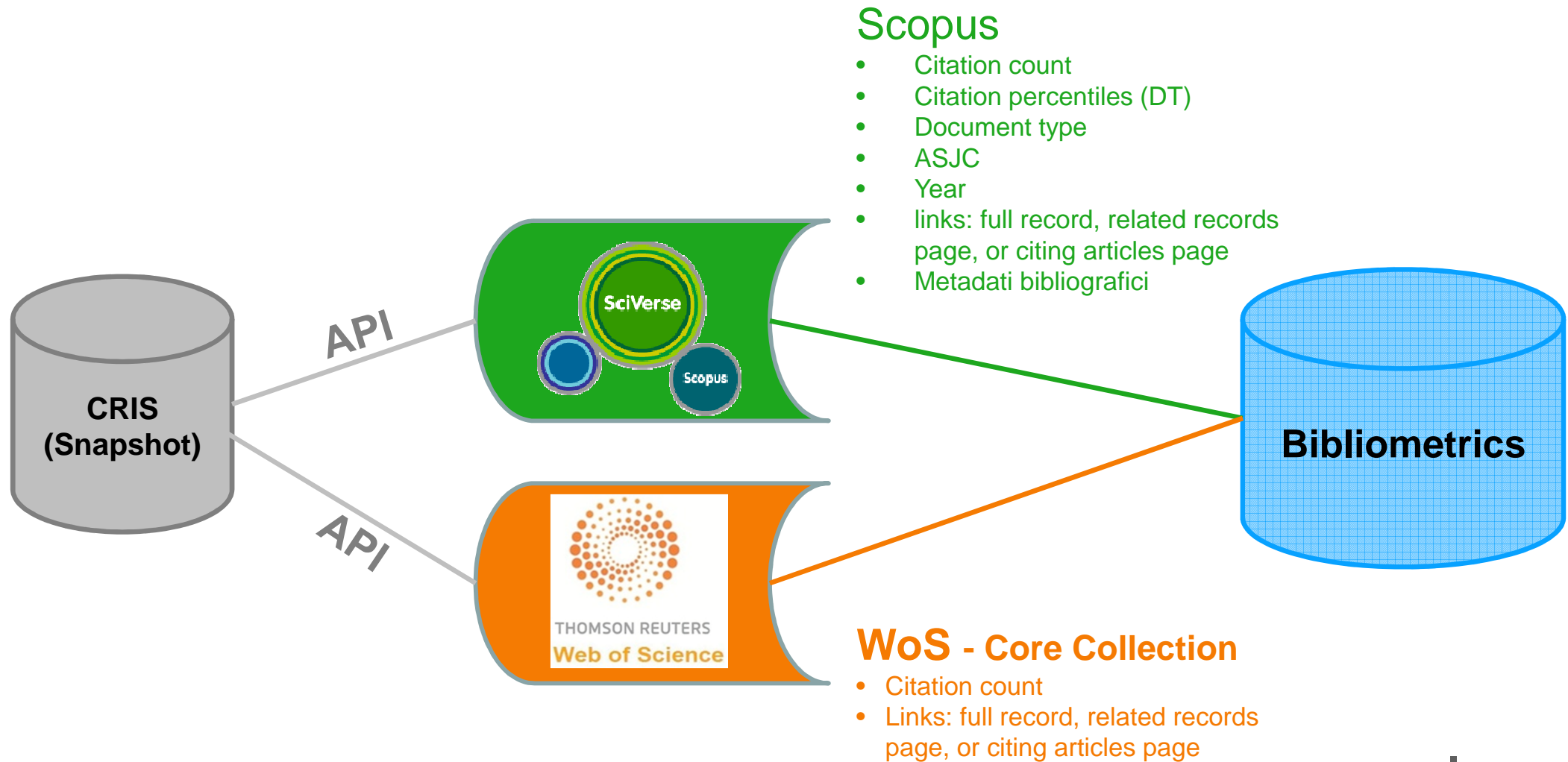
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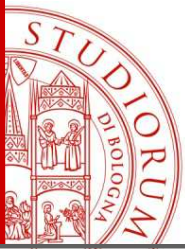
work flow of the VRA: part II

procedures to match the CRIS publications to the citation DBs (WoS and Scopus)

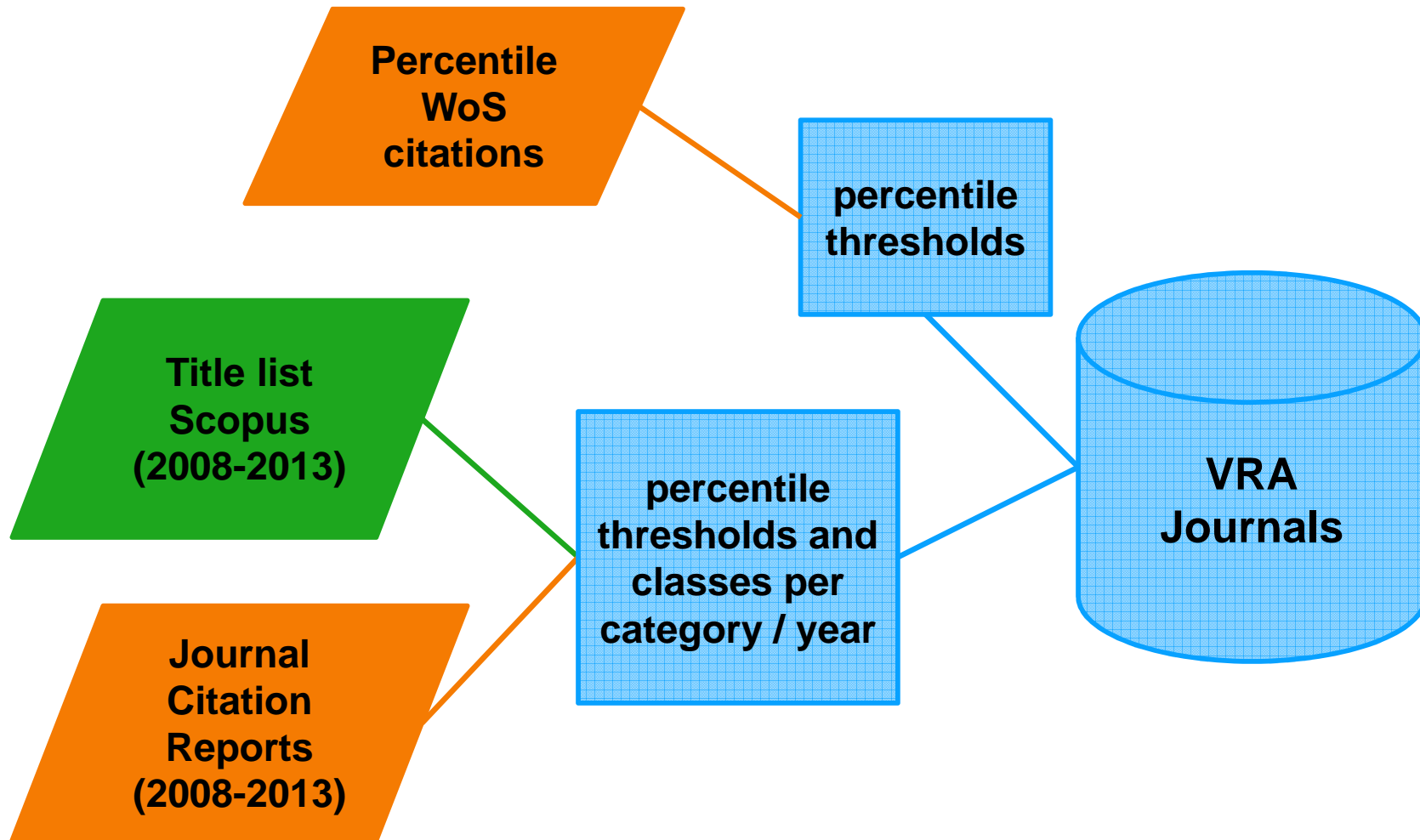


Data Base “Bibliometrics”



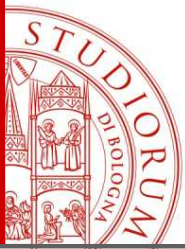


Data Base “VRA Journals”

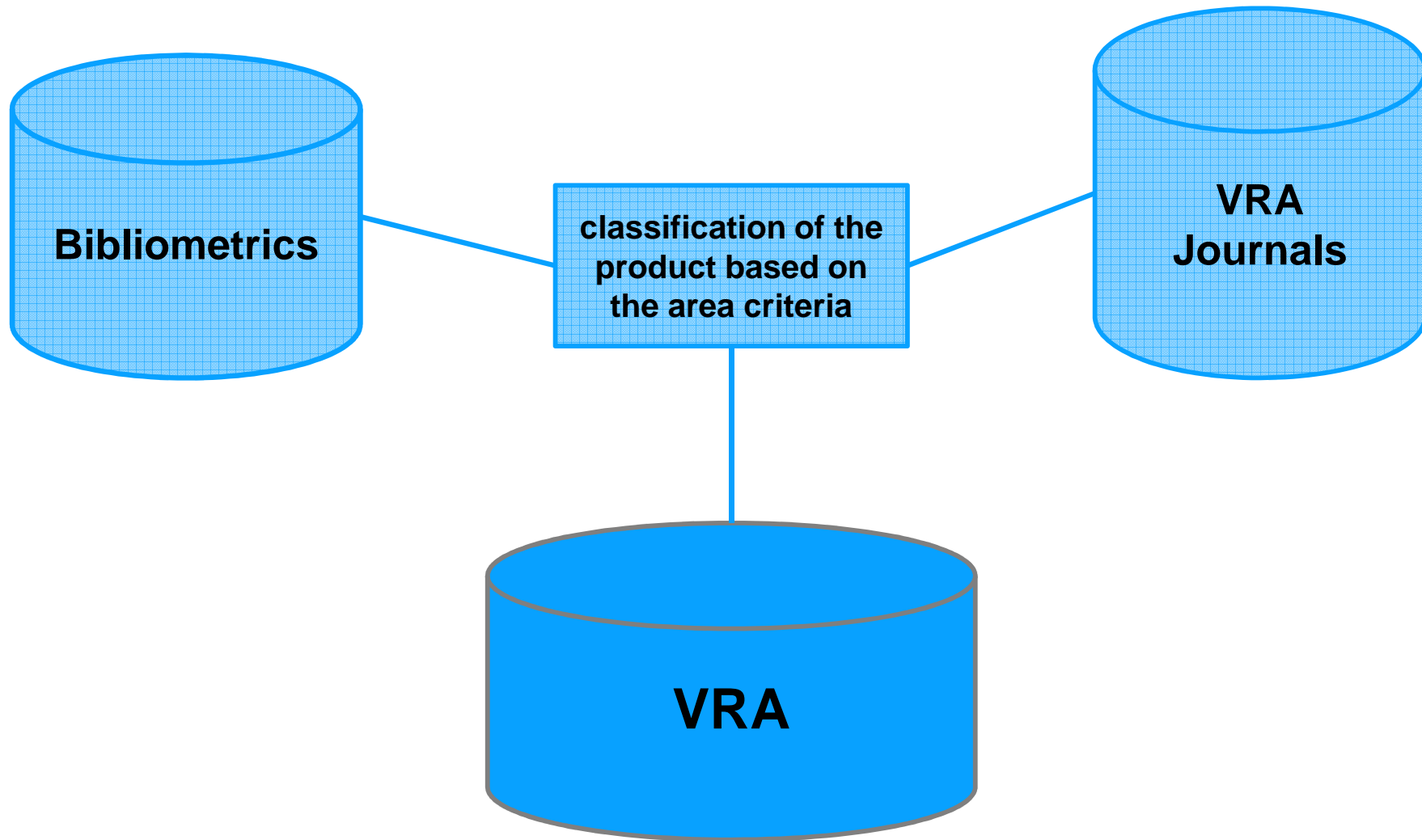


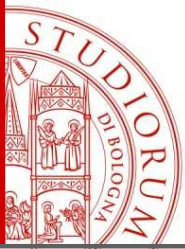
Scopus + JCR

- bibliographic metadata
- IF and SJR
- SC / ASJC
- percentile thresholds
- class per category (2008/2013)
- synthetic class (2012/2013)
- Percentile thresholds for WoS citations



Data Base “VRA”





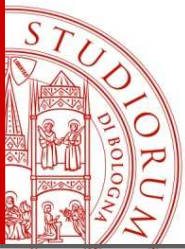
some examples: practical cases

case 1 - years 2012-2013

the journal “Paddy and water environment” belongs to 3 scientific categories

Journal	Year	SJR	ASJC	Percentile threshold			Class
				25th	50th	75th	
PADDY AND WATER ENVIRONMENT - ISSN: 1611-2490	2012	0,717	Agronomy and Crop Science	0,713	0,36	0,213	A
			Environmental Engineering	0,859	0,455	0,17	B
			Water Science and Technology	0,651	0,288	0,135	A

VRA 2012-2013			
bibliometric indicator			
1	2	3	4
A	B	C	D



some examples: practical cases

case II - years < 2012

journal bibliometric indicator: SJR

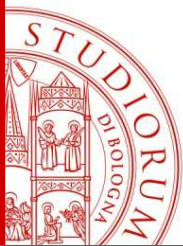
DB	Year	Citation count	ASJC	Percentile threshold			Class
				20th	40th	50th	
SCOPUS	2011	3	Atomic and Molecular Physics, and Optics	11	5	4	4
			Bioengineering	21	11	8	4
			Chemistry(all)	16	7	5	4
			Condensed Matter Physics	11	5	4	4
			Materials Science(all)	13	6	4	4
			Modelling and Simulation	9	4	3	3

the “Journal of Nanoparticle Research” belongs to 6 scientific categories

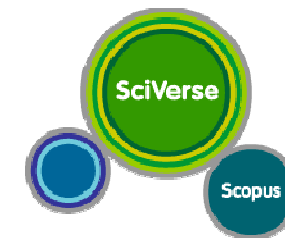
product indicator: n° of citations

Journal	Year	SJR	ASJC	Percentile threshold			Class
				20th	40th	50th	
JOURNAL OF NANOPARTICLE RESEARCH ISSN: 1388-0764	2011	1,087	Atomic and Molecular Physics, and Optics	1,0634	0,6098	0,478	1
			Bioengineering	1,405	0,734	0,556	2
			Chemistry (all)	0,928	0,4706	0,354	1
			Condensed Matter Physics	1,13	0,67	0,489	2
			Materials Science (all)	1,048	0,4484	0,307	1
			Modelling and Simulation	1,0842	0,5972	0,4795	1

VRA 2010-2011					
		bibliometric indicator			
		1	2	3	4
n° of citations	1	A	A	B	C
	2	A	B	B	D
	3	A	B	C	D
	4	B	C	C	D



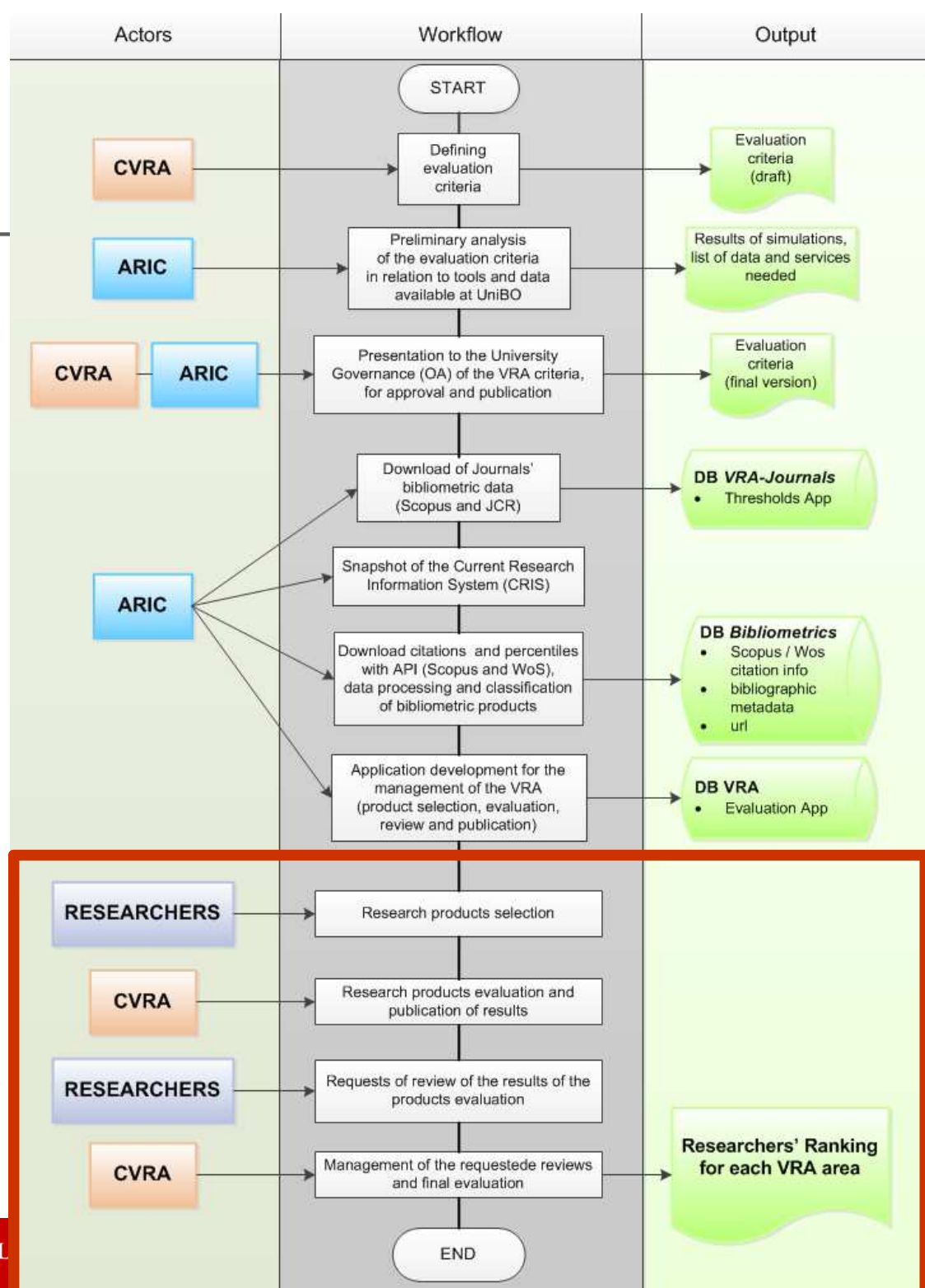
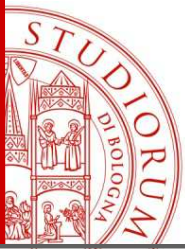
Data critical points: Scopus



Year	More papers for 1 Scopus record	1 paper for more Scopus records	Paper year \neq Scopus year	Records retrieved by bibliographic metadata (ISSN, volume, year, start page)	Total Scopus records
2008	18	57	55	598	2,698
2009	49	54	60	68	2,556
2010	36	76	46	54	2,795
2011	30	348	93	40	3,514
2012	29	559	129	50	4,033
2013	49	716	134	59	4,333
Total	211	1,810	517	869	19,929
%	1.06%	9.08%	2.59%	4.36%	100.00%

Data critical points: WoS

Year	Papers with no WoS record <u>associated</u> with a JCR journal	Papers with WoS record <u>not associated</u> with a JCR journal	Records retrieved by bibliographic metadata (ISSN, volume, year, start page)	Total WoS records
2008	244	152	258	2,823
2009	673	158	110	2,612
2010	713	124	101	2,722
2011	542	213	70	3,008
2012	364	242	71	3,447
2013	349	284	56	3,660
Total	2,885	1,173	666	18,272
%	15.79%	6.42%	3.64%	100.00%

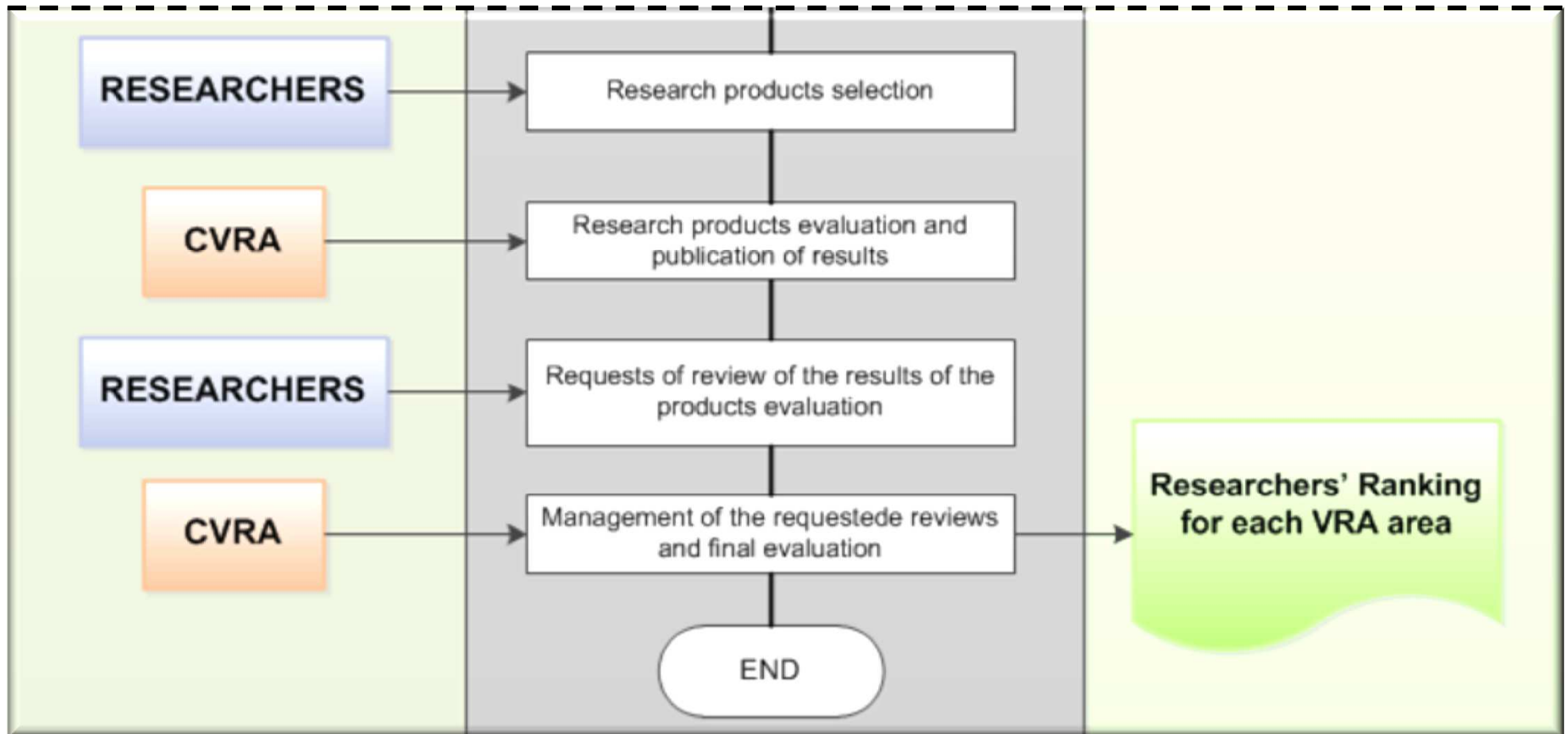


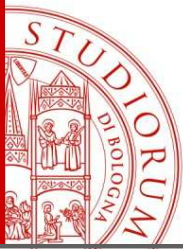
work flow of the VRA:

- actors
- actions
- outputs



work flow of the VRA: part III





the VRA web application

4 phases and 3 rules:

Products selection:

- done by researchers
- same deadline for all VRA areas (from 10/06/2015 to 09/07/2015)

Products assessment:

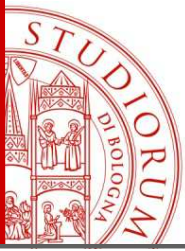
- done by the panels and area referents
- autonomous timing for publication of results

Assessment review request:

- done by researchers
- 15 days from the assessment publication

Researchers assessment:

- done by the area referents
- publication of the final results



the VRA web application

Platform: Microsoft

Web application: ASP.NET technology

Responsive UI

Database Management System: Microsoft SQL SERVER

Customed functions for the 17 scientific areas:

- eligible document types
- requested number of products
- publications metadata:
 - ✓ number of authors (total UniBO, VRA area, Department...)
 - ✓ bibliometric indicators
 - ✓ classification



VRA web application: selected products

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HOME ISTRUZIONI SELEZIONE CHIUSURA Logout

STAMPA FINE ELENCO

Stato della selezione: CHIUSA.
CHIUSURA EFFETTUATA IL 03/07/2015.

NUMERO DI PRODOTTI SELEZIONATI: 12 SU: 12 PREVISTI

Effects of antioxidants on boar spermatozoa during sorting and storage.
[92770] Articolo (Contributo in rivista) 2010
C. Vallorani , M. Spinaci, D. Bucci, C. TUTTI GLI AUTORI
ANIMAL REPRODUCTION SCIENCE [0378-4320] 
Pagine: 8

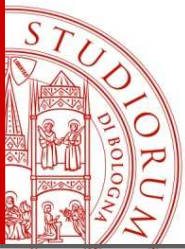
View record in Web Of Science®
Web of Science® Times Cited: 8
Impact factor: 1.721
View record in Scopus
Scopus Cited by: 9
SJR: 0.814
Document Type Scopus: Article
Anno Scopus: 2010
Autori area: 3

VALUTAZIONE VRA : **A**
Punteggio: 1
 **SEGNALAZIONE**

Effect of liquid storage on sorted boar spermatozoa.
[92777] Articolo (Contributo in rivista) 2010
M. Spinaci, C. Vallorani, D. Bucci, C. B. TUTTI GLI AUTORI
THERIOGENOLOGY [0093-691X] 
Pagine: 8

View record in Web Of Science®
Web of Science® Times Cited: 13
Impact factor: 2.045
View record in Scopus
Scopus Cited by: 14
SJR: 1.001
Document Type Scopus: Article
Anno Scopus: 2010
Autori area: 3

VALUTAZIONE VRA : **A**
Punteggio: 1
 **SEGNALAZIONE**



VRA web application: the assessment



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Logout

DOWNLOAD UPLOAD CHIUSURA AREA

FINE ELENCO

Autori da valutare:9 Autori valutati:24 Valutazioni da attribuire:72 Valutazioni attribuite:209

[MED: [MED/04] PATOLOGIA GENERALE, [MED/05] PATOLOGIA ...] DIPARTIMENTI

QESGURI RICERCA

SALVA FILTRO

RIMUOVI FILTRO

VALUTAZIONI IN CORSO

4

Xxxxxxxxxx Xxxxxxx

PRODOTTI SELEZIONATI: 3
DIPARTIMENTO DI MEDICINA SPECIALISTICA, DIAGNOSTICA E SPERIMENTALE
SSD: MED/04 - SETTORE CONCORSUALE: 06/A2

Xxxxxxxxxx Xxxxxxx

PRODOTTI SELEZIONATI: 8
DIPARTIMENTO DI MEDICINA SPECIALISTICA, DIAGNOSTICA E SPERIMENTALE
SSD: MED/04 - SETTORE CONCORSUALE: 06/A2

Xxxxxxxxxx Xxxxxxx

PRODOTTI SELEZIONATI: 12
DIPARTIMENTO DI MEDICINA SPECIALISTICA, DIAGNOSTICA E SPERIMENTALE
SSD: MED/08 - SETTORE CONCORSUALE: 06/A4

Xxxxxxxxxx Xxxxxxx

PRODOTTI SELEZIONATI: 10
DIPARTIMENTO DI MEDICINA SPECIALISTICA, DIAGNOSTICA E SPERIMENTALE
SSD: MED/04 - SETTORE CONCORSUALE: 06/A2

VALUTAZIONI NON INIZIATE

5

Xxxxxxxxxx Xxxxxxx

PRODOTTI SELEZIONATI: 12
DIPARTIMENTO DI MEDICINA SPECIALISTICA, DIAGNOSTICA E SPERIMENTALE
SSD: MED/08 - SETTORE CONCORSUALE: 06/A4

Xxxxxxxxxx Xxxxxxx

PRODOTTI SELEZIONATI: 6
DIPARTIMENTO DI MEDICINA SPECIALISTICA, DIAGNOSTICA E SPERIMENTALE
SSD: MED/04 - SETTORE CONCORSUALE: 06/A2

Xxxxxxxxxx Xxxxxxx

PRODOTTI SELEZIONATI: 12
DIPARTIMENTO DI MEDICINA SPECIALISTICA, DIAGNOSTICA E SPERIMENTALE
SSD: MED/04 - SETTORE CONCORSUALE: 06/A2

Xxxxxxxxxx Xxxxxxxxxx

PRODOTTI SELEZIONATI: 9
DIPARTIMENTO DI MEDICINA SPECIALISTICA, DIAGNOSTICA E SPERIMENTALE
SSD: MED/08 - SETTORE CONCORSUALE: 06/A4

Xxxxxxxxxx Xxxxxxx

PRODOTTI SELEZIONATI: 12
DIPARTIMENTO DI MEDICINA SPECIALISTICA, DIAGNOSTICA E SPERIMENTALE
SSD: MED/08 - SETTORE CONCORSUALE: 06/A4

VALUTAZIONI COMPLETE

24

Xxxxxxxxxx Xxxxxxx

PUNTEGGIO FINALE: 12,00
PRODOTTI SELEZIONATI: 12
DIPARTIMENTO DI MEDICINA SPECIALISTICA, DIAGNOSTICA E SPERIMENTALE
SSD: MED/08 - SETTORE CONCORSUALE: 06/A4

Xxxxxxxxxx Xxxxxxx

PUNTEGGIO FINALE: 12,00
PRODOTTI SELEZIONATI: 12
DIPARTIMENTO DI MEDICINA SPECIALISTICA, DIAGNOSTICA E SPERIMENTALE
SSD: MED/04 - SETTORE CONCORSUALE: 06/A2

Xxxxxxxxxx Xxxxxxx

PUNTEGGIO FINALE: 12,00
PRODOTTI SELEZIONATI: 12
DIPARTIMENTO DI SCIENZE BIOMEDICHE E NEUROMOTORIE
SSD: MED/08 - SETTORE CONCORSUALE: 06/A4

Xxxxxxxxxx Xxxxxxx

PUNTEGGIO FINALE: 7,33
PRODOTTI SELEZIONATI: 9
DIPARTIMENTO DI MEDICINA SPECIALISTICA, DIAGNOSTICA E SPERIMENTALE
SSD: MED/04 - SETTORE CONCORSUALE: 06/A2



VRA web application: the assessment



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DIPARTIMENTI

ESEGUI RICERCA

SALVA FILTRO

RIMUOVI FILTRO

- MED
 - [MED/01] STATISTICA MEDICA
 - [MED/02] STORIA DELLA MEDICINA
 - [MED/03] GENETICA MEDICA
 - [MED/04] PATOLOGIA GENERALE
 - [MED/05] PATOLOGIA CLINICA
 - [MED/06] ONCOLOGIA MEDICA
 - [MED/07] MICROBIOLOGIA E MICROBIOLOGIA CLINICA
 - [MED/08] ANATOMIA PATOLOGICA

- DIPARTIMENTO DI FARMACIA E BIOTECNOLOGIE
- DIPARTIMENTO DI MEDICINA SPECIALISTICA, DIAGNOSTICA E S
- DIPARTIMENTO DI SCIENZE BIOLOGICHE, GEOLOGICHE E AMBI
- DIPARTIMENTO DI SCIENZE BIOMEDICHE E NEUROMOTORIE
- DIPARTIMENTO DI SCIENZE DELL'EDUCAZIONE "GIOVANNI MAR
- DIPARTIMENTO DI SCIENZE E TECNOLOGIE AGRO-ALIMENTARI
- DIPARTIMENTO DI SCIENZE MEDICHE E CHIRURGICHE
- DIPARTIMENTO DI SCIENZE PER LA QUALITA' DELLA VITA

STICA, DIAGNOSTICA E	PRODOTTI SELEZIONATI: 10 DIPARTIMENTO DI MEDICINA SPECIALISTICA, DIAGNOSTICA E SPERIMENTALE SSD: MED/04 - SETTORE CONCORSALE: 06/A2	4
STICA, DIAGNOSTICA E	PRODOTTI SELEZIONATI: 9 DIPARTIMENTO DI MEDICINA SPECIALISTICA, DIAGNOSTICA E SPERIMENTALE SSD: MED/08 - SETTORE CONCORSALE: 06/A4	5

Xxxxxxxxxx Xxxxxxx

PRODOTTI SELEZIONATI: 12
DIPARTIMENTO DI MEDICINA SPECIALISTICA, DIAGNOSTICA E SPERIMENTALE
SSD: MED/08 - SETTORE CONCORSALE: 06/A4

VALUTAZIONI COMPLETATE 24

Xxxxxxxxxx Xxxxxxx

PUNTEGGIO FINALE: 12,00
PRODOTTI SELEZIONATI: 12
DIPARTIMENTO DI MEDICINA SPECIALISTICA, DIAGNOSTICA E SPERIMENTALE
SSD: MED/08 - SETTORE CONCORSALE: 06/A4

Xxxxxxxxxx Xxxxxxx

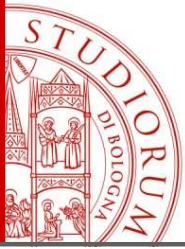
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PRODOTTI SELEZIONATI: 12
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SSD: MED/04 - SETTORE CONCORSALE: 06/A2

Xxxxxxxxxx Xxxxxxx

PUNTEGGIO FINALE: 12,00
PRODOTTI SELEZIONATI: 12
DIPARTIMENTO DI SCIENZE BIOMEDICHE E NEUROMOTORIE
SSD: MED/08 - SETTORE CONCORSALE: 06/A4

Xxxxxxxxxx Xxxxxxx

PUNTEGGIO FINALE: 7,33
PRODOTTI SELEZIONATI: 9
DIPARTIMENTO DI MEDICINA SPECIALISTICA, DIAGNOSTICA E SPERIMENTALE
SSD: MED/04 - SETTORE CONCORSALE: 06/A2



VRA web application: the assessment

XXXXXXXXXX XXXXXXXXX DIPARTIMENTO DI MEDICINA SPECIALISTICA, DIAGNOSTICA E SPERIMENTALE SSD: MED/08 - Settore concorsuale: 06/A4

[Esophagogastric metaplasia relates to nodal metastases in adenocarcinoma of esophagus and cardia.](#)

[134646] Articolo (Contributo in rivista) 2013

Ruffato A., Mattioli S., Perrone O., Lug

ANNALS OF THORACIC SURGERY [0003-4975]

Pagine: 7

[View record in Web Of Science®](#)

Impact factor: 3.631

Autori area: 3

Selezioni area: 2

SALVA FORZA MOTIVAZIONE

(1,00 + 0,00) X 0,00 = 0,00

CLASSE DI VALUTAZIONE:

BIBLIOMETRICA A



[454 next generation-sequencing outperforms allele-specific PCR, Sanger sequencing, and pyrosequencing for routine KRAS mutation analysis of formalin-fixed, paraffin-embedded samples](#)

[214053] Articolo (Contributo in rivista) 2013

Altamari A, de Biase D, De Maglio G, Gru

ONCOTARGETS AND THERAPY [1178-6930]

Pagine: 8

[View record in Web Of Science®](#)

Impact factor: 1.342

Autori area: 3

Selezioni area: 1

SALVA FORZA MOTIVAZIONE

(0,30 + 0,00) X 1,00 = 0,30

CLASSE DI VALUTAZIONE:

BIBLIOMETRICA C

[Primary liver sarcomatous carcinoma: report of two cases and review of the literature.](#)

[258287] Articolo (Contributo in rivista) 2013

Giunchi F, Vasuri F, Baldin P, Rosini F,

PATHOLOGY RESEARCH AND PRACTICE [0344-0338]

Pagine: 5

[View record in Web Of Science®](#)

Impact factor: 1.562

Autori area: 1

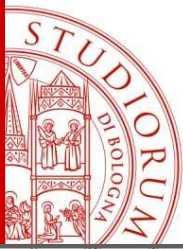
Selezioni area: 1

SALVA FORZA MOTIVAZIONE

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CLASSE DI VALUTAZIONE:

BIBLIOMETRICA C



VRA web application: the assessment



UNIVERSITÀ DI BOLOGNA

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SALVA TUTTO CHIUDI VALUTAZIONE

FINE ELENCO

XXXXXXXXXX XXXXXXXX DIPARTIMENTO DI MEDICINA SPECIALISTICA, DIAGNOSTICA E SPERIMENTALE SSD: MED/08 - Settore concorsuale: 06/A4

[Esophagogastric metaplasia relates to nodal metastases in adenocarcinoma of esophagus and cardia.](#)

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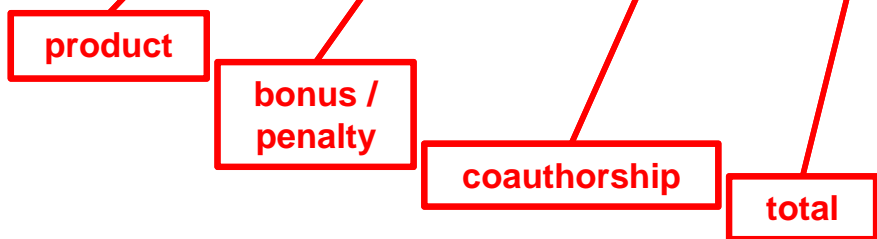
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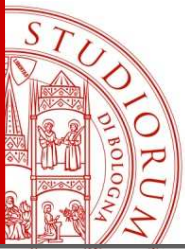
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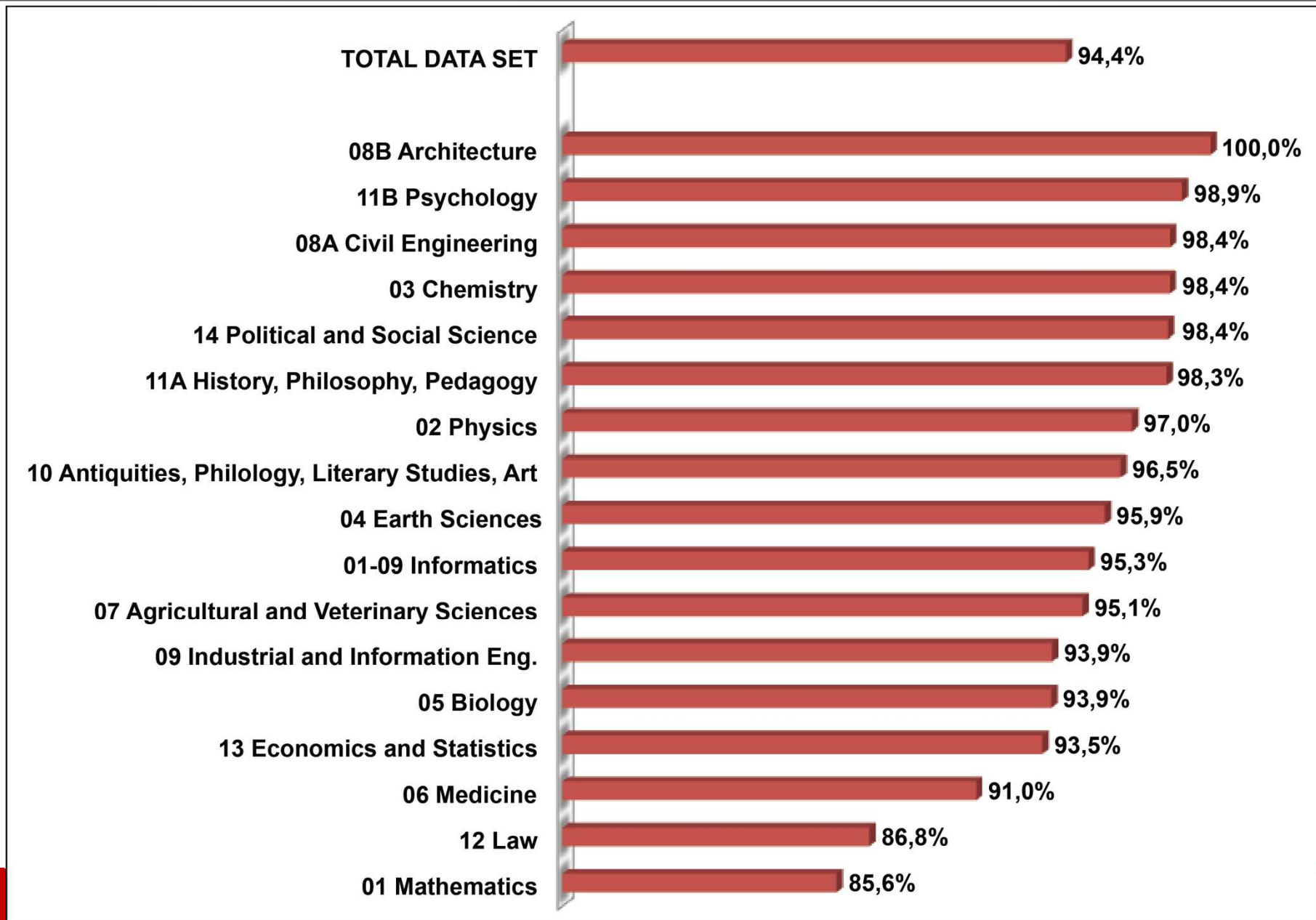
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CLASSE DI VALUTAZIONE:
BIBLIOMETRICA C





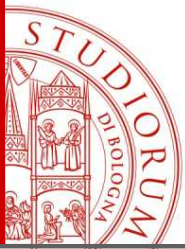
numbers of VRA: Researcher applying for VRA





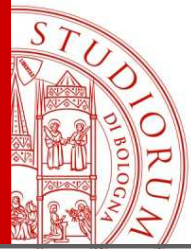
the VRA web application: publication of the results as of 05/10/2015

Area	Publication of the results	Deadline for complaints
Area 01	24/09/2015	08/10/2015 at 14:00
Area 02	30/09/2015	14/10/2015 at 14:00
Area 03	24/09/2015	08/10/2015 at 14:00
Area 04	28/09/2015	12/10/2015 at 14:00
Area 05	30/09/2015	14/10/2015 at 14:00
Area 07	28/09/2015	12/10/2015 at 14:00
Area 08A	28/09/2015	12/10/2015 at 14:00
Area 09	02/10/2015	16/10/2015 at 14:00
Area 13	23/09/2015	07/10/2015 at 14:00
Area 14	02/10/2015	16/10/2015 at 14:00



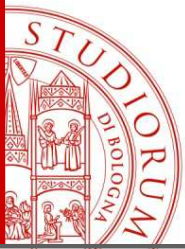
number of selected products

Area	PANEL members (n°)	Selected products per researchers	Selected products	Max number of products per researcher	Selected products per researcher (average)
01 Mathematics	5	513	417	8	6.2
01-09 Informatics	4	821	615	12	10.1
02 Physics	5	705	615	8	7.3
03 Chemistry	7	1,377	1024	8	7.3
04 Earth Sciences	4	318	276	8	6.8
05 Biology	6	1,253	930	8	6.8
06 Medicine	9	2,932	2,413	12	9.1
07 Agric. and Vet. Sciences	4	1,559	1,180	7	6.7
08A Civil Engineering	4	436	345	*	
08B Architecture	3	354	321	8	7.9
09 Industrial and Inform. Eng.	7	5,701	3,616	*	
10 Antiq., Philol., Liter. St., Art History	10	1,996	1,944	12	7.2
11A History, Philosophy, Pedagogy	10	1,293	1,265	8	7.4
11B Psychology	4	592	491	7	6.7
12 Law	8	1,146	1,131	8	6.9
13 Economics and Statistics	7	890	748	4	3.6
14 Political and Social Science	5	844	818	8	7.1
Total	102	22,730	18,149		



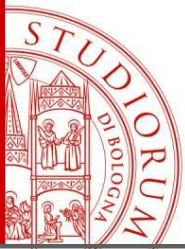
bibliometric evaluation: number of papers

Area	WoS/JCR	Scopus	W/S
01 Mathematics	566	-	-
02 Physics	2,423	2,328	2,474
03 Chemistry	2,441	-	-
04 Earth Sciences	382	403	430
05 Biology	1,616	-	-
06 Medicine	5,178	-	-
07 Agric. and Vet. Sciences	1,592	1,610	1,725
08A Civil Engineering	316	297	337
09 Industrial and Inform. Eng.	1,574	1,739	1,819
11B Psychology	590	587	656
Total	16,678	6,964	7,441



bibliometric evaluation: number of journals

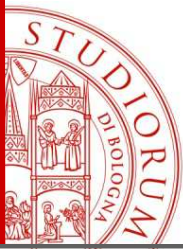
YEAR	JCR	Evaluations	Scopus	Evaluations
2008	8,232	13,348	18,384	37,135
2009	9,216	14,746	19,202	39,184
2010	10,312	16,348	20,425	43,798
2011	10,748	17,102	21,320	41,903
2012	10,936	17,429	22,310	46,506
2013	11,022	17,638	22,644	45,741



final remarks

The VRA is a complex process needing dedicated resources and more applications:

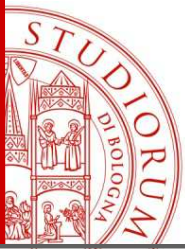
- Interview and analysis: 2 (part time)
- Data and database engineering: 1 (full time)
- Software engineering: 1 (full time)
- Bibliographic Metadata support: 2 (part time)
- Helpdesk: 2 (part time)
- Official documentation: 1 (part time)
- Panel VRA: 85
- Commission VRA: 17 + PRR
- Researchers: 2780



final remarks

What does the future hold?

- **VQR 2 + new CRIS IRIS + interuniversity** focus group on «Evaluation and research» and «Interoperability»:
 - **Improvement of interoperability** between the catalog data and external databases
 - **Improvement of the services** provided:
 - Scopus: journals percentile for ASJC / year
 - WoS: paper metadata including journal ISSN, SC, year, etc..., file with all the data of journals including percentiles, citations percentiles per document type
 - **Decrease** of the need of **resources** for VRA



thank you for your attention!

Anna Muraro anna.muraro@unibo.it