

Practical CRIS Interoperability

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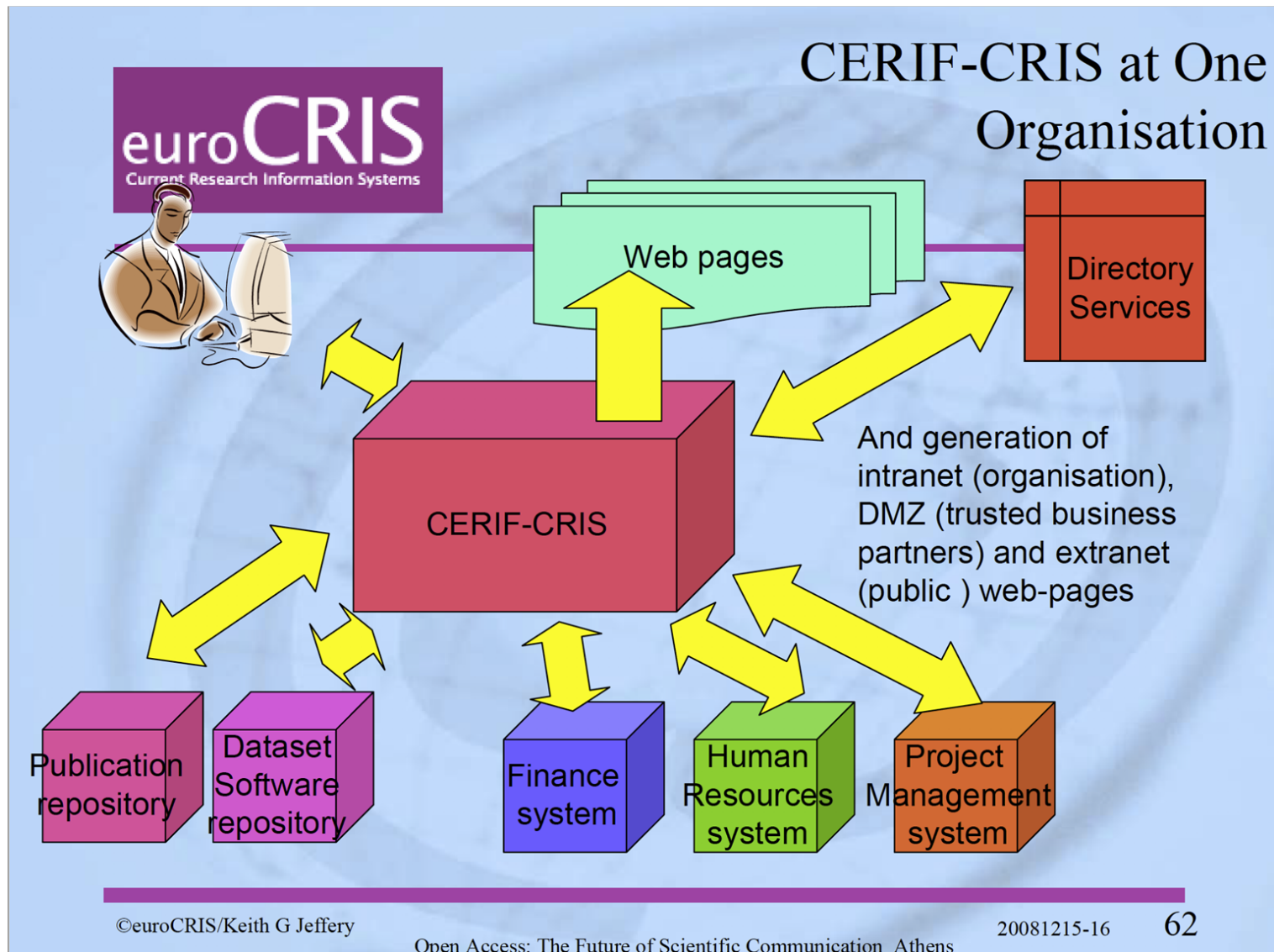
Josef Špaček¹

¹ Czech Technical University in Prague

² Charles University

³ euroCRIS

Institutional CRIS



The Czech Technical University



Basic data:

~20k students

3,500 FTE staff

8 faculties

6 university institutes

+ Computing and Information Centre

+ Central Library

Largest Technical University in CZ

Est. 1707

CRIS @ CTU

In-house built

1995-2003: outputs, projects, recognitions

Oracle Forms (console) / Oracle

2003-2016

PHP / Oracle

2015+ (projects -> **EZOP**)

2016+ (outputs+recognitions -> **V3S**)

2x Java EE app / 1x Oracle EE db

responsive UI design



Home



Search



Add



Statistics,
evaluation



Import,
export



Help

Result search

Result search

Citation search

Licences sold

Organization search

Scientific community recognition

Title, annotation

Author

Personal ID or Name...



Result type

Faculty

Department

ID or Name...



RIV database check

Record ID

From year

last year

this year

To year

last year

this year

ISBN

ISSN

Record status

☒ Draft

☒ Finished

☒ Ready for sending to RIV

☒ Sent to RIV

☐ All

☐ Cancelled

More criteria

BASICS

Language

Submit to RIV database

Keywords

Branch (original RIV classification)

Branch group (original RIV classification)

Branch (OECD) - Detailed FORD

Branch (OECD) - FORD

Superordinate record type (journal, conference etc.)

Superordinate record ID

Owner

PUBLICATION

Publication format

Publisher

Country

Published in

CONFERENCE

Country

City

Event date

My filters



Last search

Save as my filter...

Export filter...

Import filter...



Home



Search



Add



Statistics,
evaluation



Import,
export



Help

Publication detail

ID: 315906



Details



Citations



History



Diary



Checks



Evaluation

Record status

Ready for sending to RIV



O.K. for RIV

Homolka, P.; Hromčík, M.; Vyhliđal, T.

Input shaping solutions for drones with suspended load: First results

In: Proceedings of the 2017 21st International Conference on Process Control. IEEE (Institute of Electrical and Electronics Engineers), 2017. pp. 30-35. ISBN 978-1-5386-4011-1.

Result type group
Proceedings Paper

Result type in group
STA - Proceedings Paper

Language
English

Submit to RIV db
Yes, belongs to RIV

Authors



Search by surname

Rank	Share	Person	CTU
1	50 %	P. Homolka (Ing. Petr Homolka) - author CTU / FME / Department of Instrumentation and Control Engineering (100.0 %)	✓
2	30 %	M. Hromčík (doc. Ing. Martin Hromčík, Ph.D.) - author CTU / FEE / Department of Control Engineering (100.0 %)	✓
3	20 %	T. Vyhliđal (prof. Ing. Tomáš Vyhliđal, Ph.D.) - author CTU / FME / Department of Instrumentation and Control Engineering (50.0 %) CTU / CIIRC / 37200 / Department of Industrial Production and Automation (50.0 %)	✓ ✓

Total number of authors: 3

V3S <-> Web of Science & Scopus

Article data

- (1) Make our record based on the WoS/Scopus one (saves work, helps the quality)
- (2) Check for differences (requests for corrections; data quality improvement processes)
- (3) Link and export to the national CRIS
- (4) Use for evaluation reports (incl. academic promotion background reports)

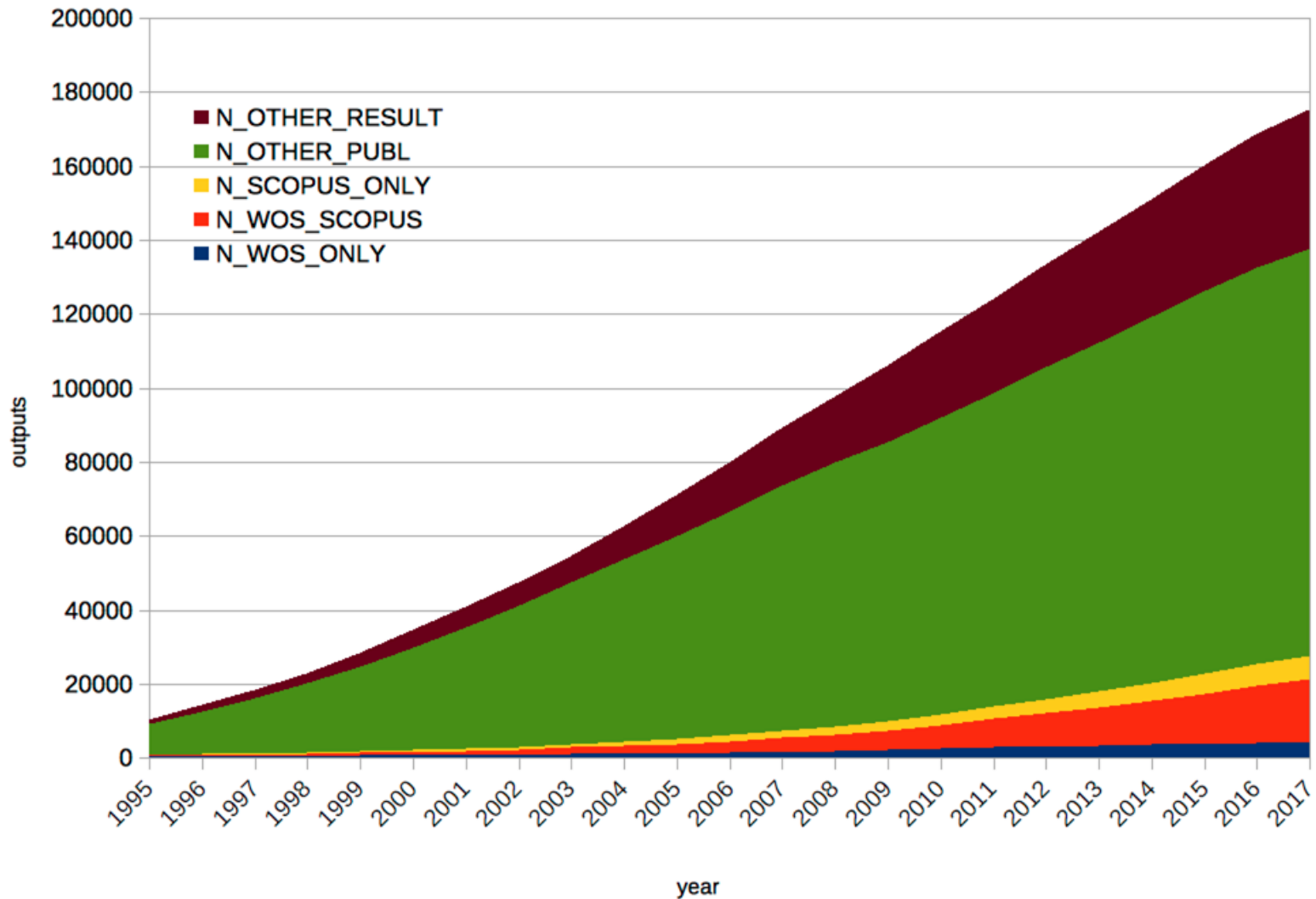
V3S <-> Web of Science & Scopus

Article data sample usage

Give the # of research projects with industrial partners that resulted in publications indexed in Scopus in the past 5 years

(The QS World University Rankings Data questionnaire)

Cumulative CTU outputs count



V3S <-> Web of Science & Scopus Citation data

Individual citing publication records

Authors approve & can correct pre-set self-citation flag (a common author in both the citing and the cited publications)

Used in evaluation reports (incl. academic promotion background reports)

Citation search

Citation categories

Web of Science: ☒ SCIE ☒ SSCI ☐ AHCI ☐ BKCI ☐ ESCI ☒ CPCI ☐ MJL ☐ All

Scopus: ☒ JOUR ☒ PROC ☐ BKSR ☐ TRAD ☐ BOOK ☐ All

Manually inserted: ☒ OTHR

Search citations with state

☒ Approved ☐ Not approved

Search

Clear form

Results found (324 citations at 79 results)

Sort
out by:

Result ID



Rank	Result ID	Result kind Result year	Result reference	Matching citation
1	225455	CLA 2015	Strasser, T.; Andrén, F.; Kathan, J.; Cecati, C.; Buccella, C.; Siano, P.; Leitao, P.; Zhabelova, G. et al. A Review of Architectures and Concepts for Intelligence in Future Electric Energy Systems IEEE Transactions on Industrial Electronics. 2015, 62(4), 2424-2438. ISSN 0278-0046.	81
Autocitations	Category, year	Citations	Action	
☐	SCIE 2018	Castilla, M.; Camacho, A.; Marti, P.; Velasco, M.; Ghahderijani, M. Impact of Clock Drifts on Communication-Free Secondary Control Schemes for Inverter-Based Islanded Microgrids IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol. 65, no. 6, pp. 4739 - 4749, 2018. ISSN 0278-0046.	...	
☐	SCIE 2018	Bullich-Massague, E.; Diaz-Gonzalez, F.; Aragues-Penalba, M.; Girbau-Llistuella, F.; Olivella-Rosell, P.; Sumper, A. Microgrid clustering architectures APPLIED ENERGY, vol. 212, pp. 340 - 361, 2018. ISSN 0306-2619.	...	
☐	SCIE 2018	Chen, M.; Xiao, X. Hierarchical frequency control strategy of hybrid droop/VSG-based islanded microgrids ELECTRIC POWER SYSTEMS RESEARCH, vol. 155, pp. 131 - 143, 2018. ISSN 0378-7796.	...	
☐	SCIE 2018	Memon, M.; Mekhilef, S.; Mubin, M.; Aamir, M. Selective harmonic elimination in inverters using bio-inspired intelligent algorithms for renewable energy conversion applications: A review RFNFWARIF & SUSTAINARIF ENRGY REVIEWS vol. 82 no. 2235 - 2253 2018 ISSN 1364-0321	...	

V3S <-> Web of Science & Scopus

Source data

Index type (SCIE/SSCI/A&HCI/CPCI/...)

Source type (Journal/Book Series/Conference Proceedings)

Subject categories

Quantitative indicators: Journal Impact Factor (JIF), Article Influence Score (AIS), SCImago Journal Rank (SJR), CiteScore, Source Normalized Impact per Paper (SNIP), ...

Used in evaluation reports (incl. academic promotion background reports), data exports

V3S <-> Web of Science & Scopus Implementation

WoS integration: since 2008

Scopus integration: since 2013

Nightly jobs synchronize new and updated records from WoS & Scopus webservices into our database

Journal data imported semiautomatically when new version available

V3S <-> Web of Science & Scopus Conflicts

Web of Science conflicts ([000380400500018](#))

Data from WOS database were downloaded on May 26, 2018 12:17:36 AM. Conflicts can be updated one day later though.

Impact	Item	Entry in WoS	V3S entry
	Digital Object Identifier		10.1109/SOCC.2015.7406919
	ISBN	978-1-4673-9094-1	978-1-4673-9093-4
	ISSN		2164-1706

Scopus conflicts ([2-s2.0-84962476845](#))

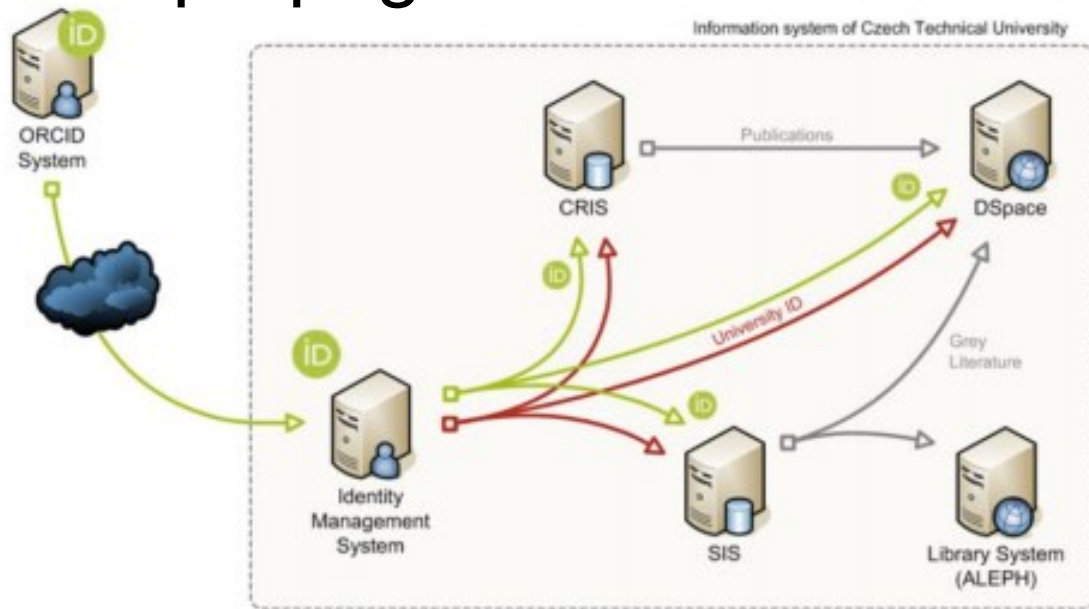
Data from Scopus database were downloaded on May 29, 2018 1:29:22 AM. Conflicts can be updated one day later though.

Impact	Item	Entry in Scopus	V3S entry
	Year of publication	2016	2015

V3S <-> ORCID

ORCID iDs

- integrated in our Identity Mgmt system since 2016
- propagated to the CRIS & beyond



Share	Person
50 %	P. Homolka (Ing. Petr Homolka) - author CTU / FME / Department of Instrumentation and Control Engi
30 %	M. Hromčík (doc. Ing. Martin Hromčík, Ph.D.) - author CTU / FEE / Department of Control Engineering (100.0 %)
20 %	T. Vyhřídál (prof. Ing. Tomáš Vyhřídál, Ph.D.) - author CTU / FME / Department of Instrumentation and Control Engi CTU / CIIRC / 37200 / Department of Industrial Production an

Total number of authors: 3

V3S+EZOP <-> Identity Mgmt System, HR System, Study Management IS

Organisational Structure (~800 units)

Staff & roles

Students

Doctoral Students incl. Department, Supervisor
& date of defense

~150,000 total persons

~22,000–25,000 active (seasonal oscillations)

V3S+EZOP <-> Finance IS, Document Mgmt System, Institutional Data Warehouse

Project proposal and successive documents go through an approval process internally

EZOP integrated with Finance IS

- Per-project “business case” numbers

Usage: in reporting to the Statistics Office,
internal reporting and evaluation

V3S+EZOP <-> internal grants system

SGS: Internal grants IS for doctoral and master students' scientific work:

- Students and/or their supervisors propose research projects
- Proposals approved by the dept heads and the deans
- Submitted proposals evaluated
- Awarded projects managed
- Interim and final evaluation of the projects
- Generate reports for the Ministry

Project information transferred to EZOP

Output metadata collected in V3S and transferred to SGS

And other integrations ...

Institutional Open Access repository (DSpace)

- on the roadmap

External reporting

National CRIS

- through the funders

Statistics Office

Blue sky integrations

Institutional Technology transfer office

- Patent licenses & fee handling
- Spin-off tracking

Funders' CRISs

- Project proposals
- Award notices
- Structured reporting of:
 - Activity
 - Finance
 - Outputs

České vysoké učení technické v Praze v3s Mg

Evaluation of R&D by department

 Last updated: 2018-06-07, 09:44:14
Updated every hour.

☒ Qualification of the staff
 ☒ Publications
 ☒ Results of applied research
 ☒ Citations
 ☒ All

☒ Grants and contractual research
 ☒ PhD students
 ☒ Recognitions
 ☒ Selected results

☒ pedagogical staff ☒ researcher ☐ other staff ☒ doctoral student ☐ student - master level ☐ All

☐ student - bachelor level ☐ without relationship

Display settings

Faculty	Period
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Period

Sort out by

13000 - Faculty of Electrical Engineering

2017

Total points

13000 - Faculty of Electrical Engineering

13000 - Faculty of Electrical Engineering

Department		Qualif the	Rank	Person	Person number		Relationship	Department	Total points	Average over year					
			1	Matas Jiří prof. Ing. Ph.D. 	32913	pedagogical staff	13162	1,810.887	1,810.887	44.33					
13000 - without classification			2	Polcar Tomáš prof. Ing. Ph.D. 	61625	pedagogical staff	13135	1,091.319	1,091.319	18.21					
			3	Bečvář Zdeněk doc. Ing. Ph.D. 	303250	pedagogical staff	13132	870.829	870.829	3.98					
13101 - Department of Mathematics			4	Mach Pavel Ing. Ph.D. 	303477	researcher	13132	785.047	785.047	2.99					
13102 - Department of Physics			5	Ripka Pavel prof. Ing. CSc. 	30982	pedagogical staff	13138	749.941	749.941	28.83					
13113 - Department of Electrotechnics			148.600	1,710.359	255.405	166.749	151.984	102.000	35.238	2,570.335	0.52				
13114 - Department of Electric Drive Traction		Department no.	Part / department			%	Count	Points	Count	Points	Count	Points	Co0.28		
13115 - Department of Electrical Power Engineering		11000	Faculty of Civil Engineering			21.93	1,942.955	35,476.432	337.437	3,742.296	668.246	4,782.677	375.570	17,042.797	2.81
13116 - Department of Economics, Management and Humanities		12000	Faculty of Mechanical Engineering			13.00	1,065.055	21,031.621	39.061	399.566	290.050	2,022.908	179.713	7,146.766	0.00
13117 - Department of Electromagnetics		13000	Faculty of Electrical Engineering			30.60	2,481.627	49,486.677	106.789	563.465	1,293.321	11,811.965	676.442	28,643.551	4.00
13118 - Department of Electromagnetics		14000	Faculty of Nuclear Sciences and Physical Engineering			18.58	778.312	30,054.880	14.640	149.867	248.225	1,888.651	424.987	26,230.115	0.00
13119 - Department of Electromagnetics		15000	Faculty of Architecture			1.54	216.296	2,494.476	117.963	1,464.408	37.419	242.079	10.563	1,122.689	8.57
Average			12	27	15	249.58	277.76	267.39	4.62	5.31	3.49	2.41	4.66	7.95	

In-House Built CRIS

- More flexible
- Less formal process
- Tailored for the institution

advantage for organisational and national specificities

Compared to

contracted bespoke-built systems

CRIS products

SaaS CRIS offerings

an in-house built CRIS is **better integrated**
in the information ecosystem of the university.

CRIS Integrations in general

Many different interconnections:

Diverse styles: API, data files, web harvesting, ...

Semantic mismatch (classifications)

Ambiguity

Who is the authority? Is there any? Fuzzy word matches?

Many purposes, different contexts

De-duplications (recognition of similarity, reconciling)

Maintenance workload due to interface changes

=>

More standardisation wanted!