Maastricht University Leading in Learning!

Be Informed: Maximising the benefits of Business warehouse

Break Out Session 3

SROC 2012

Newcastle University

27 March 2012

Agenda

- Project Be Informed
  - Project objectives and outcomes
  - Project approach
  - Project organisation
- Demo management reports Education
- Questions

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Project Be Informed

Objectives and outcomes

27 March 2012

Project objectives

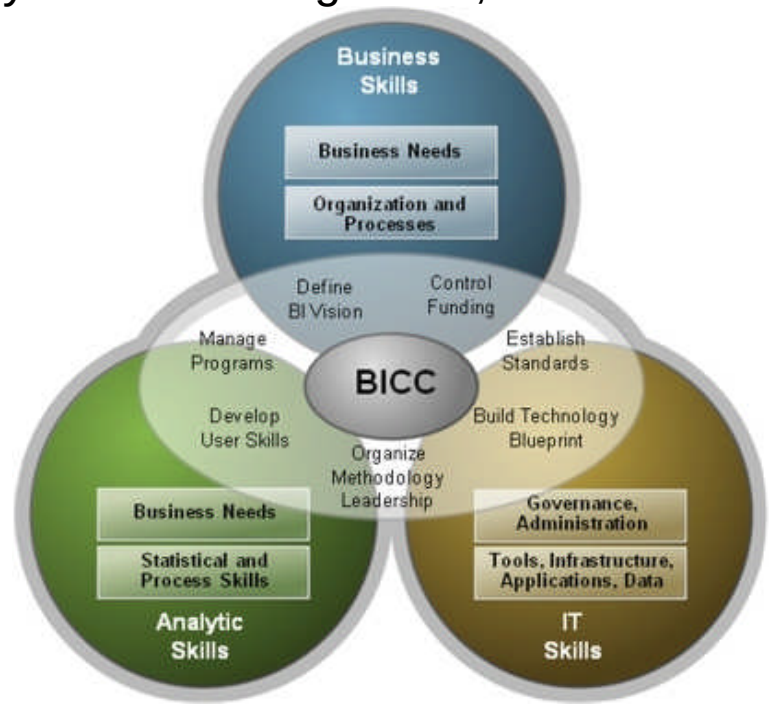
- Delivery of several urgent management reports
- The realisation of a future proof BI-organisation

Project outcomes

1. BI-governance
2. Management reports
3. Technology
4. Education plan BI community
5. Communication plan BI community

Ad 1 BI governance

- A governance structure facilitating the following:
  - Translation of strategic goals Maastricht University to BI strategy
  - Steering of the BI-program;
  - Determine standards, systems, processes and reports;
  - Collecting and prioritizing information needs organisation;
  - Educate end- and key users, analysts and management;
  - Budget keeping BI;
  - Setting up support processes BI;



Bron: Gartner

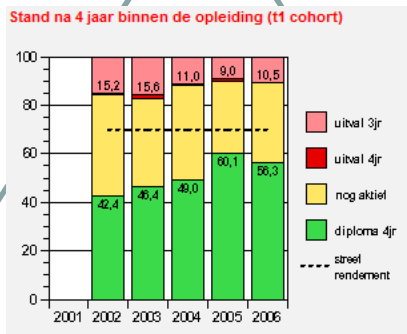
Ad 2 Management reports

- Content Education reports based on requirements
  - Institutional accreditation (NVAO)
  - Balanced Score Card based on Strategic Program UM
  - Top 3 reports per domain
    - HR
    - Finance
    - Facility

Ad 2 Management reports

- Starting points
  - Perspective Maastricht University
  - Strategic report
  - Central Information Systems as underlying data sources
  - Project not about data quality and -input
  - Business determines definitions
  - UvA as reference
  - Go MAD

Principle Monitor-Analyse-Drill through (Go MAD)



Monitor: a simple overview/graph with the most important information

Analyse studiesucces

Studiejaar	(T) cohort	% uitv 1 (opl)	(T1) cohort	% uitv 3 (T1 opl)	% ba 4 (T1 opl)	% ba 4 (T1 hoop)
1995	450	17 %	374	31 %	0 %	0 %
1996	421	16 %	354	28 %	1 %	1 %
1997	325	19 %	262	29 %	2 %	2 %
1998	379	26 %	280	28 %	1 %	2 %
1999	345	20 %	277	24 %	3 %	3 %
2000	392	24 %	296	27 %	3 %	3 %
2001	337	23 %	261	28 %	5 %	5 %
2002	326	31 %	226	21 %	9 %	9 %
2003	318	26 %	235	27 %	17 %	19 %
2004	347	44 %	194	12 %	31 %	33 %
2005	425	45 %	233	14 %	48 %	49 %
2006	416	48 %	216	11 %	61 %	63 %
2007	461	51 %	227	11 %		
2008	524	43 %	301			
2009	536	48 %	278			

Analyse: a flexible report with all relevant components available

verzicht UvA-studenten 2

dentnummer	Geslacht	Leeftijd	Nationaliteit (OCW)	Vooropleiding	Punten	Aantal records
aalresultaat					12.174	461
863	vrouw	23	Nederland	vwo	74	
509	man	22	Nederland	vwo	50	
196	vrouw	27	Nederland	vwo	50	
205	vrouw	24	Nederland	vwo	40	
474	man	22	Nederland	vwo	30	
358	vrouw	21	Nederland	vwo	40	
074	vrouw	21	Nederland	vwo	45	
406	man	20	Nederland	vwo	50	
623	man	20	Nederland	vwo	15	
723	man	23	Nederland	vwo	0	1
853	vrouw	20	Nederland	vwo	65	1
298	vrouw	20	Nederland	vwo	30	1
809	man	21	Nederland	vwo	30	1
884	man	20	Nederland	vwo	40	1

Drill through: a flexible report with detail information (lowest level); *atomic data*

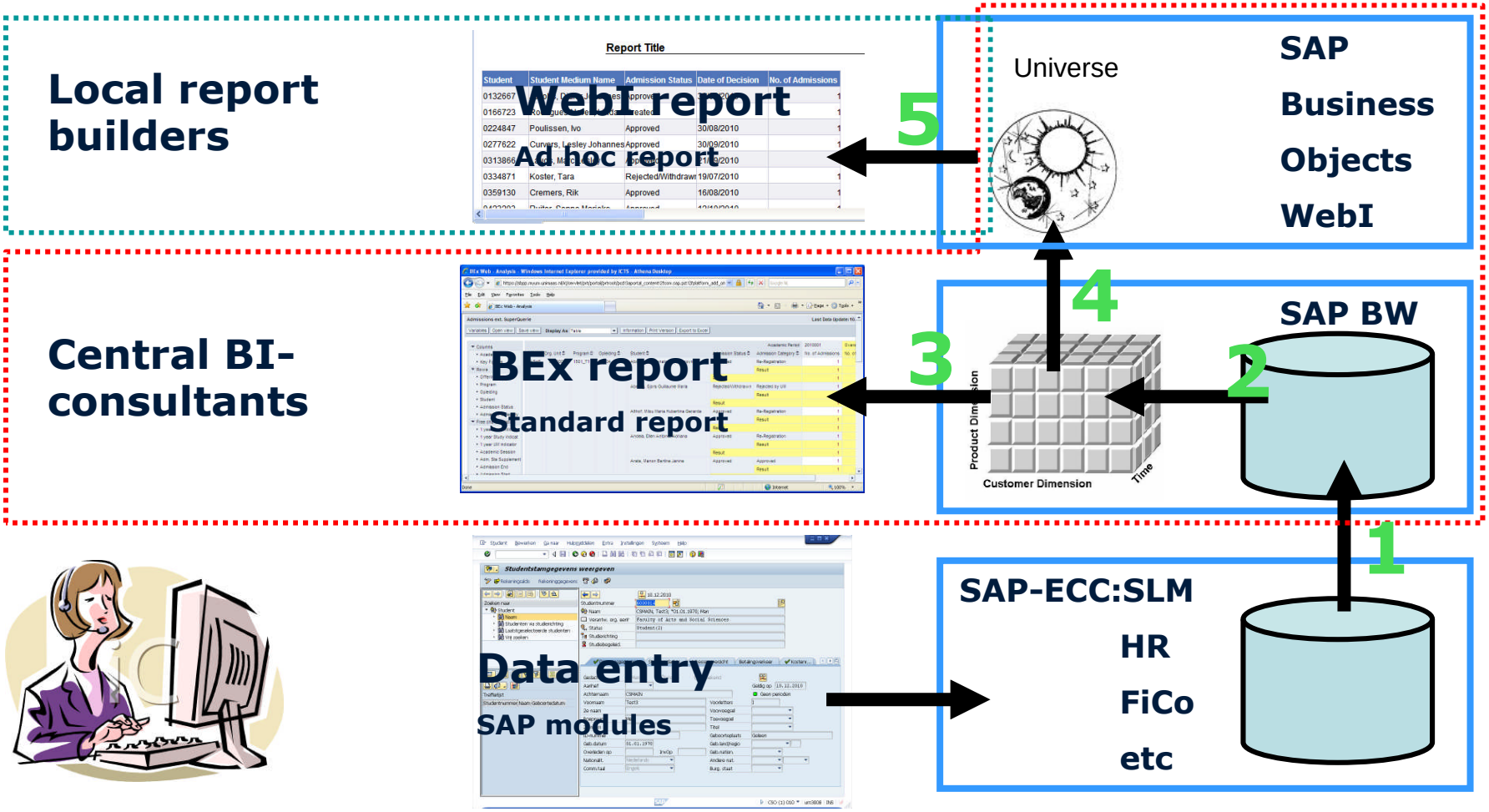
Management reports Education

1. Admissions (data SAP SLM)
2. Registrations (data SAP SLM)
3. Registrations (data benchmark 1cHO)
4. Efficiency (data benchmark 1cHO)
5. Study progress - student (data SAP SLM)
6. Study progress - module (data SAP SLM)
7. Funding - diplomas (data SAP SLM)
8. Funding – Registrations (data SAP SLM)

Ad 3 Technology

- Maastricht University has SAP-BI & SAP-BO
- Current policy: SAP-BI, unless
- Future: SAP-BO
- Use of BI-portal (within MyUM/SAP portal): language settings!
- Create IT-roadmap BI-systems for the UM

Current state: From data entry to report



Ad 4+5 Education and Communication plan

- Communication plan
  - Determine stakeholders
  - Determine communication channels
  - Focus on building strong (decentralized/virtual) BI-community

- Education plan
  - Working with BI-tools
  - Working with management reports
  - Focus on key-users and end-users'

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Project Be Informed

Project approach

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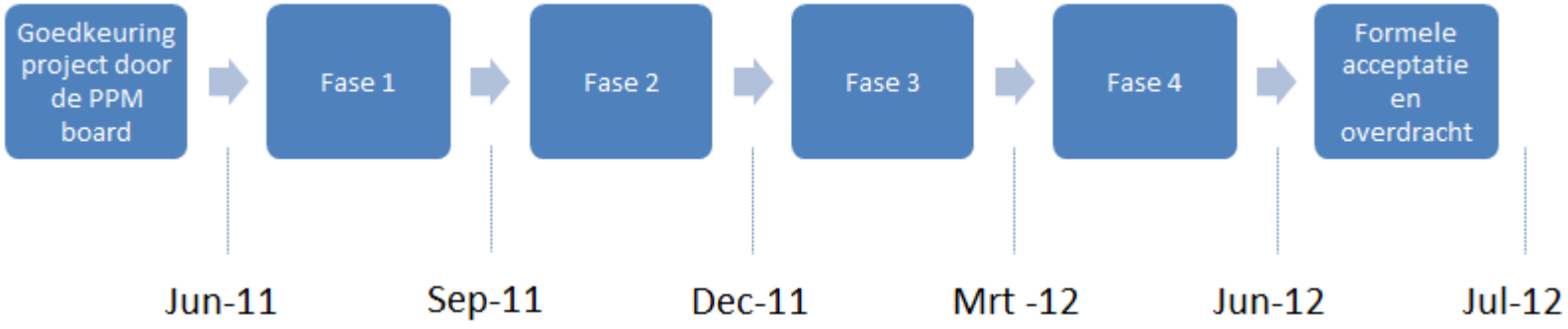
Project approach



- Project duration: 1 year
- 4 Stages
  - Per Stage: project results
  - Per Stage: focus on themes
  - Working in small teams
  - After every Stage: go/no-go (steering committee)

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Project Be Informed

Project organisation

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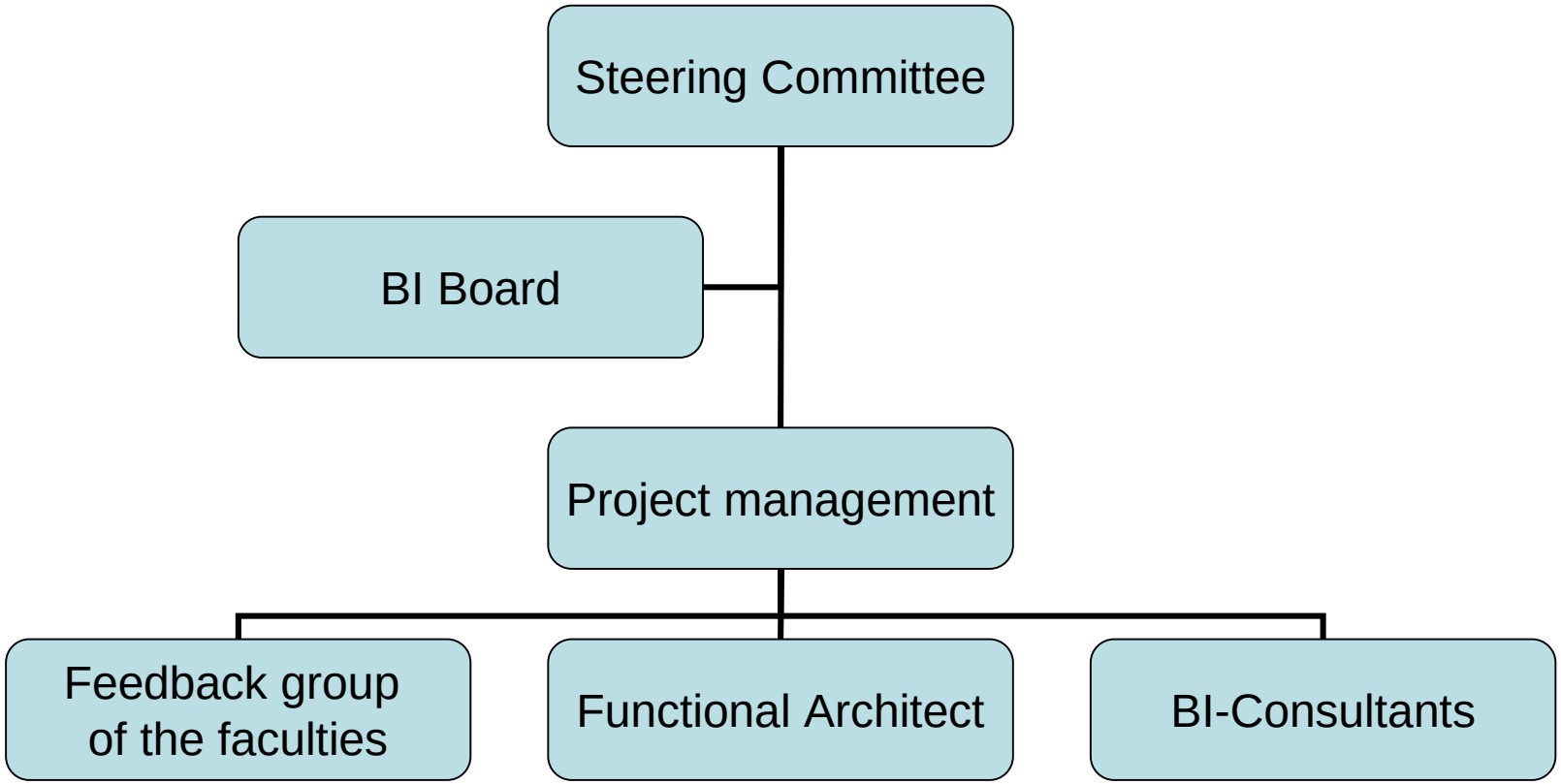
Project organisation



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Demo management reports Education

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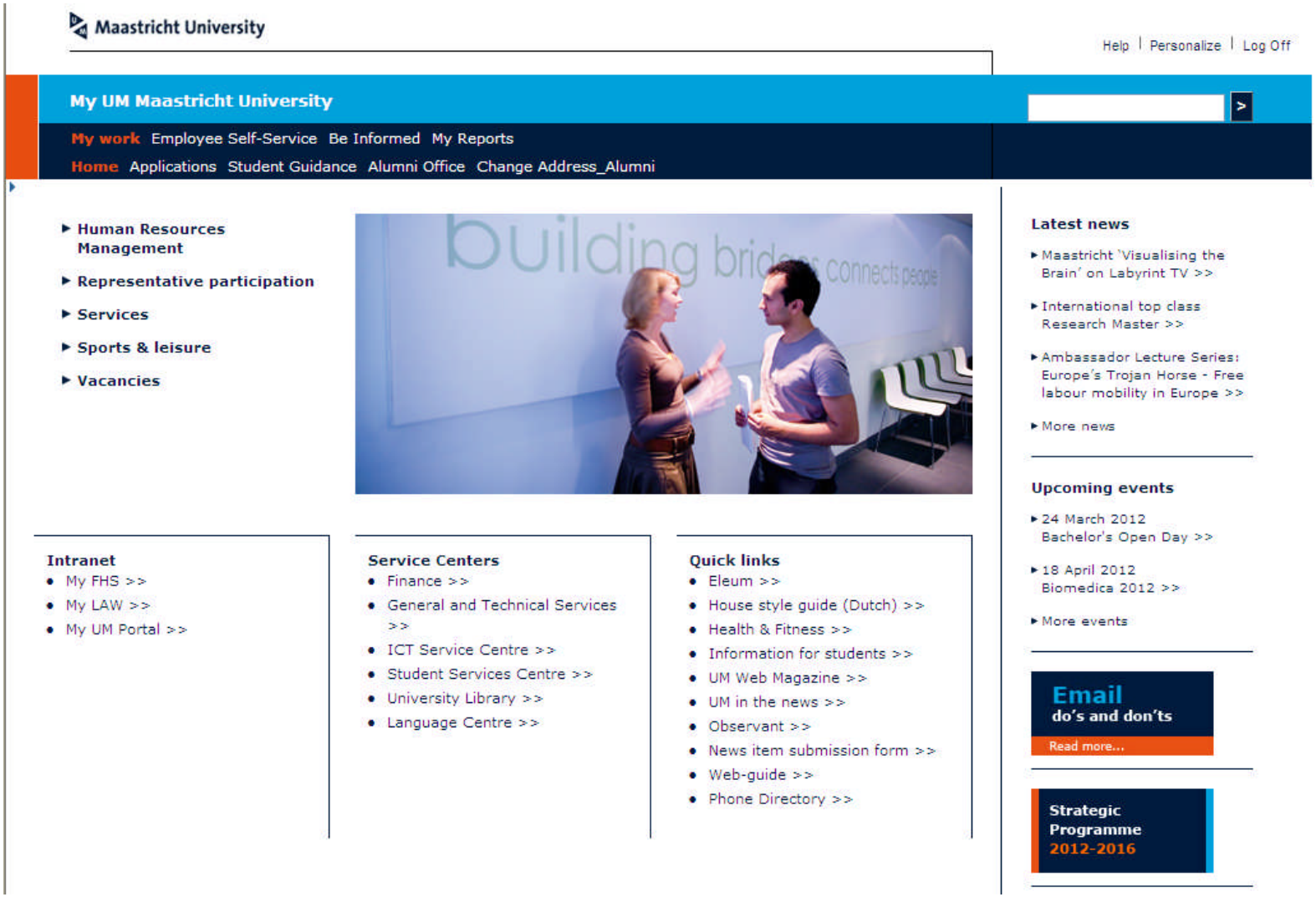
Starting the reporting-tool



Be Informed portal

Education reports

Title

Filter block

Tabs

Result Area

Buttons

Admissions

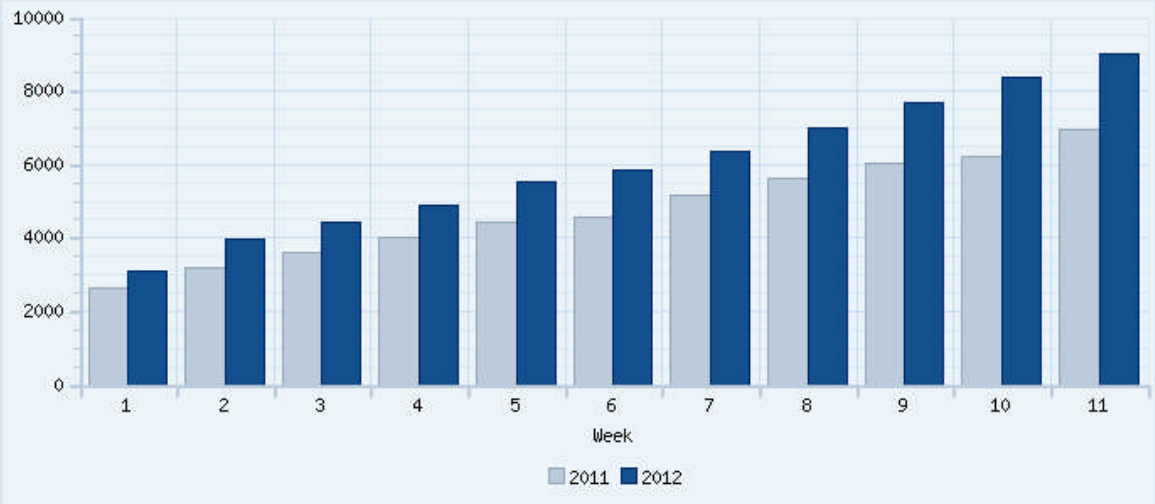
Filterblok

Academic Year:	Alle waarden weerg...	Program:	Alle waarden weerg...	Gender:	Alle waarden weerg...
Academic Session:	1 Year	Program Type:	Alle waarden weerg...	Nationality:	Alle waarden weerg...
Admission Status:	Alle waarden weerg...	Program Choice:	Alle waarden weerg...	Parttime/Fulltime:	Alle waarden weerg...
Admission Category:	Alle waarden weerg...	Regular /Non Regular:	Regular (Studielink)	Week:	1 - 11
Faculty:	Universiteit Maastri...	Pre-education:	Alle waarden weerg...	Origin:	Alle waarden weerg...

Monitor | Analyse

Keyfigures: No. of Total Admissions

Week	1	2	3	4	5	6	7	8	9	10	11
2011	2.620	3.193	3.615	3.997	4.425	4.570	5.156	5.617	6.045	6.230	6.942
2012	3.095	3.949	4.423	4.876	5.506	5.863	6.365	7.007	7.702	8.375	8.996



Favorieten | Variabelenscherm | Informatie | Gebruikersdocumentatie

Admissions

- Key-figures, students or admissions
- Comparison previous year
- Every week a picture of the data
- Use of Admission status and Category
- Use of Origin

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Admission Monitor

Admissions

Filterblok

Academic Year:	Alle waarden weerg...	Program:	Alle waarden weerg...	Gender:	Alle waarden weerg...
Academic Session:	1 Year	Program Type:	Alle waarden weerg...	Nationality:	Alle waarden weerg...
Admission Status:	Alle waarden weerg...	Program Choice:	Alle waarden weerg...	Parttime/Fulltime:	Alle waarden weerg...
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Monitor | Analyse

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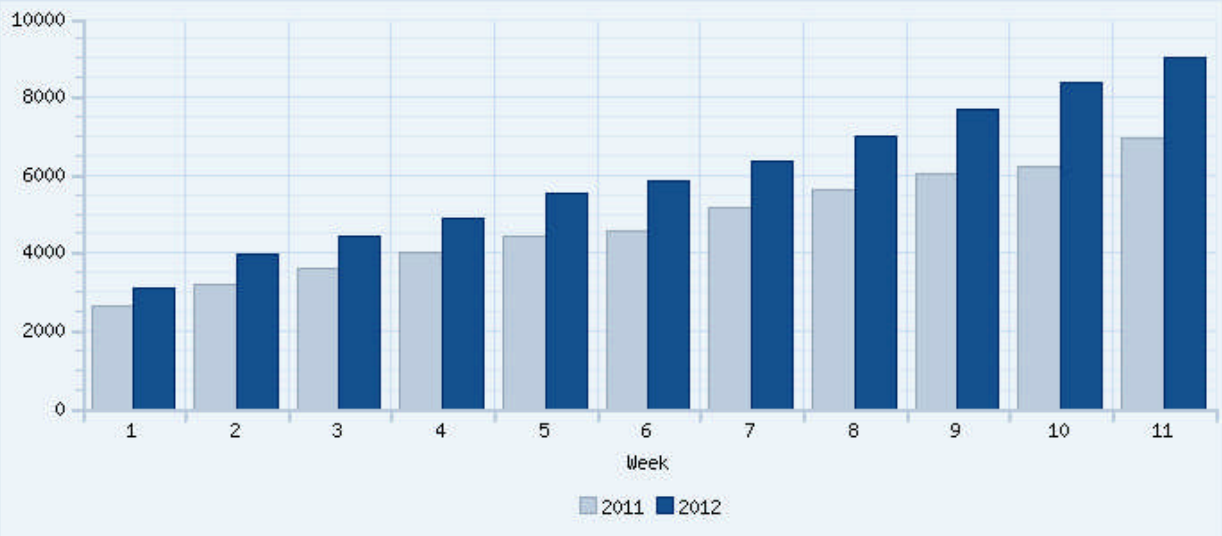

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Admission Analyse

Admissions

Filterblok

Academic Year:	Alle waarden weerg...	Program:	Alle waarden weerg...	Gender:	Alle waarden weerg...
Academic Session:	1 Year	Program Type:	Alle waarden weerg...	Nationality:	Alle waarden weerg...
Admission Status:	Alle waarden weerg...	Program Choice:	Alle waarden weerg...	Parttime/Fulltime:	Alle waarden weerg...
Admission Category:	Alle waarden weerg...	Regular /Non Regular:	Regular (Studielink)	Week:	11
Faculty:	Universiteit Maastri...	Pre-education:	Alle waarden weerg...	Origin:	Alle waarden weerg...

Monitor | Analyse

No. of Total Admissions

- Kolommen
  - Admission Status
  - Structuur
- Regels
  - Admission Category
- Vrije kenmerken
  - Academic Session
  - Faculty
  - Gender
  - Nationality
  - Origin
  - Parttime/Fulltime
  - Pre-education
  - Program
  - Program Choice
  - Program Type
  - Regular /Non Regular
  - Week

Dynamische filter

Admission Status	Approved		Created		Rejected/Withdrawn		Totaalresultaat	
Admission Category	2011	2012	2011	2012	2011	2012	2011	2012
Pending		1	3.206	2.292	4		3.210	2.293
Conditionally Approved			100	332			100	332
Rej/Withd by Student					336	507	336	507
Rejected by UM			3		201	45	204	45
Re-Registration			13	18			13	18
Desk Registration			1	1			1	1
Non-Responding Student			1.405	1.445	5		1.410	1.445
Admissible			512	2.762			512	2.762
Non-Responding (Admissions)				83		2		85
Rejected by UM (Admissions)						252		252
Rejected by UM (Registrations)						1		1
Processing Admission Forms			181	151	2		183	151
Initial			968	1.102	5	1	973	1.103
Niet toegewezen				1				1
Totaalresultaat		1	6.389	8.187	553	808	6.942	8.996

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Origin of students

Filterblok

Academic Year:	Alle waarden weerg...	Program:	Alle waarden weerg...	Gender:	Alle waarden weerg...
Academic Session:	1 Year	Program Type:	Alle waarden weerg...	Nationality:	Alle waarden weerg...
Admission Status:	Alle waarden weerg...	Program Choice:	Alle waarden weerg...	Parttime/Fulltime:	Alle waarden weerg...
Admission Category:	Alle waarden weerg...	Regular /Non Regular:	Regular (Studielink)	Week:	11
Faculty:	Universiteit Maastri...	Pre-education:	Alle waarden weerg...	Origin:	GB Ver. Koninkrijk

Monitor | Analyse

No. of Unique Students

- Kolommen
  - Admission Status
  - Structuur
- Regels
  - Nationality
- Vrije kenmerken
  - Academic Session
  - Admission Category
  - Faculty
  - Gender
  - Origin
  - Parttime/Fulltime
  - Pre-education
  - Program
  - Program Choice
  - Program Type
  - Regular /Non Regular
  - Week

Dynamische filter

Admission Status	Created		Rejected/Withdrawn		Totaalresultaat	
Nationality	2011	2012	2011	2012	2011	2012
Totaalresultaat	271	390	26	32	289	413
EER	148	181	9	9	154	186
NL	19	40	2		20	40
BE	3	6		1	3	6
DE	44	55	1	5	45	58
EU	82	80	6	3	86	82
NIET EER	15	37		6	15	41
ONBEKEND	80	170	12	17	90	184
BRITS ONDERDAAN	80	170	12	17	90	184
Niet toeg. Nationality(n/e)	28	2	5		30	2

Registrations

- Real-time data, no pictures of data
- Possible to look back at certain moments. 1 October, 1 February.
- Key-figures, Unique students, No of registrations.

Registrations Monitor

Registrations

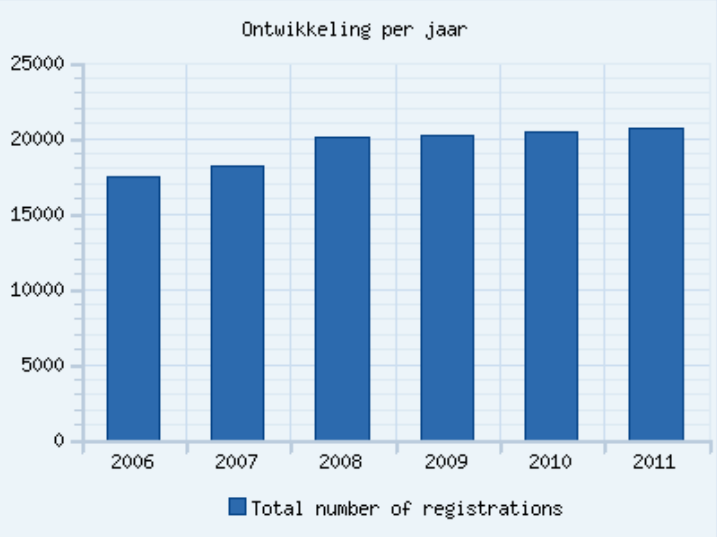
Filterblok

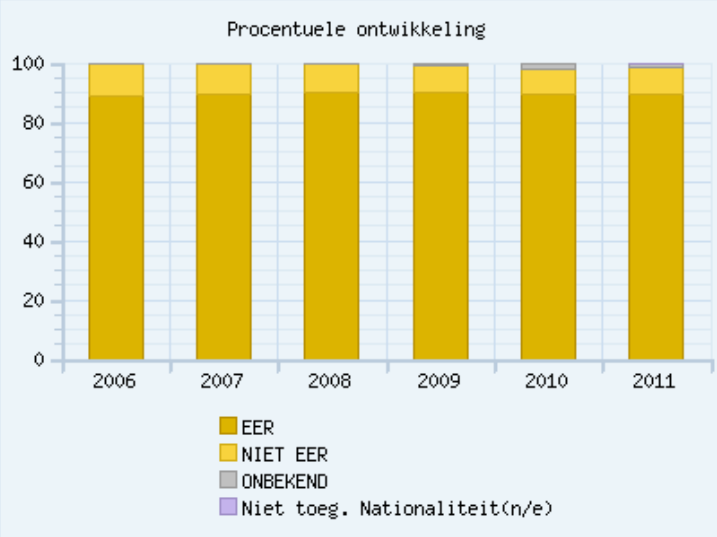
Academic Year:	Alle waarden weerg...	Regular /Non Regular:	Alle waarden weerg...	Croho code:	Alle waarden weerg...
Faculty:	Alle waarden weerg...	Pre-education:	Alle waarden weerg...	1 Year UM:	Alle waarden weerg...
Program:	Alle waarden weerg...	Gender:	Alle waarden weerg...	1 year Study:	Alle waarden weerg...
Program Type:	Alle waarden weerg...	Nationality:	Alle waarden weerg...	Status active:	Active oct 1st
Program Choice:	Alle waarden weerg...	Parttime/Fulltime:	Alle waarden weerg...	Origin:	Alle waarden weerg...
Academic Session:	1 Year				

Monitor | Analyse

Key figures: Total number of registrations

Faculty	Program (desc.)	2006	2007	2008	2009	2010	2011
Organisatiestructuur		14.400	15.267	17.331	20.015	19.719	20.049
UM		14.400	15.267	17.331	20.015	19.719	20.049





Registrations Analysis

Registrations

Filterblok

Academic Year:	Alle waarden weerg...	Regular /Non Regular:	Regular (Studielink)	Croho code:	Alle waarden weerg...
Faculty:	Alle waarden weerg...	Pre-education:	Alle waarden weerg...	1 Year UM:	Alle waarden weerg...
Program:	Alle waarden weerg...	Gender:	Alle waarden weerg...	1 year Study:	Alle waarden weerg...
Program Type:	Alle waarden weerg...	Nationality:	Alle waarden weerg...	Status active:	Active now
Program Choice:	Alle waarden weerg...	Parttime/Fulltime:	Alle waarden weerg...	Origin:	Alle waarden weerg...
Academic Session:	1 Year				

Monitor | Analyse

Total number of registrations

- Kolommen
  - Key figures
  - Academic Year
- Regels
  - Faculty
- Vrije kenmerken
  - 1 year Study
  - 1 Year UM
  - Croho code
  - Gender
  - Nationality
  - Origin
  - Parttime/Fulltime
  - Pre-education
  - Program
  - Program Type
  - Regular /Non Regular
  - Status active

Dynamische filter

	Total number of registrations					
Faculty | Academic Year	2006	2007	2008	2009	2010	2011
Organisatiestructuur	11.597	12.148	13.424	14.769	14.457	14.628
UM	11.597	12.148	13.424	14.769	14.457	14.628
FHML	3.817	3.669	3.825	4.132	4.088	4.090
FPN	1.144	1.322	1.401	1.634	1.553	1.590
SBE	2.893	3.046	3.618	4.100	3.911	3.908
FdR	1.822	1.952	2.163	2.331	2.330	2.358
FHS	580	702	792	817	828	926
FASoS	1.341	1.457	1.625	1.755	1.747	1.756

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Registrations Analysis

Monitor | Analyse

Total number of registrations

- Kolommen
  - Key figures
  - Academic Year
- Regels
  - Faculty
  - 1 Year UM
- Vrije kenmerken
  - 1 year Study
  - Croho code

Faculty	1 Year UM | Academic Year	Total number of registrations 2006	2007	2008	2009	2010	2011
UM	N	1.431	2.002	2.807	3.466	3.800	3.784
	Y	507	630	837	836	807	1.108
	Resultaat	1.938	2.632	3.644	4.302	4.607	4.892
FHML	N	241	511	892	1.288	1.313	1.284
	Y	107	149	163	155	149	187
	Resultaat	348	660	1.055	1.443	1.462	1.471
FPN	N	169	221	267	352	384	403
FHML	N	241	539	962	1.290	1.313	1.283
	Y	107	149	163	156	149	187
	Resultaat	348	688	1.125	1.446	1.462	1.470
FPN	N	169	221	267	352	384	401
	Y	22	24	43	36	51	11
	Resultaat	191	245	310	388	435	51
SBE	N	588	653	907	970	1.139	1.07
	Y	129	157	304	307	256	338
	Resultaat	64	87	96	93	118	152
FASoS	N	103	108	123	158	149	173
	Y	130	141	144	147	163	192
	Resultaat	233	249	267	305	312	365

- Terug
- Ga naar → Registrations per student
- Drill-down wijzigen
- Afdrukversie
- Verdelen en exporteren
- View opslaan
- Eigenschappen

Status inschr. per.	Actief
Registration Status	N
Academic Session	1 Year
Academic Year	2006 - 2011
Faculty	UM
Program Type	Master
Regular /Non Regular	Regular (Studielink)
Key figures	Total number of registr
Status active	Active now
Current Academic Year	2011

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Student details

Analyse

Total number of registrations

- Kolommen
  - Key figures
- Regels
  - Student
  - Program
- Vrije kenmerken
  - 1st Nationality
  - 1 Year Faculty
  - 1 year Study
  - 1 Year UM
  - 2nd Nationality
  - Academic Session
  - Academic Year
  - Business Partner (Student)
  - Croho code
  - Faculty
  - Gender
  - Nationality
  - Non-regular end
  - Non-regular start
  - Origin
  - Parttime/Fulltime
  - Pre-education
  - Program Choice
  - Program Type
  - Registered on

Pagina 1 van 3

Student		Program	Studiericht. (oms.)	Total number of registrations
536822	Goedhart, Petra Janine	3601	MA Mental Health	1
633453	Meincke, Peter Frederik	3699_T5	MA Publ Health: Epidemiology	1
6005707	Lahri, Naima	3601	MA Mental Health	1
6006546	Geelen, Kristel Maria Oda	6601	MA Geneeskunde	1
6006554	Martens, Katrien	6603	MA Arts Klinisch Onderzoeker	1
6006827	Welmer, Aletta Gabriële	3612	Ma European Public Health	1
6007762	Rings, Lauretta Johanna Wilhelmina	6601	MA Geneeskunde	1
6009768	Schmitz, Stefanie	3601	MA Mental Health	1
6010985	Thiesen, Gerarda Hubertina Francisca	3601	MA Mental Health	1
6011080	Jakobs, Maria Louisa Gertruda	3601	MA Mental Health	1
6011166	Camps, Els Petronella	3601	MA Mental Health	1
6011756	Mostard, Lambertha Johanna Christina Ger	3601	MA Mental Health	1
6011757	Dauven, Lobke	3601	MA Mental Health	1
6014145	Pols, Esther	3601	MA Mental Health	1
6014149	Drummen, Bente	3601	MA Mental Health	1
6015237	Schop, Sijmen Jan	6603	MA Arts Klinisch Onderzoeker	1
6016749	Vonk, Jeroen	3607_T3	MA Phys Act + Health: biol of hum perfor	1
6017034	Franck, Lisa-Lotte	3601	MA Mental Health	1
6017043	Spaai, Nathalie Jeannette Josephina	3601	MA Mental Health	1
6017901	Kempener, Chantalle Martina Francesca Hu	3601	MA Mental Health	1
6019045	Michielse, Stijn Martinus Arnoldus	3609	MA Health Sciences (Research)	1
6023114	Melick, Dominique Catharine Hubertine	3601	MA Mental Health	1
6024000	Küppers, Verena	3601	MA Mental Health	1

Registrations/Efficiency 1CHO

- National figures of all Dutch universities
- Contains: previous education, origin, age, cohort
- Once a year available
- Information about own students in detail, other universities on aggregated level

Registrations 1CHO

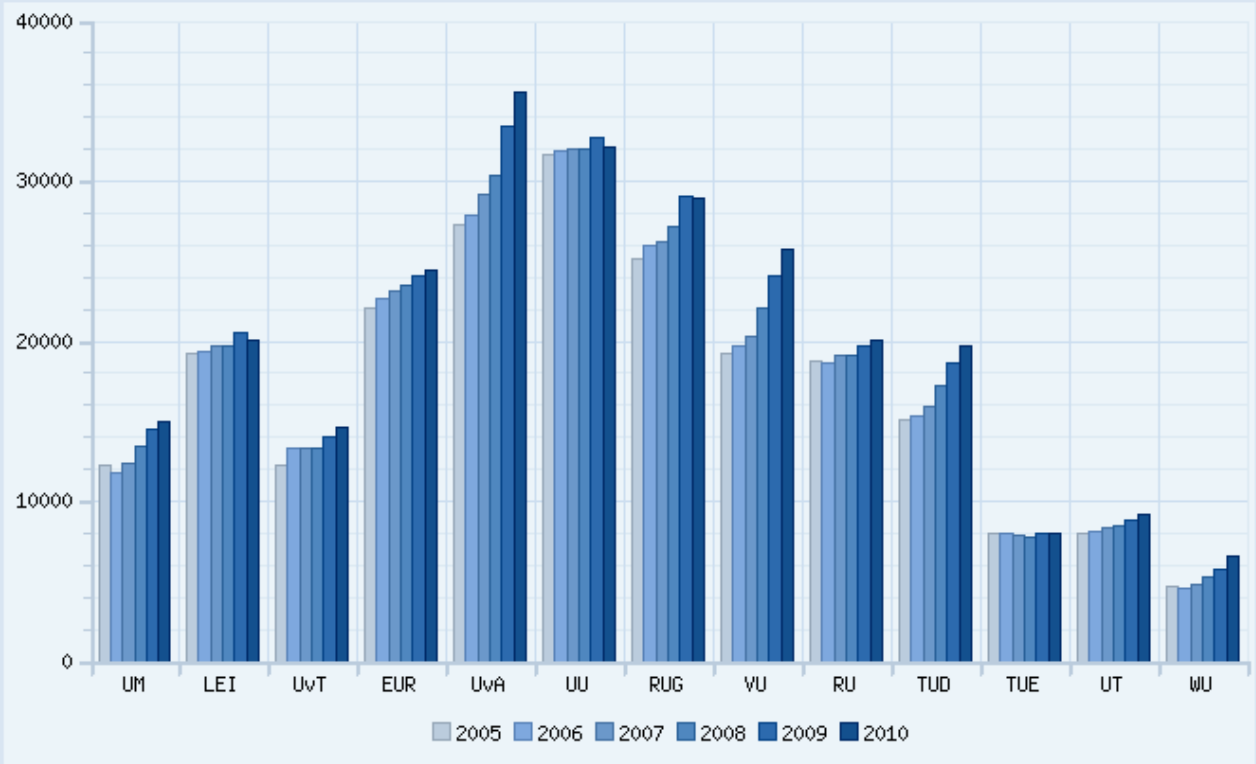
Registraties 1cHO

Filterblok

Studiejaar:	2005 - 2010	Actief op peildatum:	Actief op 1 okt.	Geslacht:	Alle waarden weerg...
Instelling:	Alle waarden weerg...	Nationaliteit:	Alle waarden weerg...	Hoofdstudie HO:	Alle waarden weerg...
Croho code:	Alle waarden weerg...	Vooropleiding:	Alle waarden weerg...	Indicatie hoofdstudie:	Alle waarden weerg...
Opleidingsfase:	Alle waarden weerg...	Leeftijd:	Alle waarden weerg...	Opleidingsvorm:	Alle waarden weerg...

Monitor | Analyse

Ingeschrevenen



Total Medicine students in the Netherlands

University

Monitor | Analyse

Ingeschrevenen
- Ingeschrevenen
- 1e jr Opl/Instel
- 1e jr Instelling
- 1e jr WO
- 1e jr HO

- Instelling
- Vrije kenmerken
  - Actief op peildatum
  - Geslacht
  - Hoofdstudie HO
  - Indicatie hoofdstudie
  - Inschrijvingsvorm
  - Kengetallen
  - Leeftijd
  - Nationaliteit
  - Opleidingsfase
  - Opleidingsvorm
  - Vooropleiding

Dynamische filter

Croho code	Instelling | Studiejaar	2005	2006	2007	2008	2009	2010
OWI_Geneeskunde	UM	1.838	1.951	1.997	2.077	2.100	2.094
	LEI	1.980	2.088	2.163	2.175	2.201	2.191
	EUR	2.327	2.437	2.413	2.529	2.659	2.696
	UvA	2.146	2.211	2.283	2.350	2.325	2.361
	UU	2.065	2.077	2.085	2.079	2.270	2.145
	RUG	2.558	2.641	2.821	2.810	2.879	2.841
	VU	2.185	2.265	2.330	2.406	2.429	2.423
	RU	1.941	2.017	2.069	2.132	2.248	2.214
	Resultaat	17.040	17.687	18.161	18.558	19.111	18.965

First Year Medicine Students

Monitor | Analyse

1e jr Opl/Instel

- Kolommen
  - Studiejaar
- Regels
  - Croho code
  - Instelling
- Vrije kenmerken
  - Actief op peildatum
  - Geslacht
  - Hoofdstudie HO
  - Indicatie hoofdstudie
  - Inschrijvingsvorm
  - Kengetallen
  - Leeftijd
  - Nationaliteit
  - Opleidingsfase
  - Opleidingsvorm
  - Vooropleiding

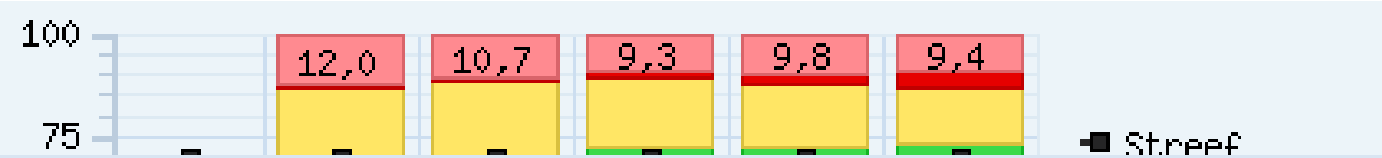
Dynamische filter

Croho code	Instelling | Studiejaar	2005	2006	2007	2008	2009	2010
OWI_Geneeskunde	UM	339	344	421	495	580	498
	LEI	349	349	331	329	315	362
	EUR	411	407	405	408	411	405
	UvA	356	355	351	376	326	341
	UU	338	314	313	304	527	503
	RUG	444	624	518	493	642	714
	VU	362	359	351	520	492	504
	RU	349	354	347	346	373	491
	Resultaat	2.948	3.106	3.037	3.271	3.666	3.818

Efficiency

Monitor | Analyse

Stand na 4 jaar binnen de opleiding (T1 Cohort)



Uitval van opleiding (T1) na

	2e jaar	3e jaar	4e jaar
2003	8,4 %	10,7 %	11,2 %
2004	7,2 %	9,2 %	10,6 %
2005	7,3 %	9,8 %	11,9 %

Uitval van instelling (T1) na

	2e jaar	3e jaar	4e jaar
2003	5,0 %	6,4 %	6,8 %
2004	4,7 %	6,0 %	6,9 %
2005	4,7 %	6,6 %	7,6 %

Rendement binnen opleiding (T1) na

	3e jaar	4e jaar	5e jaar
2003	41,5 %	69,4 %	80,5 %
2004	46,4 %	72,3 %	81,0 %
2005	45,7 %	72,8 %	79,0 %
2006	49,0 %	73,7 %	
2007	43,6 %		

Rendement binnen instelling (T1) na

	3e jaar	4e jaar	5e jaar
2003	42,4 %	71,1 %	82,6 %
2004	47,1 %	73,7 %	82,9 %
2005	46,3 %	74,6 %	81,6 %
2006	50,2 %	75,6 %	
2007	45,0 %		

Questions?