Supplementary Table 1: The working group converged on 66 resources, which are shown here along with definitions and examples is available. The 66 resources were grouped into 16 categories under 6 major headings.

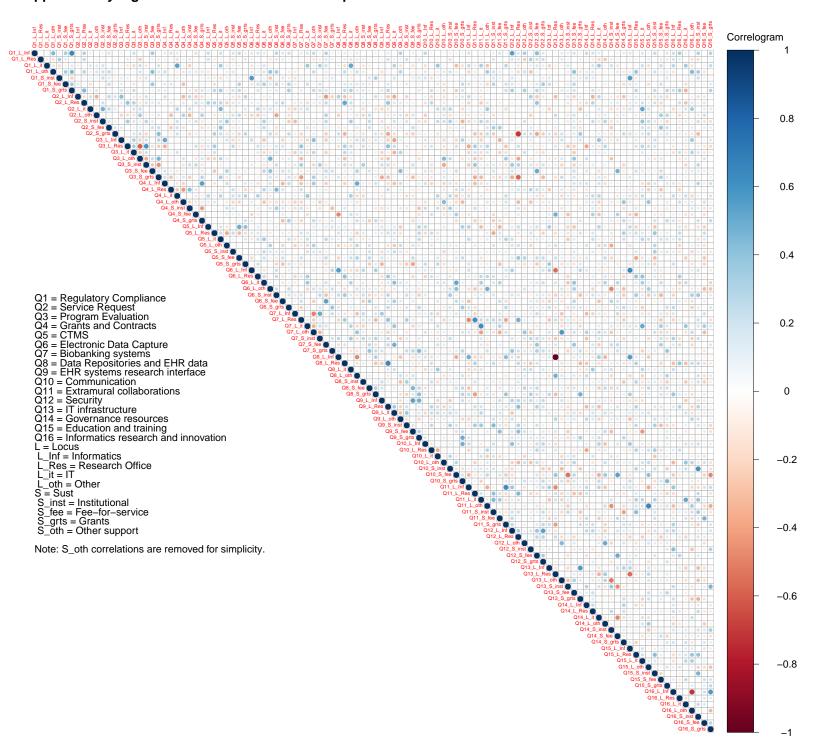
	Cotogoni	n Because Names	Definition	Detailed Evennue	Comments
Major heading	n Category	n Resource Names 1 Conflict of Interest	Definition	Detailed Examples	Comments
Application and	1 Research/Regulatory	1 Conflict of Interest	Informatics systems to capture and archive workforce		
support of clinical	Compliance		conflict of interest		
and translational					
research					
		2 Electronic IRB	Support IRB operations and/or eIRB interfaces		
		3 Consent	Centralized consent repository, e-consent model,		
		3 Consent			
		4 CT	research contact permission, biobank consents		
		4 CT.gov registration process	Services for registration with ClinicalTrials.gov		
		5 Public Access compliance tracking	Services for monitoring that investigators are in		
			compliance with public access policies for publications		
	2 Service Request/Fulfillment	6 Service request system	Centralized system for capturing and fulfilling	REDCap+API, SPARCrequest, other ticketing systems	
			researcher needs	(e.g. Service Now, Kayako), WebCAMP, Jira	
		7 Resource navigation and inventory	Web-based listing of resources, including ontology	eagle-i, NUCore	
			based systems		
		8 Service fulfillment system	Tracking of fulfillment and status	SPARCrequest, REDCap+API, other ticketing system,	
				NUCore, Taskmanager (for EDW reports and data	
				steward approvals)	
	3 Program Evaluation	9 Citation Capture and Service	systems for tracking citation based metrics	WebCAMP	Bill Trochim's group
		10 Fulfillment Attribution	Fulfillment metrics dashboard	SPARCrequest, other	J - 1
	4 Grants and Contracts Systems	11 Electronic Grants and Contracts System	systems for tracking grant applications, funding of	Coeus, Click (Huron) products	usually managed by office of vice-chancellor.
	- Grants and Contracts Systems	Ti Liectionic Grants and Contracts System		Coeds, Click (Haron) products	Sometimes under research informatics, Childern's
			faculty		
					national: click product (al least API access is managed
		10 CTCA wilet seemts	Outton for all the sent and " "	NILL sites assessitions LINC () LANGO "	by Informatics)
		12 CTSA pilot grants	System for pilot grant applications, vouchers	NU nitro competitions, UNC foundant, MUSC appsite,	
				Vand Starbrite, Webcamp (e.g. Indiana), Childern's	
				national: click product	
	5 CTMS components	13 Clinical Research Budgeting	Tools to help investigators with research charge	Oncore, SPARCrequest, other	Building a budget distringuishing between research and
			capture and billing		standard of care in your protocol
		14 Participant Payment Model	Tracking patient payements for participation in clinical	Nimblify	Remuneration, E.g. Single visit or multi-visit study
			trials		compensation
		15 Billing compliance	Adding layers/tools to enforce compliance in clinical	Oncore at Yale, SPARCrequest MUSC	may include interfaces with EHR (Epic); note that the
			billing systems		significant manual effort is done by billing departments
					to avoid in appropriate billing especially when a direct
					feed from the CTMS is not provided
		16 Adverse events reporting	reporting and DSM review	Most CTMS's	
	6 Electronic Data Capture	17 Investigator Initiated Studies	Tools to enable data capture associated with small	E.g. Case report forms design (e.g. REDCap and	single group / investigators
	o Licenome Bata Suptare	17 investigator initiated oldates	studies, including support for case report form design.	OpenClinica/Oncore more controlled and 21CFR11)	Single group / investigators
			studies, including support for case report form design.	openominar oncore more controlled and 2 for f(11)	
		18 Multicenter studies	Systems for collecting or managing research data as	E.g. Clinical Trial coordinating centers	multisite studies
		16 Multiceriter studies	part of multi-site study coordination.	E.g. Cillical That Coordinating Centers	muitisite studies
		40 Lana studias		E a triala annologate d'Abrassach James antissados libra	
		19 Large studies	For very large research studies or networks, systems	E.g. trials conducted through large networks like	
			for data capture and integration at scale including	PCORnet	
			those collected from multiple modalities (e.g. EMR,		
			fitbit, PROs,)		
		20 21CFR11 support	Services for technical compliance and documentation	e.g. in CTMS or dedicated REDCap instance	
			for 21CFR11 compliance and FDA audits		
		21 Patient Reported Outcomes (PRO)	systems to capture report of the status of a patient's	PROMIS, REDCap support, interface with servers	Note: special considerations when PROs are captured
			health/condition that comes directly from the patient		through the EMR
		22 Mobile app support	Supporting EDC on mobile platforms		
	7 Biobanking systems	23 Biobank or biorepository management systems	systems for specimen tracking, storage, retrieval.	e.g. Labvantage, caTissue, others	
		24 Cohort exploration tools (self-service)	Tools that allow users to directly interface with the	E.g. EDW or IDRs for cohort identification, including	
	xta .topoo.tonoo una Ernt data		EHR data in a de-identified aggregate data manner	i2b2 or Deduce (Duke?), BioVU?	
			and allows them to explore cohorts of patients before	LDZ or Deduce (Dane:), Diovo:	
			IRB approval for possible future recruitment or chart		
			reviews in IRB approved protocols.		
		25 IDP navigation/honort broker consists	Tools and workflow to allow researchers request		
		25 IDR navigation/honest broker services	identified data from IDR or DW administrators for IRB		
			approved studies or for complex de-identified queries		
		00 Anni din namina	including query tools		
		26 Analytics services	Concierge analytics or reusable libraries customized to		
			your data store		
		27 Study specific integrated data	Tools and personnel to support study specific	E.g. custom registries, advanced search mechanisims,	
			integrated data repositories such as disease registries	dedicated personnel, may include searchers across	
			for research.	multiple data sources e.g. biobanks, imaging data	
		28 Big data storage	storage infrastructure	e.g. hadoop, spark, Greenplum, HAWQ	Interfacing (ETL, EL), Analysis tools (SAS, R),
					Visualization tools (QlikView, Tableau, BO
		29 Big data interfaces	ETL, EL		
		30 Analysis tools	Tools for analysis and analytics for investigators to	SAS, R,	
			use.		

		31 Visualization tools	Tools for visualizing data from either big data platforms or data warehouses	QlikView, Tableau, BO	
		32 Molecular Data Set	Next gen sequencing (NGS) or genomic data with requisite safeguards		
		33 Imaging Data Set	archival data, usally managed by imaging cores	e.g. At Indiana XNAT research open source image management system for radiology	
		34 Public Health Data Set	Access, navigation, analysis capacity to large public datasets	e.g. HCUP	
		35 Environmental Data Set			
	9 Clinical Medical Information System (EHR systems research interface)	36 Research Related Decision Support		E.g. PGx, interventional studies using EMRs	
		37 Recruitment	Alerts to recruit patients into ongoing studies	e.g powertrials in Cerner e.g. Indiana and Children's	
		38 Research that utilizes the EMR	Development of research functionalities (alerts, decision support, research data collection tools)		
		39 Interfaces with EHR	Implementation of interfaces from and to research systems such as CTMS, EDC, IRB		
	10 Communication	40 Content collaboration	e.g. Slack (like REDDIT for researchers or stack overflow) Tiaga: Conban; Confluence wiki		
		41 Project management	Systems for managing projects, tracking progress, and tickets	Tiaga: Conban; Jira; Confluence	
		42 Information/Service Portal	Researcher portals, service navigation) (0 (0 D C)	
		43 Research Networking	Tools that enable allow researcher to create online bios and users to discover research expertise, identify potential collaborators or mentors, and assemble teams of collaborators.	e.g. VIVO, Profiles, Elsivier Pure	
		44 Data publishing and data sharing plans			
Research collaboration	Extramural data collaborations	Resources for participating in large networked collaborations	The technical and human resources required for participated in large networked collaborations such as clinical research data networks (CDRNs) or clinical trial recruitment networks. This also includes the ticketing and support groups to triage, prioritize, and approve such research projects.	E.g. TriNetX, SHRINE, PCORnet (i2b2, popmednet), Flatiron, Google,	Technical infrastructure requirements are obvious: developers, servers, Non technical or personnel resources: for example project managers are needed to track that the components are in place and who would track all inbound data sharing requests to shepherd them through the governance process. Another example is time spent tracking and seeing business associate agreements for data sharing.
		2 Back-end	Building and maintaining components of the enterprise architecture to readily support extra mural collaborations. These components could include technical components ((2b2) or investments in converting native data to reference terminologies or data exchange standards.	PCORnet CDM, i2b2 marts, OMOP CDM	Data analyst or DBA time that would need be dedicated to maintaining functional data marts.
		3 Front-end provider facing	Implementing provider-facing interventions that are requirements for participating in large collaborations.	Multi-site pragmatic trial or decision support trial	Epic resources. QA and testing. Training material. Feedback and approval from resource utilization committees, e.g. committees that oversee EMR decision support.
		4 Front-end patient facing?	Implementing patient-facing interventions or interfaces that requirements for participating in large collaborations	When a healthcare enterprise partners with patient advocacy group or participates in a large national cohort recruitment effort like the PMI	Epic or patient portal resources. Regulatory and legal compliance and verification.
Cyberinfrastructure	Security	1 People/documentation/Training	E.g. CISO, IT security team, scanning software, providing documentation,		
		2 Protecting privacy	Honest brokering, encryption, user rights		
		3 Server security	Encryption, network segmentation, technical controls		
		4 FISMA compliance	Other regs?		
	IT infrastructure	5 Servers 6 Software licenses			
2 114		7 Networks	December and the array of the first of the second of the s	las FDW soussess basel in the second	
Oversight and governance	Governance	Standing IT governance committees or steering committees	Resources needed to ensure that staff with informatics knowledge and expertice can provide standing or ad hoc consultation and support for IT and Informatics governing bodies within the organization. This also includes time spent drafting and reviewing policies and SOPs for enforcement of compliance with policies.	firewall policies, appropriating tiered support to various campus groups, SOPs for security breach	
		2 Regulatory operational support	The resources (technical or human) needed to enforce operational aspects of policies and regulations. These could include digital workflow support, audit, or approval components.	e.g. data release approval mechanisms. e.g. some organizations may require that all REDCap projects requests need to be approved on a per-project basis, or that their data elements need to be audited to verify adherence to the HIPAA release authorization from the consent documents	
Training and support	Education	1 Seminars (Top Down?)	Workshops, symposia, and certificate programs in informatics and related competencies		
		2 Courses	In person or online courses in informatics and related competencies	Online courses could include MOOC or in Moodle or other learning management systems.	

		3 In-app video training	Reference and educational content intended to be	e.g. helper text (like text that appears when you hober	
			displayed in context of informatics systems	over a question mark). How-tos ad FAQs. Includes text	
				and multimedia. Reference to policies, regulations like	
				explanation of HIPAA identifiers or Human Subjects	
				Research.	
		4 Regulatory training	Development of content for regulatory training as well	e.g. CITI and GCP training. Integration with IRB	
			as the infrastructure to administer, certify, and	systems or CTMS	
			document training by organizational staff.		
		5 One on one (Bottom up?)	Educational media and resources developed for one-		
			on-one training and support		
Methodological	Informatics innovation	1 Faculty	Resources committed to attract, employ and retain		
Research & Innovation			faculty who specialize in applied or foundational		
			informatics methods.		
		2 Student pipeline	Resources committed to establish and sustain degree		
			or other training programs		
		3 Software engineers/professional staff	Investments in incentives and benefits to attract and	e.g. Epic developers are at a premium, bioinformatics	Todo: look for references quantifying the salary
			retain highly skilled informatics professional staff	or data scientists who receive very attractive financial	differentials and labor market attractiveness outside
				offers from industry	academia
		4 Support for rapid prototyping and implementation.	Create and sustain infrastucture that is easily	e.g. access to EMR for testing of pharmacogenomic or	
			accessible to informatics professionals for rapid	novel predictive modeling in pilot areas.	
			prototyping and evaluation of novel methods and		
			systems with the intent of rapid agile deployment into		
			enterprise-wide use. This could exist alongside or		
			within the production systems that support the		
			operations of an academic medical center.		
			systems with the intent of rapid agile deployment into enterprise-wide use. This could exist alongside or within the production systems that support the		

TOTAL:

Supplementary Figure 1: Correlations between responses.



Supplementary Tables (#2): includes correlation data, and frequencies of combinations of responses within each category for all 16 questions.

Legend

Q1 = Regulatory Compliance

Q2 = Service Request

Q3 = Program Evaluation

Q4 = Grants and Contracts

Q5 = CTMS

Q6 = Electronic Data Capture

Q7 = Biobanking systems

Q8 = Data Repositories and EHR data

Q9 = EHR systems research interface

Q10 = Communication

Q11 = Extramural collaborations

Q12 = Security

Q13 = IT infrastructure

Q14 = Governance resources

Q15 = Education and training

Q16 = Informatics research and innovation

Abbr	Description			
L_Inf	Locus	Informatics		
L_Res	Locus	Research Office		
L_it	Locus	IT		
L_oth	Locus	Other		
S_inst	Sustainabili	Institutional		
S_fee	Sustainabili Fee-for-service			
S_grts	Sustainabili	Grants		
S_oth	Sustainabili	Other support		

Sheet 2: Raw data of responses.

Sheet 3: Correlation data sorted in descending order. Filtered to results within the same component. S_oth correlations filtered out for simplicity. Sheets 4 onward show frequencies of combinations of responses within each category for all 16 categories.

id	Q1_L_Inf	Q1_L_Res	Q1_L_it	Q1_L_oth	Q1_S_inst	Q1_S_fee	Q1_S_grts	
	1	1	0	0	0	1	0	1
	2	1	1	1	1	1	1	1
	3	0	1	0	0	1	0	0
	4	0	1	0	0	1	0	0
	5	0	1	1	0	1	0	0
	8	1	1	0	0	1	0	1
	9	0	0	1	0	1	0	0
	10	0	1	1	0	1	0	0
	11	1	1	0	1	1	1	0
	12	0	1	1	0	1	0	0
	13	0	1	0	0	1	0	0
	15	0	1	0	0	1	1	0
	16	1	1	1	0	1	0	1
	17	1	0	0	1	1	1	1
	18	0	1	0	0	1	0	0
	21	0	1	0	0	1	0	0
	22	1	1	0	1	1	1	1
	23	1	1	1	0	1	0	0
	28	0	1	0	0	1	0	0
	30	1	1	1	0	1	1	1
	32	0	0	1	0	1	0	0
	33	0	1	0	0	1	0	0
	36	0	1	0	0	1	0	0
	41	1	1	1	1	1	1	1
	42	1	1	0	0	1	0	0
	45	0	1	0	0	1	0	0
	46	0	0	0	1	1	0	0
	47	0	1	1	0	1	0	0
	53	1	1	0	1	1	0	1
	54	0	1	0	1	1	0	1
	56	0	1	0	0	1	0	0
	57	0	1	1	0	1	1	0
	58	0	1	0	0	1	0	0
	59	0	1	1	0	1	0	0
	65	0	1	1	0	1	1	1
	69	0	1	0	0	1	0	0

0.282842712 0.06953

Correlation data sorted in descending order. Filtered to results within the same component. So th correlations filtered out v1 1-Regulatory Compliance_L_Inf 1-Regulatory Compliance_S_grts 0.65 3.2E-06 11-Extramural collaborations L Inf 11-Extramural collaborations S grts 0.632118072 7.1E-06 3-Program Evaluation_S_inst 3-Program Evaluation_L_Res 0.581176471 5.4E-05 13-IT infrastructure L Inf 13-IT infrastructure S grts 7.6E-05 0.572077554 16-Informatics research and innovation L Inf 16-Informatics research and innovation S grts 0.570610361 8E-05 9-EHR systems research interface L Inf 9-EHR systems research interface S fee 0.547722558 0.00017 12-Security_L_Inf 12-Security S grts 0.545086545 0.00019 4-Grants and Contracts L Inf 4-Grants and Contracts S grts 0.544949261 0.00019 7-Biobanking systems_L_Inf 7-Biobanking systems_S_inst 0.508086778 0.00059 5-CTMS_L_Inf 5-CTMS_S_fee 0.495968799 0.00084 9-EHR systems research interface L Inf 9-EHR systems research interface S grts 0.484071217 0.00116 10-Communication_L_Inf 10-Communication_S_grts 0.48121774 0.00125 0.473432076 0.00154 2-Service Request L it 2-Service Request S inst 3-Program Evaluation_L_oth 3-Program Evaluation S grts 0.45344929 0.00256 11-Extramural collaborations L it 11-Extramural collaborations S inst 0.444675866 0.00317 1-Regulatory Compliance L Inf 1-Regulatory Compliance L oth 0.440385506 0.00352 1-Regulatory Compliance L oth 1-Regulatory Compliance S grts 0.440385506 0.00352 15-Education and training_L_Res 15-Education and training_S_inst 0.428174419 0.00467 4-Grants and Contracts L Res 4-Grants and Contracts S inst 0.423586871 0.00519 11-Extramural collaborations_L_Res 11-Extramural collaborations_S_ inst 0.40824829 0.00728 5-CTMS_L_Inf 5-CTMS_S_grts 0.407899863 0.00733 12-Security L Inf 12-Security S fee 0.387298335 0.01128 9-EHR systems research interface_L_it 9-EHR systems research interface_S_inst 0.368629908 0.0163 11-Extramural collaborations L it 11-Extramural collaborations S fee 0.358609569 0.0197 9-EHR systems research interface_L_it 9-EHR systems research interface_L_Res 1-Regulatory Compliance L oth 1-Regulatory Compliance S fee 1-Regulatory Compliance_L_Inf 1-Regulatory Compliance_S_fee 0.0264 0.342493873 1-Regulatory Compliance S fee 1-Regulatory Compliance S grts 0.342493873 0.0264 3-Program Evaluation_L_it 3-Program Evaluation_L_Res 0.336336397 0.02942 12-Security L Inf 12-Security L Res 0.334719341 0.03026 12-Security S fee 12-Security_S_grts 0.333333333 0.03099 13-IT infrastructure_L_oth 13-IT infrastructure S fee 0.324442842 0.03606 1-Regulatory Compliance_L_Res 1-Regulatory Compliance S inst 0.321960458 0.03759 8-Data Repositories and EHR data_L_Inf 8-Data Repositories and EHR data_S_grts 0.321960458 0.03759 3-Program Evaluation L Inf 3-Program Evaluation L it 8-Data Repositories and EHR data_S_fee 8-Data Repositories and EHR data_S_grts 0.315063019 0.04212 9-EHR systems research interface S fee 9-EHR systems research interface S grts 0.303802497 0.05047 14-Governance resources_L_Inf 14-Governance resources_S_grts 0.3 0.05357 12-Security L Res 12-Security S grts 0.298556197 0.05479 16-Informatics research and innovation S fee 16-Informatics research and innovation S grts 0.28894889 0.06347 10-Communication L it 10-Communication S inst 0.288675135 0.06373 10-Communication L oth 10-Communication S fee 3-Program Evaluation_L_Inf 3-Program Evaluation_S_grts 0.283069259 0.0693

12-Security_S_fee

12-Security_L_Res

Informatics	ResearchOffi	IT	Other	Freq
C	0	0	0	0
1	0	0	0	1
C	1	0	0	16
1	. 1	0	0	2
C	0	1	0	4
1	0	1	0	0
C	1	1	0	7
1	. 1	1	0	3
C	0	0	1	2
1	0	0	1	1
C	1	0	1	1
1	. 1	0	1	3
C	0	1	1	0
1	. 0	1	1	0
C	1	1	1	0
1	. 1	1	1	2

Locus of Control	Susta

Institutional Fe	ees G	rants	Other	Freq
0	0	0	0	0
1	0	0	0	25
0	1	0	0	0
1	1	0	0	5
0	0	1	0	1
1	0	1	0	5
0	1	1	0	0
1	1	1	0	5
0	0	0	1	0
1	0	0	1	0
0	1	0	1	0
1	1	0	1	0
0	0	1	1	0
1	0	1	1	0
0	1	1	1	0
1	1	1	1	1

Sustainability Sources

Informatics	ResearchOffic	IT	Other	Freq
(0	0	0	1
1	0	0	0	15
(1	0	0	1
1	. 1	0	0	2
(0	1	0	1
1	0	1	0	7
(1	1	0	0
1	. 1	1	0	3
(0	0	1	3
1	0	0	1	4
(1	0	1	2
1	1	0	1	0
(0	1	1	0
1	0	1	1	2
(1	1	1	0
1	. 1	1	1	1

Institutional	Fees	Grants	Other	Freq
0	0	0	0	1
1	0	0	0	7
0	1	0	0	2
1	1	0	0	3
0	0	1	0	7
1	0	1	0	5
0	1	1	0	3
1	1	1	0	14

Informatics	ResearchOffi	IT	Other	Freq
C	0	0	0	2
1	. 0	0	0	5
C	1	0	0	8
1	. 1	0	0	4
C	0	1	0	0
1	. 0	1	0	0
C	1	1	0	0
1	. 1	1	0	3
C	0	0	1	13
1	. 0	0	1	5
C	1	0	1	1
1	. 1	0	1	1
C	0	1	1	0
1	. 0	1	1	0
C	1	1	1	0
1	. 1	1	1	0

Institutional	Fees	Grants	Other	Freq
0	0	0	0	2
1	0	0	0	13
0	1	0	0	0
1	1	0	0	0
0	0	1	0	13
1	0	1	0	11
0	1	1	0	1
1	1	1	0	0
0	0	0	1	0
1	0	0	1	1
0	1	0	1	0
1	1	0	1	0
0	0	1	1	0
1	0	1	1	0
0	1	1	1	1
1	1	1	1	0

Informatics	ResearchOffi	IT	Other	Freq
C	0	0	0	1
1	0	0	0	1
C	1	0	0	16
1	. 1	0	0	5
C	0	1	0	2
1	0	1	0	0
C	1	1	0	7
1	. 1	1	0	1
C	0	0	1	2
1	0	0	1	0
C	1	0	1	4
1	. 1	0	1	0
C	0	1	1	3
1	0	1	1	0
C	1	1	1	0
1	. 1	1	1	0

Institutional	Fees	Grants	Other	Freq
0	0	0	0	1
1	0	0	0	29
0	1	0	0	0
1	1	0	0	3
0	0	1	0	2
1	0	1	0	4
0	1	1	0	0
1	1	1	0	1
0	0	0	1	0
1	0	0	1	0
0	1	0	1	0
1	1	0	1	0
0	0	1	1	1
1	0	1	1	1
0	1	1	1	0
1	1	1	1	0

Informatics	ResearchOffice	IT	Other	Freq
0	0	0	0	0
1	0	0	0	5
0	1	0	0	7
1	1	0	0	4
0	0	1	0	1
1	0	1	0	1
0	1	1	0	5
1	1	1	0	5
0	0	0	1	7
1	0	0	1	0
0	1	0	1	1
1	1	0	1	1
0	0	1	1	0
1	0	1	1	2
0	1	1	1	1
1	1	1	1	2

Institutional	Fees	Grants	Other	Freq
0	0	0	0	1
1	0	0	0	20
0	1	0	0	1
1	1	0	0	6
0	0	1	0	1
1	0	1	0	6
0	1	1	0	0
1	1	1	0	4
0	0	0	1	1
1	0	0	1	0
0	1	0	1	0
1	1	0	1	2
0	0	1	1	0
1	0	1	1	0
0	1	1	1	0
1	1	1	1	0

Informatics	ResearchOffi	IT	Other	Freq
C	0	0	0	0
1	. 0	0	0	19
C	1	0	0	0
1	. 1	0	0	2
C	0	1	0	2
1	. 0	1	0	6
C	1	1	0	0
1	. 1	1	0	3
C	0	0	1	1
1	. 0	0	1	4
C	1	0	1	0
1	. 1	0	1	0
C	0	1	1	0
1	. 0	1	1	4
C	1	1	1	0
1	. 1	1	1	1

Institutional	Fees	Grants	Other	Freq
0	0	0	0	2
1	0	0	0	7
0	1	0	0	5
1	1	0	0	4
0	0	1	0	3
1	0	1	0	8
0	1	1	0	2
1	1	1	0	10
0	0	0	1	0
1	0	0	1	0
0	1	0	1	0
1	1	0	1	0
0	0	1	1	0
1	0	1	1	0
0	1	1	1	0
1	1	1	1	1

Informatics	ResearchOffic	IT	Other	Freq
C	0	0	0	2
1	0	0	0	11
C	1	0	0	5
1	. 1	0	0	2
C	0	1	0	4
1	0	1	0	3
C	1	1	0	2
1	. 1	1	0	3
C	0	0	1	9
1	0	0	1	0
C	1	0	1	1
1	. 1	0	1	0
C	0	1	1	0
1	0	1	1	0
C	1	1	1	0
1	. 1	1	1	0

Institutional	Fees	Grants	Other	Freq
0	0	0	0	1
1	0	0	0	10
0	1	0	0	3
1	1	0	0	4
0	0	1	0	2
1	0	1	0	9
0	1	1	0	1
1	1	1	0	8
0	0	0	1	2
1	0	0	1	0
0	1	0	1	1
1	1	0	1	0
0	0	1	1	0
1	0	1	1	0
0	1	1	1	0
1	1	1	1	1

Informatics	ResearchOffic	IT	Other	Freq
0	0	0	0	0
1	0	0	0	9
0	1	0	0	0
1	1	0	0	3
0	0	1	0	0
1	0	1	0	19
0	1	1	0	0
1	1	1	0	7
0	0	0	1	0
1	0	0	1	1
0	1	0	1	0
1	1	0	1	0
0	0	1	1	1
1	0	1	1	2
0	1	1	1	0
1	1	1	1	0

Institutional	Fees	Grants	Other	Freq
0	0	0	0	1
1	0	0	0	5
0	1	0	0	0
1	1	0	0	2
0	0	1	0	0
1	0	1	0	12
0	1	1	0	2
1	1	1	0	18
0	0	0	1	0
1	0	0	1	0
0	1	0	1	0
1	1	0	1	0
0	0	1	1	0
1	0	1	1	0
0	1	1	1	0
1	1	1	1	2

Informatics	ResearchOffice	IT	Other	Freq
0	0	0	0	1
1	0	0	0	9
0	1	0	0	0
1	1	0	0	0
0	0	1	0	5
1	0	1	0	11
0	1	1	0	2
1	1	1	0	5
0	0	0	1	3
1	0	0	1	3
0	1	0	1	0
1	1	0	1	0
0	0	1	1	1
1	0	1	1	2
0	1	1	1	0
1	1	1	1	0

Institutional	Fees	Grants	Other	Freq
0	0	0	0	1
1	0	0	0	12
0	1	0	0	2
1	1	0	0	3
0	0	1	0	3
1	0	1	0	6
0	1	1	0	0
1	1	1	0	11
0	0	0	1	1
1	0	0	1	0
0	1	0	1	0
1	1	0	1	0
0	0	1	1	1
1	0	1	1	0
0	1	1	1	0
1	1	1	1	2

Informatics	ResearchOffice	IT	Other	Freq
C	0	0	0	1
1	0	0	0	8
C	1	0	0	6
1	. 1	0	0	6
C	0	1	0	4
1	0	1	0	6
C	1	1	0	1
1	. 1	1	0	1
C	0	0	1	2
1	0	0	1	2
C	1	0	1	1
1	. 1	0	1	2
C	0	1	1	1
1	0	1	1	1
C	1	1	1	0
1	. 1	1	1	0

Institutional Fees	Grants	Other	Freq	
0	0	0	0	2
1	0	0	0	19
0	1	0	0	0
1	1	0	0	2
0	0	1	0	4
1	0	1	0	10
0	1	1	0	0
1	1	1	0	3
0	0	0	1	0
1	0	0	1	1
0	1	0	1	0
1	1	0	1	0
0	0	1	1	0
1	0	1	1	0
0	1	1	1	0
1	1	1	1	1

Informatics	ResearchOffi	(IT	Other	Freq
C	0	0	0	0
1	. 0	0	0	17
C	1	0	0	1
1	. 1	0	0	5
C	0	1	0	0
1	. 0	1	0	7
C	1	1	0	1
1	. 1	1	0	6
C	0	0	1	1
1	. 0	0	1	2
C	1	0	1	0
1	. 1	0	1	1
C	0	1	1	1
1	. 0	1	1	0
C	1	1	1	0
1	. 1	1	1	0

Institutional	Fees	Grants	Other	Freq
0	0	0	0	0
1	0	0	0	2
0	1	0	0	1
1	1	0	0	2
0	0	1	0	10
1	0	1	0	9
0	1	1	0	5
1	1	1	0	10
0	0	0	1	0
1	0	0	1	0
0	1	0	1	0
1	1	0	1	0
0	0	1	1	2
1	0	1	1	1
0	1	1	1	0
1	1	1	1	0

Informatics	ResearchOff	idT	Other	Freq
C	C	1	0	15
1	C	1	0	12
C	1	. 1	0	2
1	. 1	. 1	0	9
C	C	1	1	1
1	C	1	1	2
C	1	. 1	1	0
1	. 1	. 1	1	1

Institutional	Fees	Grants	Other	Freq
0	0	0	0	0
1	0	0	0	23
0	1	0	0	0
1	1	0	0	2
0	0	1	0	0
1	0	1	0	10
0	1	1	0	0
1	1	1	0	4
0	0	0	1	1
1	0	0	1	1
0	1	0	1	0
1	1	0	1	0
0	0	1	1	0
1	0	1	1	0
0	1	1	1	0
1	1	1	1	1

Informatics	ResearchOffice	IT	Other	Freq
0	0	1	0	17
1	0	1	0	20
0	1	1	0	1
1	1	1	0	0
0	0	1	1	2
1	0	1	1	2
0	1	1	1	0
1	1	1	1	0

Institutional	Fees	Grants	Other	Freq
0	0	0	0	1
1	0	0	0	11
0	1	0	0	0
1	1	0	0	8
0	0	1	0	0
1	0	1	0	9
0	1	1	0	1
1	1	1	0	11
0	0	0	1	0
1	0	0	1	0
0	1	0	1	0
1	1	0	1	1
0	0	1	1	0
1	0	1	1	0
0	1	1	1	0
1	1	1	1	0

Informatics	ResearchOffic	IT	Other	Freq
0	0	0	0	0
1	0	0	0	2
0	1	0	0	2
1	1	0	0	1
0	0	1	0	7
1	0	1	0	8
0	1	1	0	3
1	1	1	0	12
0	0	0	1	1
1	0	0	1	0
0	1	0	1	0
1	1	0	1	1
0	0	1	1	2
1	0	1	1	1
0	1	1	1	0
1	1	1	1	2

Institutional	Fees	Grants	Other	Freq
0	0	0	0	2
1	0	0	0	27
0	1	0	0	0
1	1	0	0	1
0	0	1	0	0
1	0	1	0	9
0	1	1	0	0
1	1	1	0	1
0	0	0	1	1
1	0	0	1	1
0	1	0	1	0
1	1	0	1	0
0	0	1	1	0
1	0	1	1	0
0	1	1	1	0
1	1	1	1	0

Informatics	ResearchOffi	IT	Other	Freq
C	0	0	0	0
1	0	0	0	11
C	1	0	0	2
1	. 1	0	0	9
C	0	1	0	0
1	0	1	0	4
C	1	1	0	0
1	. 1	1	0	6
C	0	0	1	1
1	0	0	1	3
C	1	0	1	0
1	. 1	0	1	1
C	0	1	1	0
1	0	1	1	1
C	1	1	1	0
1	. 1	1	1	4

Institutional	Fees	Grants	Other	Freq
0	0	0	0	1
1	0	0	0	14
0	1	0	0	0
1	1	0	0	1
0	0	1	0	2
1	0	1	0	14
0	1	1	0	1
1	1	1	0	3
0	0	0	1	1
1	0	0	1	2
0	1	0	1	1
1	1	0	1	0
0	0	1	1	0
1	0	1	1	2
0	1	1	1	0
1	1	1	1	0

Informatics	ResearchOffic	IT	Other	Freq
0	0	0	0	0
1	0	0	0	22
0	1	0	0	0
1	1	0	0	3
0	0	1	0	0
1	0	1	0	8
0	1	1	0	0
1	1	1	0	0
0	0	0	1	4
1	0	0	1	2
0	1	0	1	0
1	1	0	1	1
0	0	1	1	1
1	0	1	1	1
0	1	1	1	0
1	1	1	1	0

Institutional	Fees	Grants	Other	Freq
0	0	0	0	3
1	0	0	0	4
0	1	0	0	0
1	1	0	0	0
0	0	1	0	6
1	0	1	0	15
0	1	1	0	3
1	1	1	0	7
0	0	0	1	0
1	0	0	1	1
0	1	0	1	0
1	1	0	1	0
0	0	1	1	0
1	0	1	1	2
0	1	1	1	1
1	1	1	1	0