



CINECA

Innovative Open Source Technologies for a CRIS:
SURplus



Topics

- / **CINECA: a brief overview**

- / **Solutions for Higher Education & Research Institutions**

- / **Three innovative open-source technologies applied to SURplus CRIS platform:**
 - / Dspace
 - / SOLR/Carrot2
 - / Saiku



The Company

just for two more months!!!

/ Interuniversity Consortium

/ No-Profit

/ Founded in 1969

/ Headquarter in Bologna

/ 57 Members

/ 54 Universities

/ 2 Research institutes

/ MIUR

/ Owned companies: Kion, SCS.

/ Employees: 400 (+150 Kion)

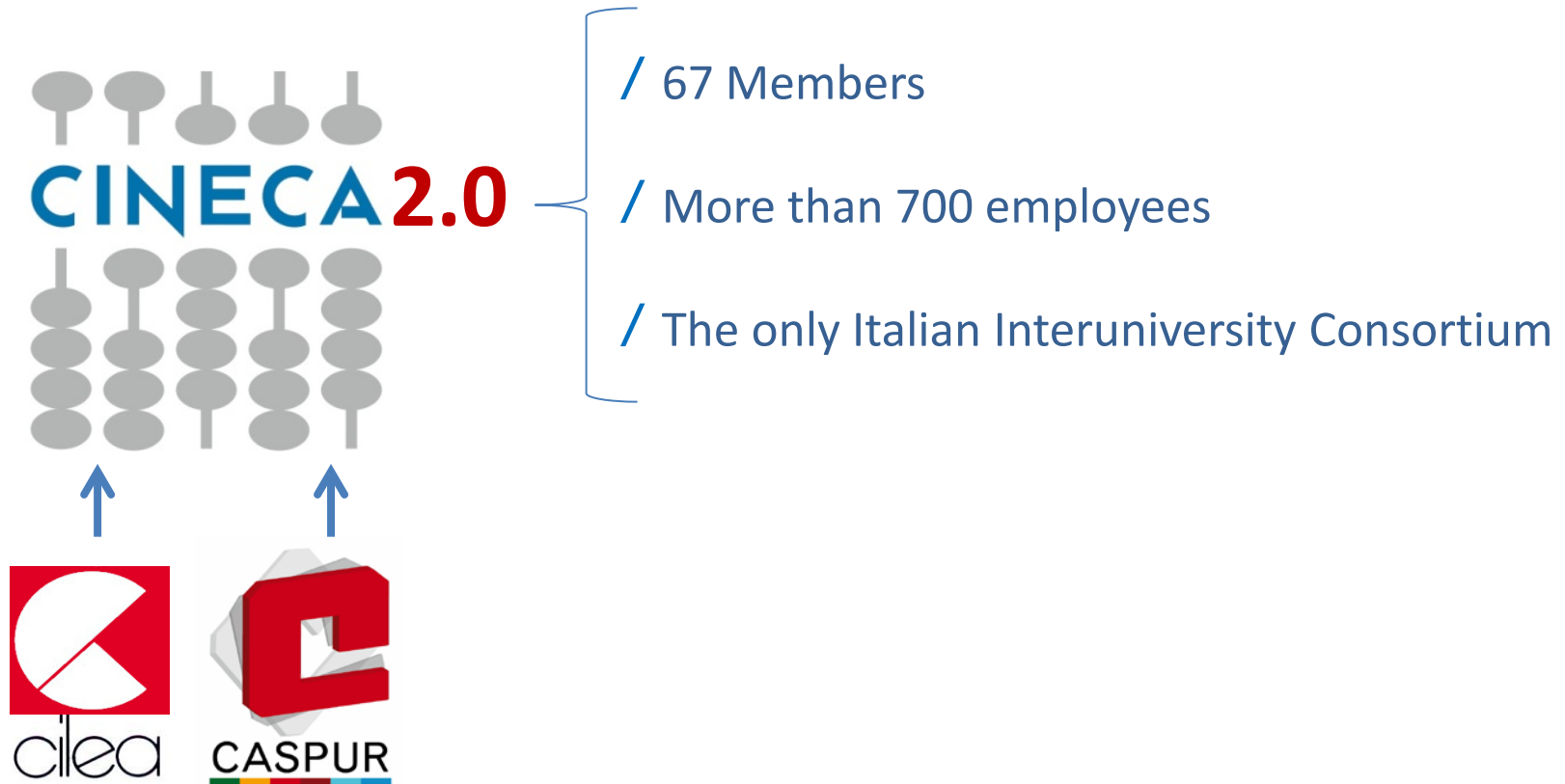
/ Total turnover: ~ 70M€





The Merge

- / The “merging process” of the three Italian Consortia has started in September 2012
- / It will end in July 2013...

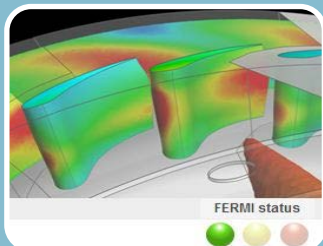


What CINECA does



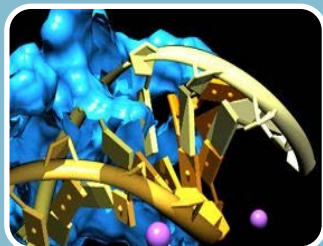
Higher Education

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



Scientific Research

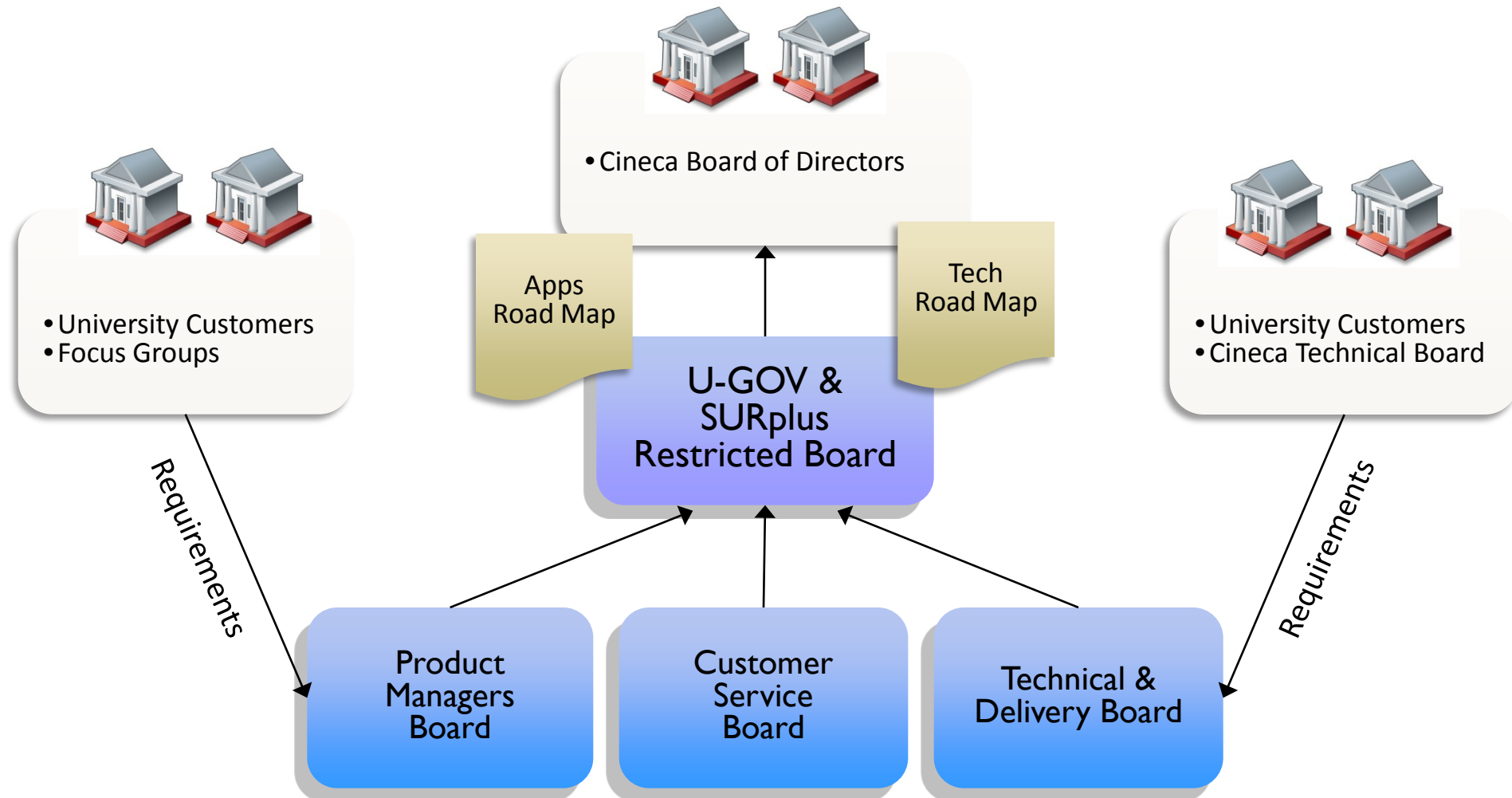
- High Performance Computing – FERMI: 2° in EU / 7° WW)
- Scientific Visualization & Interactive Virtual Environments



Technological Innovation

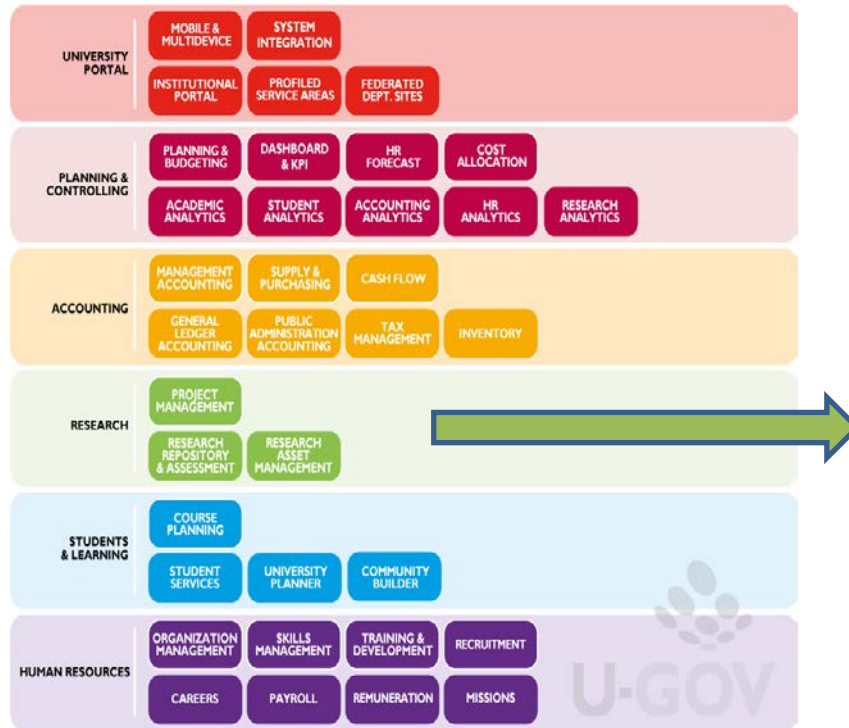
- Data Center
- Information and Knowledge Management Services
- Health Care Systems

How we work with Universities



Solutions for HE

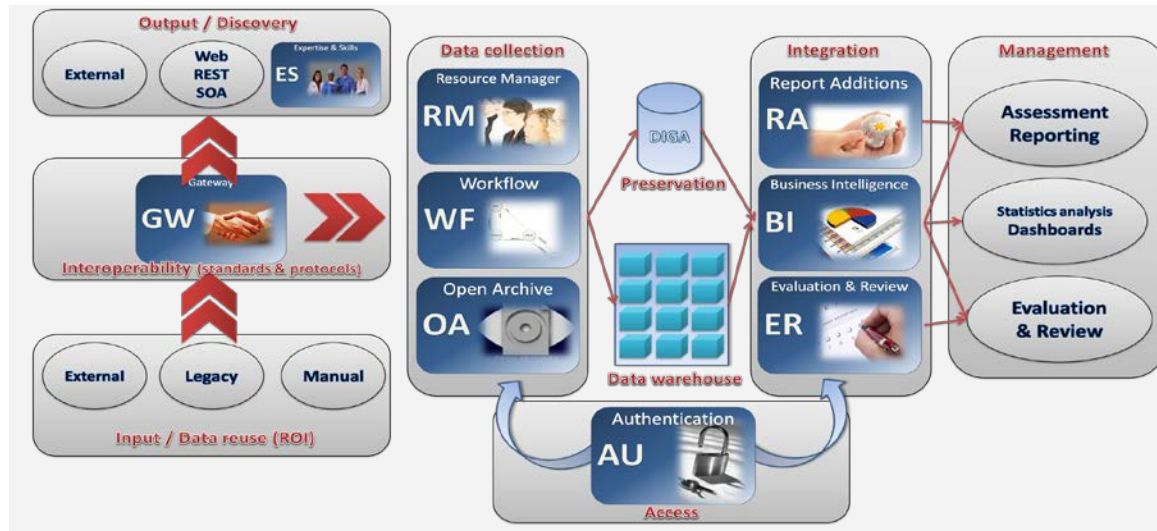
 **U-GOV** = ERP



 **SURplus** = Best of Breed



/ An **interoperable** infrastructure made of different **components**



/ Ingestion of data from any **legacy systems** adopted by an institution

/ Maintenance of specific **functional requirements**, **data model** and preferred **technologies** at the level of applications

/ **Data warehouse** and **Business Intelligence** tools to facilitate **aggregations** of data and the application of measurement parameters and algorithms

SURplus: supporting the World of Research

Collect institutional research output for evaluation and assessment purposes

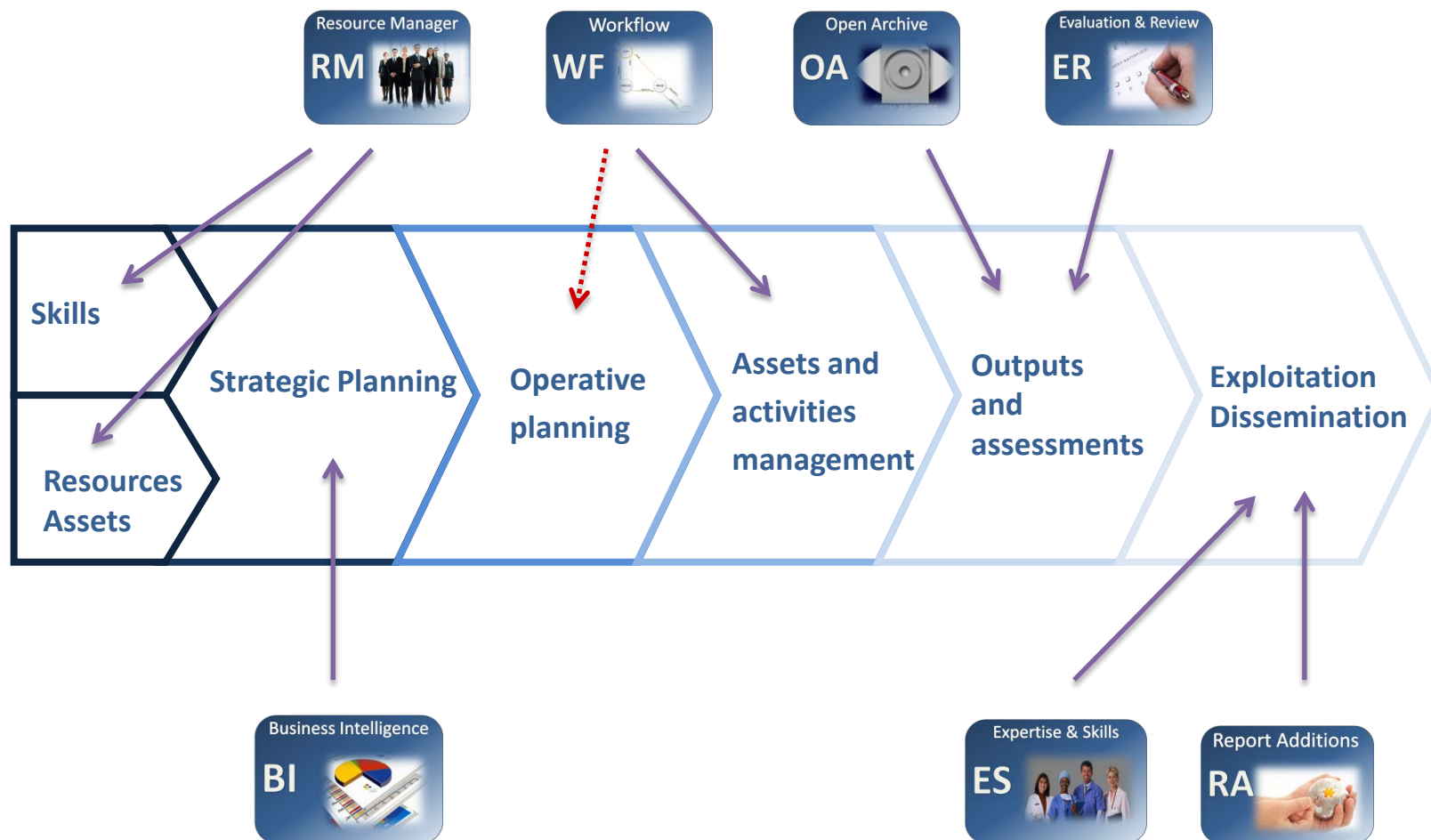
Measure research results for **benchmarking**



Disseminate data to enhance **impact and visibility**

Preserve ICT investments and maximize **ROI**

SURplus: Research Chain Value



SURplus: Dimension

/ Beginning of activities: 2004

/ 9 institutions

/ 22 institutional repositories

/ Total modules: 77



FONDAZIONE
EDMUND MACH



UNIVERSITA' degli STUDI di ROMA
TOR VERGATA



IULM
Libera Università di Lingue e Comunicazione

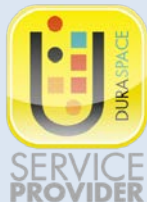
UNIVERSITA' DEGLI STUDI
DI MILANO
BICOCCA

SURplus: the Open Source philosophy

DSpace, SOLR/Carrot2 and Saiku offer advanced solutions to submit, manage and retrieve data that are crucial to research governance in the context of CRIS applications.



Dspace: SURplus' Open Archive Module



CINECA is a registered service provider at DuraSpace



Long-term collaboration with DSpace community (Committer Group)

The OA Module, developed on Dspace:

- / Manages collection and dissemination of research results
- / Simplifies data collection's processes
- / Service Integration

Upgrades are periodically released to the open source community

Case Study: The Hong Kong University

Dspace-CRIS: designed together with the Hong Kong University & released as open-source

*“dissemination of
entities’ descriptions in
the research
environment which go
beyond publications”*



HKU: The Network

HKU Researcher

 Professor Bacon-Shone, John Hugh
Associate Dean of Social Science
Dept: Social Sciences
Research Ctr

AND

Cognate Researcher

 Mr Palmer, David Townsend
Systems Librarian
Dept: University Libraries

SHARE

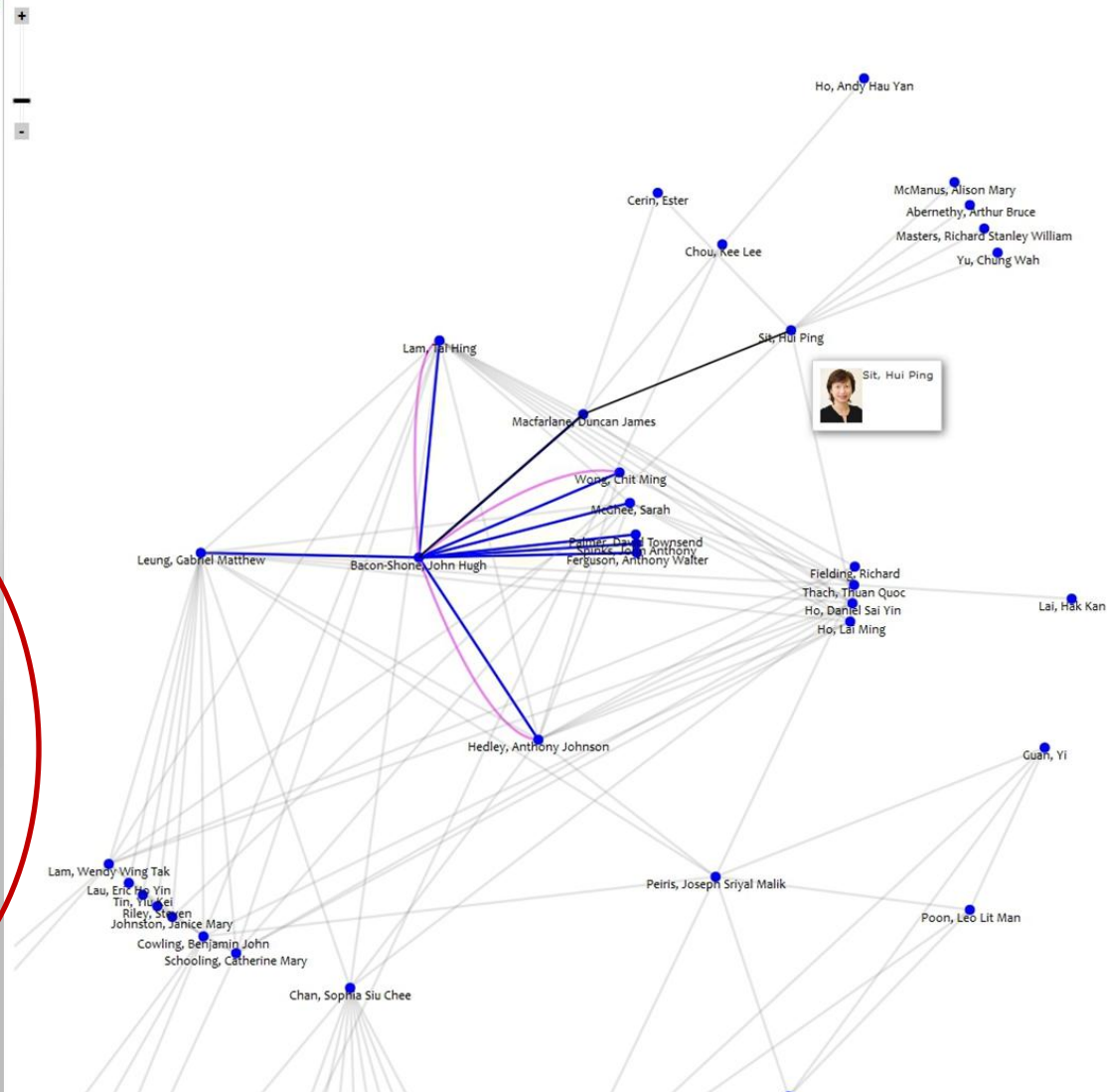
Research Facets

Publications in commons: 3
Keywords in common (publications): 11

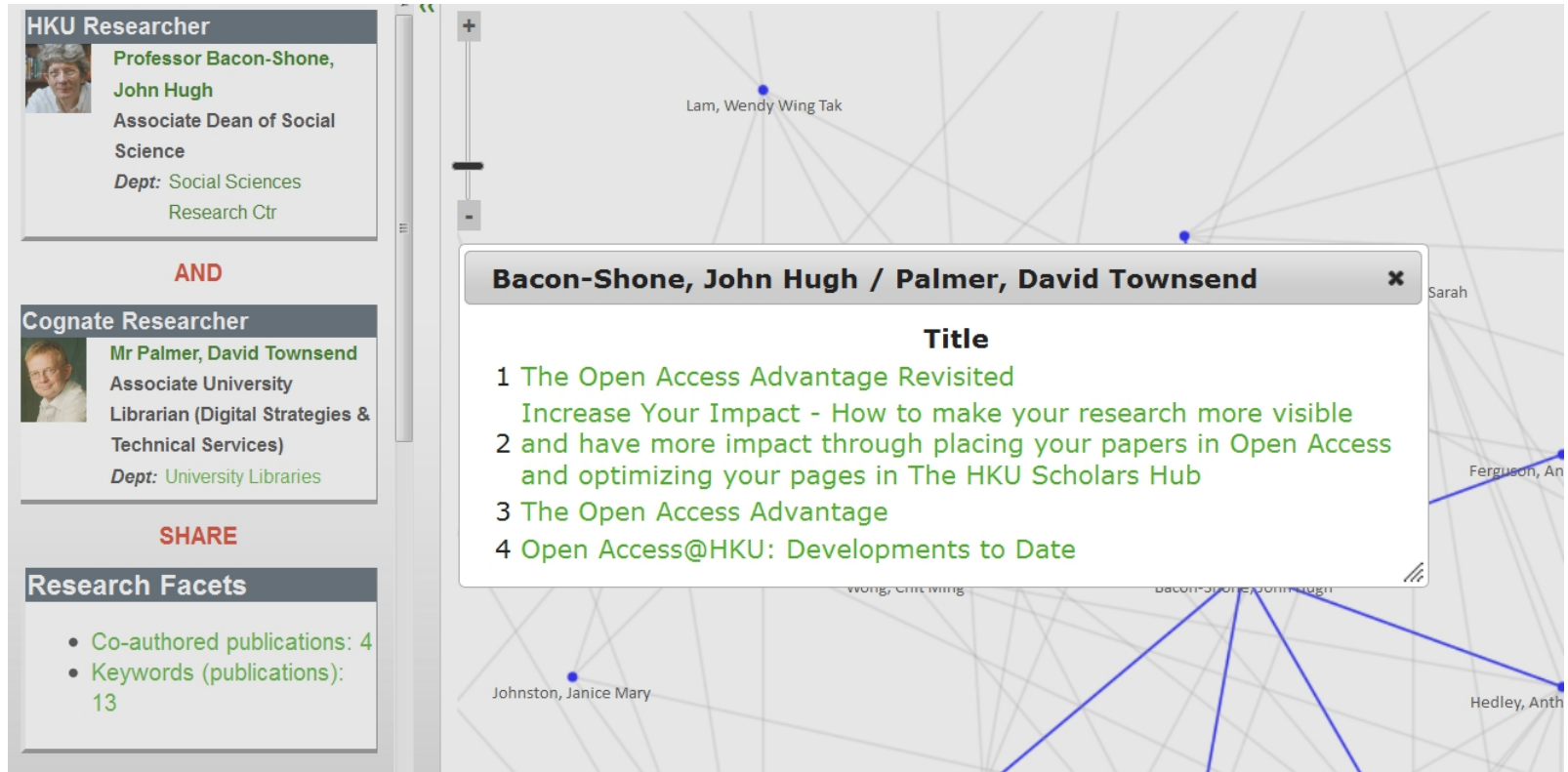
Degree of Separation

- ☒ Co-authors 3
- ☐ Co-investigators 1
- ☐ Keywords in grants 2
- ☐ Keywords in publications 2
- ☐ Committee appointments 2
- ☒ Co-winners prize 2
- ☐ Grants disciplines 2
- ☐ Show external researcher
- ☐ Show same department

RGGraph Positioning



HKU: The Network (details)



HKU: The Researcher



The University of Hong Kong

The HKU Scholars Hub 香港大學學術庫







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Grants

Patents

新 · 聞

HKU ResearcherPage: Bacon-Shone, JH

Profile

Publications

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Books & Book Chapters (17)

Achievements

Professional Qualifications (3)

Media Contact Directory (12)

Community Service (5)

Supervision of Research Postgraduate Students (21)

HKU Committee Appointments (35)

Grants

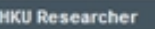
Principal Investigator (28)

Co-Investigator (27)

Bibliometrics

External Metrics

Internal Metrics





Professor Bacon-Shone, John Hugh R

白景崇

- Associate Dean of Social Science
- Director, Social Sciences Research Centre
- Associate Director, Knowledge Exchange Office
- Chairman, Human Research Ethics Committee for Non-Clinical Faculties

Research Interests:

- Compositional data
- Gambling
- Immigration and population policy
- Privacy policy
- Telephone survey methodology

My URLs:

- Biography
- Google Scholar Citations

Also Cited As:

Bacon-shone, John

Bacon-shone, J

Baconshone, J

Bacon-Shone, J

Tel: 3921 2600

Office: KT 408

Dept: Social Sciences Research Ctr

Faculty: Faculty of Social Sciences

[Curriculum Vitae](#)

Collaboration Network

Email Alert

RSS Feed

Recommend this on Google

The University of Hong Kong Libraries, University of Hong Kong | CONTACT US

www.cineca.it | Innovative Open Source Technologies for a CRIS: SURplus | euroCRIS | May 2013

HKU: The Researcher

HKU ResearcherPage: Bacon-Shone, JH

Profile

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Internal Metrics



Professor Bacon-Shone, John Hugh 

白景崇

- Associate Dean of Social Science
- Director, Social Sciences Research Centre
- Associate Director, Knowledge Exchange Office
- Chairman, Human Research Ethics Committee for Non-Clinical Faculties

External Metrics

Scopus (1996 ~)		ResearcherID	
AuthorID:	6602137416	RID:	B-8040-2008
Document Count:	28	Document Count:	112
Total Citations:	435 total citations by 421 documents	Times Cited:	438
h Index:	7	h Index:	13
Co-authors:	112	Co-authors:	Collaboration Network
Google Scholar Citations		PubMed	
Author Profile:	A-FV72wAAAAJ	Hub items with PubMed ID:	6
Citations:	1108	Citation count of Hub items in PMC:	18
h-index:	19	Hub items cited in PMC:	1
i10-index:	30		

HKU: The Publication



The University of Hong Kong

The HKU Scholars Hub 香港大學學術庫



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Article: Longitudinal assessment of community psychobehavioral responses during and after the 2003 outbreak of severe acute respiratory syndrome in Hong Kong

File Download

98107.pdf

Links for fulltext
(May Require Subscription)

Publisher Website:
10.1086/429923

Scopus: eid_2-s2.0-20444411922

PMID: 15909256

Find Full Text WebBridge

Supplementary

Citations:

Scopus: 48

Pubmed Central: 18

Item Statistics (The Hub)

Appears in Collections:

Community Medicine:
Journal/Magazine Articles

Social Sciences Research
Centre: Journal/Magazine Articles

Basic View Metadata View XML View

Title Longitudinal assessment of community psychobehavioral responses during and after the 2003 outbreak of severe acute respiratory syndrome in Hong Kong

Authors Leung, GM
Ho, LM
Chan, SKK
Ho, SY
BaconShone, J
Choy, RYL
Hedley, AJ
Lam, TH
Fielding, R

Issue Date 2005

Publisher Oxford University Press. The Journal's web site is located at
http://www.oxfordjournals.org/our_journals/cid/

Citation Clinical Infectious Diseases, 2005, v. 40 n. 12, p. 1713-1720 [How to Cite?]
DOI: <http://dx.doi.org/10.1086/429923>

Abstract Background. In previous literature, the stability and temporal evolution of psychobehavioral responses to an outbreak remained undefined, because of the exclusively cross-sectional nature of such study designs. Methods. Using random-digit dialing, we sampled 4481 Hong Kong residents in 6 population-based surveys that were conducted at different times during and after the 2003 outbreak of severe acute respiratory syndrome (SARS). Results. Respondents' State-Trait Anxiety Inventory score (range, 10-40) showed a decreasing temporal trend, from a high mean value of 24.8 during the peak of the Amoy Gardens outbreak to a postepidemic mean baseline value of 14.5. Those who perceived a higher likelihood of contracting or dying of SARS had significantly higher anxiety scores. Female respondents, individuals aged 30-49 years, and individuals with only a primary education or less were predisposed to greater anxiety. There was a positive dose-response gradient between anxiety level and uptake of personal protective measures. Males respondents, individuals at the extremes of age, and individuals with lower educational levels were less likely to engage in self-protective behavior. The presence of symptoms was the only consistent predictor for greater use of health services. There was remarkable stability in the magnitude and the direction of associations between predictors and outcomes over time. Conclusions. Our findings can assist in modifying public service announcements in

HKU: The Publication



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Item View & Download Statistics: Longitudinal assessment of community psychobehavioral responses during and after the 2003 outbreak of severe acute respiratory syndrome in Hong Kong

Item View Count
Item Download Count

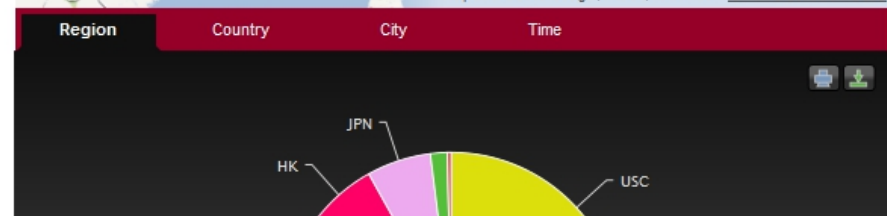
Setup Email Alerts

- @ Daily
- @ Weekly
- @ Monthly

Setup RSS Feeds

- Daily
- Weekly
- Monthly

ITEM VIEW COUNT



Apache SOLR & Carrot2: SURplus Expertise & Skills

- / A scalable solution for indexing and searching millions of documents
- / It offers a REST interface (XML , JSON), to allow loose coupling of applications
- / It is carried out by means of the open source project Apache Lucene, in charge of:



- / splitting data into tokens
- / extracting radices (stemming)
- / drop stop words and index them according to the analyzers chosen

- / Allows runtime clustering of search results obtained through SOLR searches
- / Organizes results in category and makes it easy for users to spot the ones of interest
- / Different algorithms based on Space Vector Models available
- / Clusters are displayed graphically with Foam Trees or Circle



Apache SOLR & Carrot2 at work



UNIVERSITÀ
DEGLI STUDI
DI MILANO

Repertorio delle Competenze

Home



91 elementi

PTX3 come marker precoce di patologie cardiovascolari e cerebrovascolari [Brevetto]
PTX3 come **marker** precoce di patologie **cardiovascolari** e cerebrovascolari Produzione di un kit per l'attuazione del metodo prognostico.

CAMERA MARINA [Persona]
Scienze biologiche ; LS Life Sciences ; Istruzione post-secondaria universitaria e non universitaria; ATTIVITA' PROFESSIONALI, SCIENTIFICHE E TECNICHE; Ricerca scientifica e sviluppo
Corrispondenze trovate

BALDASSARRE DAMIANO [Persona]
Biotecnologia e Microbiologia Applicata
Corrispondenze trovate

GUSSONI MARISTELLA [Persona]
Fisiologia
Corrispondenze trovate

PILU SALVATORE ROBERTO [Persona]
Agricoltura/Agronomia
Corrispondenze trovate

PETRONI KATIA [Persona]
Biotecnologia e Microbiologia Applicata
Corrispondenze trovate

VENTURIN MARCO [Persona]
Biotecnologia e Microbiologia Applicata
Corrispondenze trovate

BACCARELLI ANDREA [Persona]
Medicina Ambientale e Salute Pubblica
Corrispondenze trovate

Raffina la ricerca per categorie

Tipologia

- Pubblicazione (42)
- Persona (38)
- Brevetto (5)
- Progetto (4)
- Spinoff (2)

Topics estratti dai primi 30 risultati

- Arabidopsis Thaliana Flavonoids(3)
- HDL Cholesterol(3)
- Medicina Ambientale e Salute Pubblica(3)
- Synthesis of New(3)
- Acute Coronary Syndrome(2)
- Adjustable Gastric Banding for Morbid Obesity(2)
- Left Ventricular Hypertrophy(2)
- Lupinus Albus(2)
- Lymphocytes of Healthy Dioxin-exposed Individuals from Seveso(2)
- N-3 Polyunsatd(2)
- Other Topics(10)



Apache SOLR & Carrot2 at work



Home

marker cardiovascolari



91 elementi

PTX3 come marker precoce di patologie cardiovascolari e cerebrovascolari [Brevetto]

PTX3 come **marker** precoce di patologie **cardiovascolari** e cerebrovascolari Produzione di un kit per l'attuazione del metodo prognostico.

CAMERA MARINA [Persona]

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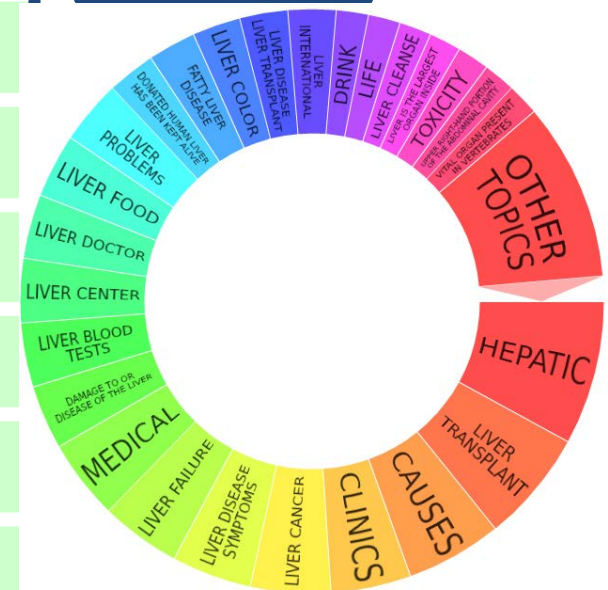
Medicina Ambientale e Salute Pubblica
Corrispondenze trovate

DELL'AGLI MARIO [Persona]

Raffina la ricerca per categorie

Tipologia

- Pubblicazione (42)
- Persona (38)
- Brevetto (5)
- Progetto (4)
- Spinoff (2)



Apache SOLR: Faceted Browsing

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[Help](#)

42 elementi

Farmaci cardiovascolari [Pubblicazione]

Farmaci **cardiovascolari** Valore Non Impostato

Lo spessore intima-media della carotide come end-point surrogato di eventi cardiovascolari negli studi di intervento [Pubblicazione]

valido **marker** surrogato per studiare la progressione della malattia aterosclerotica e l'efficacia di interventi terapeutici. Poiché è stato mostrato essere un predittore indipendente di malattia **cardiovascolare** anche dopo aggiustamento per i diversi fattori di rischio, l'IMT carotideo è l'unico test diagnostico non invasivo attualmente accettato dalla American Heart Association per essere incluso nella valutazione del rischio **cardiovascolare** globale. Inoltre, le variazioni dell'IMT e del diametro

Depressione, attivazione piastrinica e malattie cardiovascolari [Pubblicazione]

patologie **cardiovascolari**. La depressione ed i disturbi **cardiovascolari** sono tra i principali problemi di salute pubblica mondiali. Numerosi studi e meta-analisi recenti hanno dimostrato l'esistenza di un'elevata comorbidità tra depressione e patologie **cardiovascolari**. Negli ultimi anni sono emersi da un lato il ruolo della depressione come fattore di rischio indipendente nello sviluppo di patologie **cardiovascolari** e dall'altro alcuni meccanismi che sottendono la marcata associazione tra queste patologie

Effetti cardiovascolari del particolato : indici di coagulazione e marcatori molecolari [Pubblicazione]

Effetti **cardiovascolari** del particolato : indici di coagulazione e marcatori molecolari Valore Non Impostato

Inquinamento atmosferico e malattie cardiovascolari : le alterazioni epigenetiche [Pubblicazione]

malattie **cardiovascolari** : le alterazioni epigenetiche Valore Non Impostato

Calcificazioni cardiovascolari e aterosclerosi accelerata in corso di uremia [Pubblicazione]

Calcificazioni **cardiovascolari** e aterosclerosi accelerata in corso di uremia Valore Non Impostato

Cuore e salute : le scale del Duomo e la prevenzione delle malattie cardiovascolari [Pubblicazione]

malattie **cardiovascolari** Valore Non Impostato

Dalla sindrome metabolica alle complicanze cardiovascolari : quali fattori etiopatogenetici emergenti [Pubblicazione]

complicanze **cardiovascolari** : quali fattori etiopatogenetici emergenti Valore Non Impostato

Aderenza ai criteri clinici e complicanze cardiovascolari in 205 pazienti con malattia di Kawasaki [Pubblicazione]

complicanze **cardiovascolari** in 205 pazienti con malattia di Kawasaki Valore Non Impostato

Aderenza ai criteri clinici e complicanze cardiovascolari in 165 bambini con malattia di Kawasaki [Pubblicazione]

Raffina la ricerca per categorie

Filtri applicati/Rimuovi filtri

☒ Tipologia: pubblicazione

Autori/Partecipanti

ARNOLDI ANNA (8)
BALDASSARRE DAMIANO (6)
BOSCHIN GIOVANNA (6)
CAMERA MARINA (4)
CARUGO STEFANO (3)
BERTAZZI PIETRO ALBERTO (2)
CALABRESI LAURA (2)
CONTINI ALESSANDRO (2)
CORSINI ALBERTO (2)
FERRI NICOLA (2)
more...

Tipo contributo

Presentazione (15)
Poster (9)
Null (5)
Articolo (4)
Valore Non Impostato (4)
Presentazione Breve (2)
Capitolo O Saggio (1)
Intervento A Convegno (1)
Riassunto Di Intervento A Convegno (1)

Anno

2008 (9)
2010 (8)
2011 (6)
2006 (5)
2007 (4)
2009 (4)



Nutrizione, crescita e sviluppo del bambino oggi

[Pubblicazione]

Anno

2007

SSD

MED/38 - Pediatria Generale e Specialistica

Citazione

Nutrizione, crescita e sviluppo del bambino oggi / M. Giovannini, E. Verduci, E. Salvatici, C. Agostoni. ((Intervento presentato al 36. convegno Congresso Regionale SIP - XI Congresso Regionale SIN - IV Congresso Regionale SIMEUP - Sezioni Siciliane tenutosi a Palermo nel 2007.

Abstract

Studi recenti hanno suggerito che molte tra le più comuni patologie dell'età adulta, tra cui malattie cardiovascolari, ipertensione, diabete mellito tipo II, deriverebbero da uno squilibrio metabolico originatosi in seguito ad un'alterata crescita nel periodo fetale. Secondo tale ipotesi ("fetal origin hypothesis") il verificarsi di alterazioni nella nutrizione e nell'equilibrio endocrino durante l'epoca fetale determinerebbero un adattamento dello sviluppo che modificherebbe in maniera permanente la struttura, la fisiologia e il metabolismo dell'individuo, predisponendolo ad alterazioni cardiovascolari, metaboliche ed endocrine in età adulta. Il processo attraverso cui uno stimolo o un insulto verificatosi in periodi critici dello sviluppo determinerebbe effetti a lungo termine viene definito programming. Una successiva ipotesi, recentemente sviluppata, pone l'accento soprattutto sul tasso di crescita nelle prime fasi di sviluppo della vita extrauterina. Singhal e Lucas hanno mostrato associazioni tra i tassi di recupero ponderale nelle prime due settimane di vita extrauterina ed alcuni marker precoci dei principali componenti della sindrome metabolica (ipertensione, dislipidemia, obesità, insulino-resistenza) che conduce allo sviluppo di malattie cardiovascolari. Questa teoria è stata definita "l'ipotesi dell'accelerazione della crescita". Secondo tale ipotesi, un eccessivo intake di nutrienti determinerebbe una rapida crescita nelle prime settimane di vita, programmando in modo "avverso" la salute del sistema cardiovascolare. Tale accelerazione risulterebbe essere tanto maggiore quanto minore è il peso alla nascita. Conclusioni: dai dati a disposizione emerge che la dieta dei bambini non è correttamente bilanciata. E' opportuno quindi programmare un intervento educativo continuo a partire dai primi anni di vita e programmare interventi nutrizionali precoci con effetto a lungo termine sulla salute, sulla base dei trials europei in corso.

Tipo contribuito

Presentazione

Autori

AGOSTONI CARLO VIRGINIO
VERDUCI ELVIRA
VERDUCI ELVIRA

Elementi simili

- Quattro ritardi da colmare: sanità, turismo, infomobilità e imprese : le tecnologie digitali per il rilancio : un'analisi di ThinkTel
- Quattro ritardi da colmare: sanità, turismo, infomobilità e imprese : le tecnologie digitali per il rilancio : un'analisi di ThinkTel
- Incontri Mondostetrica edizione 2009
- Personalità e memoria fetale
- Ormoni : crescita e sviluppo

SAIKU: SURplus' Business Intelligence



User-friendly OLAP analysis of datamarts within a datawarehouse

Modification of MDX language behind the OLAP analysis

Operations in drag&drop modality

Interface based on front-end JQuery

Interaction with OLAP systems such as...



/ An open-source ROLAP (relational online analytical processing)

/ Translates MDX query into SQL query on multi-dimensional model

/ Permits to catch results for optimizing performances

/ It can be configured to restrict visibility

SAIKU: some functionalities


SURplus




Manutenzione
 Risorse
 Attività
 Prodotti
 Valutazioni
 MySURplus

Cubi

budget and spending

Dimensioni

- Area
- BS Type
 - (All)
 - BS Type
- BS Year
 - (All)
 - BS Year
- Backer Type
- Main Affiliation
- Project Type
- Project Year
- Role
- Ssd
- State
- Title

Misure

- Misure
 - Budget Approved
 - Budget Requested
 - Budget request difference
 - Projects' count

Colonne

Budget Approved Spending Spent

Righe

BS Type

Filtri

Rows: 6 Columns: 3 Duration: 0.01s

BS Type	Budget Approved	Spending Spent
Advertising	17,645,000	16,856,800
Consulting Fees	17,126,000	16,378,600
Dues & Subscriptions	17,444,000	16,710,400
Salary	16,809,000	16,098,300
Travel & Entertainment	17,504,000	16,712,500

SAIKU: some functionalities

The screenshot displays the SURplus software interface. At the top, the SURplus logo is on the left, and navigation tabs for 'Manutenzione', 'Risorse', 'Attività', 'Prodotti', 'Valutazioni', and 'MySURplus' are in the center. On the right, there are icons for a document, a star, and flags for Italy and the UK, along with a circular logo. The main interface shows a cube named 'Cubi' with a dropdown menu set to 'budget and spending'. The 'Dimensioni' (Dimensions) list on the left includes 'Area', 'BS Type', 'BS Year', 'Backer Type', 'Main Affiliation', 'Project Type', 'Project Year', 'Role', 'Ssd', 'State', and 'Title'. The 'Misure' (Measures) list on the left includes 'Misure', 'Budget Approved', 'Budget Requested', 'Budget request difference', and 'Projects' count'. A dialog box titled 'Selections for BS Type' is open, showing a search bar and two lists: 'Available members' and 'Used members'. The 'Available members' list includes 'Bonus & Commissions', 'Computer Lease', 'Contracted Services', 'Employee Benefits', 'Employee Incentive', 'General Insurance', 'Legal Fees', 'Marketing Materials', 'N.D.', 'Office Expense', 'Office Rent', 'Office Supplies', 'Other Professional Fees', 'Postage', 'Recruiting', 'Repairs & Maintenance', 'Seminars & Training', 'Software Licenses', 'Taxes & Licenses', 'Telephone', and 'Telephone Cellular'. The 'Used members' list includes 'Advertising', 'Consulting Fees', 'Dues & Subscriptions', 'Salary', and 'Travel & Entertainment'. The dialog box also has a 'Show Unique Names' checkbox and 'OK' and 'Cancel' buttons. The status bar at the bottom right of the dialog box indicates 'Rows: 6 Columns: 3 Duration: 0.01s'.

SAIKU: some functionalities

The screenshot displays the SURplus web application interface. The top navigation bar includes the SURplus logo, a language selector (Italian, English), and a user profile icon. The main menu contains tabs for Manutenzione, Risorse, Attività, Prodotti, Valutazioni, and MySURplus. The left sidebar shows a tree view of dimensions and measures. The central area displays a table of data with columns for BS Type and Budget Approved. A 'Drill-Through to CSV' dialog box is open, showing a list of dimensions and measures to be included in the export. The dialog also includes a row limit setting and a caution message about performance.

Drill-Through to CSV

Row Limit: (0 = none) 10000

CAUTION: The number of rows can have a significant impact on the performance of the following action.

Dimensioni

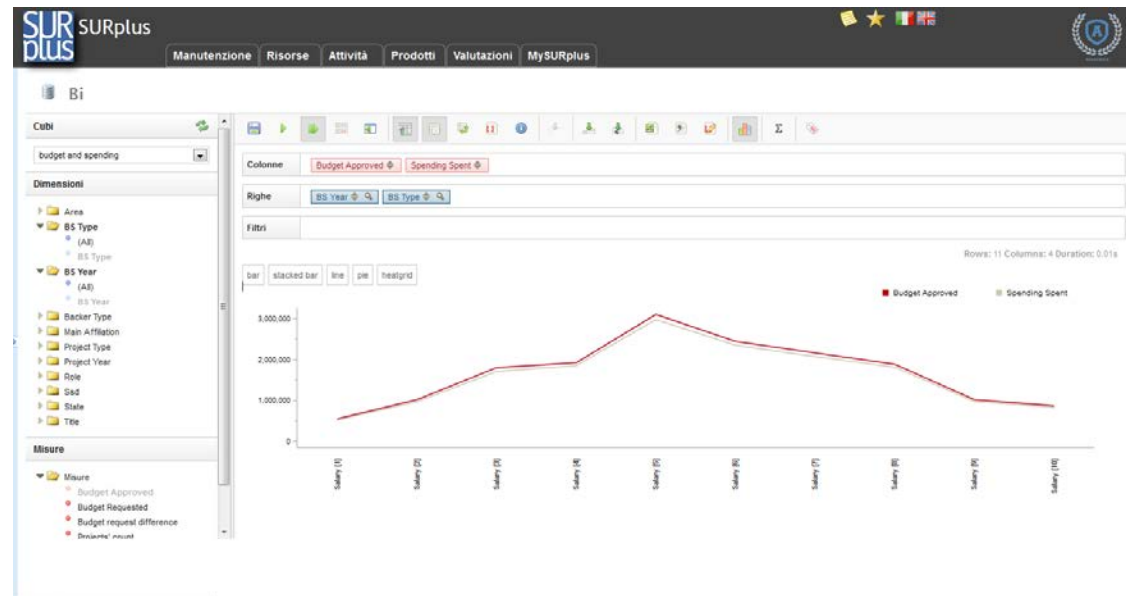
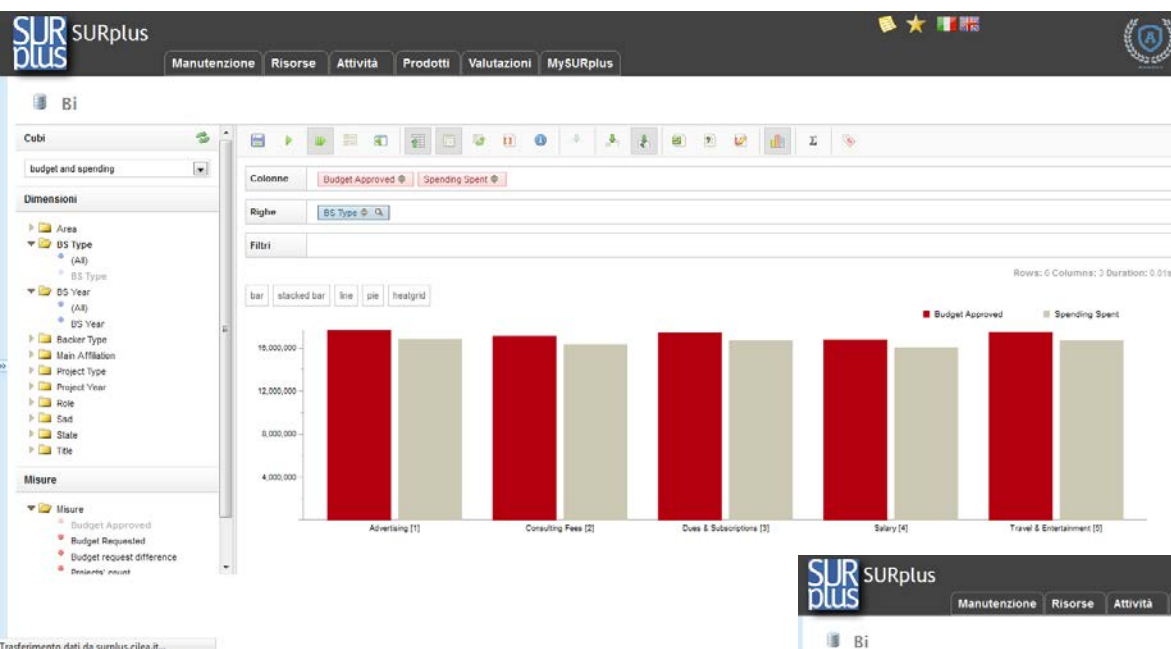
- ☒ Area
- ☐ BS Type
- ☐ BS Year
- ☐ Backer Type
- ☒ Main Affiliation
- ☐ Project Type
- ☐ Project Year
- ☒ Role
- ☐ Ssd
- ☐ State
- ☐ Title

Misure

- ☒ Budget Approved
- ☒ Budget Requested
- ☐ Budget request difference

Rows: 6 Columns: 3 Duration: 0.01s

SAIKU: some functionalities



Why Open Source?



The adoption of open-source solutions allows the SURplus team to customize and enhance the source code depending on the Institutions' needs. The OS community provides innovative, high-quality and safe software and it is challenging to work with & for them

What Open Source?

Authentication & Authorization



Presentation Layer



Business logic (linguaggi/framework)



System Integration



Business logic
(prodotti)



Business Intelligence



Framework



Preservation



Persistence Layer

Database



PostgreSQL



Last but not least...



Evaluation of Research Quality



Valutazione Qualità della Ricerca





Thank you!



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