

o Practice



ODQ2015

Open Data Quality: from Theory to

GIOVANNI MENDUNI
POLITENICO DI MILANO

ON DATA QUALITY APPLIED TO
OPEN 

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@GIOVANNIMENDUNI

THE OPERATIONAL CONTEXT

SPRING-SUMMER 2014

D.FR

lie, Renzi relève le défi
grande corruption

Corruption, Italie, Matteo Renzi, Expo 2015

Mise à jour : 19:02

es qui touchent Milan et Venise dévoilent un sys
ar les financements occultes.

corruption est plus qu'un méchant caillou dans la chaî
un obstacle de taille à sa volonté de moraliser la vie
mauvaises habitu...

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CORRIERE DELLA SERA / ENGLISH

HOME TV ECONOMIA SPORT CULTURA SCUOLA SPETTACOLI SALUTE SCIENZE INNOVAZIONE



Seven Arrests in Milan Expo Sc

Prosecution service divided again. Expo constructions manager arre
senator Grillo and Clean Hands convicts Greganti and Frigerio

di Online newsdesk Milan

**Expo 2015 SpA's planning and procurement manager and general man
of constructions for the Milan event, Angelo Paris, has been arrested by
investigating magistrate Fabio Antezza in the course of inquiries into crimes
against the public administration by Milan-based prosecutors Claudio**

INTERNATIONAL EUROPE

**La corruption b
campagne en Ita**

LE MONDE | 14.05.2014 à 10h22 • Mis à jour
Philippe Ridet (Rome, correspondant)

Abonnez-vous
à partir de 1 €

Réagir

Classer

Recommander

Partager

2 personnes le recommandent. In
que vos amis recommandent.

MILANO 2015
NUTRIRE IL PIANETA
ENERGIA PER LA VITA

L'épicentre de la campagne italienne pour les élections européennes s'es
déplacé, mardi 13 mai, à Milan. La capitale lombarde est balayée p
scandale de corruption lié aux travaux de l'Exposition univers
qualifié par les médias italiens de « nouveau tangentopoli
politico-financier qui a ébranlé les institutions italiennes

terne

14 à 20:03

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TV & Movies Games Sports Technology Business

Renzi: Expo Milán se realizará pese a escándalo

By Por COLLEEN BARRY - Associated Press

May 13, 2014

Network

LE ESPRESSO

LE INCHIESTE

R.it

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Tutte le sezioni

Repubblica

Corruzione

Algeria, inchiesta tangenti Eni-Saipem: accertamenti sul Paolo Scaroni

Inchiesta G8: confiscati beni a Balducci e famiglia per 13 min

Cantone: "Corruzione, Confindustria faccia come contro la mafia"

Sorpreso con una prostituta tenta di corrompere i

Commenti 3

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Indoona

IBM

I server System x® vengono acquistati da Lenovo

I server IBM System x® utilizzando processori Intel Xeon®

La Repubblica

Leggi il tuo quotidiano in digitale per 3 MESI solo 19.99€

Ingenti Expo, Maltauro: "Ho tolto da raccontare ai pm". E ingenti: "Non c'entro niente"

pm sono due dei componenti della "cupola" che controllava i. Parlano per la prima volta dal carcere di Opera. Autore: "Ho pagato per poter lavorare. Questo sistema è il 20 anni di Berlusconi". Il compagno G.: "Volevo creare

zi promette

scándalo de los soborn

De Kelly VELASQUEZ | AFP - mar, 13 may 2014

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REUTERS

EDITION: U.S.

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Arrests, corruption probe, cast cloud over Italy's Expo 2015

BY EMILIO PARODI

MILAN | Fri May 9, 2014 8:24am EDT

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(Reuters) - The arrest of seven managers and ex-parliament over alleged attempts to influence pul Milan's Expo 2015 has cast a shadow over Italy's event and help kick-start t

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ANSA.it • English • Latest News • **Renzi visits Expo to show support after corruption probe**

Renzi visits Expo to show support after corruption probe

Premier showing 'face' to back world fair

Redazione ANSA

ROME

13 May 2014 11:21

NEWS

Suggerisci

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LE FIGARO

En Ita de la

Mots clés :

Heuzé, Richard 17/06/2014 |

Les scandale gangrené p

La grande co Renzi. C'est l'Italie des n



EXPO 2015

"FEEDING THE PLANET, ENERGY FOR LIFE"

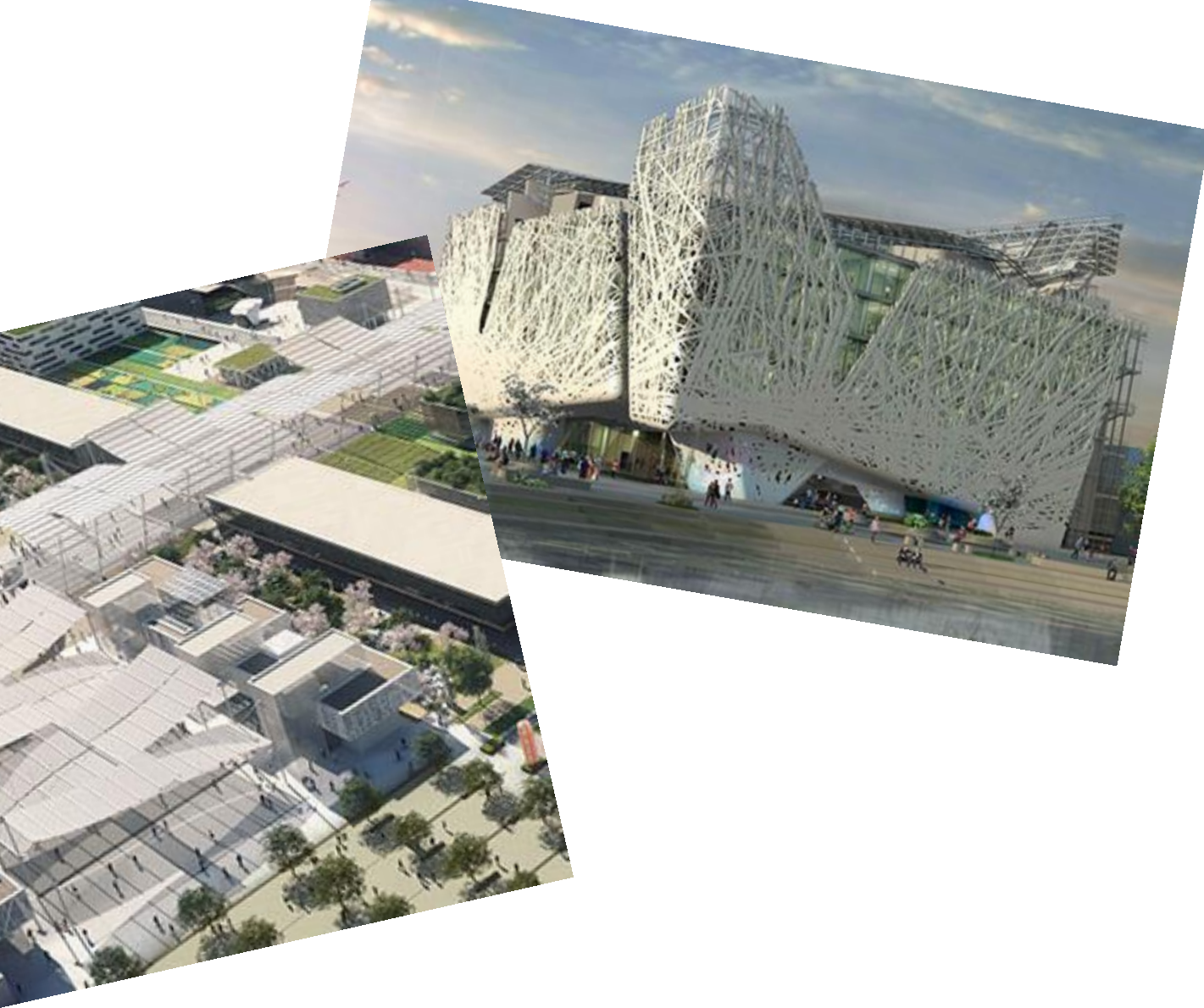
UNIVERSAL EXHIBITION HOSTED IN MILAN,
FROM MAY 1 TO OCTOBER 31, 2015.

140 PARTICIPATING COUNTRIES

20 MILLION VISITORS EXPECTED

1.1 MILLION SQ. METERS
OF EXHIBITION AREA

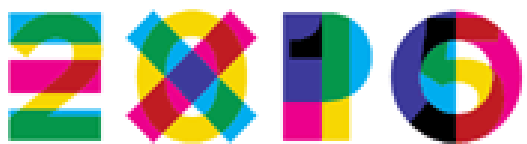




GOAL OF EXPO

CONCRETE ANSWERS TO
GUARANTEE HEALTHY, SAFE
AND SUFFICIENT FOOD
FOR EVERYONE,
WHILE RESPECTING
THE PLANET AND ITS
EQUILIBRIUM.





2 BILLION EUROS
34 PUBLIC WORKS
21 CONSTRUCTION SITES
5000 CONTRACTS
OF SERVICES AND SUPPLIES



OPEN EXPO PROJECT
COMMISSIONED JULY 7 2014
BY EXPO COMPANY
TO NPO WIKITALIA

OPEN



"WE ARE A GROUP OF CITIZENS WHO BELIEVE THAT
THE INTERNET CAN ENABLE NEW FORMS OF
COLLABORATION BETWEEN INSTITUTIONS AND
CITIZENS..."

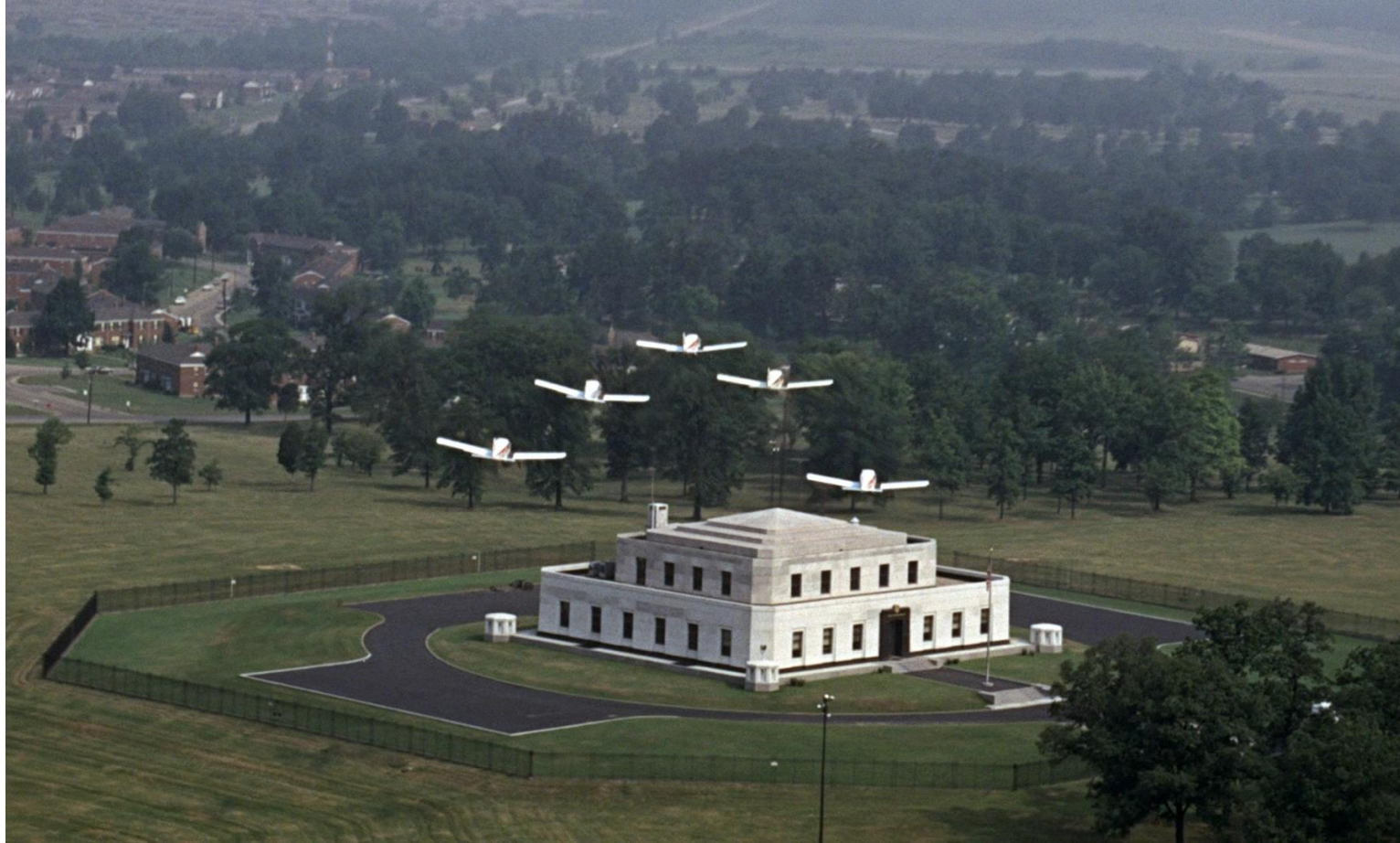
AIMS OF THE PROJECT
DISCLOSURE & PARTICIPATION
TO PREVENT CORRUPTION

ON LINE ALL DATA &
REALTIME STATE OF THE ART
OF WORKS AND EXPENSES

TIME FOR BETA RELEASE:
60 DAYS

HOSTING IN GOVERNMENT SERVERS

THIS IS HOW EXPO DATA REPOSITORY
IT WAS SUPPOSED TO BE IN OUR IMAGINATION.



THIS IS HOW EXPO DATA REPOSITORY
IT WAS SUPPOSED TO BE IN OUR IMAGINATION.

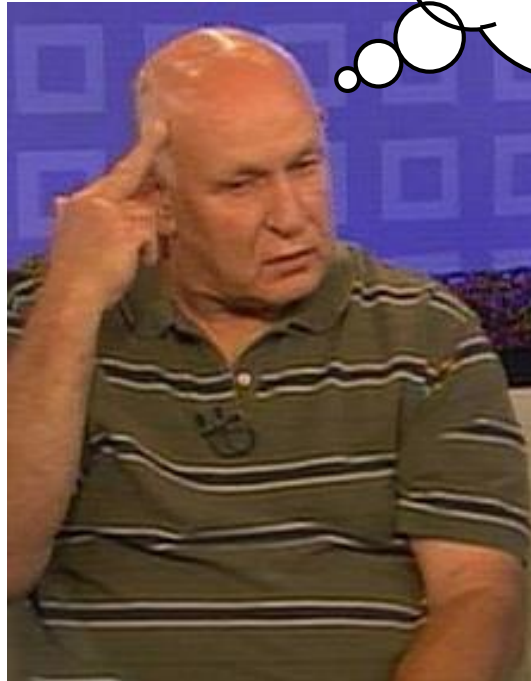


THIS IS JUST HOW IT ACTUALLY LOOKED LIKE



NOT AN UNIQUE DWH BUT
KNOWLEDGE LOST IN THE DIFFERENT DEPARTMENTS OF THE COMPANY,
ON DIFFERENT LEVELS OF TECHNOLOGY,
WITHOUT ANY STRONG COMMON INFRASTRUCTURE

JUST ASK...
I'VE GOT
EVERYTHING
IN HERE!!

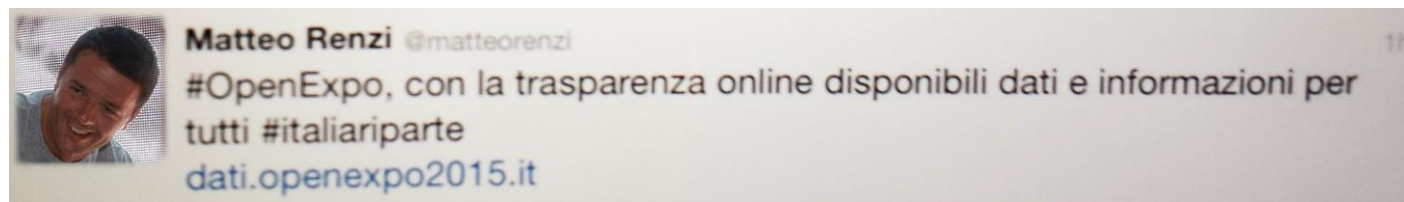


ACTIONS CHECKLIST FOR MONTH 1 (FROM JULY 7 2014 TO AUGUST 7)

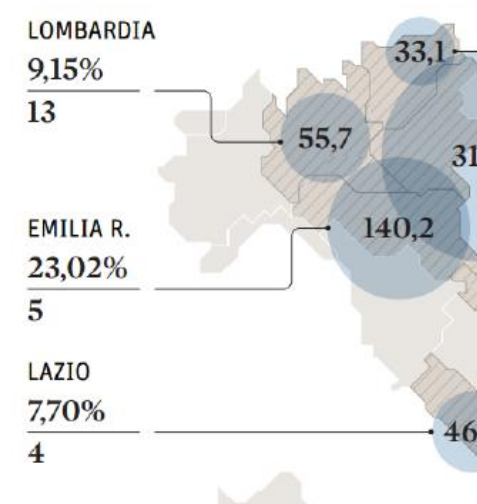
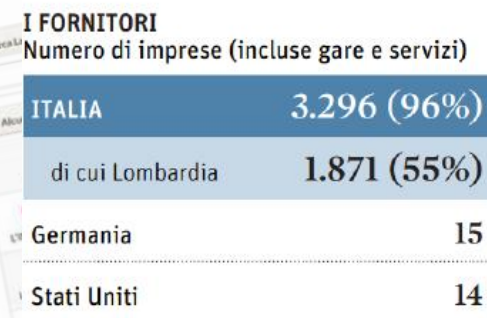
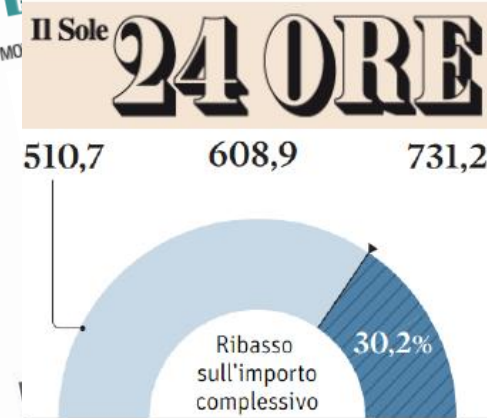
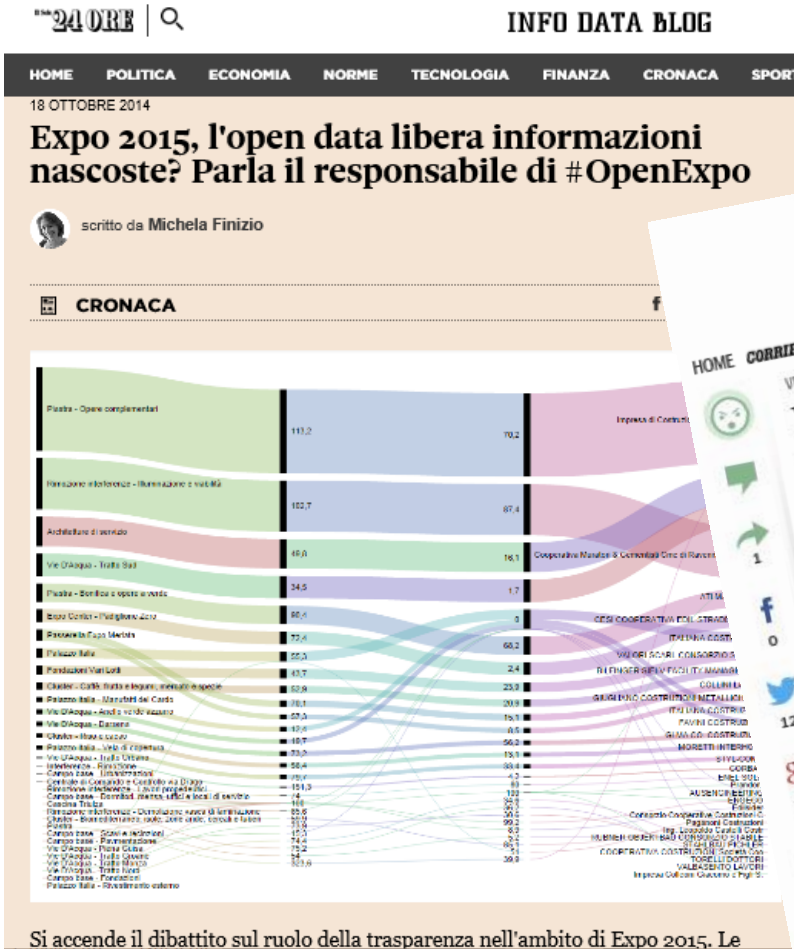
1. ANALYSIS OF DATA QUALITY REQUIREMENTS AND ASSESSMENT
2. INFORMATION MODELING
3. BASIC SEMANTIC (GLOSSARY, THESAURUS & TAXONOMY)
4. DEFINE THE USER EXPERIENCE
5. DESIGN THE SET OF BASIC DATA TABLES
6. MANAGERS & EMPLOYEES MASSIVE TRAINING
7. TEMPORARY DATA ENTRY ON 38 SHARED GOOGLE SHEETS
8. IMPLEMENT QUERIES FOR DATA QUALITY CHECK ON A TEMPORARY RDBMS
9. ASK NATIONAL OPEN DATA PLATFORM <http://dati.gov.it> FOR REUSE
10. DESIGN SPECIFIC API'S AND DASHBOARDS

ACTIONS CHECKLIST FOR MONTH 2 (FROM AUG 7, 2014 TO SEPTEMBER 11)

1. MASSIVE DATA ENTRY UP TO 80% TRANSACTION IN VOLUME (20% AS A #)
2. DEVELOPE THE RELATIONAL DBMS TO BE SHARED AMONG ALL COMPANY DEPTS
3. DESIGN & DEVELOPING THE COMPANY USER INTERFACE FOR DATA ENTRY
4. CONTINUE TRAINING BASING UPON F/B FROM DATA QUALITY ANALYSIS
5. DEVELOPE REUSE CODE, APIS AND DASHBOARDS
6. COLLECT & VALIDATE GEOGRAPHIC DATA AND PRODUCE GEOJSON FILES
7. DEFINE A TEMPORARY DATA FEED MODE TO OPENEXPO
8. RELEASE OF ALPHA AND INTERNAL TESTING
9. OFFICIAL RELEASE OF BETA BY 2 MINISTERS (AND TWEET OF THE DAY...)

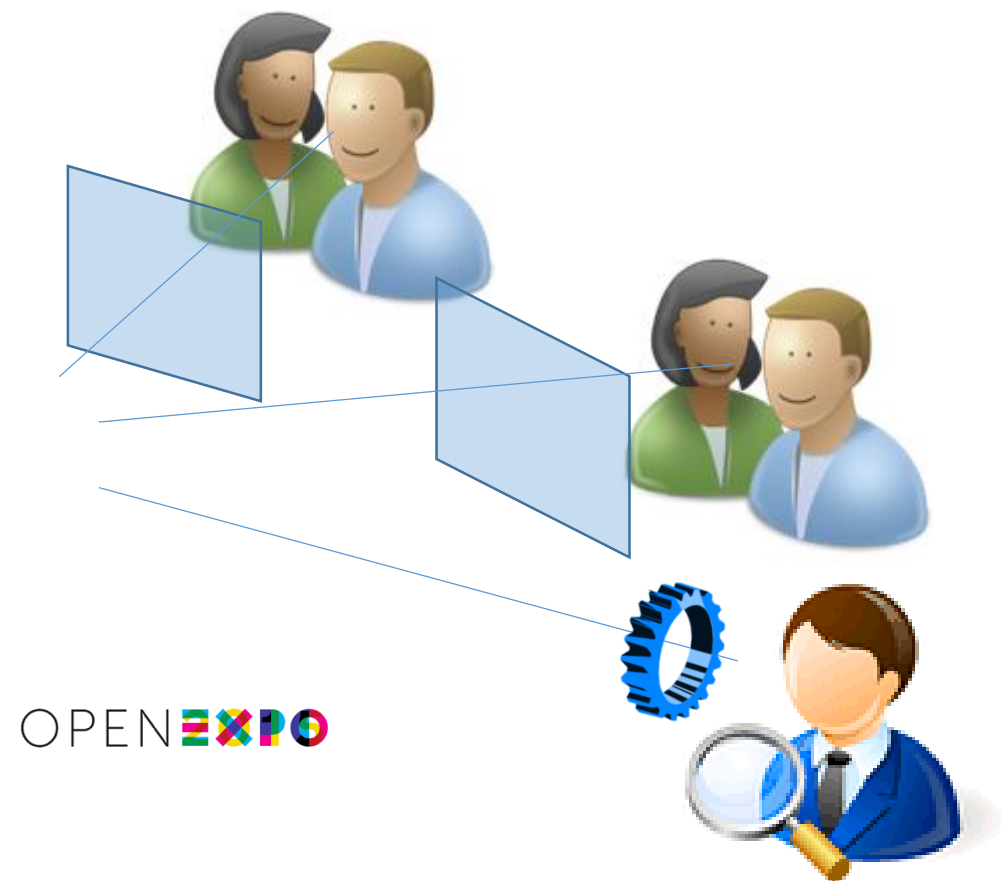
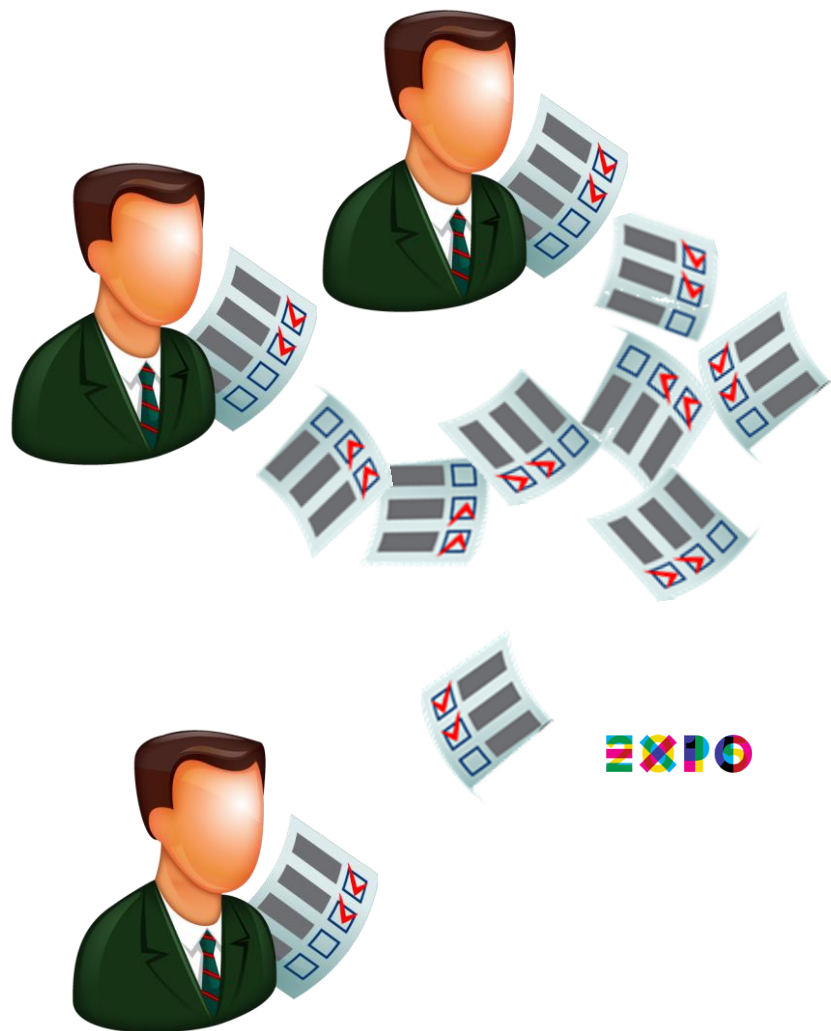


GOOD RETURN ON NATIONAL PRESS



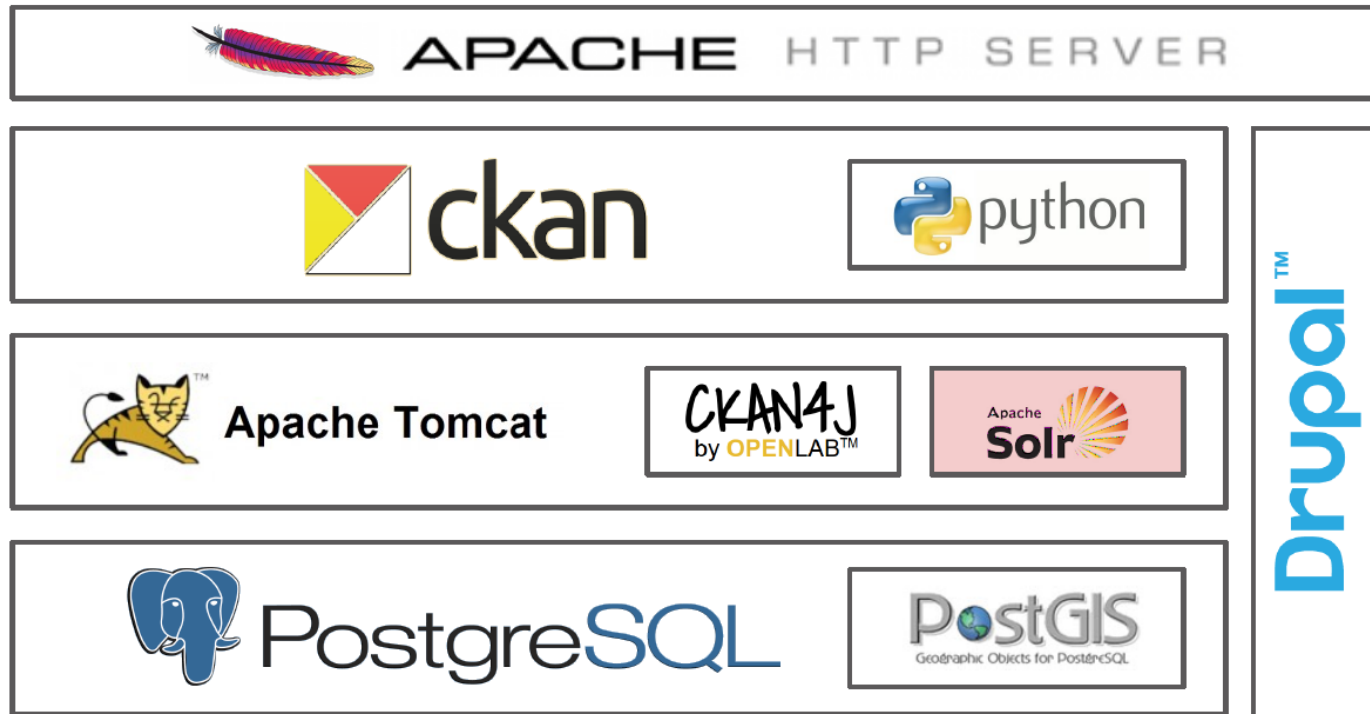
ACTIONS CHECKLIST TO THE END OF THE CONTRACT (31 DEC)

1. RELEASE OF THE INTERNAL TRANSACTIONAL/RELATIONAL DATABASE
2. REDESIGN OF THE GEOGRAPHIC DSDHBOARD
3. ACTIVATE DATA LIVESTREAM FROM THE NEW DWH TO OPENEXPO



JUST A QUICK LOOK UNDER THE HOOD

OPEN DATA SIDE



DASHBOARD SIDE



HTTP://DATI.OPENEXPO2015.IT



OPEN  Dati e trasparenza per Expo 2015

HOME | CRUSCOTTO LAVORI | OPEN DATA | NOTIZIE

🏠 / Organizzazioni / Expo 2015 SpA / Sintesi Gare Lavori / **Elenco completo delle gare in ...**

Elenco completo delle gare in formato CSV

Download

Data API

URL: <http://dati.openexpo2015.it/catalog/dataset/c1ef2987-64f6-4a23-99dd-2d602ba29f89/resource/cc16106a-1a65-4c34-af13-cc045d1814...>

Elenco completo delle gare in formato CSV

Grid	Graph	Map	35 records		«	0	—	100	»	Q Search data ...	Go »	Filters
_id	Numero ...	RUP	Oggetto ...	Settore ...	Numero ...	Modalita...	Memo lo...	Importo ...	CIG	Gara esc...		
1	1	Chiesa	fornitura ...	ordinario	1	gara inde...	Campo b...	6006180.30	4619190...	no	^	
2	2	Chiesa	realizzazi...	ordinario	4	gara inde...	Campo b...	804536.78	4476386...	no		
3	2	Chiesa	realizzazi...	ordinario	4	gara inde...	Campo b...	957503.25	4476366...	no		
4	2	Chiesa	realizzazi...	ordinario	4	gara inde...	Campo b...	949504.56	4476359...	no		
5	2	Chiesa	realizzazi...	ordinario	4	gara inde...	Campo b...	729753.40	4476322...	no		
6	3	Chiesa	Illuminazi...	ordinario	1	gara inde...	Interferen...	1000000.00	4884693...	no		
7	4	Chiesa	Interventi ...	ordinario	1	gara inde...	Interferen...	9727599...	3098510...	no		
8	5	Chiesa	Procedur...	ordinario	1	gara inde...	Expo cent...	3224683...	5283031...	no		
9	6	Chiesa	Procedur...	ordinario	1	gara inde...	Passerell...	1633072...	5157173...	no		
10	7	Chiesa	Esecuzio...	ordinario	1	Procedur...	Interferen...	447597.01	3370665...	no		
11	8	Chiesa	Procedur...	ordinario	1	gara inde...	Cascina T...	1277701...	5141040...	no		
12	9	Acerbo	Progetto ...	ordinario	1	gara inde...	Vie D'Acq...	5150000.00	4634128...	no		
13	10	Chiesa	Procedur...	ordinario	1	gara inde...	Expo/Pias...	2721000...	3736455...	-		
14	11	Acerbo	Progetto ...	ordinario	1	gara inde...	Vie D'Acq...	6400000.00	4634225...	no		
15	12	Chiesa	Atto aggi...	ordinario	1	Procedur...	Expo/Ver...	6400285.82	5237898...	no		
16	13	Chiesa	INTERVE...	ordinario	1	gara inde...	Vie D'Acq...	1252031...	4881551...	no		
17	14	Acerbo	realizzazi...	ordinario	1	gara inde...	Vie D'Acq...	5441861...	4983404...	no		
18	15	Acerbo	Progetto ...	ordinario	1	gara inde...	Vie D'Acq...	1401207...	4917515...	no		
19	16	Chiesa	realizzazi...	ordinario	1	gara inde...	Vie D'Acq...	3505025.40	5340022...	no		

OPEN  Dati e trasparen

HOME | CRUSCOTTO LAVORI | OPEN DATA | NOTIZIE

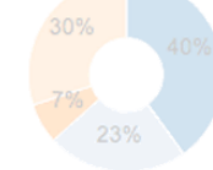
Lavori EXPO 2015



Lavori EXPO 2015, a partire da questa sezione del sito è possibile navigare le informazioni sullo stato di avanzamento di ogni singolo cantiere dell'Esposizione Universale 2015 navigabili per menu o attraverso una mappa dinamica.

Perché Open Expo

Quanto ci costa? Chi ha avuto gli incarichi? A che punto sono i cantieri?



Lavori EXPO 2015

Verifica lo stato di avanzamento dei lavori di Expo 2015



In evidenza

Segnalazioni

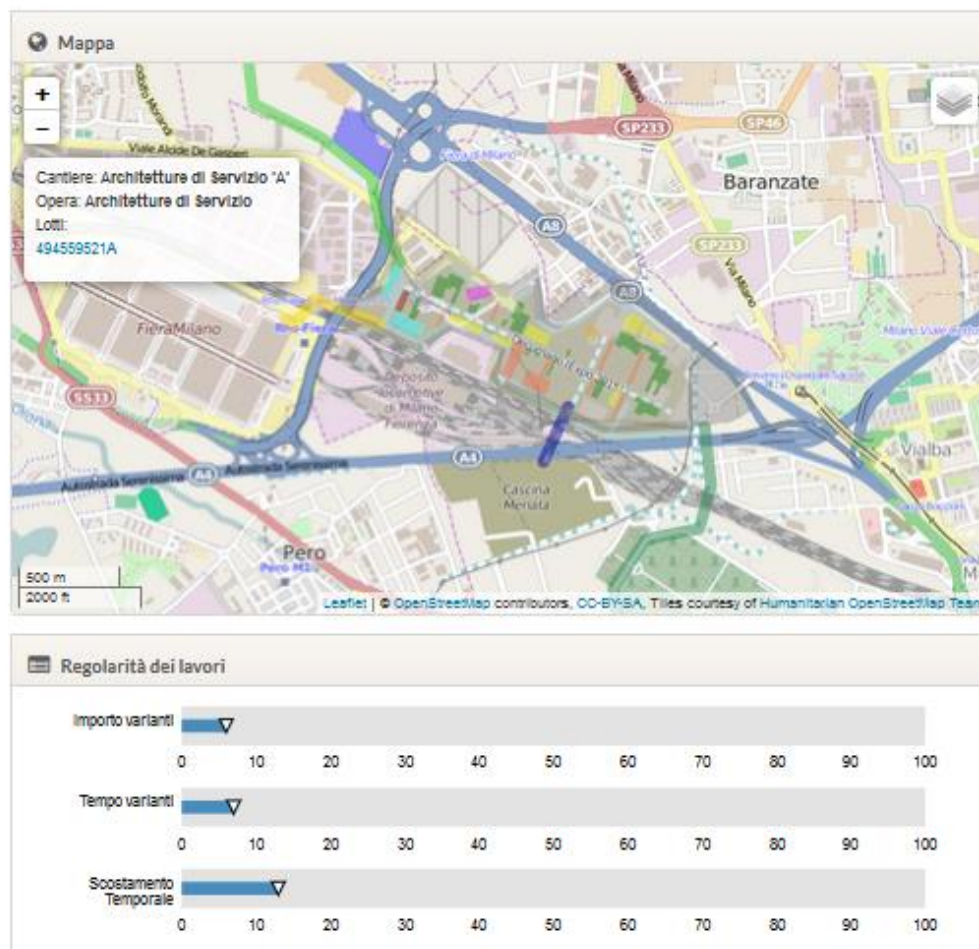
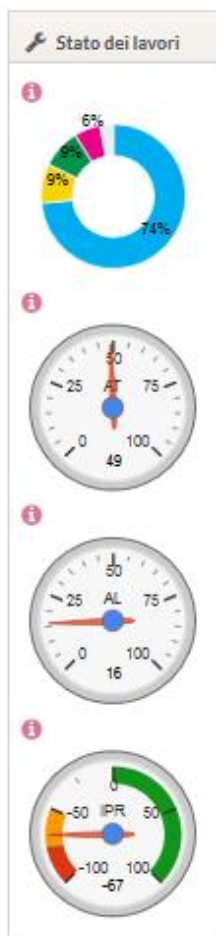
Segnala imprecisioni, dataset mancanti, visualizzazioni utili



Amministrazione trasparente

La sezione trasparenza amministrativa obbligatoria per legge di Expo 2015





Cerca Lotto

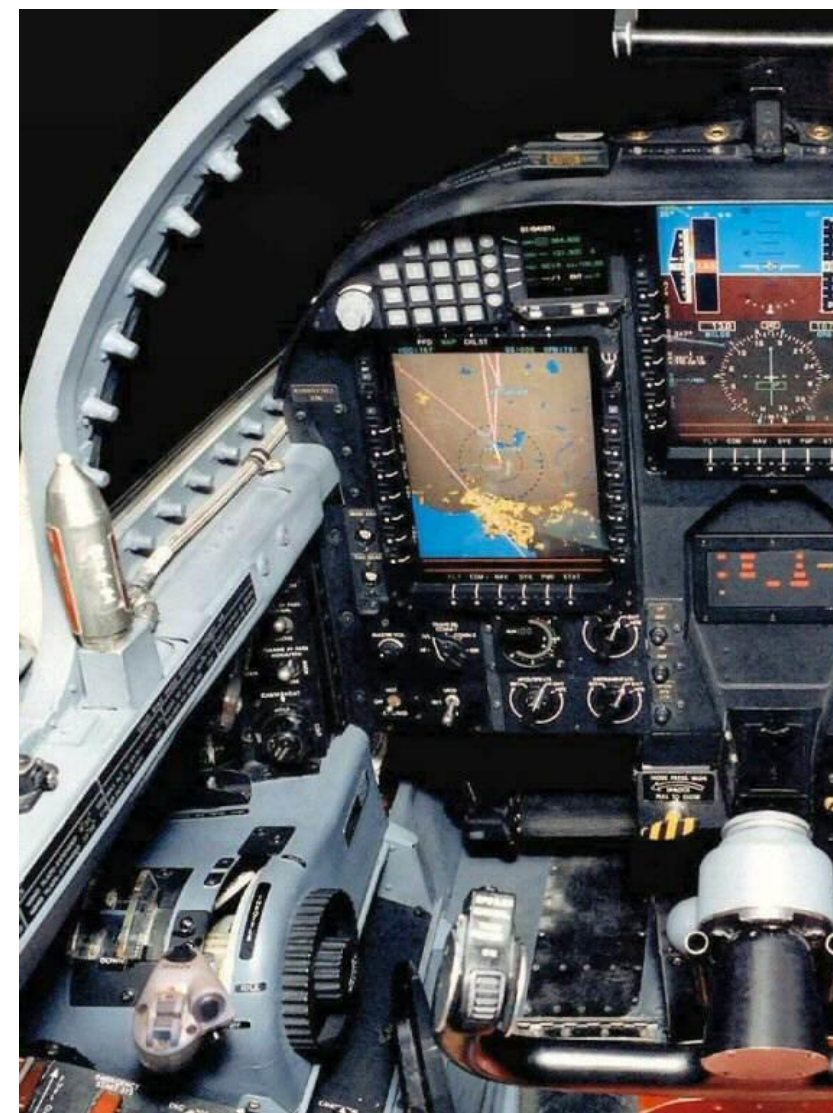
Alcuni Dati

Architetture di Servizio

Stato in corso
Base d'asta €67.080.501
Aggiudicato €55.679.612
Oneri sicurezza €1.675.471
Indice di ribasso 17
Progettazione €492.049
Non assoggettati a ribasso €0
Costo dell'opera €57.847.149
Subappalti €20.696.504
Varianti €0
Giorni contrattuali 295
Consegne lavori 07/05/2014
Proroghe per varianti 0
Proroghe per forza maggiore 0
Fine lavori 26/02/2015
SAL contabilizzati €22.405.495
Giorni lavorati 204
Ultimo SAL 30/09/2014

Elenco Opere

Architetture di servizio



Stato dei lavori

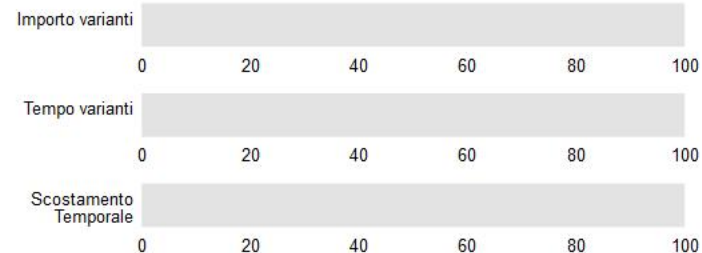
in corso



Gallery



Regolarità dei lavori



Cartello

DENOMINAZIONE	PROCEDURA RISTRETTA PER L?AFFIDAMENTO DELL?APPALTO INTEGRATO, AI SENSI DELL?ART. 53, COMMA 2, LETT. B), DEL D.LGS. 163/2006, CONCERNENTE LA PROGETTAZIONE ESECUTIVA E L?ESECUZIONE DEI LAVORI DI REALIZZAZIONE DELLE CD. ARCHITETTURE DI SERVIZIO, AFFERENTI AL
IMPRESA	Maltauro S.p.A.
IMPORTO A BASE D'ASTA	€ 67.080.501
IMPORTO AGGIUDICATO	€ 55.679.612
IMPORTO SUBAPPALTI	€ 20.331.504
IMPORTO DELLE VARIANTI	0
RIBASSO PRATICATO	17.56 %

OPEN 

OPEN BY DEFAULT
REUSE
OPEN SOURCE
COLLABORATION
ENGAGEMENT





NOW, LIGHTS & SHADOWS

100K SESSIONS FROM SEPT 2014
75K IN THE LAST THREE MONTHS

COMPANY INTEREST IN DATA QUALITY
SUDDENLY DROP DOWN AS THE PROJECT ENDED

MAY BE THE PROJECT WILL RESTART NOW

TKS FOR YOUR ATTENTION!

GIOVANNI MENDUNI
POLITECNICO DI MILANO

GIOVANNI.MENDUNI@POLIMI.IT
@GIOVANNIMENDUNI