

IBM Cognos Performance

Better Intelligence. Better Business.

Best Practice sull'integrazione tra IBM Cognos e SAP Business Warehouse

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Agenda

- Integrazione e Interoperabilità tra IBM Cognos e SAP, in particolare con SAP BW
- Best Practices sull'utilizzo di IBM Cognos e SAP BW
- Demo



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IBM Cognos Interoperability & Integration Certificazioni

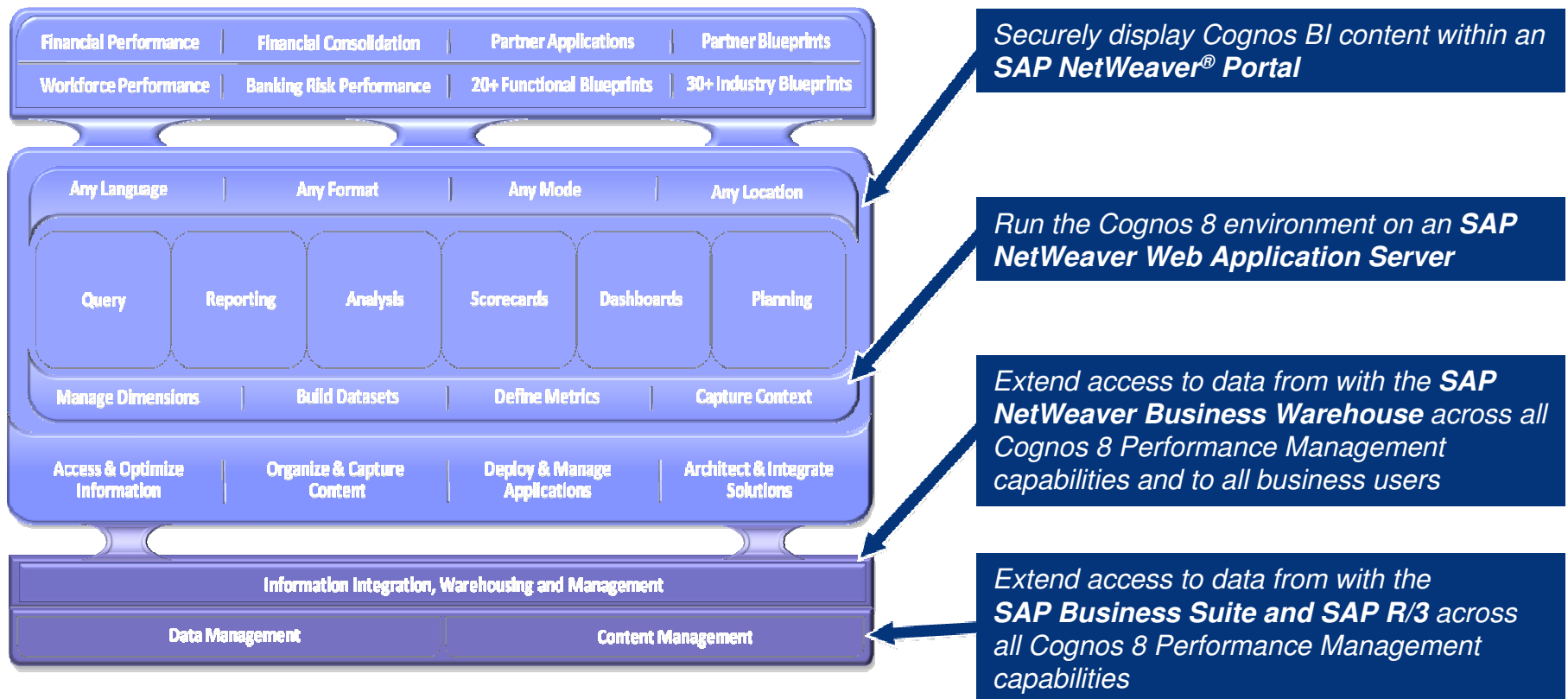


- Soluzioni certificate dal 1997
- Uno dei primi vendors di BI a certificarsi "Powered by NetWeaver"
- Impegno storico e presente sulla certificazione del software Cognos su SAP
- Si avvale dell'esperienza degli oltre 35 prodotti IBM certificati su SAP
- Il software Cognos è presente negli IBM Competency Centers focalizzati sulle applicazioni SAP



IBM Cognos Performance

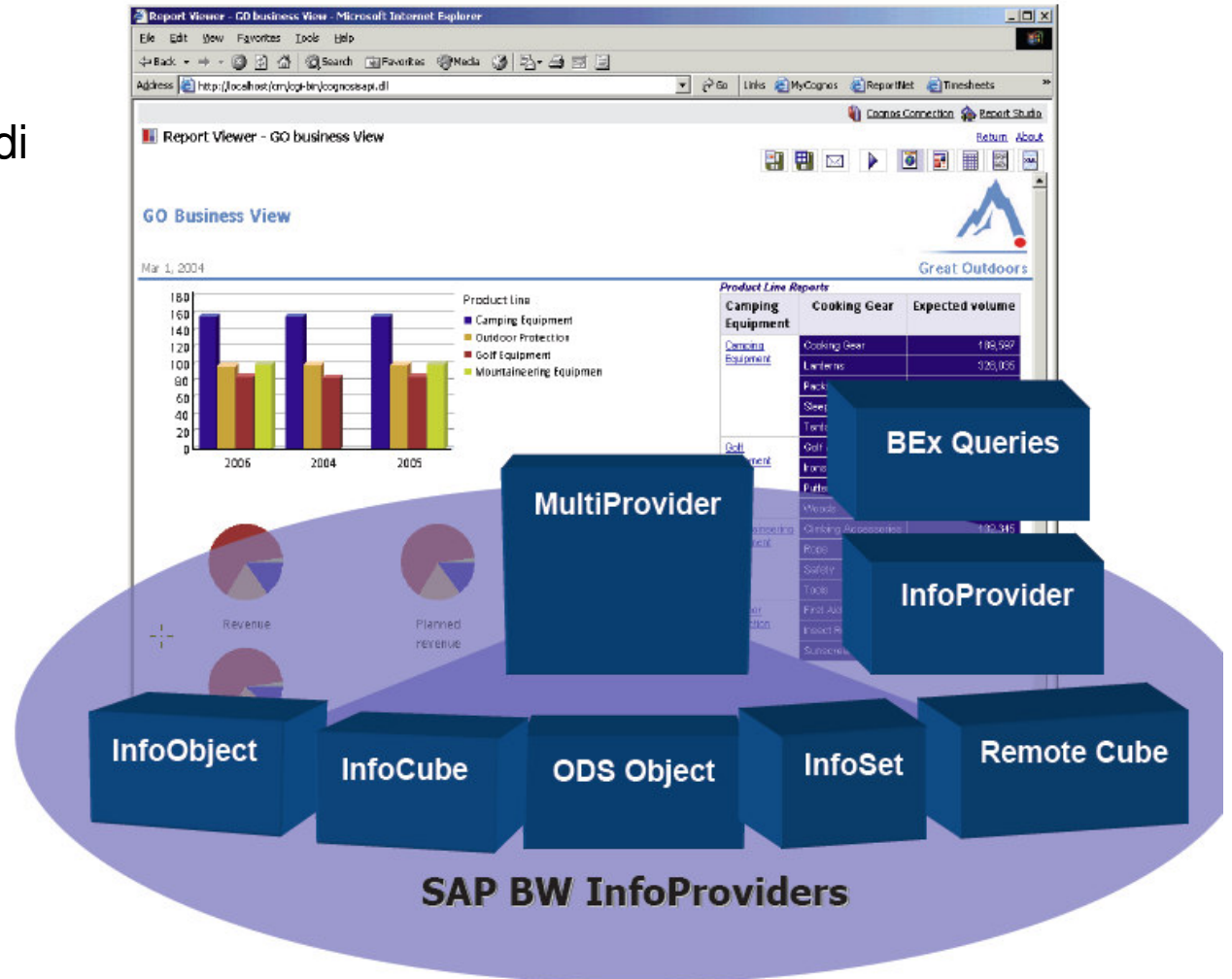
IBM Cognos 8v4 Interoperability & Integration *Sfruttare gli investimenti sulla tecnologia e sulle applicazioni SAP*



Leverage SAP BW InfoProviders

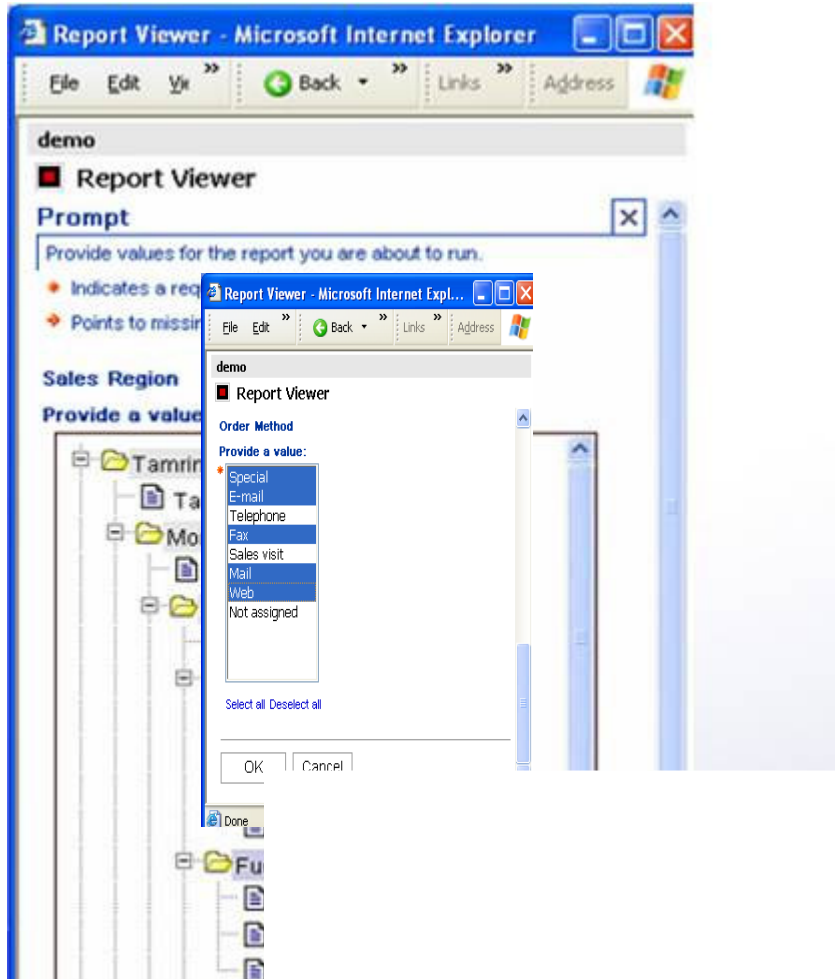
- Cognos accede ai metadati e al contenuto di tutte le strutture di BW:

- InfoCubes
- InfoObjects
- MultiProviders
- InfoQueries
- InfoSets
- VirtualCubes
- RemoteCubes
- ODS
- Master data



IBM Cognos Performance

Leverage SAP Metadata & Defined Business Rules

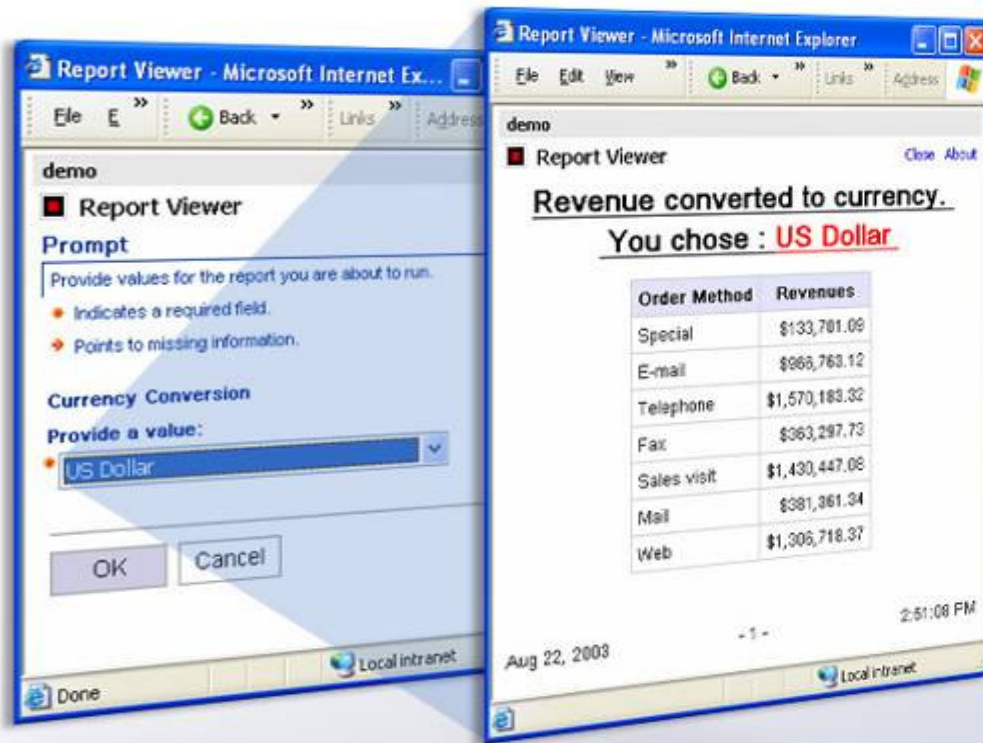


- Solido supporto all'MDX e alla modellazione multidimensionale gerarchica
- Supporto alle variabili
 - Enhanced prompt control
- Esteso supporto alle business rules - out of the box!!
 - Multinational / global rules
 - Calculations and aggregations
 - And more...



IBM Cognos Performance

Leverage SAP Multi-National Features: Multi-lingual, multi-currency



The screenshot displays two overlapping windows from a Microsoft Internet Explorer browser. The background window is titled 'Report Viewer - Microsoft Internet Explorer' and shows a report titled 'Revenue converted to currency.' with a sub-header 'You chose : US Dollar'. Below this is a table with two columns: 'Order Method' and 'Revenues'. The foreground window is a 'Currency Conversion' dialog box with a dropdown menu set to 'US Dollar' and 'OK' and 'Cancel' buttons.

Order Method	Revenues
Special	\$133,701.09
E-mail	\$966,763.12
Telephone	\$1,570,183.32
Fax	\$363,297.73
Sales visit	\$1,430,447.08
Mail	\$981,361.34
Web	\$1,306,718.37

- Pieno supporto al multi-language
- Multiple currencies per item
- Formattazione per le valute, i numeri, le date e le unità di misura.



Leverage SAP BW Queries

- SAP characteristics → Dimensioni
- Gerarchie alternative
- SAP Restricted and calculated key figures → Misure
- Variabili SAP → diversi tipi di prompt

Double click to edit text

Cost

	Cost	Quantity	Revenue
Sales	\$1,953,300.00	5,25894	\$1,501,000.00
BOSTON	\$341,900.00	1,01866	\$402,916.00
MICHIGAN	\$470,930.00	1,53166	\$485,716.00
BOSTON + MICHIGAN	\$812,830.00	2,55032	\$888,632.00
Total	\$4,726,400.00	7,80274	\$3,516,500.00

Dual Structures + Member Level Calculations

Please Choose Product (Cognos Variable)

Keywords

Type one or more keywords separated by spaces.

Search

Options

- Starts with any of these keywords
- Starts with the first keyword and contains all of the remaining keywords
- Contains any of these keywords
- Contains all of these keywords

Case insensitive

Results:

- Canyon Mule Climber Backpack
- Canyon Mule Weekender Backpack
- Canyon Mule Journey Backpack
- Canyon Mule Extrema Backpack
- Canyon Mule Cooler
- Canyon Mule Carryall
- Compact Relief Kit
- Compact Relief Kit
- Course Pro Putter

Insert Remove

Choices:

- Canyon Mule Climber Backpack
- Calamine Relief

Select all Deselect all

Please Select Order Method (SAP Variable):

- Fax
- Telephone
- Mail
- E-mail
- Web
- Sales Visit
- Special
- #

Select all Deselect all

Cancel < Back Next > Finish

Multi-Valued Search & Select Prompt using Cognos Variable

Multi-Select Value Prompt using SAP BW Variable



IBM Cognos Performance

Leverage SAP Security

- Accessi e autenticazioni definiti in SAP
- Single sign-on tra IBM Cognos 8 e SAP NetWeaver Portal
- Stesso report può essere filtrato a seconda del profilo di sicurezza definito in SAP (bursting)
- Nessuna duplicazione della security



IBM Cognos Performance

Integrate with SAP Enterprise Portal

- Potete facilmente integrare IBM Cognos 8 in SAP Enterprise Portal

The screenshot displays the IBM Cognos Performance interface. Annotations with red arrows point to various features:

- View Alerts:** Points to the 'News Alert Viewer' section, which lists news items such as 'Pipeline shortfall for Netherlands' and 'Review Process for New York - Late'.
- Browse Content:** Points to the 'My Reports' section, which lists reports like 'Revenue and Margin', 'Product Returns', and 'Sales Analysis (BW)'.
- Search Content:** Points to the 'Cognos Go! Search' section, which includes a search box and an 'Advanced' search option.
- View Metrics:** Points to the 'My Metrics' table, which shows performance indicators like 'Sales Discount %', 'L/NM per Sales Rep Growth (%)', and 'Average License Revenue per Rep'.
- View Specific Content:** Points to the 'Sales by Product' and 'Qty Sold by Region' charts, which provide detailed data visualizations.

The interface also includes a 'My Information' section with a 'Choose Time Range' filter (Start Date: Jan 1, 2002; End Date: Sep 18, 2006) and a 'Sales by Order Type' table.

Order Method	Planned Revenue (USD)	Unit Sale Price (USD)
All Order Method	\$89,648,511.20	\$1,217,087.57
Fax	\$4,829,687.70	\$62,984.30
Telephone	\$24,851,147.40	\$333,177.47
Mail	\$6,995,856.70	\$97,620.30
E-mail	\$14,726,383.00	\$189,270.04
Web	\$18,776,907.40	\$271,765.13



Con IBM Cognos potete estendere il valore di SAP BW

- Potete usare dati SAP BW e dati non-SAP BW in **un singolo report.**
- Potete combinare dati SAP BW e dati non-SAP BW in **un'unica query**

The screenshot shows a Cognos report titled "SAP BW and Relational Database Integration". It contains three tables comparing data from a Relational Database Query and a SAP BW Query, along with a Merged Query.

Relational Database Query		
Product Line	Product Type	Planned Revenue
Consumer Electronics	Computer Accessories	\$269,628
	Computers	\$874,976
	MP3	\$749,716
	PDA	\$860,605
Summary		\$2,754,926

SAP BW Query				
Product line	Product type	Actual Revenue (USD)	Order Qty	Gross Profit (USD)
Consumer Electronics	Computer Accessories	\$301,130	7,650EA	\$64,297
	Computers	\$219,674	3,370EA	\$77,368
	MP3	\$497,407	8,716EA	\$58,761
	PDA	\$1,063,994	4,102EA	\$321,128
Summary		\$2,082,205	23,838EA	\$521,553

Merged Query							
Product line	Product type	Planned Revenue	Revenue	Order Qty	Gross Profit	Variance	% of Plan
Consumer Electronics	Computer Accessories	\$269,628	\$301,130	7,650EA	\$64,297	\$31,502	112%
	Computers	\$874,976	\$219,674	3,370EA	\$77,368	(\$655,303)	25%
	MP3	\$749,716	\$497,407	8,716EA	\$58,761	(\$252,309)	66%
	PDA	\$860,605	\$1,063,994	4,102EA	\$321,128	\$203,388	124%
Summary		\$2,754,926	\$2,082,205	23,838EA	\$521,553	(\$672,721)	76%



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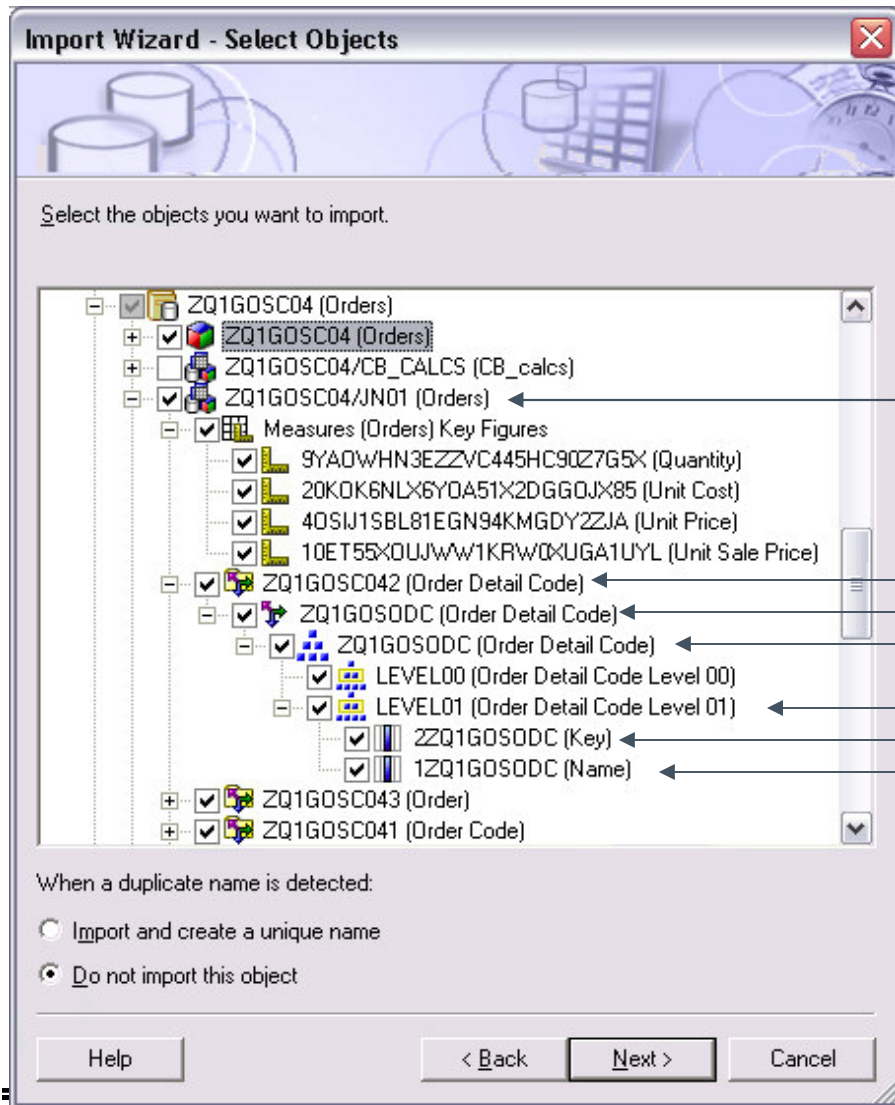


Interoperabilità tra IBM Cognos e SAP BW

- SAP BW si occupa delle modalità di modellazione e di aggregazione dei dati: infocube, infoquery, infoprovider
- Il Framework Manager importa i metadati di BW, e di altre sorgenti dati, e li pubblica sulla IBM Cognos Connection, per renderli fruibili alle varie funzionalità:
 - Reporting, Query, Planning, Metric / Scorecard, Event, Go! Office, Go! Search, Go! Mobile, Go! Dashboard
- Obiettivo: **1 Query per N Cognos Reports.**



Metadata Modeling Framework Manager: Importazione dei metadati



SAP BW naming convention

SAP BW Query

Dimension

Characteristic

Hierarchy

Level

Attribute

Attribute



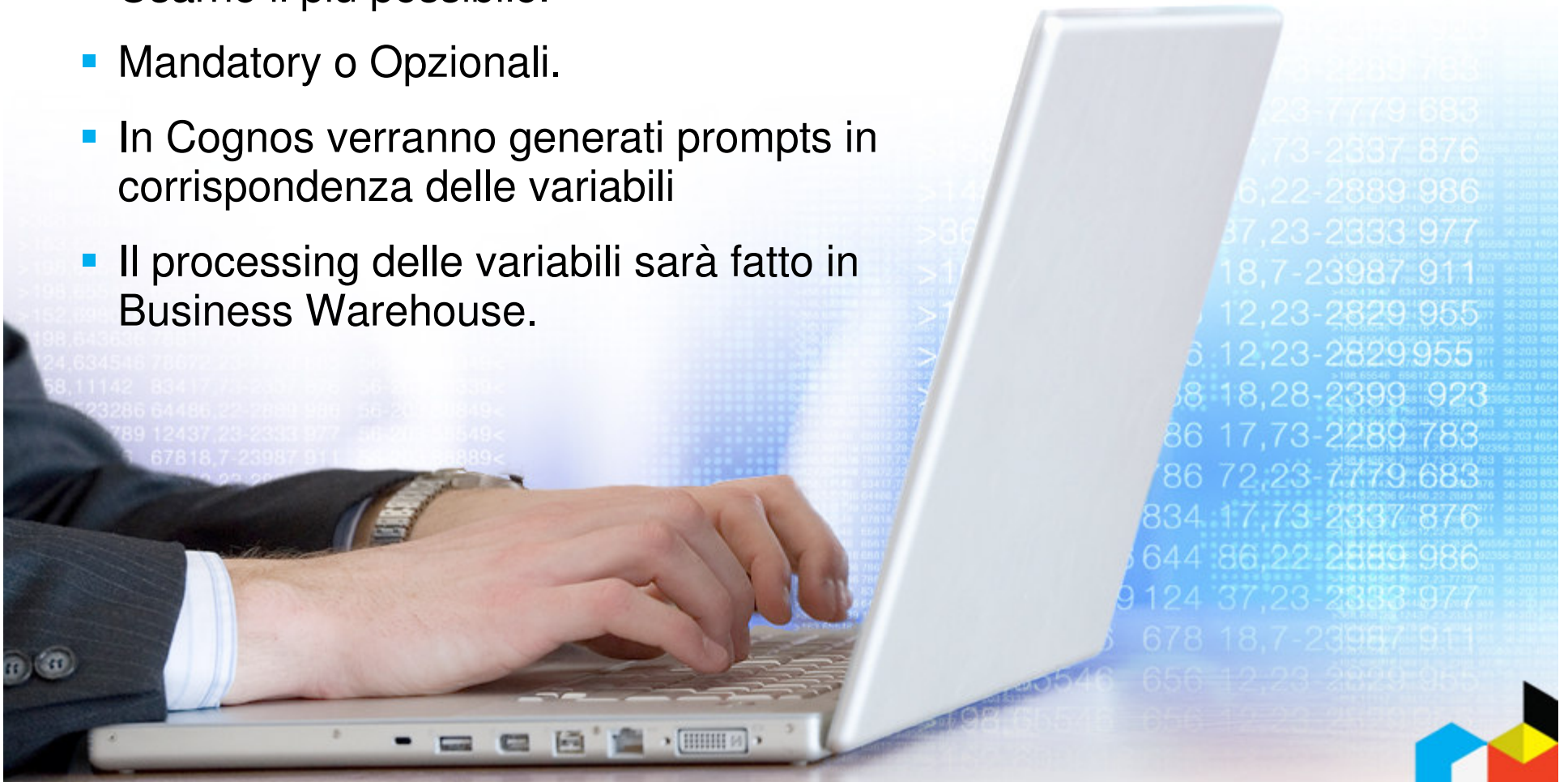
Leveraging Business Warehouse InfoQuery

- Variabili
- Strutture



Business Warehouse InfoQuery - Variabili

- Usarne il più possibile.
- Mandatory o Opzionali.
- In Cognos verranno generati prompts in corrispondenza delle variabili
- Il processing delle variabili sarà fatto in Business Warehouse.



Business Warehouse InfoQuery - Struttura

- Sono delle strutture di report create in BW
- I membri sono generalmente nella cache di Business Warehouse.



IBM Cognos 8 Report Studio

- OLAP Style Report Design
- Prompting
- MDX vs SQL Filters
- If/Then/Else Logic



IBM Cognos 8 Report Studio *OLAP Style Report Design*

- Navigazione gerarchica
- Ampia disponibilità di funzioni MDX
 - aggregate, except, descendants, filter, etc.
- “Filter Early, Filter Often”



IBM Cognos 8 Report Studio *Prompting*

- Si possono cambiare le impostazioni di default dei prompt agendo sui:
 - UseValue and DisplayValue
- Possibilità di nascondere le variabili opzionali
- Possibilità di simulare le gerarchie sulle variabili



IBM Cognos 8 Report Studio MDX vs SQL Filters

- Filter()
filter(children(<parent>),
(KF1 is not null and KF1 <> 0) or
(KF2 is not null and KF2 <> 0) or
(KF3 is not null and KF3 <> 0) or
(KF4 is not null and KF4 <> 0)
)
- [Product].[Product].[Line]->?parameter?
- Detail Filters
 - Can invoke local processing.
 - <attribute> in ('string1', 'string2')



IBM Cognos 8 Report Studio *If/Then/Else Logic*

- Si può scegliere di processarli localmente su Cognos anzichè su SAP BW
- Meglio usarli solo quando veramente necessario



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