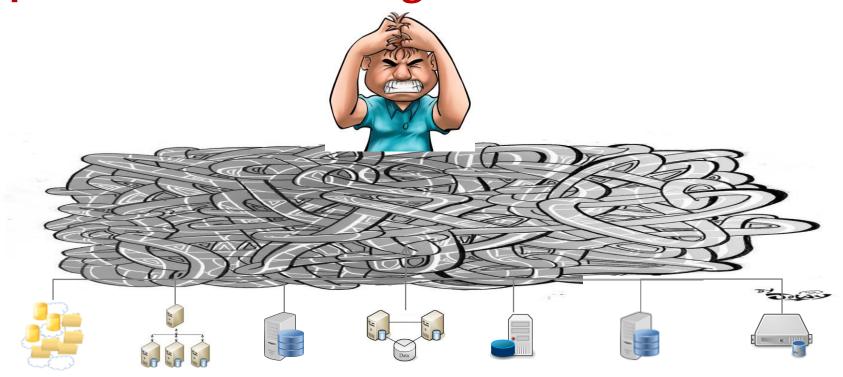
#### **Data Virtualization Overview**

Dirk Garner

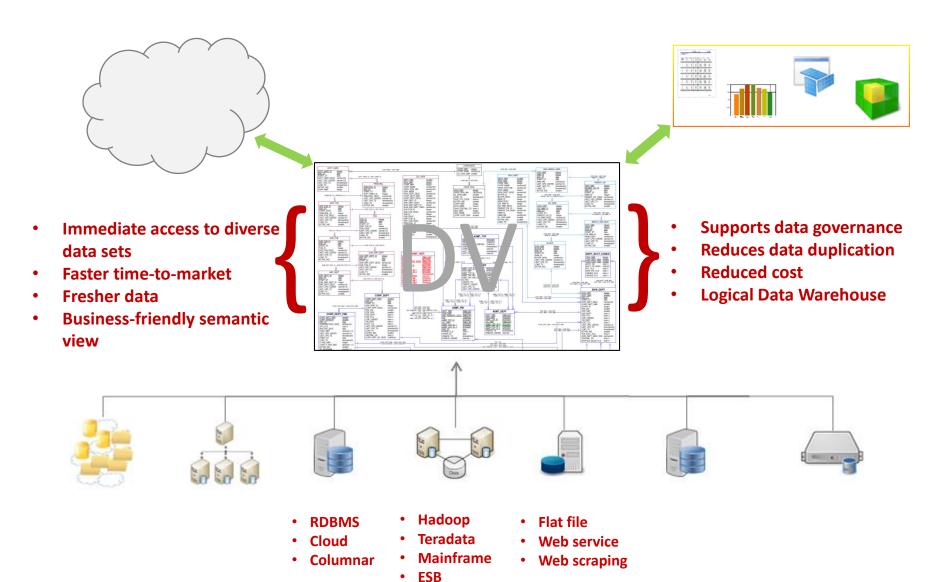
#### **Typical State – 'Dis'-Integration**



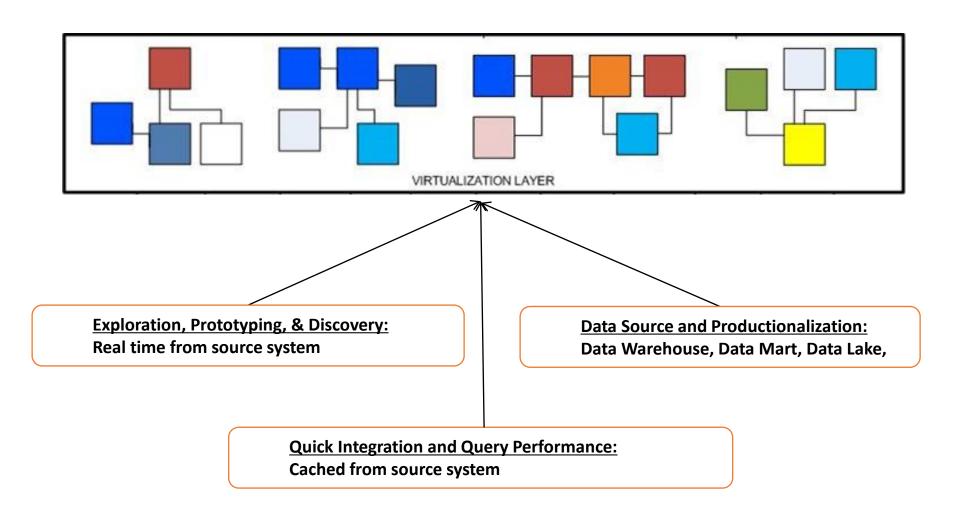
#### Partially Integrated Data:

- Data Warehouse/Datamart may or may not have necessary data
- Inaccessible data can derail, postpone or cancel analytical efforts
- Encourages siloed work-around tactics, shadow IT
- Leads to ungoverned use of data: inaccuracies, incompleteness, etc.

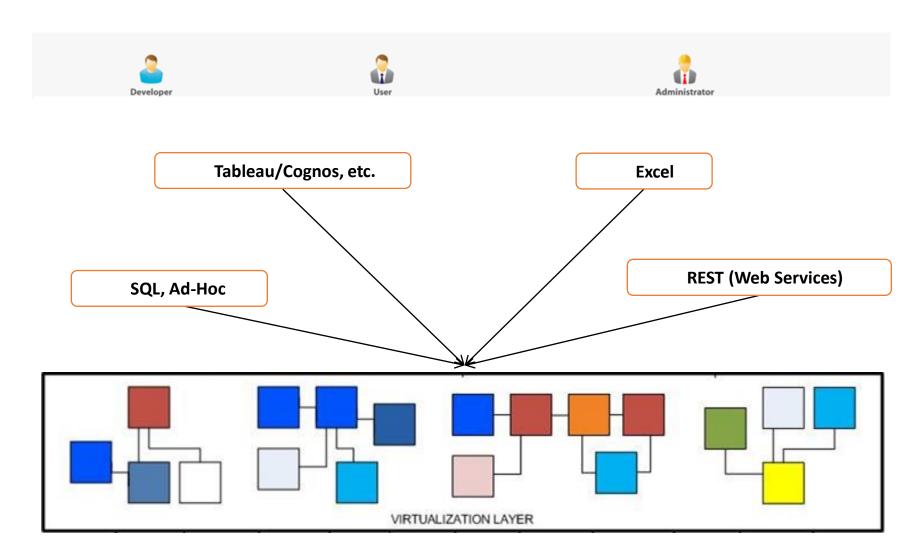
#### **Ideal State: Data Virtualization**



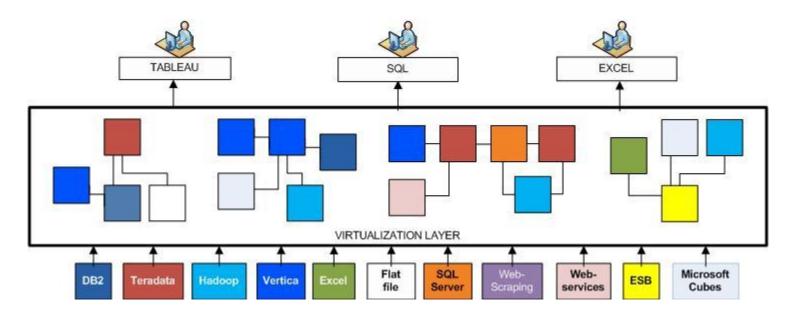
#### **DV: Usage & Data Sourcing Strategies**



## **DV: Consumption Strategies**



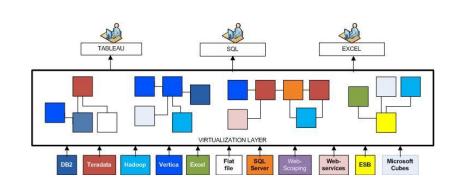
#### **Consumer Perspective: Simplicity**



- <u>Acceleration</u> immediate access to integrated (on-the-fly) data across physically and logically diverse data sources
- Analyst Self Service flexible user defined data models
- Hide Complexity from application developers and business users
- <u>Decouple</u> consuming applications and data sources
- Make It Easy to create, extend and use data services
- Single Point of access across diverse databases

#### Comparison





Without I	Data	Virtualization

# •A typical analytical prototype may undergo 2-3 months or more of data sourcing, permission requesting and ETLing to get to the point at which analysis could begin.

- •A data Integration point is required such as Excel, Access, Hadoop, etc. and is bound to performance limitations of those platforms.
- Managed through Interface appropriate to the integration point.
- Data is as fresh or stale as the last ETL
- •New/additional data elements require re-work to ETLs or new ETLs.

#### With Data Virtualization

- •Typical analysis can begin after data integration efforts as brief as 2-3 days.
- •Single integration point is the DV platform leveraging performance aspects of each source system and the DV.
- •Options to manage/view your data: the simple and easy to navigate DV GUI, Tableau, Excel, or your favorite query or visualization tool.
- •Data is as fresh as your last query
- •New/additional data elements require a few mouse clicks and moments to complete.

### **Questions? Comments?**

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