Flexible Solutions for Insight and Data Driven Innovation

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About Capish
Capish is a company developing software solutions for the management, exploration and visualization of data. By mapping data to a structured conceptual framework, Capish® Solutions can effectively harmonize, integrate, store and deliver analysis-ready data.

Conclusion
The ability to interpret and understand all available information requires a unified view of all data in a solution that enables comprehensive visualizations and analysis. A solution that supports Clinical Data Scientists’ efforts to gain deeper insights and understanding, coupled with an opportunity to share work collaboratively, needs to include integration of dissimilar data organized on a modern information model supporting unlimited explorations. By utilizing the possibility to combine different knowledge domains the data will provide more value to scientific findings and enable further investigative work without requiring programming or an understanding of the underlying data structure. Once data is integrated it is always immediately available for new explorations in concert with other knowledge domains.

Integrating data from different domains
When data from disparate sources and domains can be integrated and related in a uniform format, the value of the data increases. As an example, clinical data could be combined with healthcare, management, financial, metrological or any other data of interest.

Ontology and information model
One way of conforming data into a uniform format is to structure the data according to an information model that consists of small information units related to each other. Using an ontology, a well-defined terminology together with the information model, makes the data even more usable.

When used effectively, the integration of dissimilar data enables the user to get more out of all the information available even without prior knowledge of how data is related.

Making sense of data
Accessing the integrated data in a meaningful way requires an interactive solution that has the possibilities to:
- access pooled and aggregated data
- search both structured and free text
- respond to queries quickly
- create cohorts
- drill down to individuals
- visualize
- explore

Reusing data to reveal insight
Reusing data for numerous use cases not initially intended will be cost effective. The data will be prepared once and is subsequently always integrated and accessible for those who have permission to access the data. New or updated data can easily be added.

Collaboration
By integrating external data with clinical data new user groups are included in opportunities to evaluate new hypotheses and explore new correlations. In order to encourage collaboration between different departments in an organization, it is an advantage if:
- the same information can be accessed by many users
- the users can be situated anywhere
- individuals have the possibility to explore their own theories
- the results are easy to share

Knowledge
Creating knowledge from data, by using an information model and a flexible solution that preserves the data as information, will build bridges between medicine and research in various areas.

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