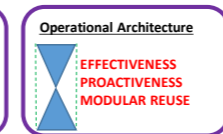
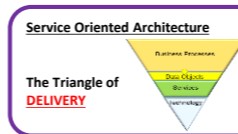
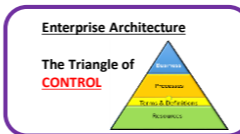


# THE MULTI DIMENSIONAL DATA MANAGEMENT FRAMEWORK V4.0

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## MULTI DIMENSIONAL DATA MANAGEMENT FRAMEWORK v4.0



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Information Value Chain (IVC) from YHWH

**THE SIMPLE DEFINITION OF DATA**  
**"MEANING encapsulated in a STRUCTURE stored or transferred via a MEDIUM"**  
 (People & Technology are BOTH Mediums through which Data flows)

**DATA MANAGEMENT DISCIPLINE ACCOUNTABILITY TO DATA STEWARDSHIP COMMITTEES**  
 All Data Management Disciplines themselves are subject to challenges relating to Data at various stages of relativity to a given point in time "Now". Each Data Stewardship Committee must ensure that the Data Disciplines servicing their Committee, properly address their needs for Data at various points in time. In the dimension blocks below, dimensions of "Data Quality" have been used. The requirements of any Data Management Discipline can be addressed here.

Multi Dimensional Thinkers is an Open Forum established to expand on the insights of this Data Management Framework

Scope of Business Data to be managed based on time and for a purpose

Traditional Data Management

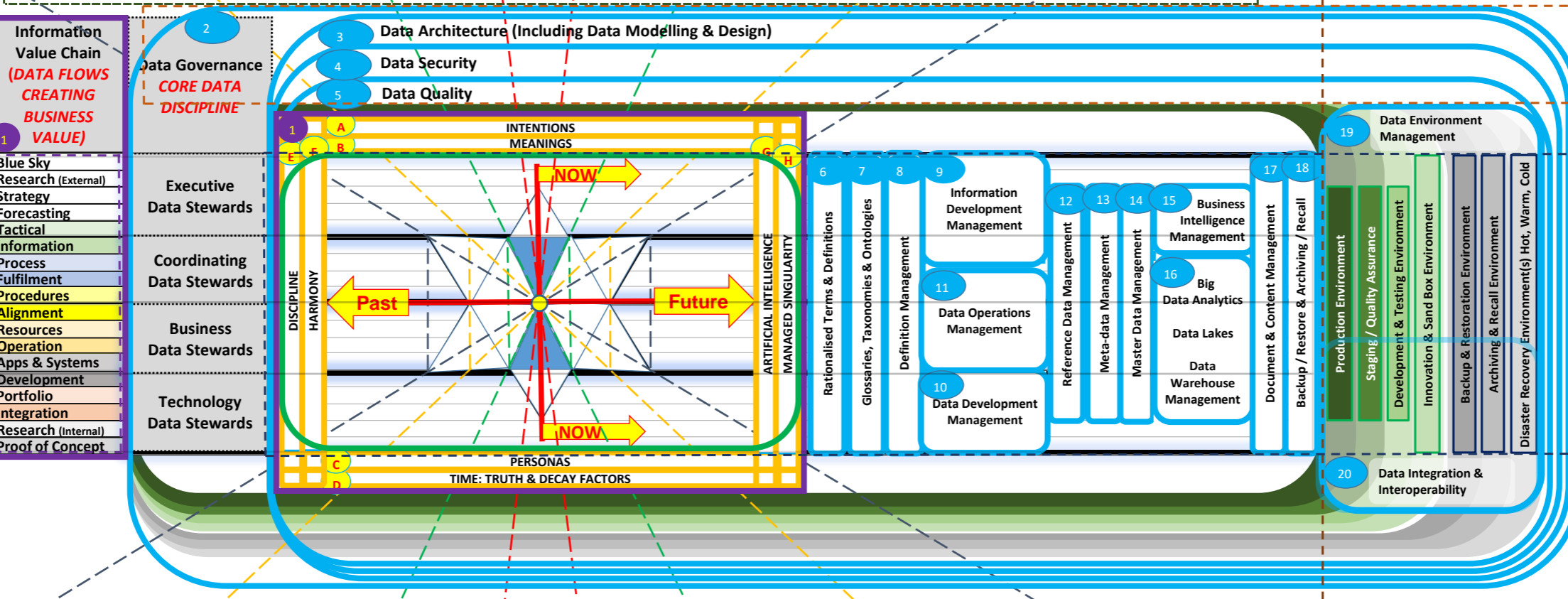
Evolving Data Management Considerations

## Numbers ## indicate order of dependency: Higher numbers depend on lower numbered Data Discipline Maturity to Retain added Value

Long-Term Historical	Medium-Term Analysis and Intelligence	Required for Reuse	Critical to Act	Required to be Prepared	Medium-term Planning / Preparation	Long-Term Planning / Preparation	Time related considerations and opportunities
Data & System Archival	Data Retention & Recovery	Required Data Integrity	Critical Data Quality	Required Data Quality	Leading-Edge Data Quality	Bleeding-Edge Data Quality	"Quality" or your own preferred view of entity in focus (The yellow dot)

**DATA GOVERNANCE**  
 ensures that all the Central Data Disciplines are considered across all environments.  
**OPERATIONS (BUSINESS & I.T.)**  
 ensures that Servicing of Data within and across environments meets the requirements of the enterprise.

**THE RELATIONSHIP BETWEEN BUSINESS MATURITY AND GOOD DECISION MAKING DATA**  
 Businesses manage and control themselves top-down, however Data flows bottom-up through each of the segments of the Information Value Chain (IVC). If any segment of the IVC is immature at managing Data passing through it, that segment will introduce ambiguity and confusion, thereby distorting the Meaning of the Data into "garbage" for downstream business processes and systems to receive, consume and pass on the accumulated "garbage". Remove the "garbage" to cause good outcomes from good decisions.



**CENTRAL DATA DISCIPLINES**  
 These are the central Data Management Disciplines Ruling over all data. These are subject to Data Governance.

**BUSINESS AND I.T. DATA DISCIPLINES**  
 These are the Business and IT related Data Management Disciplines Ruling over different aspects of the Business and I.T. Data. These are subject first to Data Governance, and then to the Central Data Management Disciplines above.

Physical and logical Data Environments separated to ensure that all data is fit for purpose.

These Data Environments ensure Business Continuity.

Data Archived	Data Retained	Data Available	Data Current	Pre-sourced Data Available	Leading-Edge Data Availability	Bleeding-Edge Data Availability	"Availability" or your own preferred Framework view
Life Cycle Stage 3	Life Cycle Stage 2	Life Cycle Stage 1	Life Cycle Stage 0	Life Cycle Stage 0	Life Cycle Stage - 2	Life Cycle Stage - 3	The Life Cycle of your chosen entity in focus (The yellow dot)

**DATA STORAGE (TIERS 0, 1, 2, 3 & 4), TRANSMISSION BANDWIDTH, HARDWARE/NETWORK PERFORMANCE**  
 The Type of Storage and the Performance requirements of the Hardware, Software & Networks within each environment is a decision made requiring Data Governance signoff.  
**CLOUD**  
 The term "Cloud" simply means "Not at your location". The data is stored at some physical location somewhere.

**DATA LOCATION**  
 Where the actual Data Storage is located. Governance concerns arise when data is located in other countries or crosses country/EU borders.  
**DATA PRIVACY**  
 Governance concerns arise with personal information across all environments and all Data Disciplines.

**ALIGNING WITH OTHER FRAMEWORKS**  
 All Frameworks which have a dimension of time, such as those related to Business Management, Information Technology Management, Service Management, Architecture Management, Design and Modelling Management, Security Management, Quality Management, Data Management, etc. can be mapped against the time dimension blocks of this framework. The terminology in the various stages shown above can be adjusted to incorporate the terminology from any chosen Framework's perspective.

**THE INTERNET OF THINGS**  
 Devices are designed to communicate via signal data transfer. The signal message structure and "language" of each device can use many different mechanisms to Transmit or Store Data, however, each signal must have a structure that makes the data received useful to the device. The concept of usefulness implies that there is a Meaning encapsulated in the signal received. A Meaning perhaps only a specific device can use. The entire Multi Dimensional Data Management Framework can be as equally applied to the world of people and business as it can to the world of Technological Devices.  
**ARTIFICIAL INTELLIGENCE**  
 Both human and artificial intelligence collect, process and derive meaning from data. If Artificial Intelligence is provided a means by which to harmonise with humans on a common Data Management Framework, there will be opportunity for both of them to work together in future.

This Multi Dimensional Data Management Framework is personally owned by William Richard Evans, +44 75 0055 7708, United Kingdom. In his personal capacity, as owner, he offers this poster for free to all who are interested in Data Management, anywhere in the world. - Feel free to share it.