

A DATA VAULT ANALOGY

DATA VAULT (1.0)

- HUBS, LINKS AND SATELLITES
- PITS & BRIDGES
- HIERARCHY, SAME-AS LINKS
- TRANSACTION LINKS
- HUB-SATELLITES, LINK-SATELLITES
- SEQUENCE NUMBERS
- LAST SEEN DATES, LOAD DATES
- DRIVING KEY & EFFECTIVITY SATELLITE
- RECORD & STATUS TRACKING SATELLITES
- MULTI-ACTIVE SATELLITES
- SPLIT SATELLITE BY SOURCE-SYSTEM

ALL DATA ALL THE TIME

MODELLING

ENSEMBLE MODELLING

- DATA VAULT, ANCHOR MODELLING, FOCAL POINT
- ENTERPRISE WIDE BUSINESS KEYS (EWBK)
- **CORE BUSINESS CONCEPTS (CBC)**
- COLOURS OF DATA VAULT
- **UNIFIED DECOMPOSITION**
- **DEPRECATED** LINK SATELLITES
- **DEPRECATED** MULTI-ACTIVE SATELLITES
- **NO** DEPENDENT-CHILD KEYS IN SATELLITES
- CONCATENATE KEYS / EXTRA_KEY
- **BREAK OUT** REFERENCE DATA
- **KEYED-INSTANCE** HUB
- TYPICAL KEY NAME: H_<NAME>_SID
- TRANSACTION LINK
- **CONCEPT CONSTELLATION**
- "BAG OF KEYS", "WEAK HUBS"
- **ATTRIBUTE SWARMING**
- **CONCEPT ATTRIBUTE LEVEL**
- NAME-VALUE PAIR (NVP) SATELLITE
- ALLOWS CODES TO FORM NEW CBC

TRAINING THROUGH **GENESEE ACADEMY**

DATA VAULT 2.0

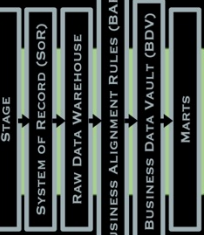
-PASSIVE INTEGRATION

- RELY ON **BUSINESS ARCHITECTURE**
- CMMI LEVEL 5, AGILE TEAMS
- PUSH TECH DEBT TO THE SOURCE
- SATELLITES & LINKS WITH **DEP-CHILD KEYS**
- **PARALLEL TEAMS**, COMMON STANDARD
- APPLIED DATE, XTS **TIMELINE CORRECTION**
- HASH KEYS, **DEPRECATED** SEQUENCE KEYS
- **INSERT ONLY, DEPRECATED** END-DATES
- BUSINESS VAULT IS **SPARSELY** MODELLED
- GHOST RECORDS & ZERO KEYS; SET THEORY
- MULTI-TENANT MODELS
- BUSINESS KEY **COLLISION CODE**
- STUB HUB, NON-DESCRIBING LINK
- NON-HISTORISED LINK & SATELLITE
- NO CONCATENATING KEYS
- TYPICAL KEY NAME: DV_HASHKEY_HUB_<NAME>
- PREVENTS LINK FALSE AUDITS
- **DEPRECATED** LAST SEEN DATES

TRAINING THROUGH **DATA VAULT ALLIANCE**

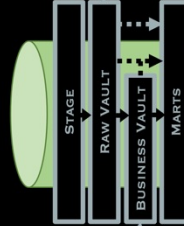
Key Integration
(Hub Alignment)

Common
Business
Rules



Core
Business
Concepts

Passive
Integration



Sparsely
Populated

"Data Vault reaches a tipping point – Data Vault modelling techniques are going to reach a tipping point in 2020 where a plurality of projects that involve building or refactoring the "hub" layer of a 3-tier data warehouse architecture will employ this modelling technique". - Eckerson Group

Definition of a data warehouse: "a subject-oriented, integrated (by business key), time-variant and non-volatile collection of data in support of management's decision-making process, and in support of auditability as a system-of-record"

- Bill Inmon, Father of the Data Warehouse