

Introducing **ELM** & the emerging focus on the Agile Business Model

Presented by:

Hans Hultgren

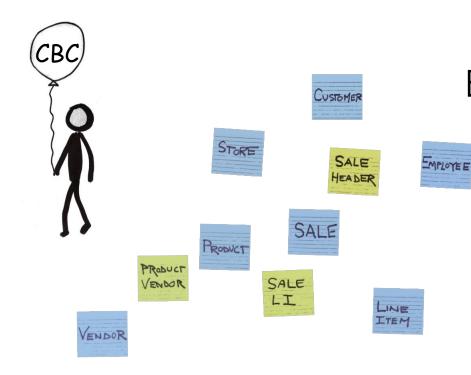




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# Ensemble Logical Modeling





ELM workshops are interactive, facilitated, business-driven design sessions for Business-Driven Models

"You can't hit a target if you don't know what it is."

— Tony Robbins



"If you aim at nothing you will hit it every time."

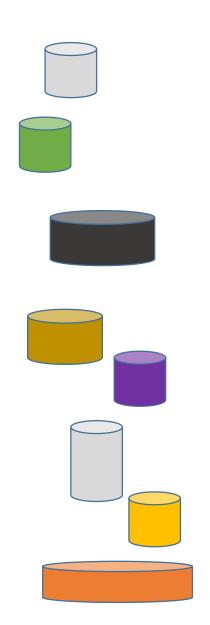
Zig Ziglar

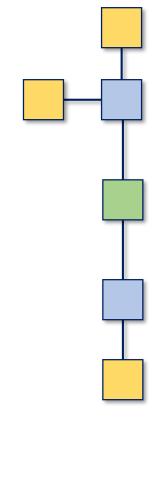


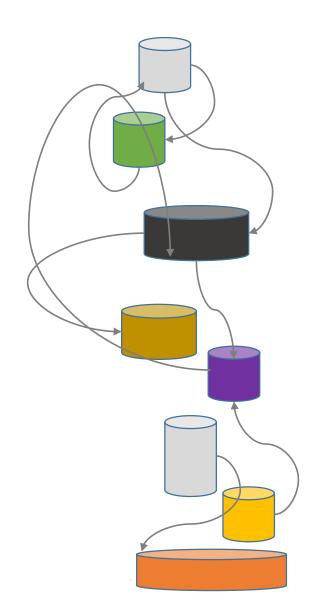
— Aristotle

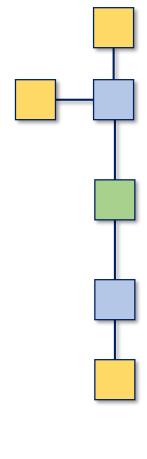


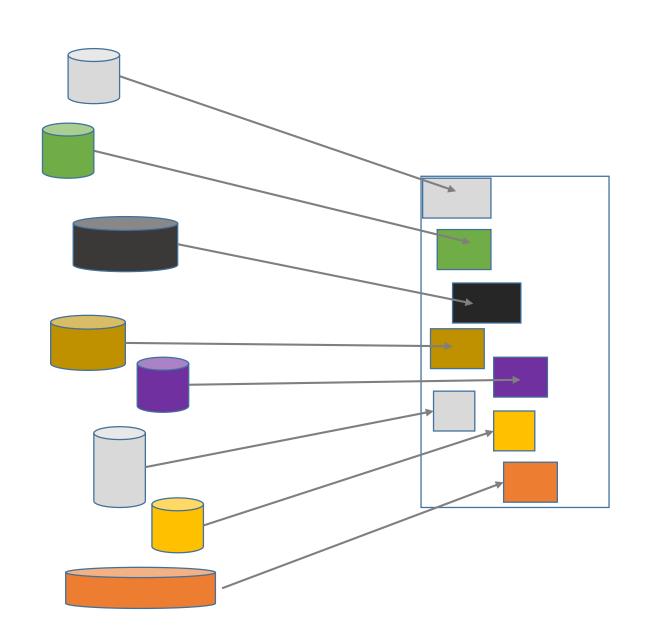
"Without a goal, you can't score"

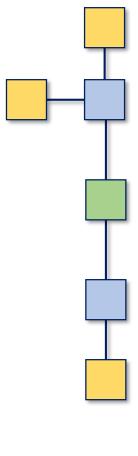


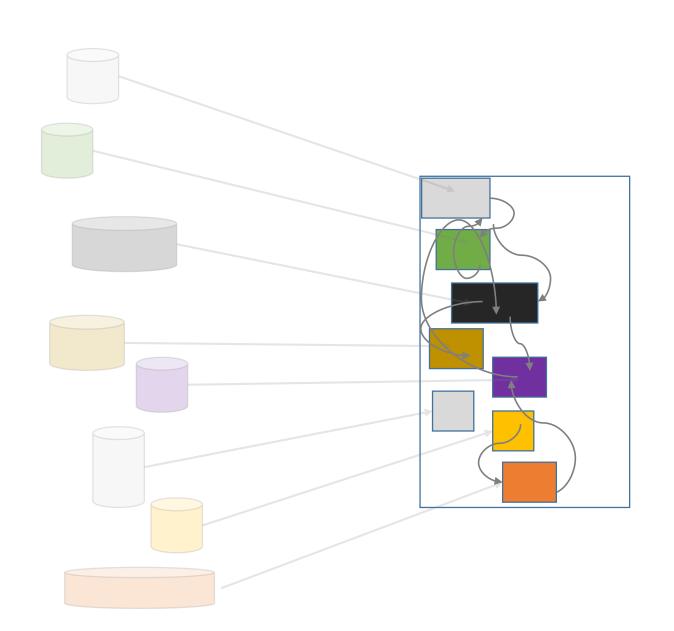


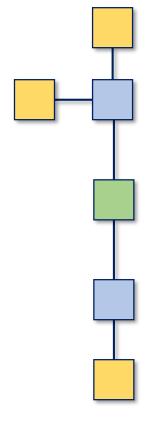


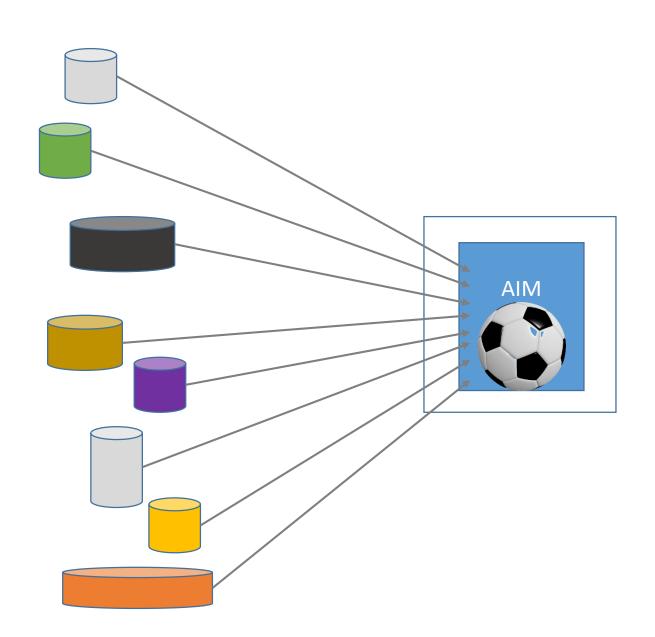


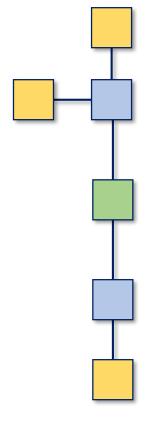


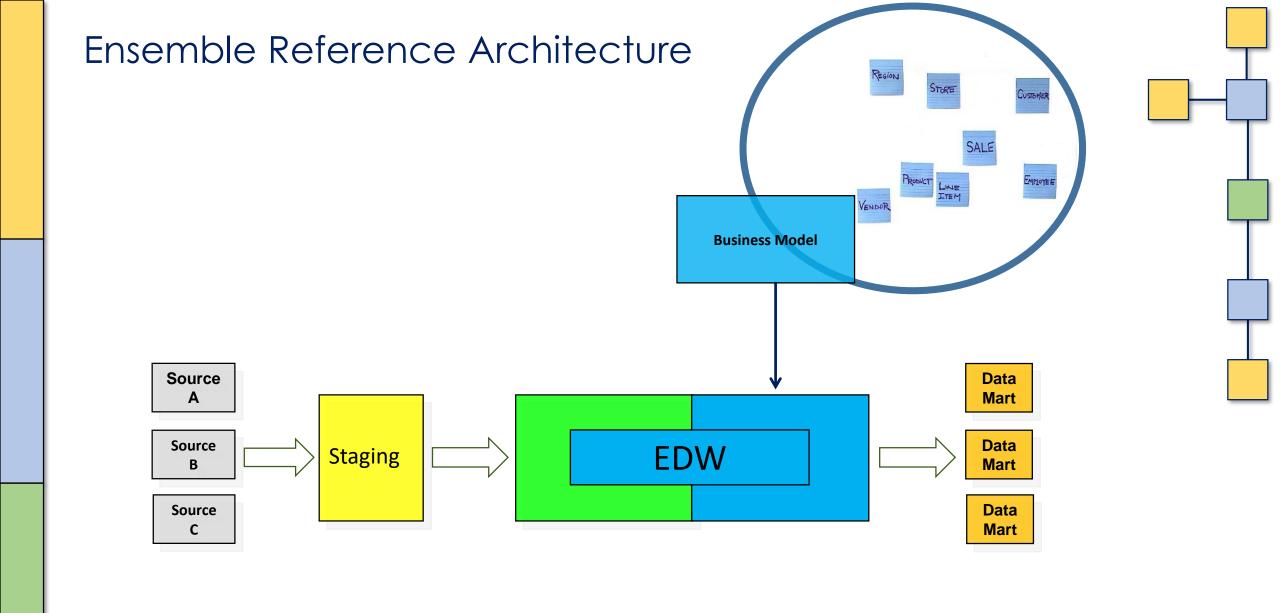












## Presenting Two Topics:

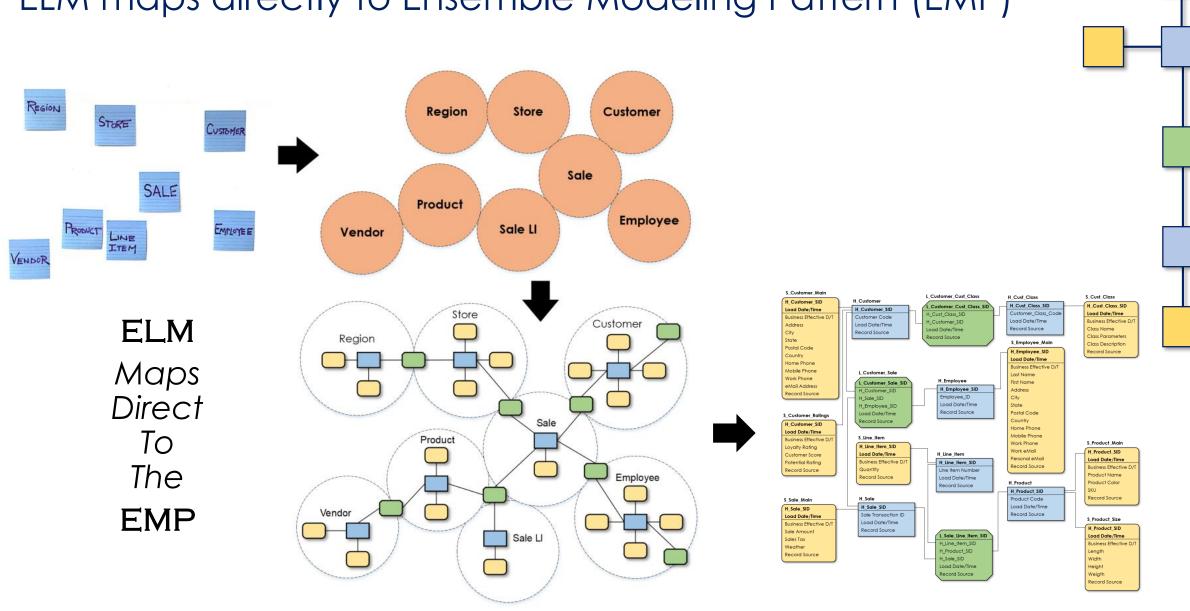
Ensemble Logical Modeling



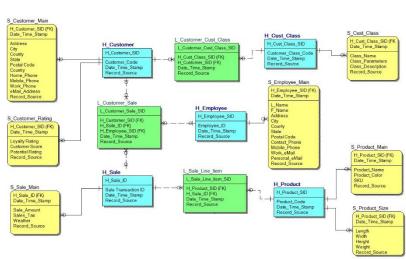
ELM Workshop



## ELM maps directly to Ensemble Modeling Pattern (EMP)













### **ELM Workshop**

• The ELM workshop is an interactive, facilitated, business-driven design session. It depends on the active participation of all attending business representatives.





During the workshop, participants work together on identifying the Core Business Concepts (CBCs) of the organization and the Natural Business Relationships (NBRs) that associate the concepts



## Running the ELM Workshop



**Analyze** 



Contemplate

#### **Discuss**





**Present** 































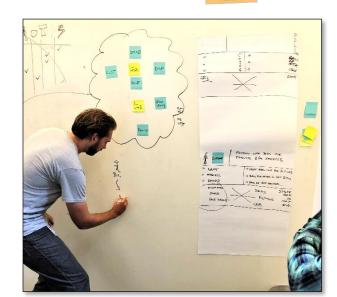


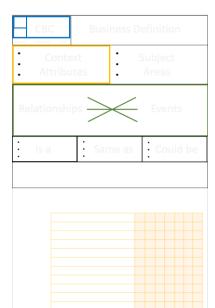


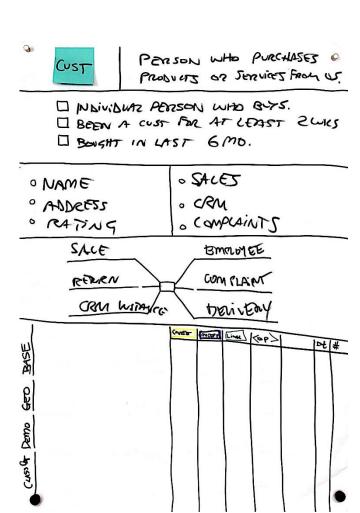










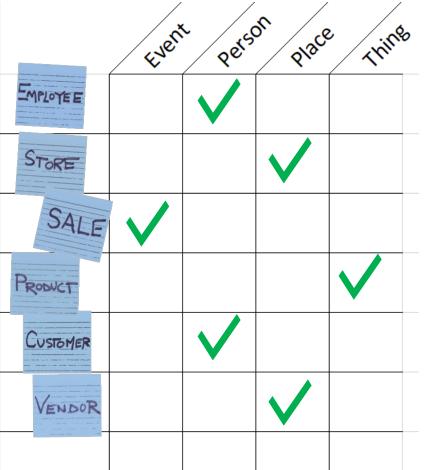


ELM BWS PERSON THING EVENT WHERE PLACE OTHER WHY CONCEPT RECATIONSHIP WHEN 2/OR CONTEXT HOW



## Ensemble Modeling Process: Step 1 CBC





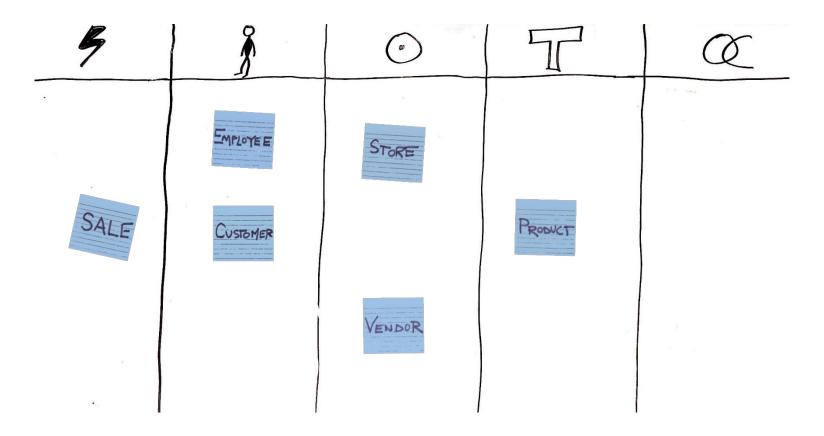
 What are the Core Business Concepts (CBC) in the story?

VENDOR

 Write all recognized identifiers on PostIts – most likely to be the nouns & verbs

Organize into Event, Person, Place, Thing

#### **CBC** Canvas

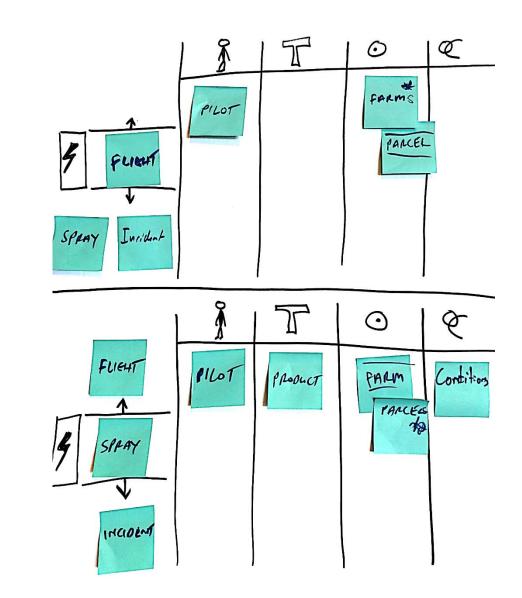


- Begin to consider CBCs that might be the same
  - Semantic integration
  - Level of CBC
- Discuss any missing CBCs in each category related to this event

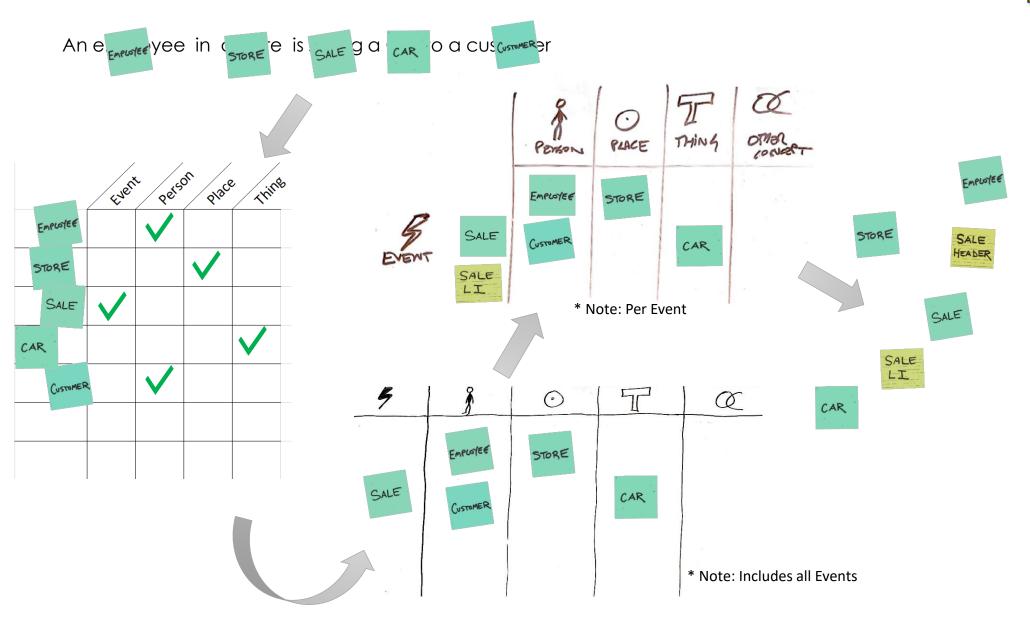
#### **UoW Event Matrix**

#### For each Event:

- Align with all other CBCs that are involved
- Organize by Person, Place, Thing, OC
- Consider CBC that might be the same
  - Semantic integration
  - Level of CBC
- Discuss any missing CBCs in each category related to this event



## From 8W's to UoW Event Matrix to ELM



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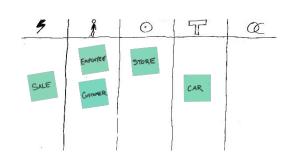
### Roles & tools/artifacts for Workshop



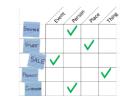
Racilitator



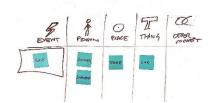




CBC List & Category Grid

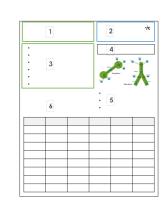


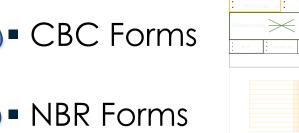
CBC Canvas [same / missing]





UoW Event Matrix





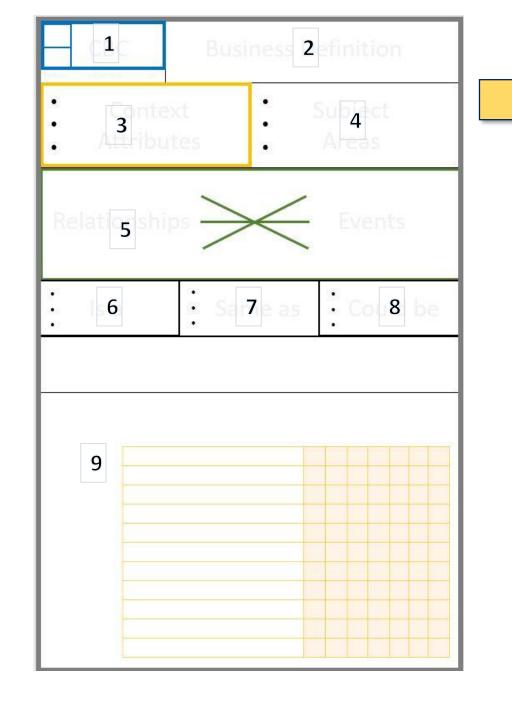


**Attributes** 

D	escribe	Classify	Locate	Measure	Date /Time	Status /State	Reference	Identify

#### **CBC Form**

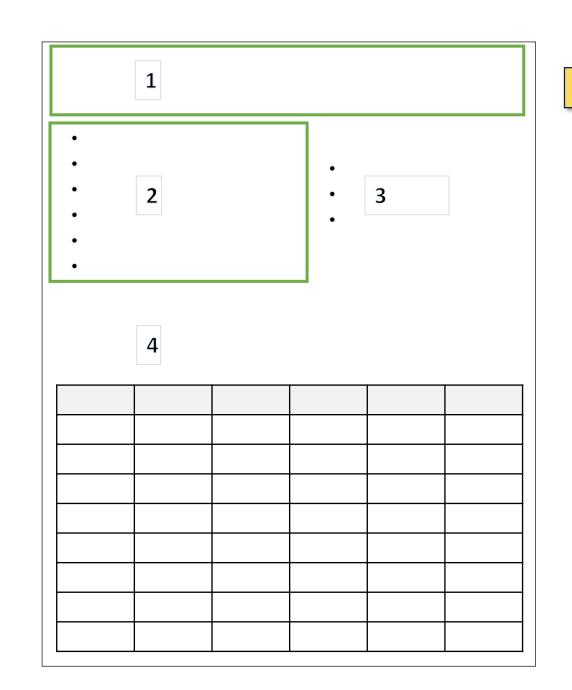
- 1. CBC name of the business identifier
- 2. Business definition
- 3. Important context attributes
- 4. Foundational descriptions, business rules or constraints
- 5. Related CBCs (Persons, Events, Things, Places, OC...)
- 6. Sub classifications, lower (more specific) levels of CBC
- 7. Alternative names/synonyms; CBCs with same meaning
- 8. Higher level concepts; groupings ("is a" relationship)
- 9. Context attribution; descriptive attributes



#### **NBR Form**

- 1. NBR name of the relation
- 2. Involved Identifiers (CBC's)
- 3. Other simultaneous relations
- 4. Sample of relations
  - 1. Enter sample records

Note: UoW analysis



#### **Attributes**

**Describe** Context that is describing the CBC (name, description, address, etc.)

**Classify**  $\uparrow$  Group (is part of)  $\leftrightarrow$  Same as (Similar) or  $\downarrow$  Type (could be, subset, delineate)

**Locate** Geographic or other Location reference

**Measure** Metrics, additive or summarized value, numbers, percentages, scores, derived or captured

**Date/Time** Any and all date/time references

**Status/State** Status and State change tracking

**Reference** A code relating to a reference table or other disconnected concept (currency, postal, ...)

**Identify** Any and all identifiers, keys, key references, partial identifiers, etc.

Describe	Classify	Locate	Measure	Date /Time	Status /State	Reference	Identify

## Speaking the Business Language: Other Modeling Paradigms SALE **ELM Style** CAR Buys Customer Car Toyota Prius Hans Owns owns

**Directed Graph Style** 

**Concept Mapping Style** 

## About Data Vault Ensemble

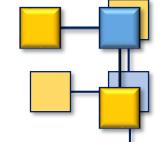


Currently over **1350** + Data Vault CDVDM Certified Professionals



## Links and Information





Data Vault, Ensemble & ELM Training

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