

#### 28th Eurofiling Conference

Frankfurt, 13-14 June 2023 Hosted by the European Central Bank

### **Human and Data**

About what now the two most often used words, 'Data' and 'Digital', really mean, including used in ESG/ESRS, based on science and technology, and some of my very brief and limited understanding

Ben Hu (benhu@dama.org.cn)

– DAMA China (HK), 14/06/2023

# We have been collaborating with Eurofiling and XBRL International on XBRL and DPM since 2007



## 16<sup>th</sup> XBRL International Conference Track Name

Presentation Title: Opportunities and Challenges for XBRL Integration

Date: 12/5/2007

Speakers: Dr. Youfang Lin, DAMA China, Beijing Jiantong University

David vun Kannon, PwC, LLP

"More than 15 years ago, the Statistics Department of the IMF invited me to a seminar, which was opened by the Managing Director Horst Kohler, on Getting the Right Numbers and Getting the Numbers Right. That is still very much our concern today."

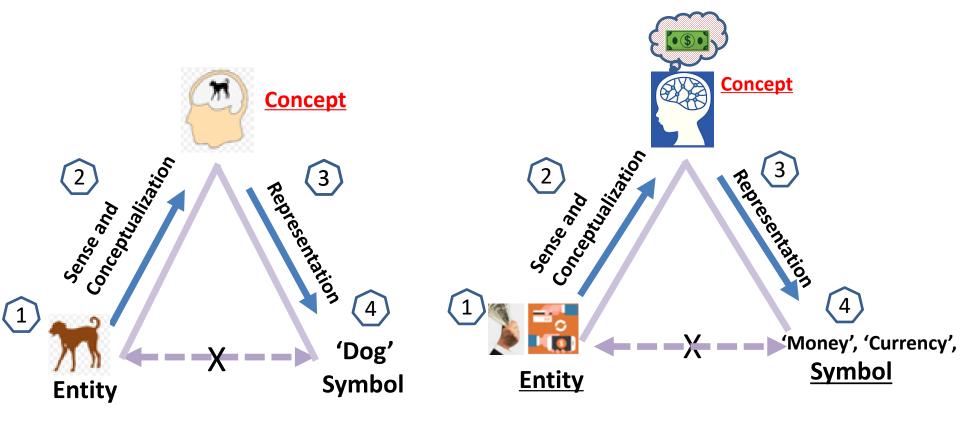
- 'Measuring the Digital Economy', IMF 5th Statistical Forum 2017, Vitor Gaspar

"One of the most basic needs and capabilities for any living form -- dealing and managing information/data around and within it
Any living organism cannot live without this capability.

- Prof Zhang, Zuo Ren, Founder and Pioneer of protozoan cytology and experimental protozoology in China

#### Why Human and Data

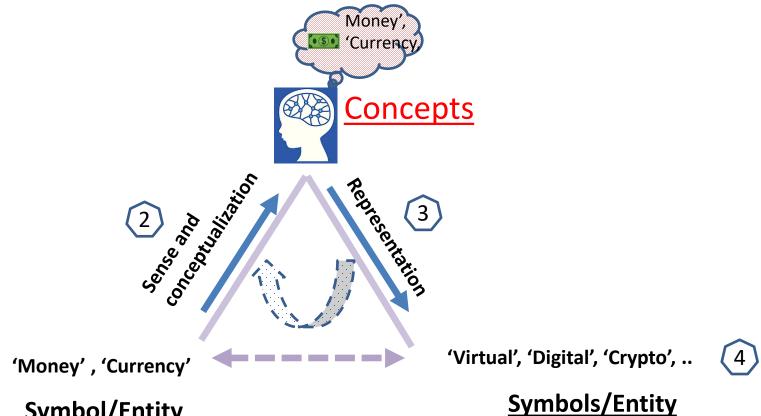
The Semantic Triangle Ogden and Richards, 1927



- 1. Entity mand Symbol 'Dog' can not be associated without Humans
- 2. Mind 'Dog' both are data, and physical, and what Humans can sense directly are non-digital
- 3. 2 and 3 are very complex processes

#### Why Human and Data

The Semantic Triangle Ogden and Richards, 1927

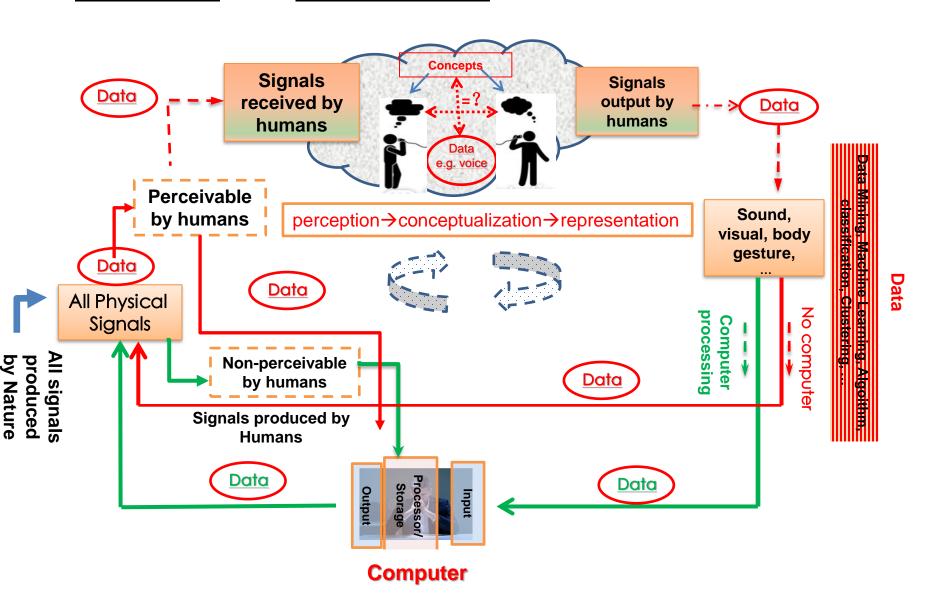


**Symbol/Entity** 

**Entity and Symbol both are physical** and real data, not virtual 'Virtual' only exists in mind

Ben Hu – DAMA China (HK), 14/06/2023

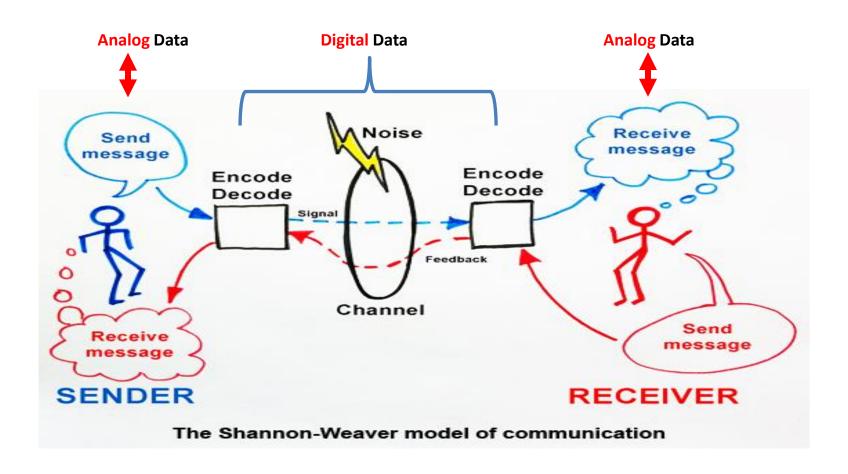
#### The complete and endless loop – human, data and machine



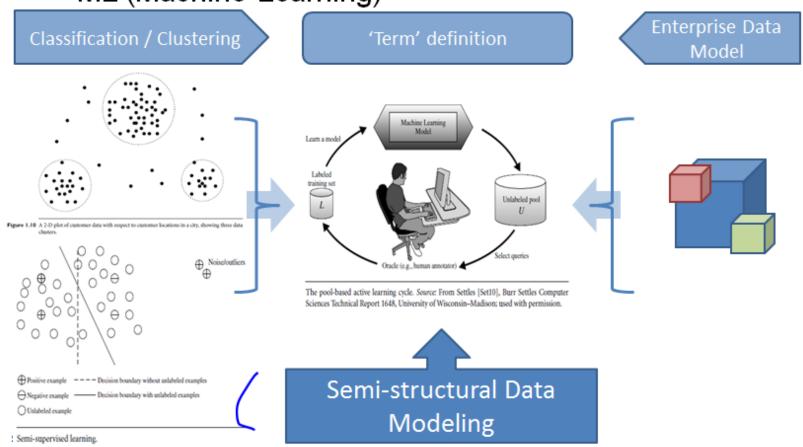
Ben Hu – DAMA China (HK), 14/06/2023, Copy Righted

<u>What Digitization</u> is - a <u>technique</u> and <u>interim</u> data processing for machine communication and computation

- <u>Natures and Humans are not Digital</u>



Connection between HL (Human Learning) and ML (Machine Learning)



## Thank You