Introduction to Big Data

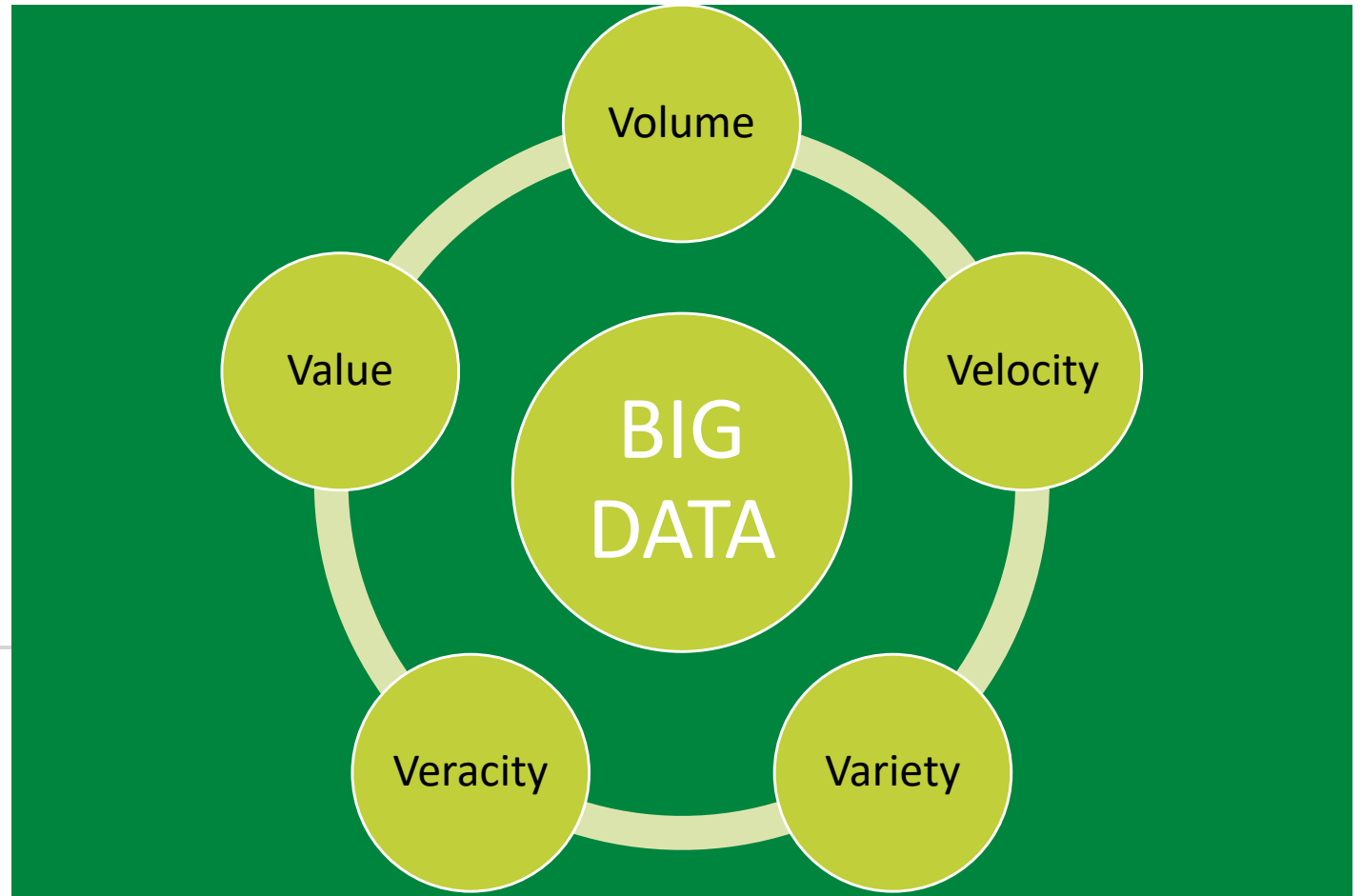## Harvesting, Storing, and Retrieving Data

Why are we here?

- What are the five Vs of Big Data?
  - How do they help define Big Data??
- What are structured and unstructured data?
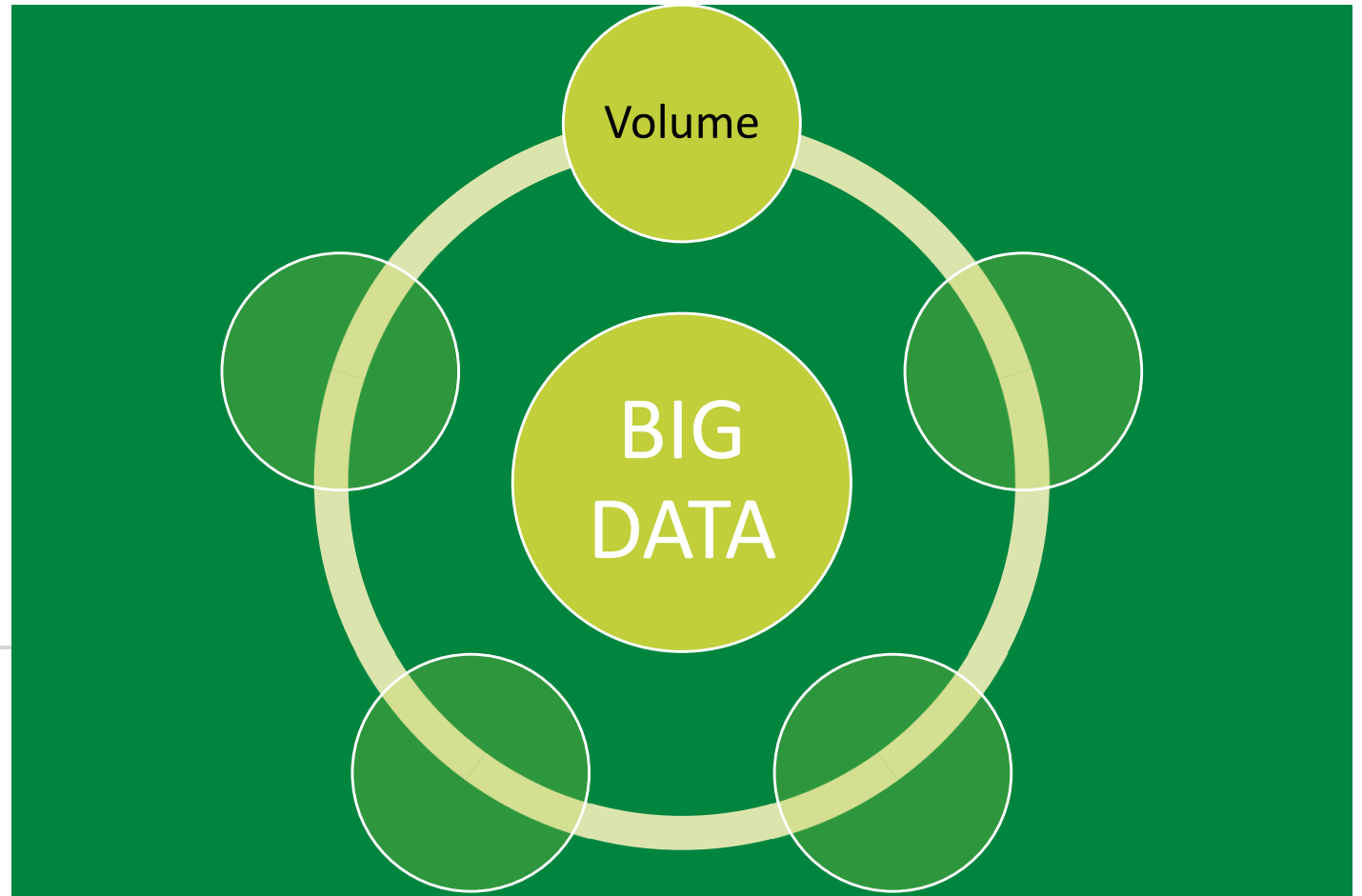 - How are they different?
  - Why do we care?

What is Big Data
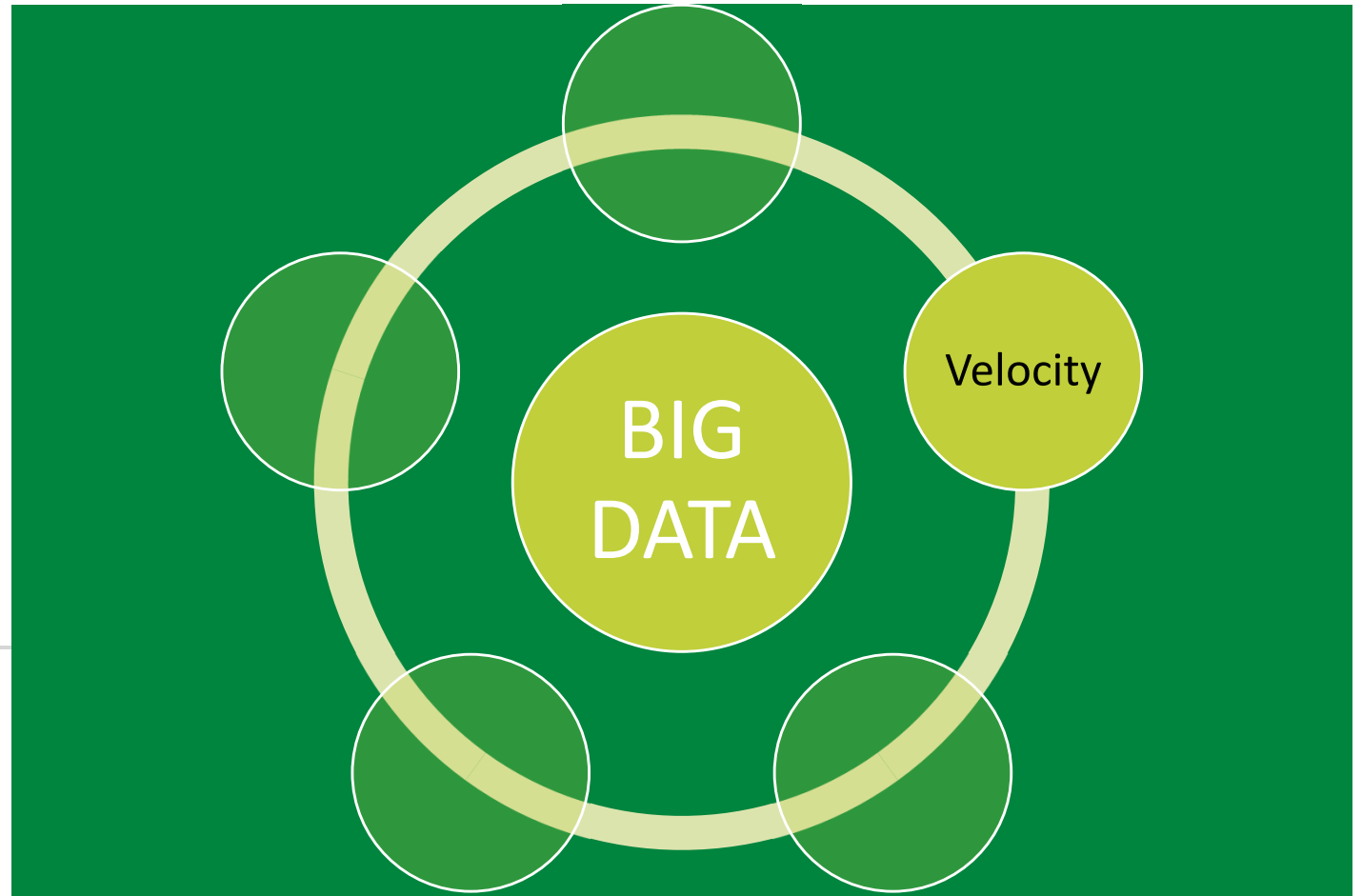
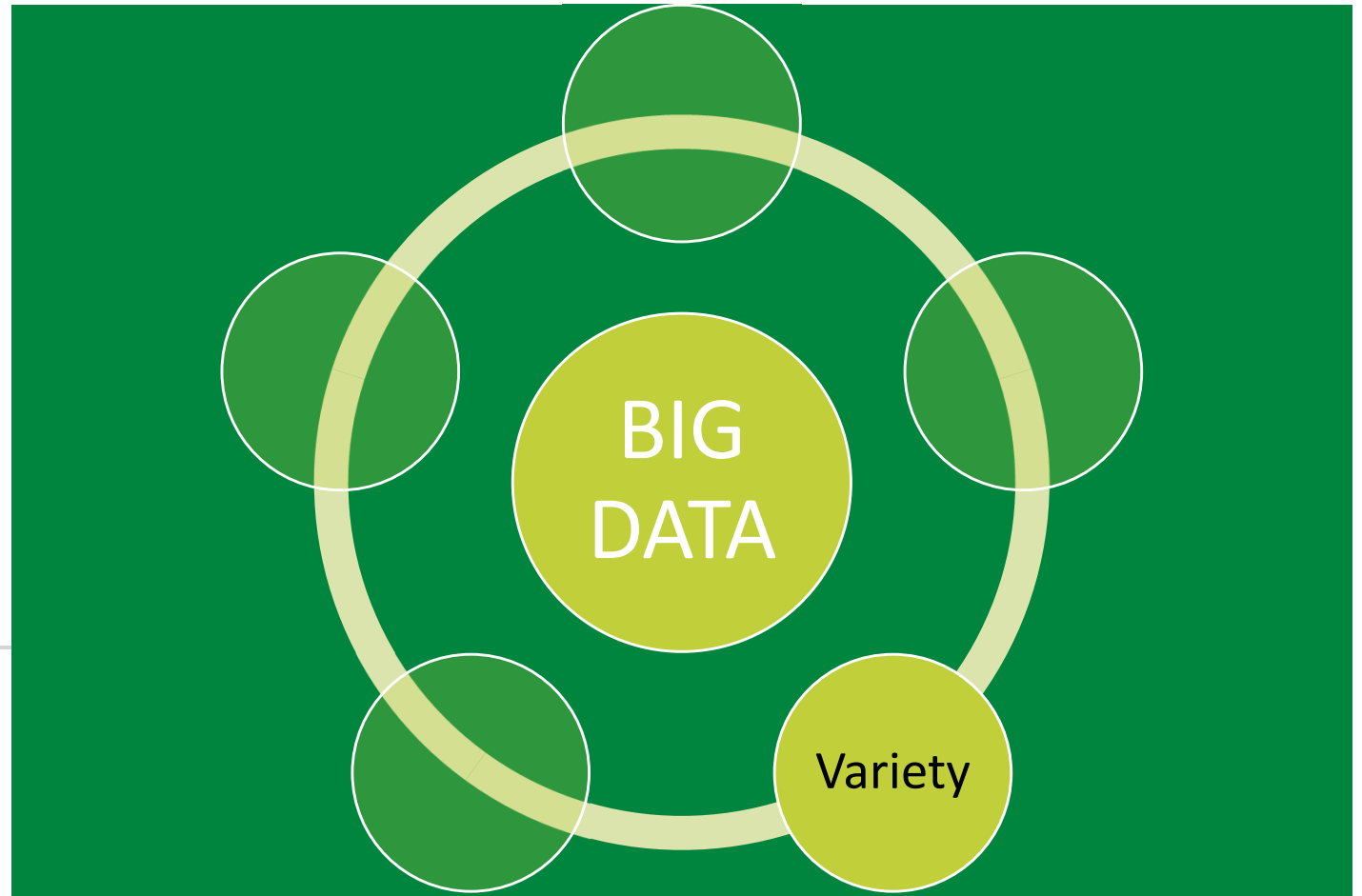# The 5 V's of Big Data

The 5 V's of Big Data

Volume

BIG DATA

The 5 V's of Big Data

Volume

terabyte (TB)   10*12
petabyte (PB) 10*15
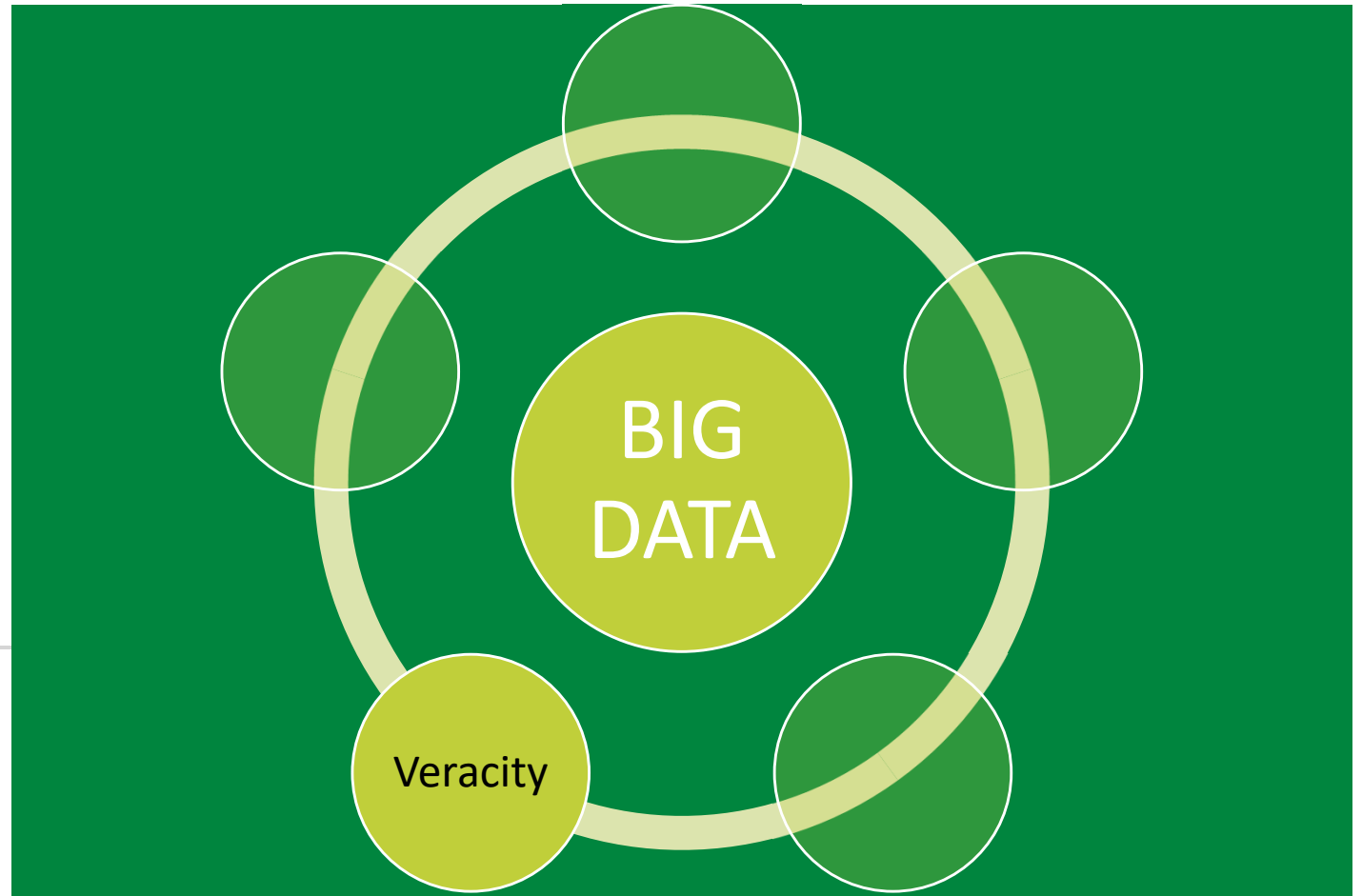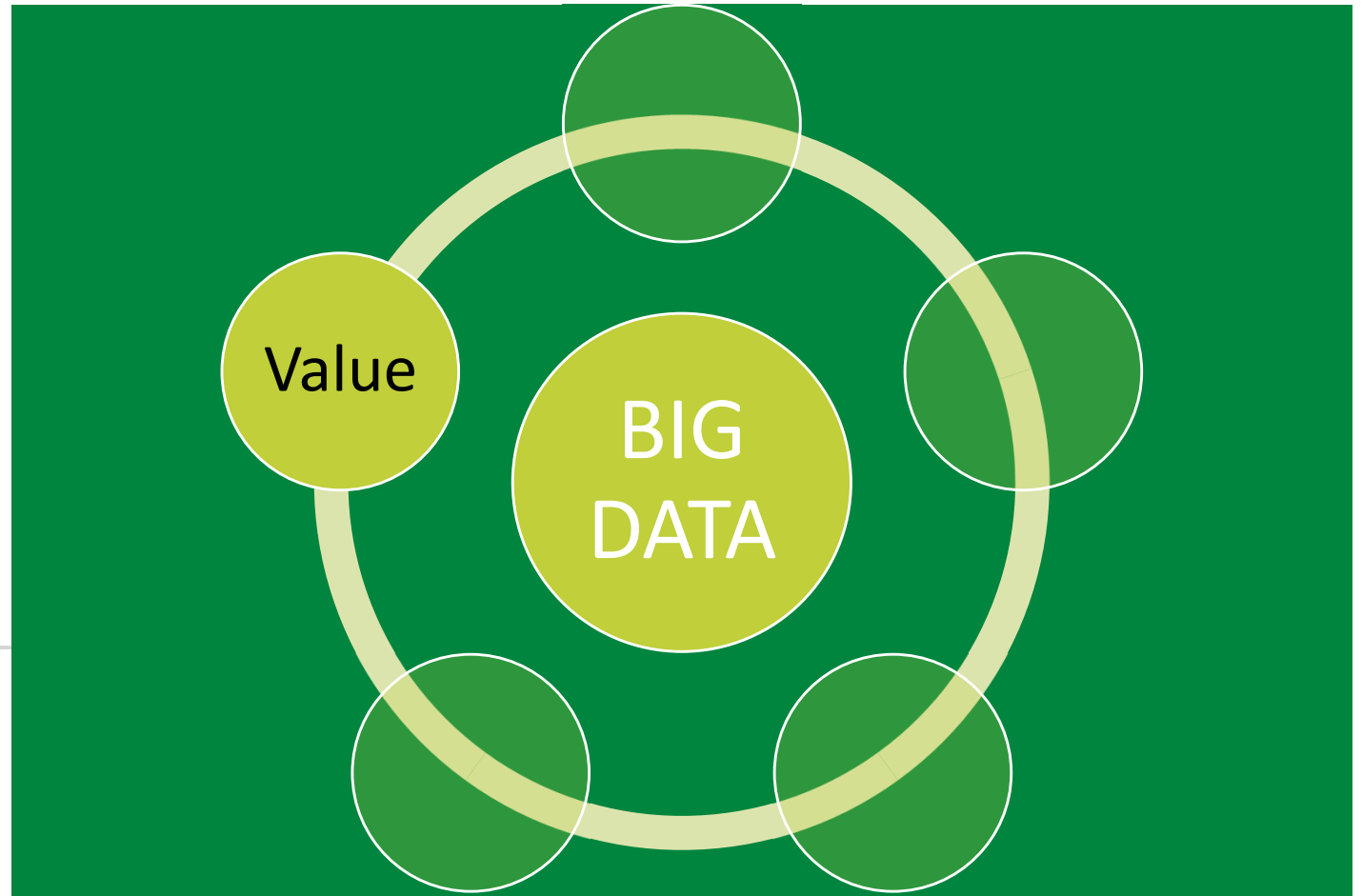exabyte (EB)   10*18
zettabyte (ZB) 10*21
yottabyte (YB) 10*24
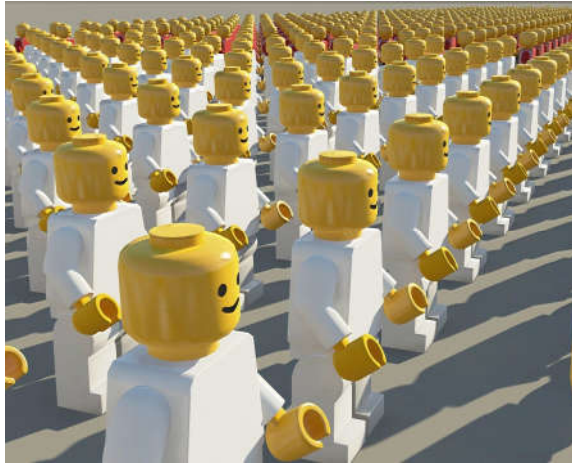
The 5 V's of Big Data
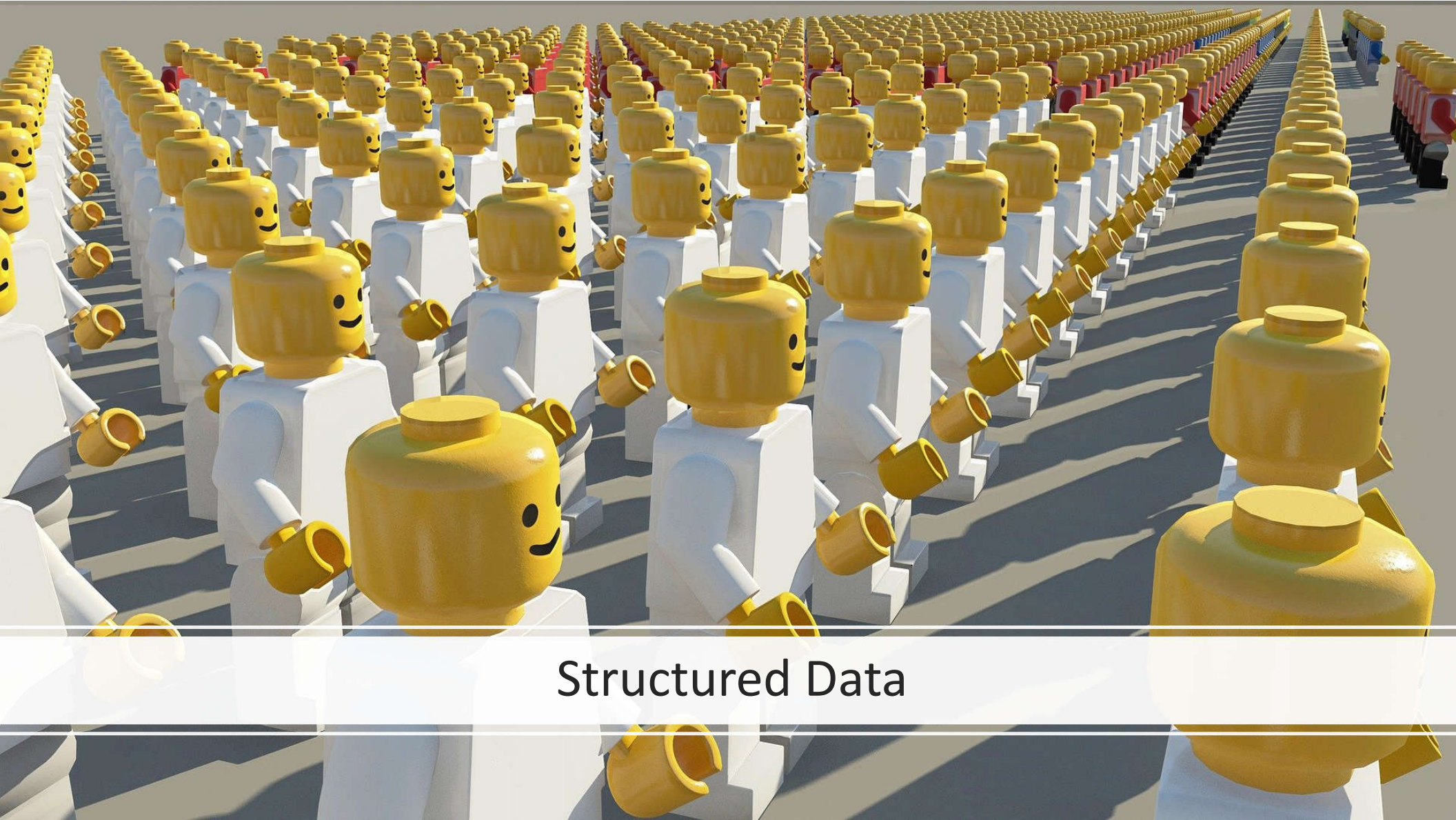
The 5 V's of Big Data

The 5 V's of Big Data

BIG DATA

Veracity

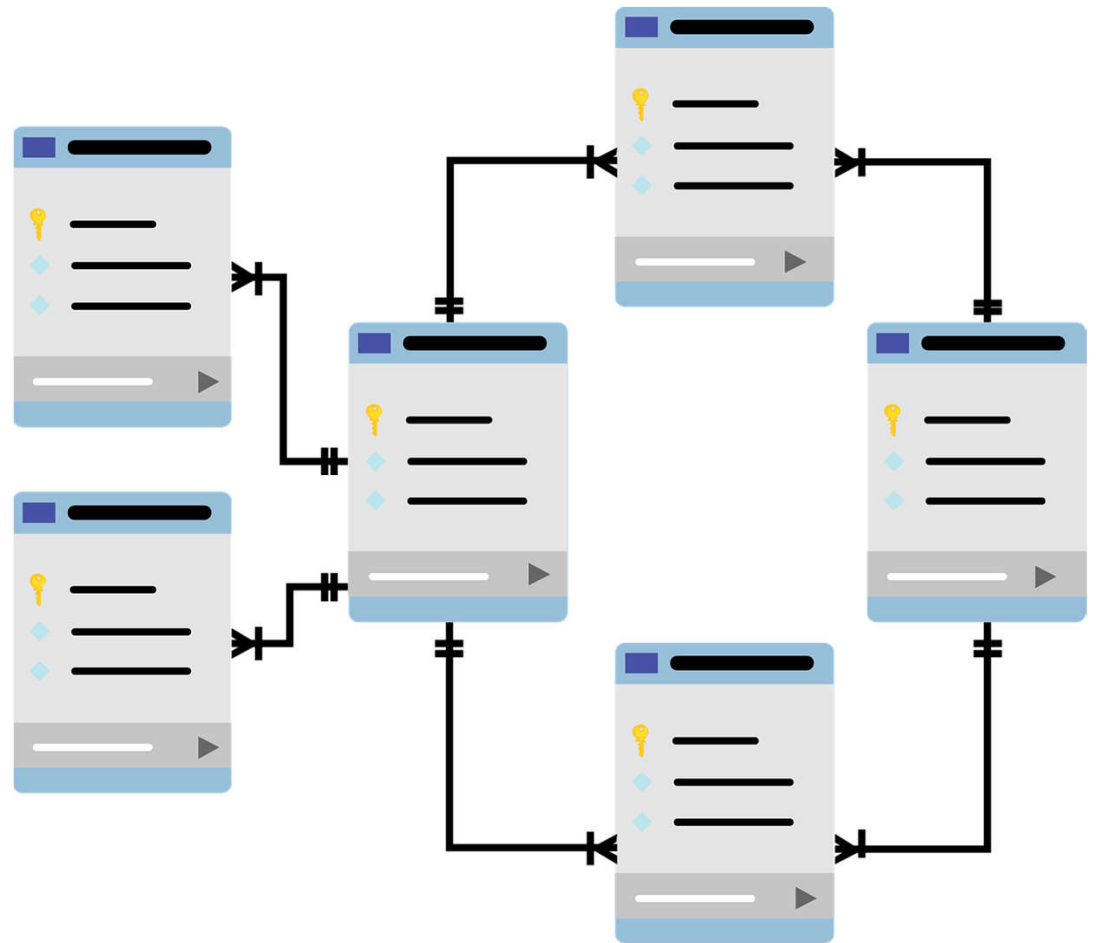# The 5 V's of Big Data

BIG DATA

Value

Types of Big Data:
Structured, Semi-structured, Unstructured Data

Structured Data

Structured Data: Relational Database

Semi-Structured Data

Semi-Structured Data: XML Document

HTML
<**note**>
<**to**> Tom</**to**>
<**from**> John</**from**>
<**heading**> Reminder</**heading**>
<**body**> lunch today?</**body**>
</**note**>

JSON
{"**name**": "John", "**age**": 30, "**car**": GM"}

Unstructured Data

Assignment