

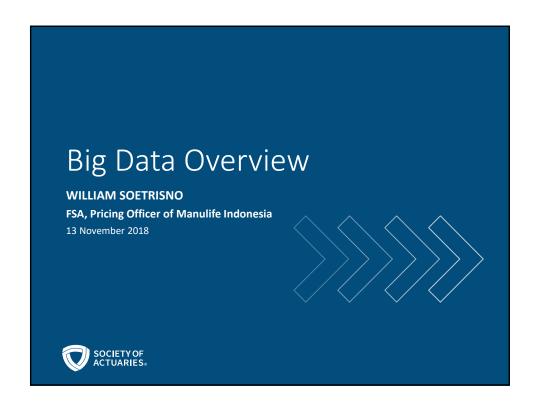
SOA Big Data Seminar

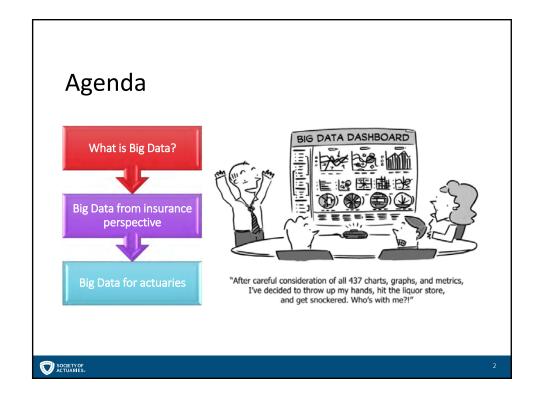
13 Nov. 2018 | Jakarta, Indonesia

Session 1

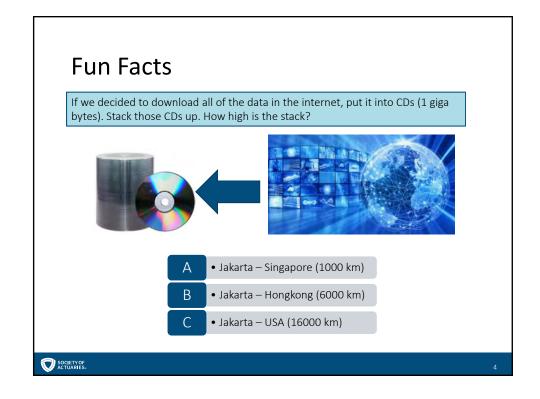
Big Data Overview – Basic knowledge and perspective from insurance industry

Paul Setio Kartono, FSAI, ASA, MAAA William Soetrisno, FSA









Answer

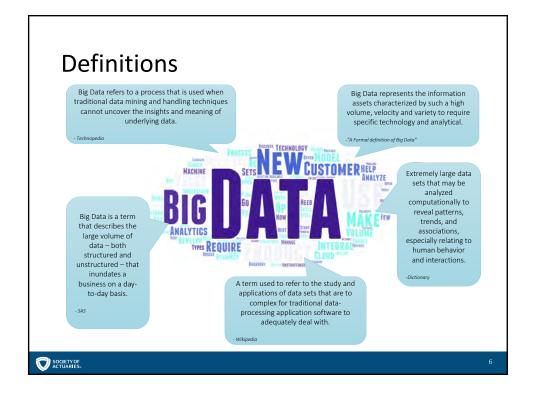
Internet size is now 14 zettabyte 14 zettabyte = 14,000,000,000,000 gigabyte

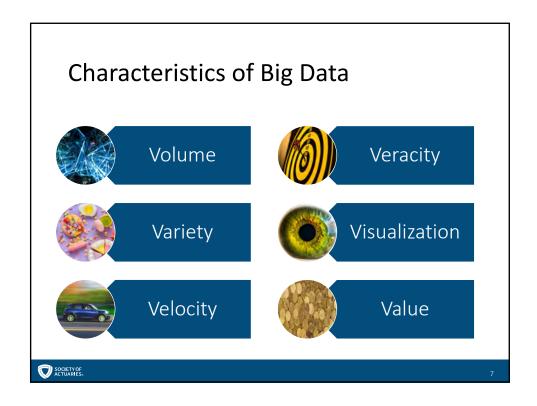
Dimension of CD = 1.2 millimeters (thickness)

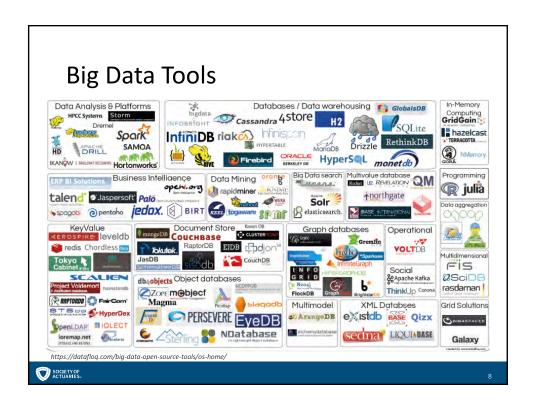
So, the height of the CD stack is 1.68 million KM

SOCIETYOF

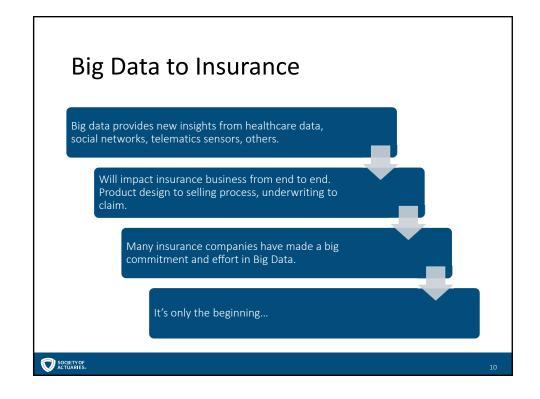
5











Insurance Underwriting

Example of innovative way to underwrite

Protect your family future in just a snap!



https://term.lgamerica.com/selfie-quote/#!/

Facial analytics platform to determine:

- Age
- Gender
- BMI

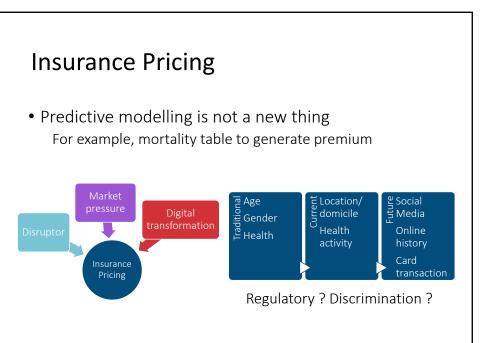
SOCIETY OF ACTUARIES.

1

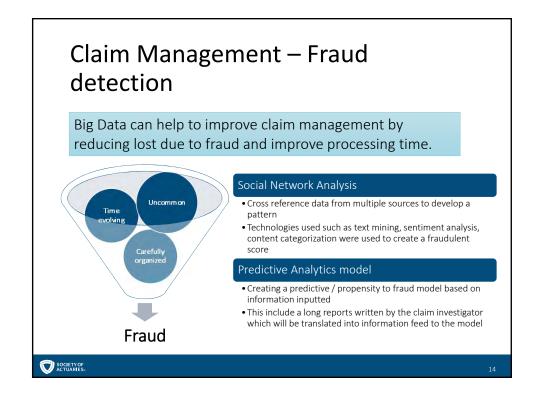
Insurance Underwriting

SOCIETY OF ACTUARIES.

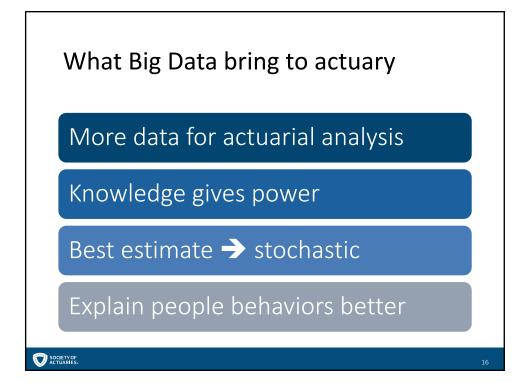
12

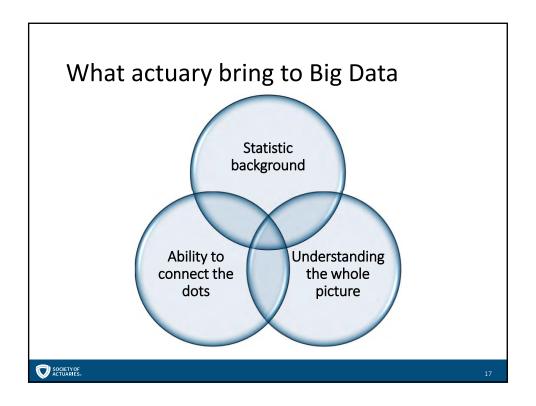


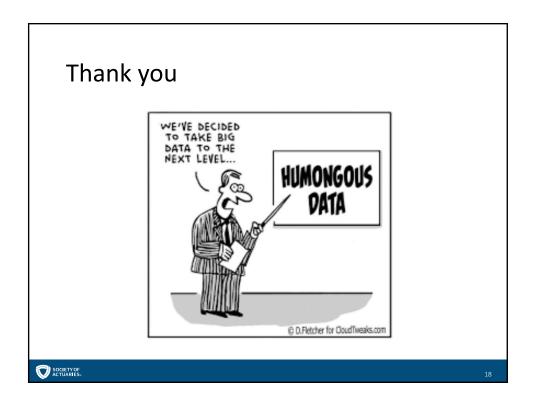
SOCIETY OF ACTUARIES



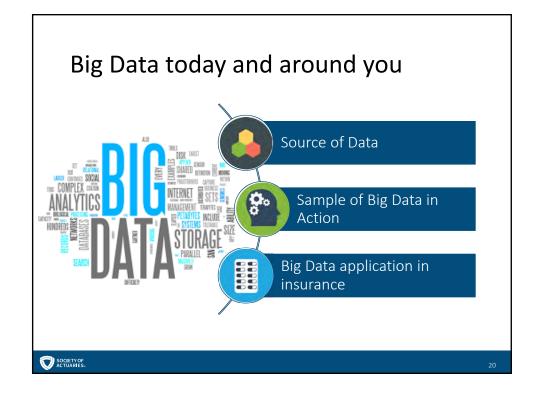












Source of Data

Internal

- Customer Demographic profile (age, gender, location, family tree, health condition)
- · Payment history
- · Contact history
- · Campaign response
- Claim (frequency, severity, type)
- Sales Activity (GPS, illustration, contact, training, behavior)
- · Policy changes history
- · Many more

External

- Customer Demographic profile enrichment with Social Media
- Business Partner data (e.g. financial information)
 - Weather data
 - Financial market data
- Vendor data (hospitals, workshops)
 - · Community Activity
 - Civil registration data
 - Many more



Big Data Sample 1



meet Andy

- Occupation: Marketing manager, JV
- Marital: married, no kids, wife work
- Area: BSD (home), Sudirman (work)

Policy history

- Group Medical policy from employer
- Has been with company 2
- Outpatient claim 10% limit
- Inpatient claim once, 1 year ago due to injury in motorcycle touring
- Read 60% of health article from email

Social Media

- Active in Soc Med (have account in Facebook, Twitter, Instagram, LinkedIn)
- Average 5,000 followers
- 5 posts per day
- Travelling abroad 2 times a vear (holidav)
- Follow sports and fitness activity hashtags

Results

Social Status:

- □ / Mid
- Mid Affluent
- Affluent
- HNW

Financial Literacy:

- □ / Illiterate
- **ॉ** Literate ■ Savvy
- Digital Literacy:
- Illiterate
- □ Literate ✓ Savvy

Health Condition:

- ☐ Poor
- □ Good

SOCIETY OF ACTUARIES.

