

FINANCE SERVICE

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BANKING

STOCK

INSURANCE



Banking

Contactless Payments

- Contactless payments with your credit card/phone
 - Faster
 - Fancy
 - Secured?



System Security

- Maximum amount per purchase
 - 30 £ in the UK
 - 20 € in France
 - 25 \$ in the USA

However, if your card gets stolen, the thief can make several purchases (up to 80€ in France)

For internet payments, we now have a mobile verification

What is NFC ?

- Link between reality and virtuality
→ put your phone next to the item you want to interact with
- Can be used for payments, computer connection, opening doors, etc.



Samsung pay



<https://www.youtube.com/watch?v=yIgz1IqeSo>

Samsung Pay



- Easy to use
- Can use it everywhere
- Security...



- ...limited nowadays ?
- Costly
- Phone battery

Lydia

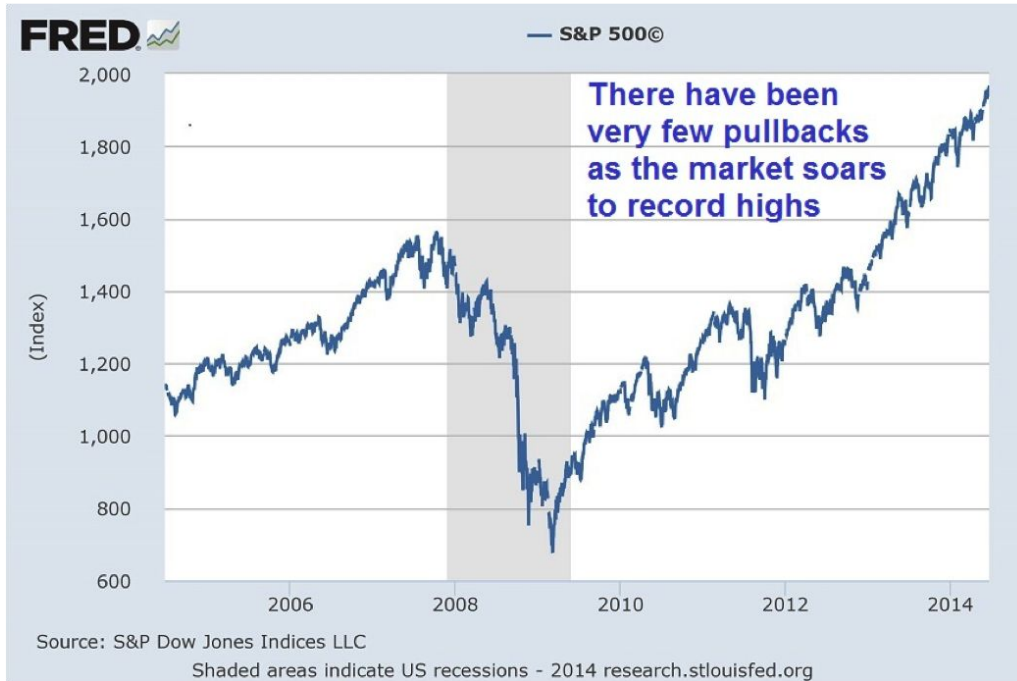
- Pay with your phone or reimburse your friends
 - Easy to use
 - Faster than bank transfer
 - Don't need the most recent phone





Stock

Problems



Financial Crisis

Solutions



“decrease cost”

“Race to Zero”

London, Tokyo, New York and Chicago.

Average of 20-40% trades are being going by computers.

Solutions

- Humans
- 10 years ago between 80 and 100 of human traders at an investment bank.
- The fastest human can do that is 100 to 120 milliseconds.
- Any basic cognitive processing, figuring things out, then maybe 200 to 300 milliseconds.
- Computers
- Today there's maybe eight traders.
- Computers were processing a trade in 10 milliseconds.
- Reducing complexity

Functionality



Other Examples

- Narrative Science Inc
- Customers:
 - Yahoo
 - Allstate
 - Goldman Sachs
 - Swiss Group



Insurance

FUTURE INSURANCE INDUSTRY

- 86% of insurance CEOs believe technological advances will change their business in the next 3-5 years
- Only a few executives are seriously considering incorporating IT into strategic planning and thinking
- Shift towards digital by 2018
 - $\frac{1}{3}$ of insurance industry's business is expected to occur digitally
 - 20% through internet
 - 11% via mobile channels

EXTERNAL FORCES

- Technologies evolving too rapidly
- Increasing customers needs and expectations
- Regulations
- Natural catastrophes
- Competitive pressures on pricing

HOWEVER...

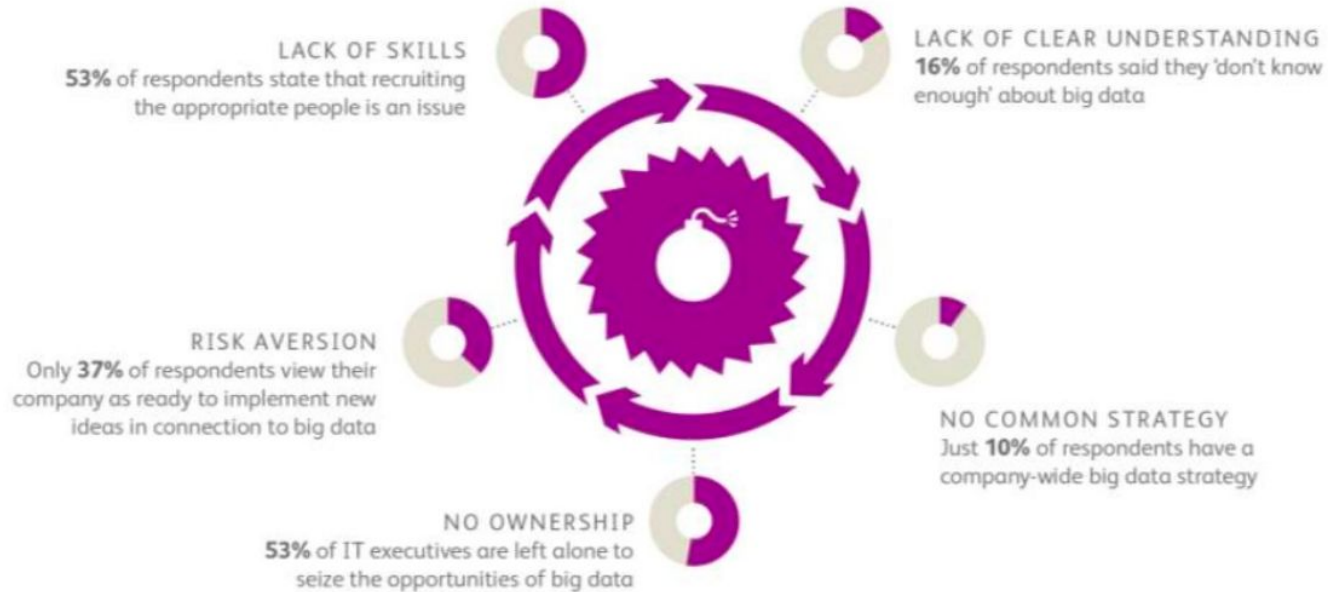
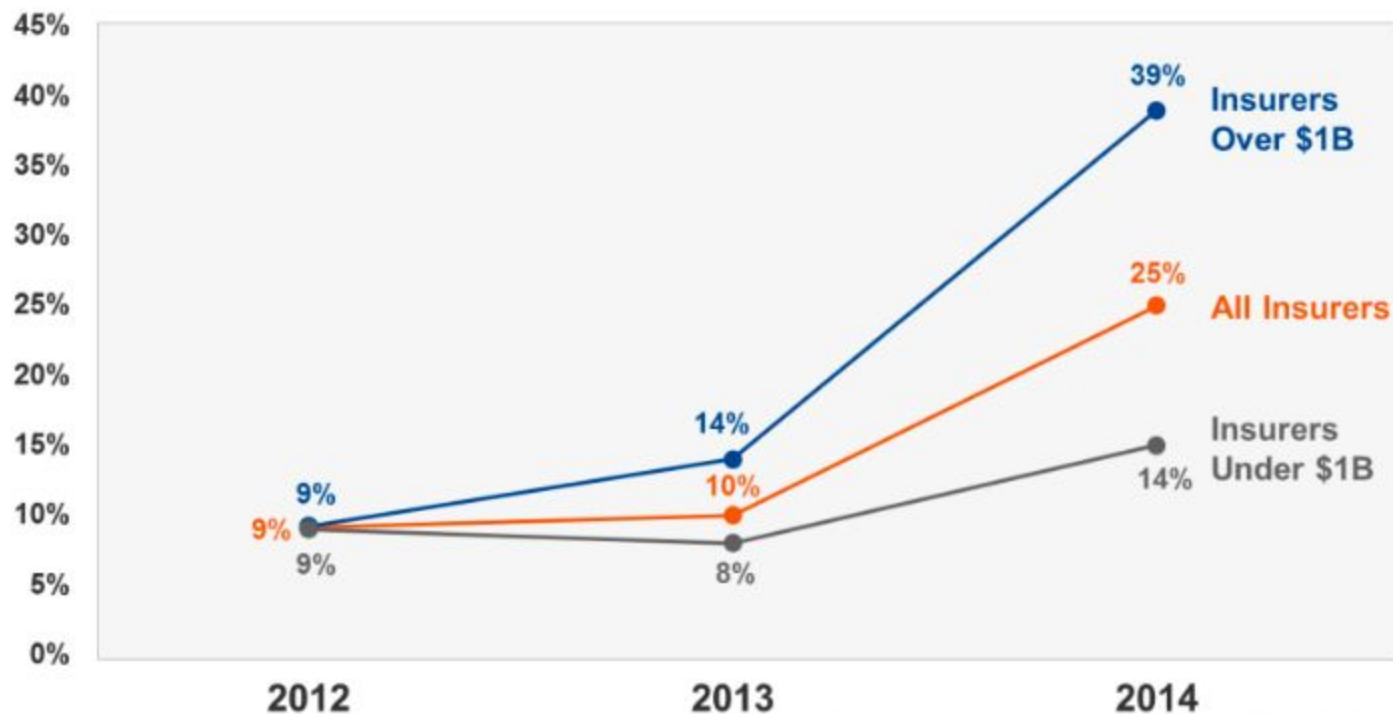


Figure 1. Percent of North American Insurers Investing in Big Data Initiatives



Source: SMA Research, Data and Analytics 2014, n=145

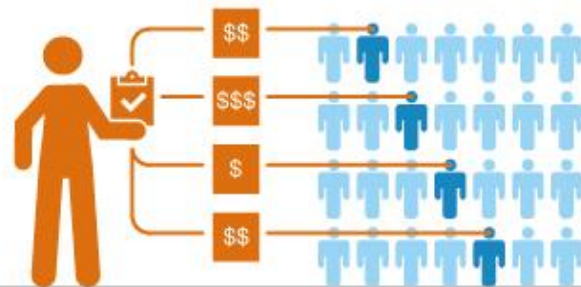
FROM

TO



Covered

Retroactive analysis



Customized

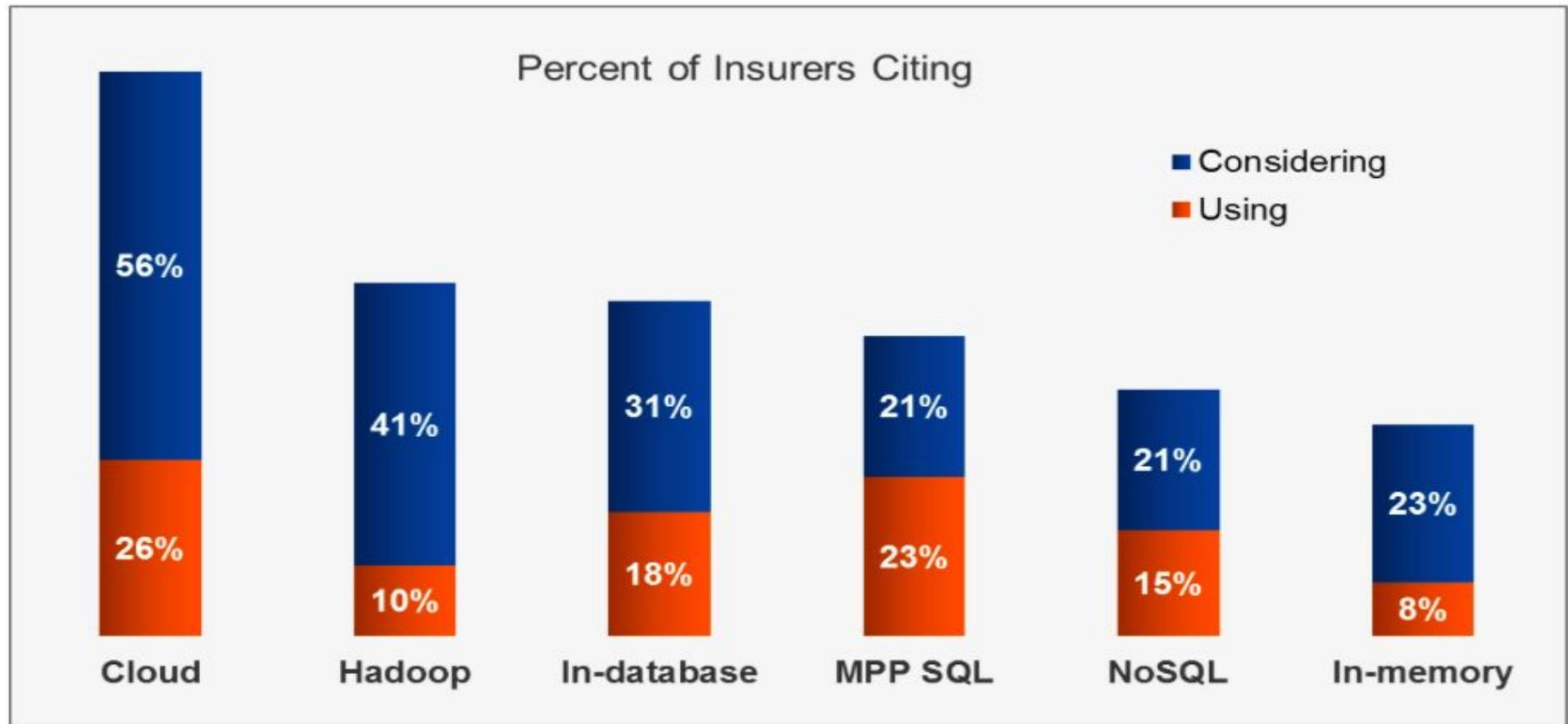
Predictive behavior



Insurer's Future Needs

- Improved financial reporting and control systems
- Stronger digital capabilities
- Ability to adjust their business model fast to new trends
- Predictive analysis and modeling method tools
- Enhanced data security systems and tools (cybersecurity has become a strategic issue for insurers)

Figure 7. Big Data Technology Platforms Insurers are Using or Considering



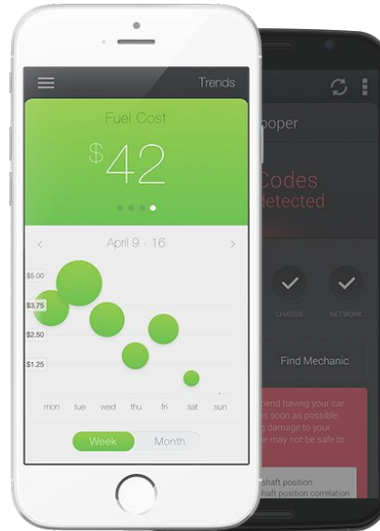
Source: SMA Research, Big Data in Insurance 2014, n=75

Smart Insurance

<METROMILE>

“Pay as you go” car insurance: drivers pay by the mile

“Drive Less Save Big”





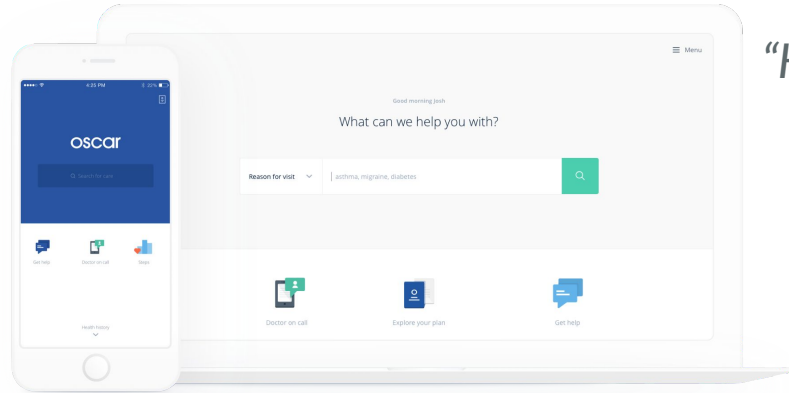
Smart Insurance



<OSCAR HEALTH INSURANCE>

Uses big data, modern apps and web interference

*“Have the happiest members paying the lowest costs
for the healthiest outcomes”*



Thank You !