

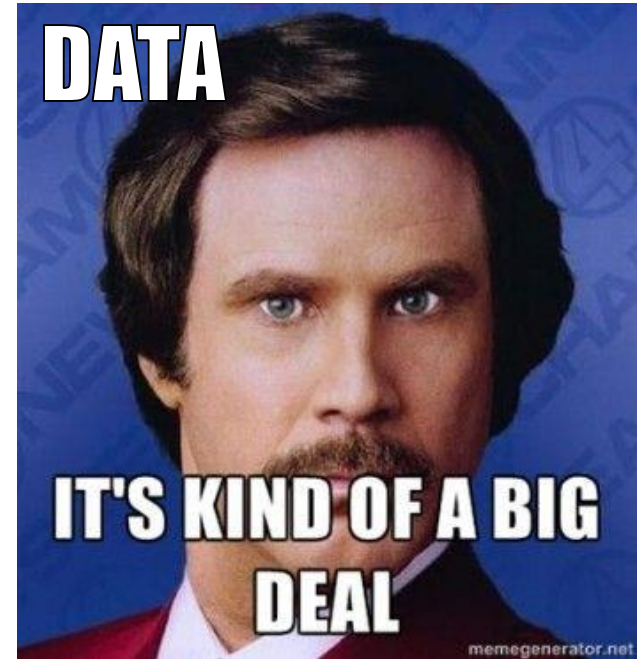
Data: It's a Kind of a Big Deal

Allen Turner – International Paper, Innovative Solutions



The road ahead...

- Headline news
- Value proposition
- Focus on the foundation
- Takeaways



*“Sixty percent of the time it works
every time”*

- Ron Burgundy (Anchorman)

Headlines news... Data is a big deal



“Without big data, you are blind and deaf and in the middle of a freeway.” – Geoffrey Moore

**“In God we trust, all others bring data.”
— W Edwards Deming**

“Data is the new Bacon.”

**“Where there is data smoke, there is
business fire.” — Thomas Redman**

**“You can have data without information, but
you cannot have information without data.”
— Daniel Keys Moran**

“Data beats emotions.” — Sean Rad

Data: The Currency of Modern Business

- More data has been created in the past two years than in the entire previous history of the human race. *~40 Zetabytes of data exist (2019) = 40 billion terabytes*
- 95% of businesses need to manage unstructured data. (Forbes, 2019)
- For a typical Fortune 1000 company, a 10% increase in data accessibility will result in more than \$65 million additional net income (Forbes, 2015)
- Businesses that use **Big Data** saw a profit increase of 8–10% and a 10% reduction in overall cost. ([Entrepreneur](#), 2019)
- It's a precious commodity - worth mining & refining
- **At the moment < 0.5% of all data is ever analyzed and usedimagine the potential**

Sources: Waterford Technologies (2017); Entrepreneur (2019), Forbes (2015, 2019)

What is Big Data?

Big Data (/big/ /'dɑdə,'dādə/)

A term that describes the large volume of data – both structured and unstructured – that **inundates** a business **on a day-to-day basis**.

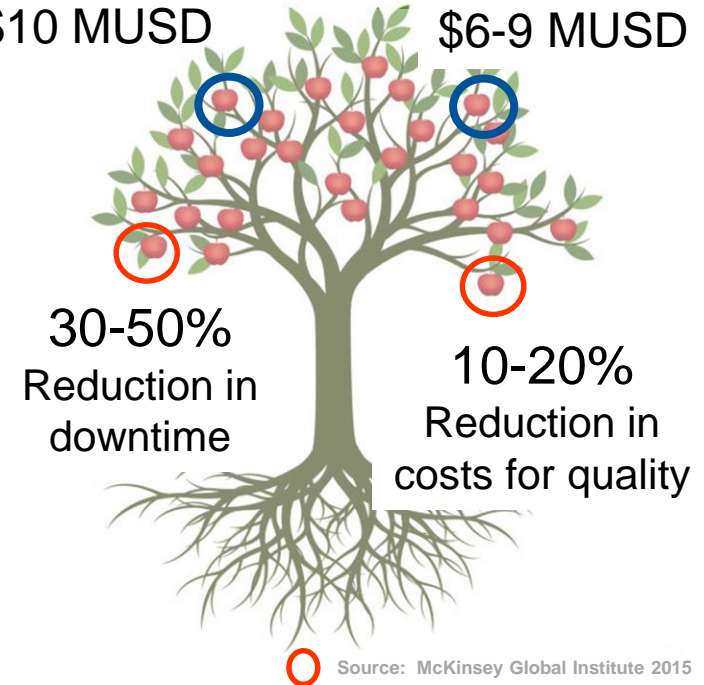
But it's not the amount of data that's important. **It's what organizations do with the data that matters.** Big data can be analyzed for insights that lead to better decisions and strategic business moves.

Data: It could be a Big Deal (but show me the money)

What's driving Industry 4.0

- Lower Operating Costs
- Improved Equipment Reliability
- Increased Uptime/Performance
- Improved Quality

Machine learning ~\$10 MUSD Vibration \$6-9 MUSD



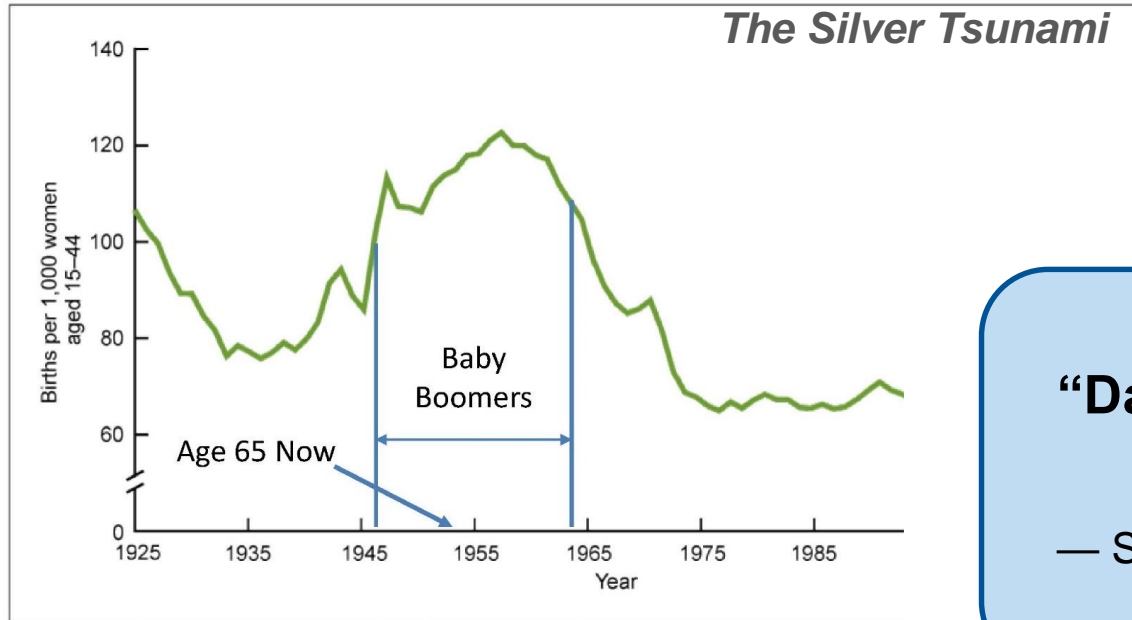
Industry 4.0 could be a...

\$2B

opportunity

Workforce demographics

moving from experience-based, leader-driven decisions to data-driven decisions



“Data beats emotions.”

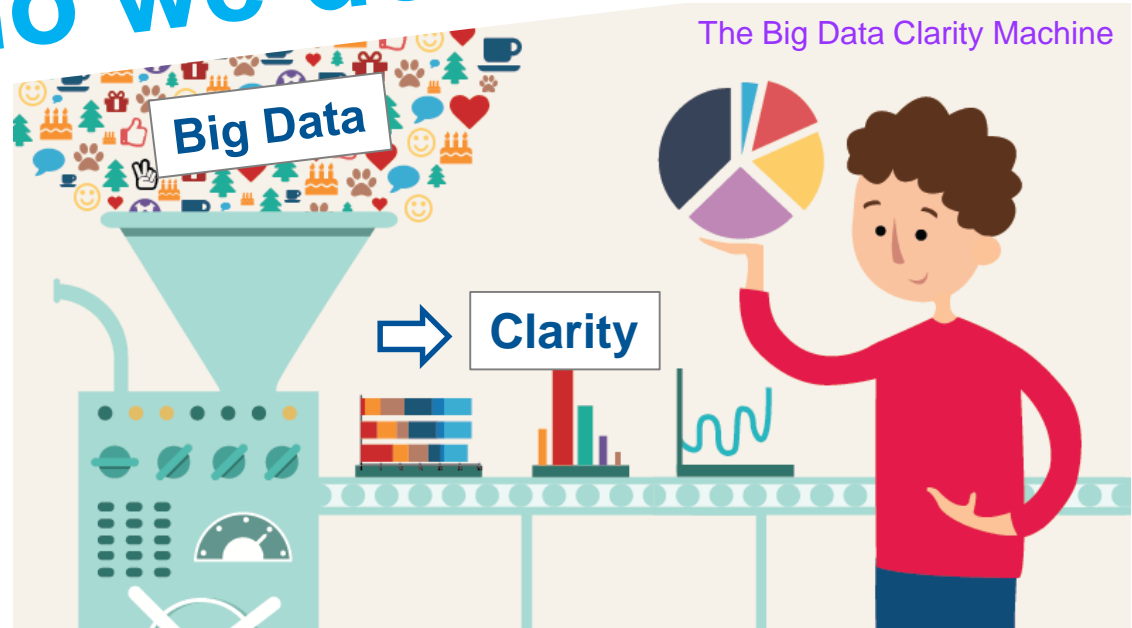
— Sean Rad

NOTES: Data for 2009 are preliminary. Access data table for Figure 1 at: http://www.cdc.gov/nchs/data/databriefs/db60_tables.pdf
SOURCE: CDC/NCHS, National Vital Statistics System.

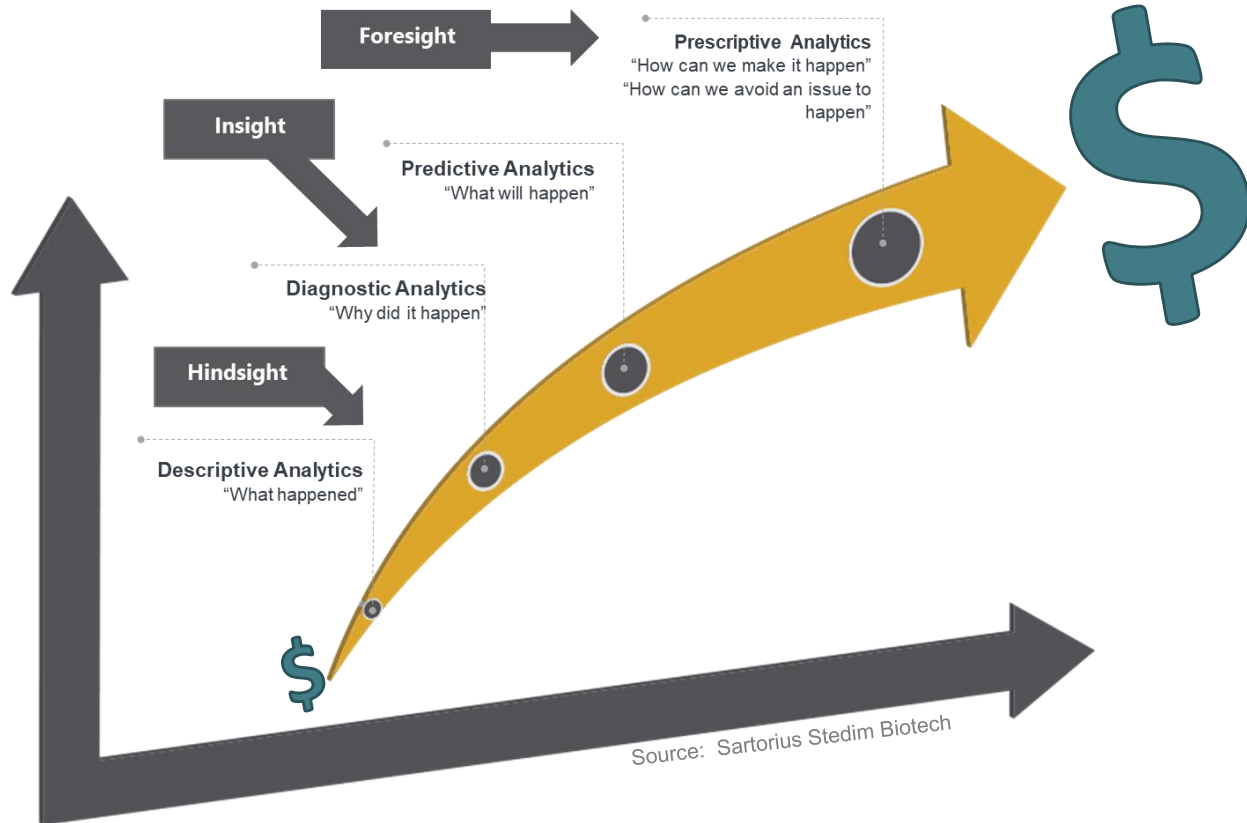
Data is Valuable

If Data is a big deal...

Now what do we do with it?

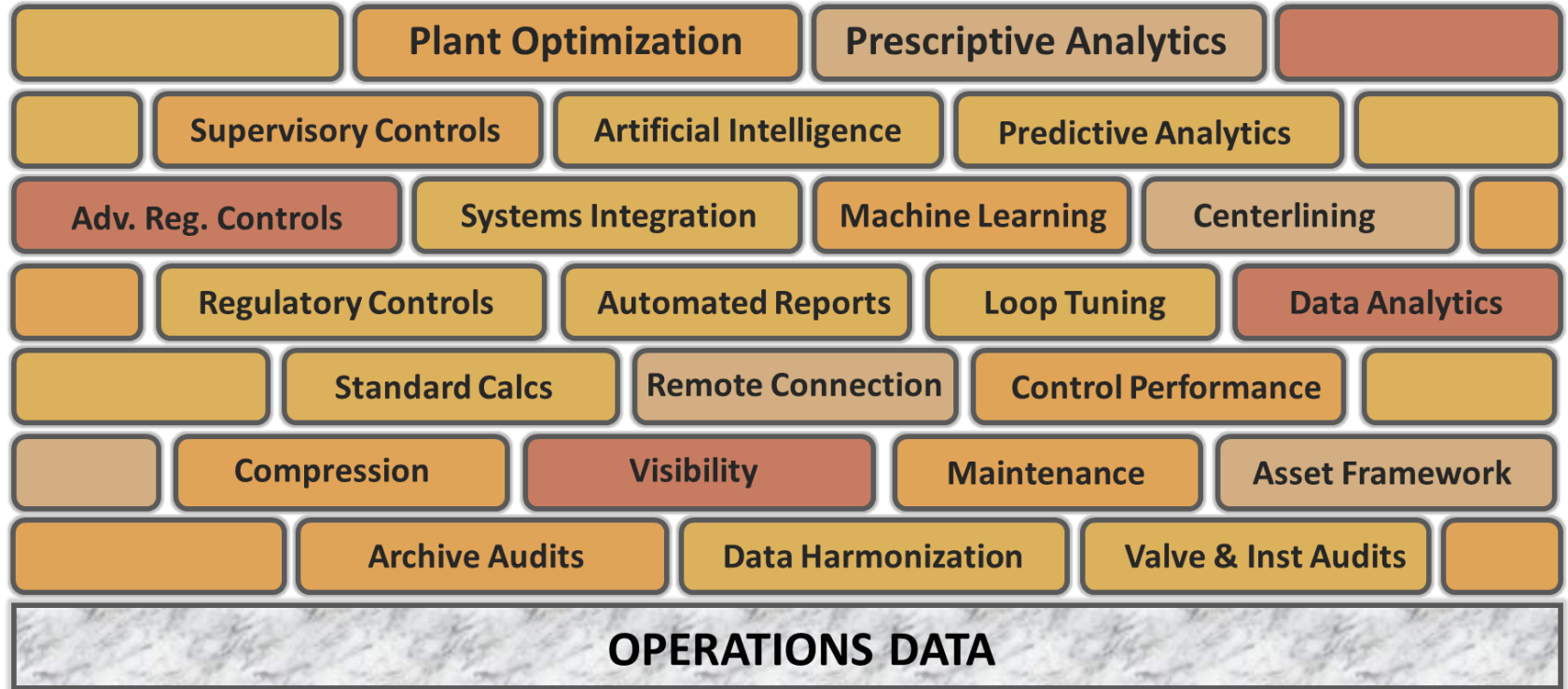


Data Maturity Model

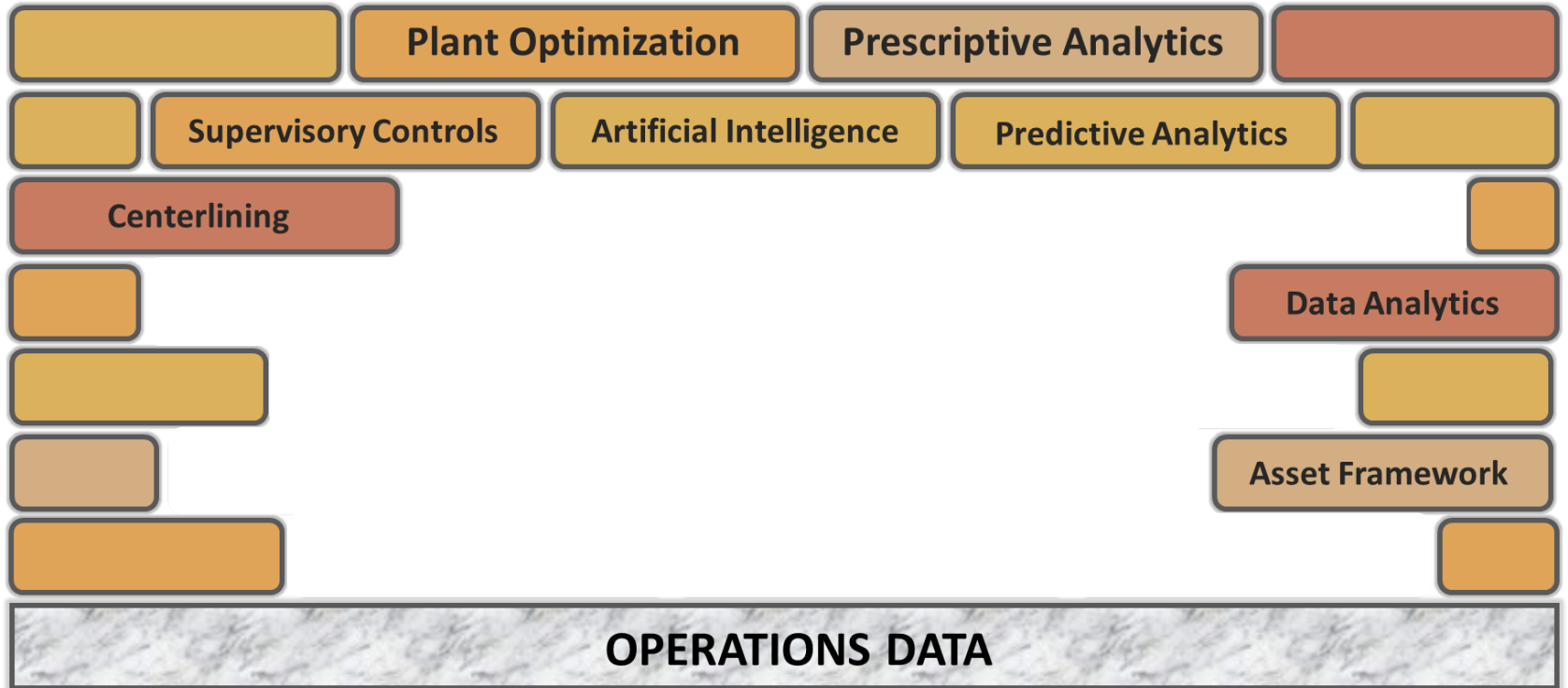


Source: Sartorius Stedim Biotech

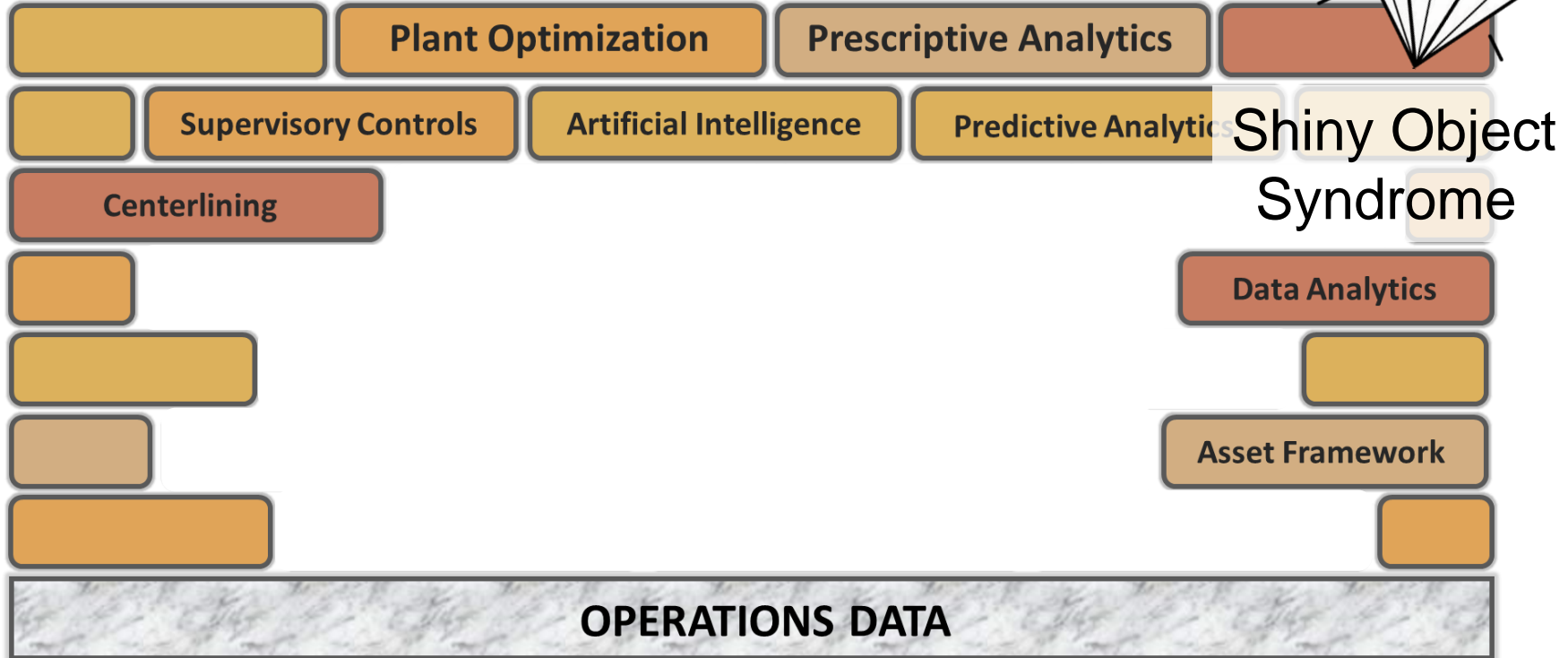
First thing First – Focus on the Foundation



Top Layer Focus



Top Layer Focus



First thing First - Foundational Focus

“Get the fundamentals down and the level of everything you do will rise.”

– Michael Jordan

Data is Valuable
Data is Foundational

How to avoid Shiny Object Syndrome

Look before you leap

PI Audits

Data Compression Analysis

Data Harmonization

Asset Framework

PI Vision / Tableau / Power BI

Standardized Tools

Standard Calculations



“Studies by the International Data Corporation show that only 22% of data is documented well enough to be analyzed and that only 5% is actually analyzed. “

- J. McKendrick

First things first – Things to Avoid

Beware of building a skyscraper on top of a shaky foundation

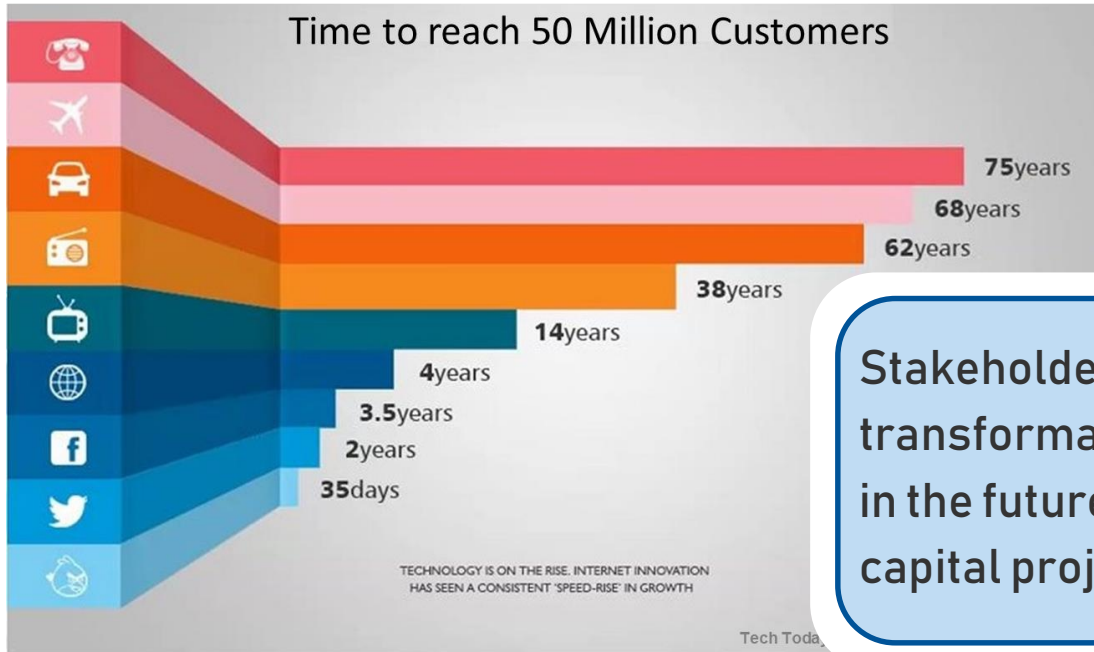


“Relying on aging systems to support business activities of the future is a losing strategy“

- Pluralsight

First things first – Things to Avoid

Be careful with speed, it is not always your friend with digitalization



Stakeholders should see digital transformation as a means to compete in the future, not as a one-time bet (a capital project)“

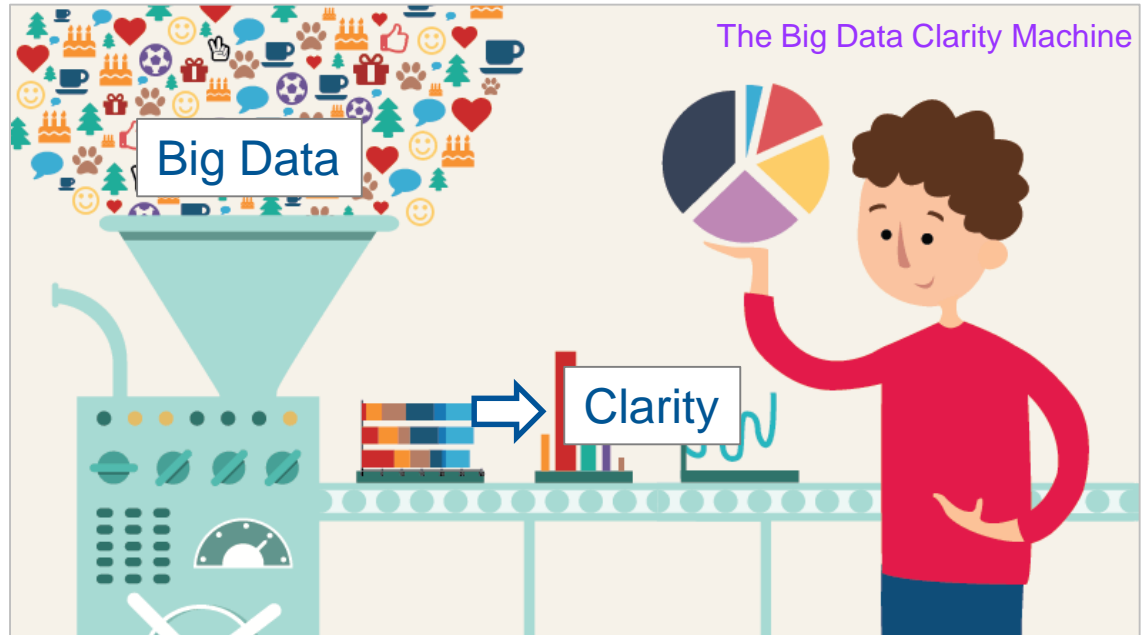
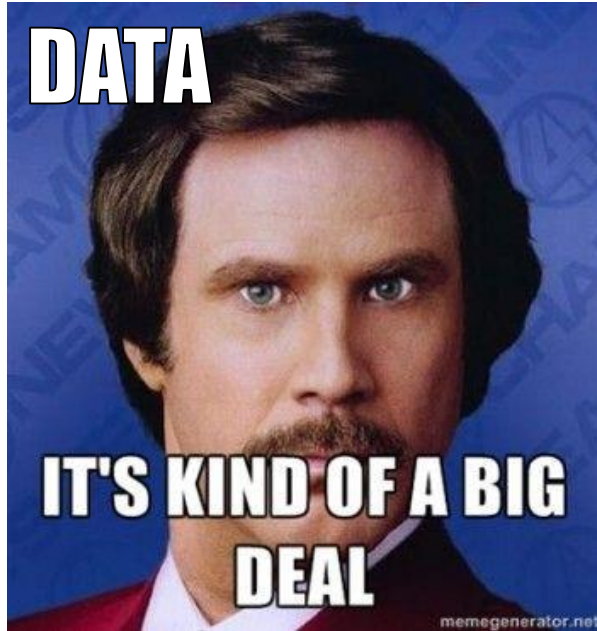
Data is **Valuable**
Data is **Foundational**
Data is **not Magical** (yet)

Takeaways

- **Data is valuable**
 - **Take** care of your data
- **Data is foundational**
 - **Transform** the foundation while investigating “shiny objects”
- **Data is not magical**
 - Its not the tool nor the data that extracts value, it's the analyst



Does the mythical Big Data Clarity Machine exist?



“Sixty percent of the time it works every time....”

- Ron Burgundy (Anchorman)

Questions?

Please wait for
the **microphone**

State your
name & company



Save the Date...



AMSTERDAM
October 26-29, 2020



Contact Information



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 DZIĘKUJĘ CI NGIYABONGA TEŞEKKÜR EDERIM GRACIES
 TAPADH LEIBH 고맙습니다 BAYRLALAA MISAOTRA ANAO
 OBRIGADO شكرا SALAMAT
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