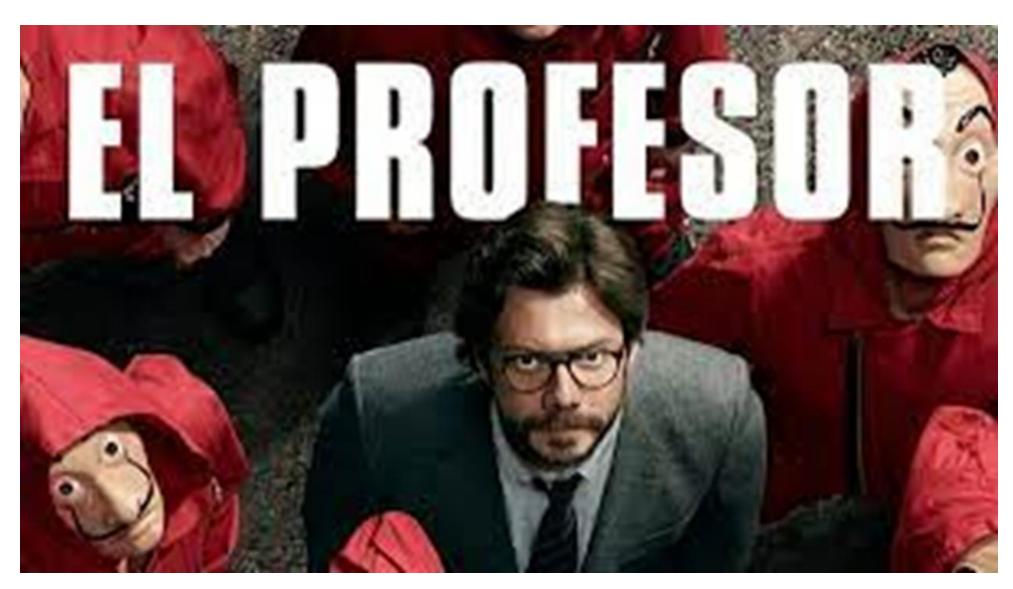
# Digital transformation

Erwin Tauber July 2023



What are your expectations about the professor and the course content?



### My expectations ...

- Interaction
- Challenge ... up to a certain point

There is no wrong question, the only wrong question is the one you have not asked

### Do you really want to know?



« When you don't know where you go and why you go there, you end up lost elsewhere »

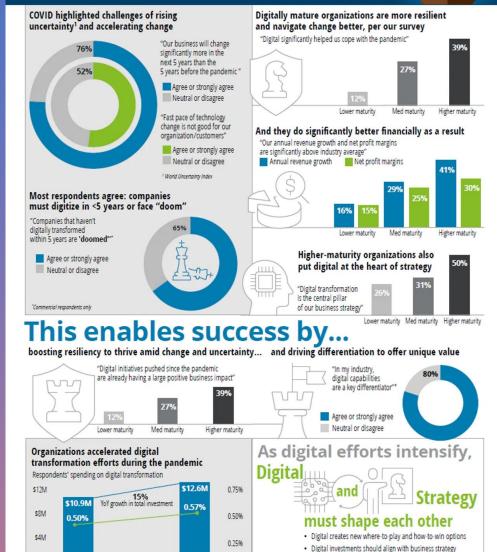


### What are we going to address?

- Beyond the buzz, what is a true digital transformation
  - Trends, threats and opportunities of the digital era
- Strategic shift
  - Incl. Innovation strategies
- Organizational dimension
  - Incl . human skills
- Toolbox

#### **Deloitte.** Putting digital at the heart of strategy





 Digital tools (i.e., analytics, simulation tools) can help identify/model new threats and opportunities

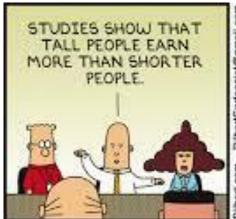
Past 12 months

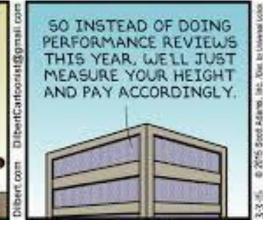
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Next 12 months

Total digital investment — Digital investment as % of revenue

### Monkey business







ctices and

#### **Directors**



### Digital transformation is like teenage sex

- Everyone is talking about it all the time
- Everyone thinks everyone else is doing it
- Those who are doing it are :
  - Doing it poorly
  - Sure it will be better next time
  - Not practicing it safely
- Everyone is bragging about their successes all the time, eventhough few have experienced success or done it all



Presentation title 11

- « 40 % of the company who are supposed to be active in AI, are not at all »
- « Start-ups who claim to be active in Al attract between 15 to 50 % more funding »
- Most of the rest simply conduct experiments (Chatbot, ChatGPT, ...)
  and not full scale AI operations

# /// Kolibree

### Why, what and how?

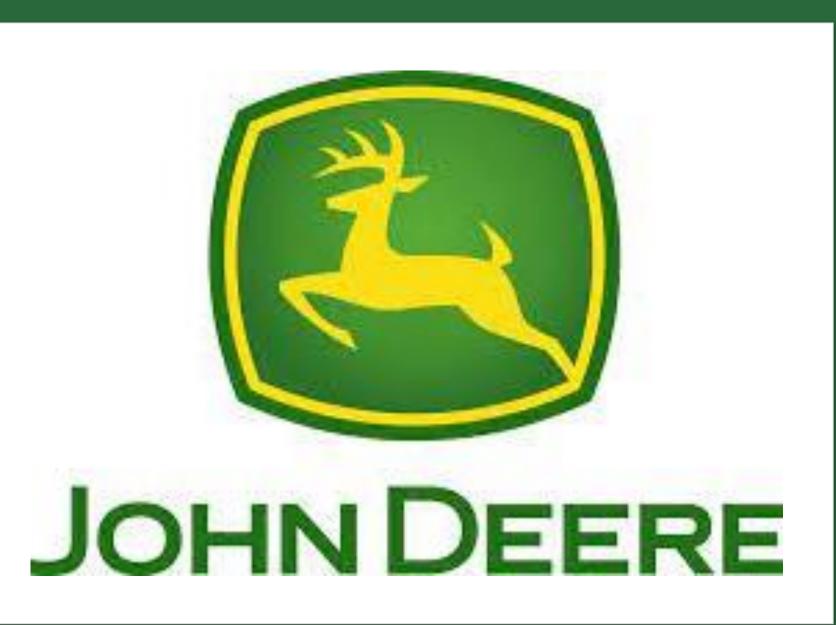
• This lecture will the why and the macro how

### Why?

- Innovation
- From Michael Porter competitive advantage to Blue Ocean
  - Being cheaper or better to being fundamentally and systematically different

#### Macro how

- Numerization -> analogical information in numerical format -> data
- Digitalization -> data treatment with digital technology to change/improve the process.
- Digital Transformation
  - Strategic vision part, and often the cornerstone, of the global strategy



We innovate on behalf of humanity



### What is digital transformation?

- It's about new business models and new business performance
- It's about innovation
- It's about customers' experience
- It's about totally new mindsets
- It's not about numerization, digitization, tools, IT, ...
- It's not an inconsistent collection of IT/digital experiments
- It's about why you do it and not how!



### The context

## VUCA?



### Context







#### VUCA

- Middle age was horizontally linear
- End of middle age up to the Renaissance was characterized by upward steps
- XIX & XX centuries had an upward linear trend (industrial revolution)
- XXI century : welcome to VUCA ... end of growth?

Industrial

#### 19th & 20th centuries

- Economies of scale
- Efficiency
  - Up to 1980 automation from blue collars
  - From 1980 automation for white collars as well

Automation = static, stable, fully mastered, batch

- 21st century
  - Complexity
    - Cooperation
      - Dynamic solutions & Digitalization
        - Coopetition

Digitalization = flexibility, customization, tracking, ...

## Predictability

#### Complexity

Multiplicity of decision factors

**Volatility** 

Increasing rate of change (speed, scale)

The situation has many interconnected parts and variables.

Some information is available or can be predicted, but the volume or nature of it can be overwhelming to process.

Rate and speed of change escalate with its associated risks of instability

The challenge is unexpected or unstable and may be of unknown duration, but it is not necessarily hard to understand; knowledge about it is often available.

#### **A**mbiguity

There may be no « right answer »

**Uncertainty** 

Less clarity about future

The intricate relationship of systems and their parts, the opposite of simplicity and the multifaceted effects of multiple factors, drivers and influencers.

Causal relationships are completely unclear. No precedent exists; you face « unknown unknowns »

The lack of predictability, the prospects for surprise and the sense of not knowing the outcomes of even known changes might be.

Despite a lack of other information, the event's basic cause and effect are known. Change is possible but not a given.

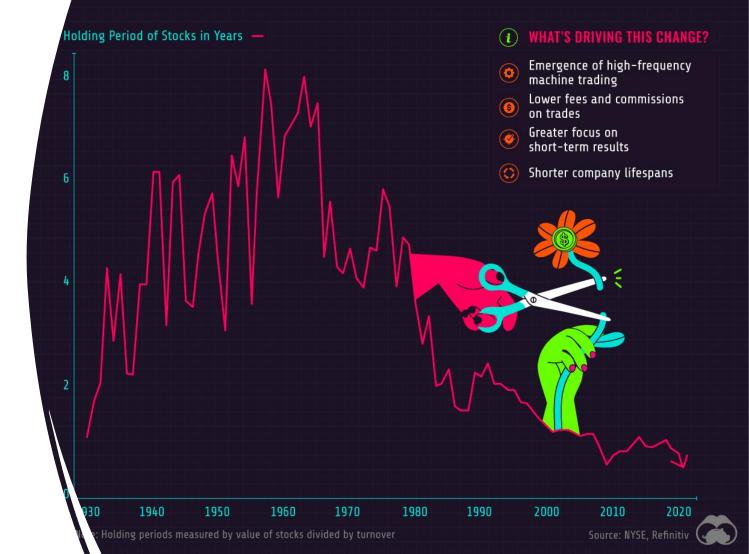
Knowledge of the situation

### Volatility

From 8 years to 5,5 months

### **CLINE OF LONG-TERM INVESTING**

e average holding period of shares on the ew York Stock Exchange has fallen to new lows.



### Uncertainty

#### 6 Macro Factors Will Reshape Business This Decade

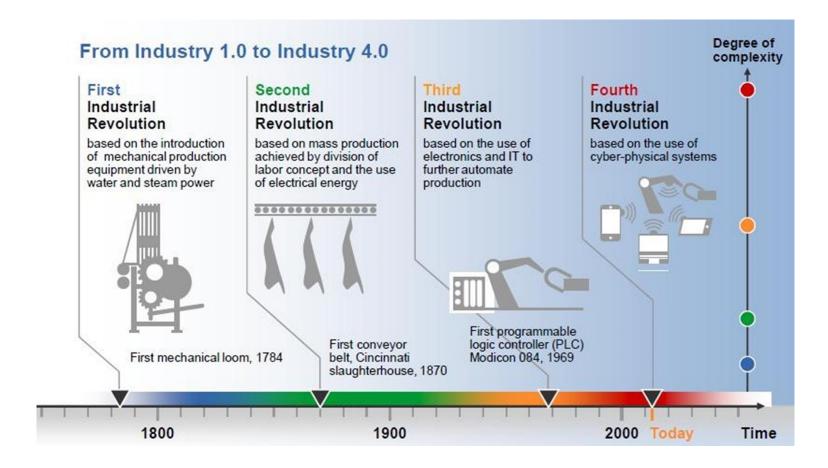


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### Complexity

What does an engineer master?



### Ambiguity

Wher are we heading to?



#### **HOW TO NAVIGATE IN A VUCA WORLD?**

#### **Volatility**

Prepare for WSHF and hope for the best

**Stop seeking permanent solutions** 

#### **Uncertainty**

Work on different scenarios Invest in information, collect, analyse and share it Trial and error

#### Complexity

Develop collaborative leaders Move to open innovation, open source

#### **A**mbiguity

Listen and Communicate clearly Ensure your intent is understood Experiment Make assumptions