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# Business Processes “AI Driven”

how technology is changing the way  
companies design business processes

A CASE OF APPLICATION IN PHARMACEUTICAL INDUSTRY

November, 16 2020 - Marco Menichelli

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# Marco Menichelli

## Present



## Past





# 1. Artificial Intelligence

## → Definition

Artificial intelligence (or AI) is an area of **Computer Science** that aims to create intelligent machines that think and learn like humans.

## → My Definition

Artificial intelligence (or AI) is a **Multidisciplinary science** that aims to create a new intelligent life form able to learn, think and react better than humans.

# Why is AI a multidisciplinary science?

To develop a true Artificial Intelligence, we must first know how the human mind works



## What We Need To Know

- Psychology (Cognitive, transcultural, evolutionary, etc.)
- Linguistics
- Communication Sciences
- Philosophy
- Neurobiology
- Maths
- Computer Sciences.

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**If it were easy, everyone  
could have done it**

# AI Branches and macro-application fields



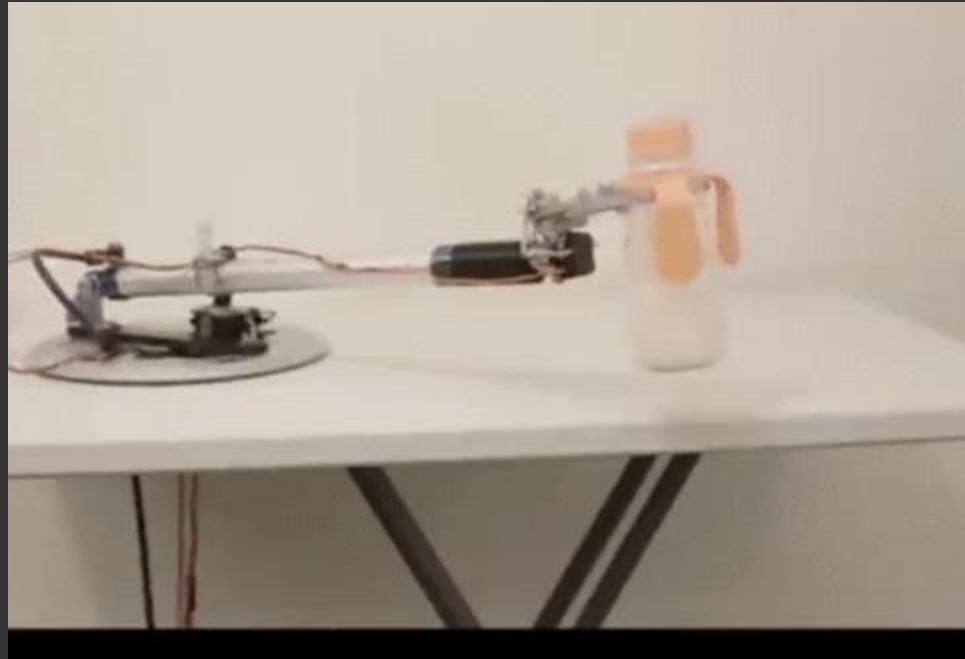
There are branches of AI for every task that a man is able to perform



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**Question:**

**So, does it really work?**







## 2. AI and Industry

→ **How**

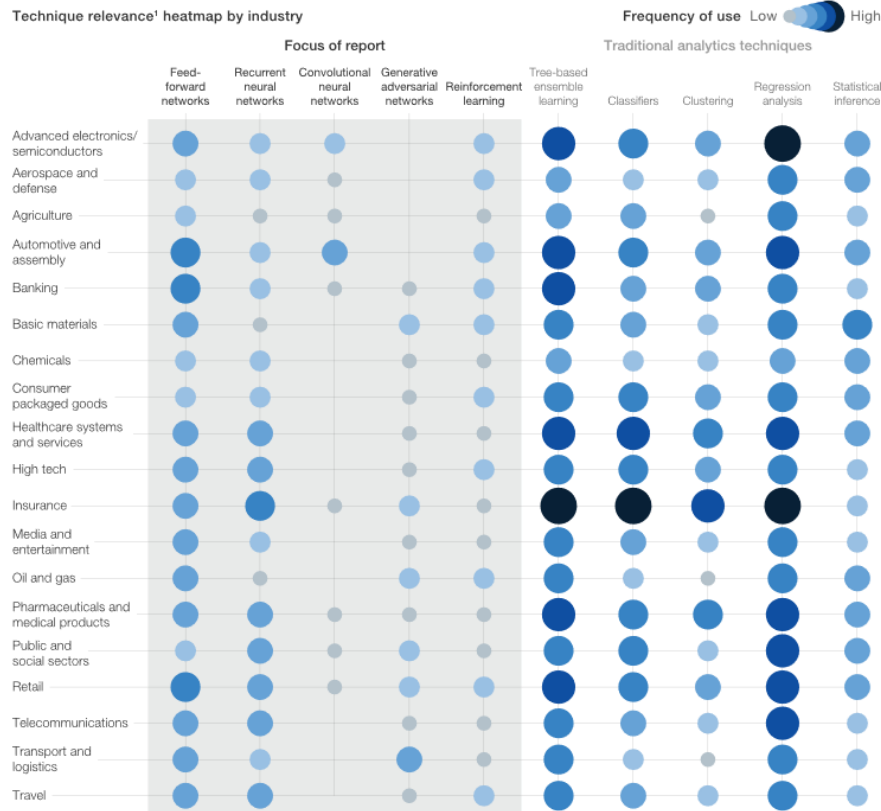
How AI is used in the market today

→ **Why**

Why is AI used

# How AI is used in the market today?

Advanced deep learning artificial intelligence techniques can be applied across industries, alongside more traditional analytics.

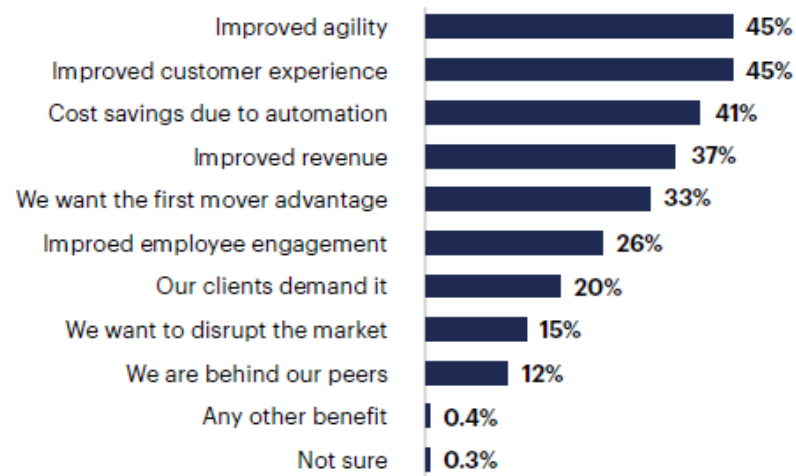


<sup>1</sup>Relevance refers to frequency of use in our use case library, with the most frequently found cases marked as high relevance and the least frequently found as low relevance. Absence of circles indicates no or statistically insignificant number of use cases. Note: List of techniques is not exhaustive.

# Why AI is critical?

## Why AI Technology is Critical

Percentage of Respondents



**Base:** Answered Artificial Intelligence (AI) Section and at least 1 technology is critical for the organization to develop, n = 705

**Question:** What are the top 3 reasons why AI technologies are critical to your organization? Multiple responses allowed.

ID: 378559

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### 3. Some Use Cases

- **Italian Big Telco**  
Gradual use of AI systems
- **DeepHound L.t.d**  
The Augmented Intelligence
- **SyntLife Corp**  
Automated business processes

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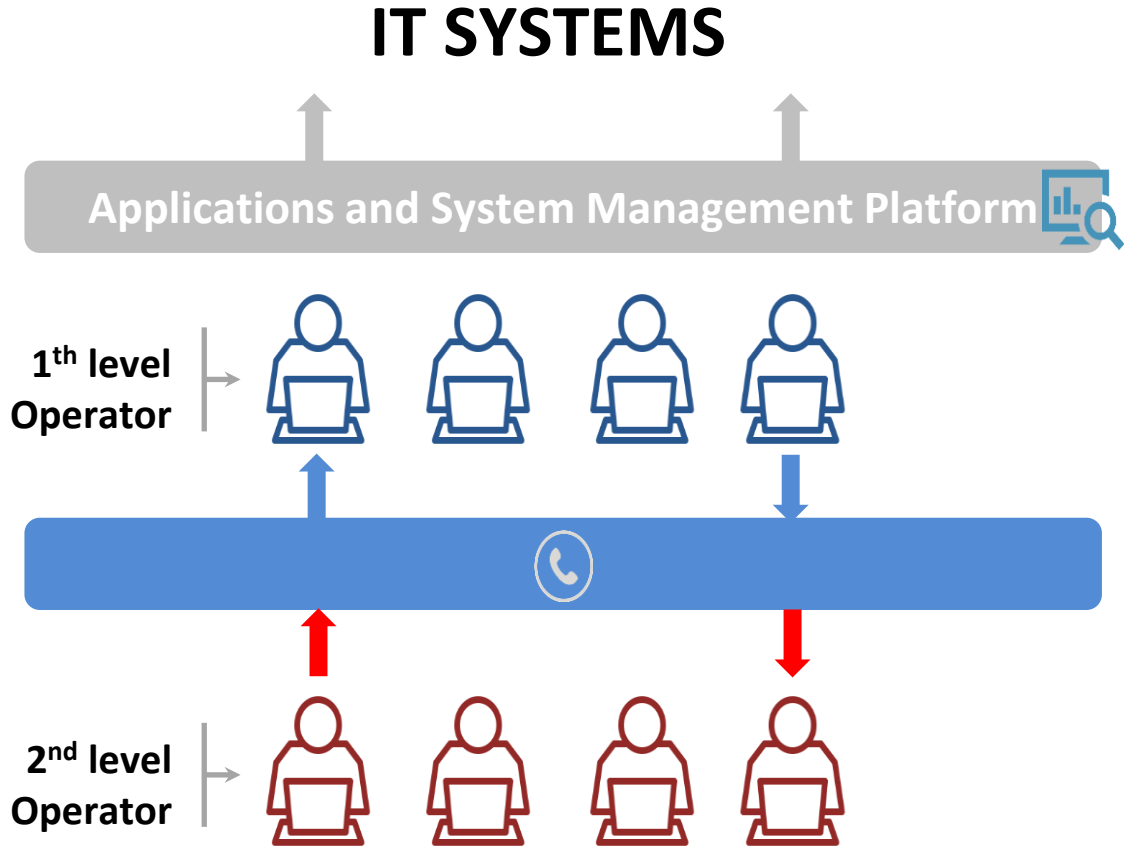
**Customer:**

**An italian Big Telco**

**Business Process:**  
**IT Customer Service**

**personnel involved:**  
300 1th level Operators  
150 2nd level Operators

**Average time to solve a  
technical problem : 8 hours**



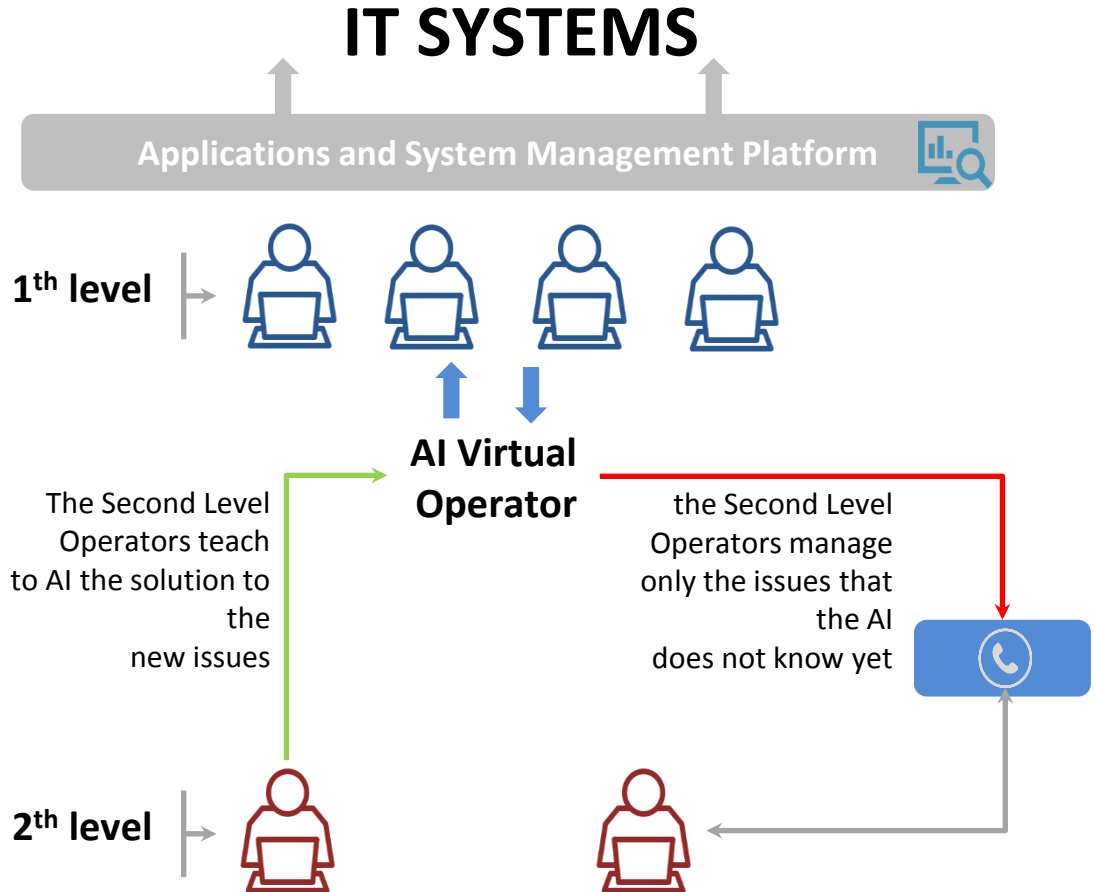
**Business Process:**  
**IT Customer Service**

**personnel involved:**

**300 1th level Operators**

**60 2nd level Operators**

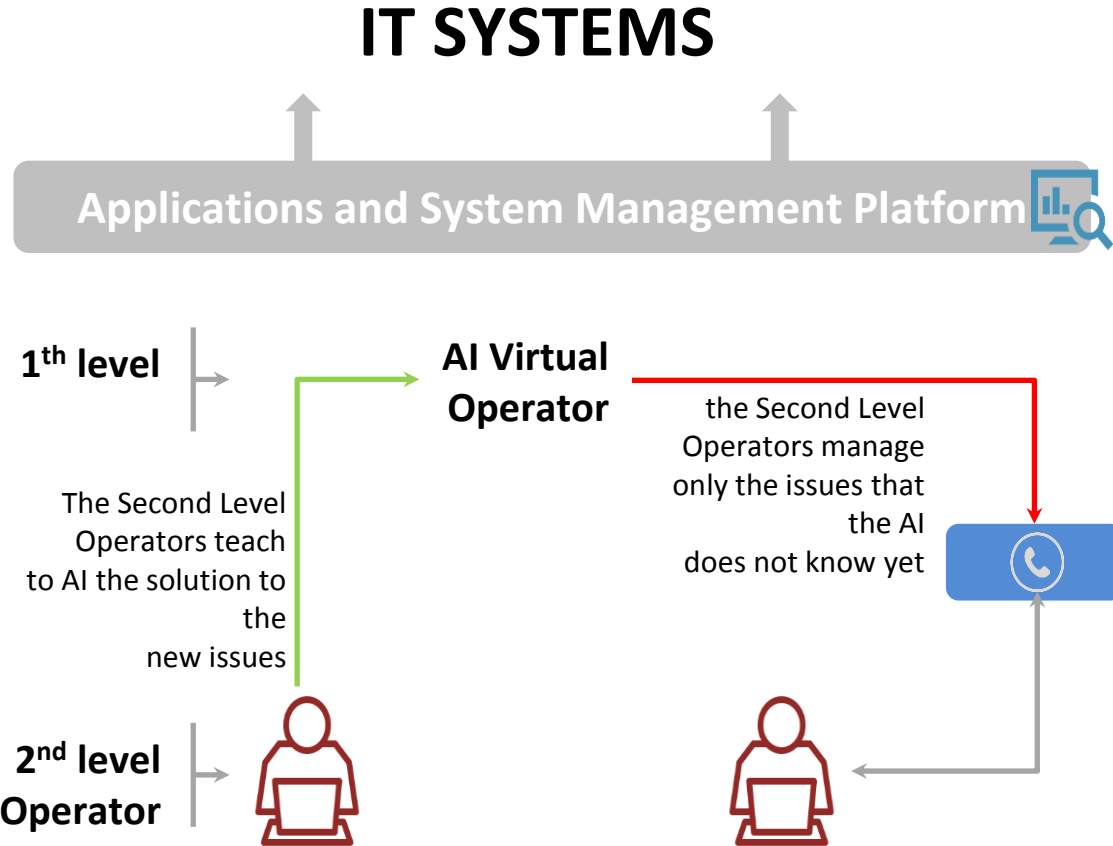
**Average time to solve a  
technical problem : 4 hours**



**Business Process:**  
**IT Customer Service**

**personnel involved:**  
**0 1th level Operators**  
**60 2nd level Operators**

**Average time to solve a  
technical problem : 2 minutes**





A hand holding a smartphone against a dark red background. The text is overlaid on the left side of the image.

**Business processes  
of new companies,  
can be designed  
already automated,  
and therefore,  
optimized.**



**New rule**

Existing business processes can be renewed, but new business processes must be born already optimized

**Customer:**

**DeepHound**

**Augmented Intelligence**



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# Customer:



SyntLife  
SCIENCE OF CREATION





# Summing Up

- Business processes can be optimized with technology
- Technology, if well chosen and integrated, saves time, money and satisfies the end customer
- When designing new business processes, technology must be integrated, otherwise you risk designing something that is already old
- Technology must be integrated gradually

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# **BONUS TRACK:**

**Launch of a new  
pharmaceutical product and  
of an entire company**



fit**4**Pandemic



**A number of Research Institutes and Universities worldwide have been working with SIRT500 sagl**



**Switzerland**

Louanne Federal  
Polytechnic School



**Australia**

NSW Research  
University



**United States**

Chicago University



**Italy**

Rome University  
La Sapienza



**United States**

Miller School of  
Medicine  
University of Miami



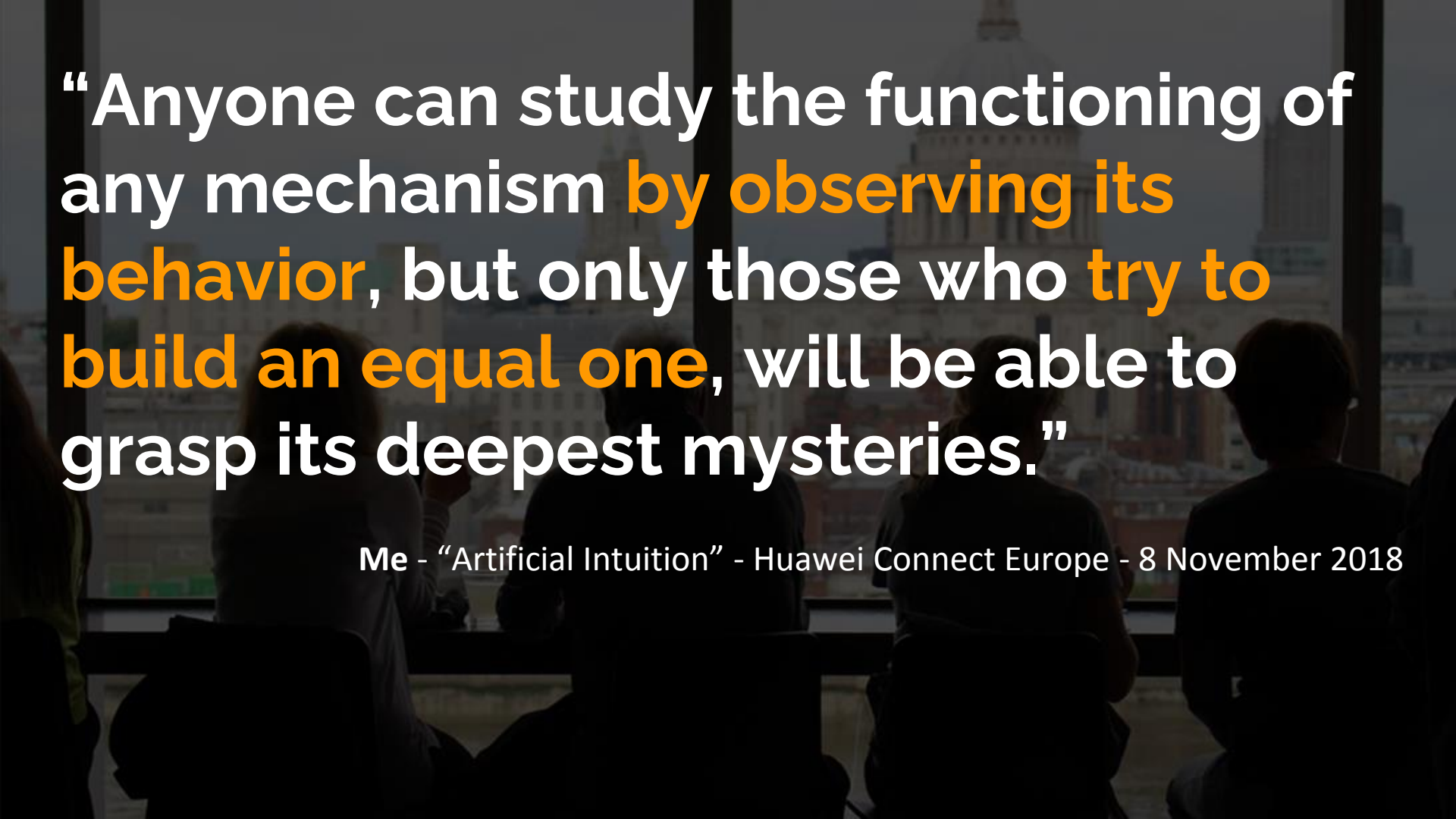
**Italy**

San Raffaele  
Institute of Rome



**Italy**

Istituto Superiore di  
Sanità (ISS) Rome



“Anyone can study the functioning of any mechanism **by observing its behavior**, but only those who **try to build an equal one**, will be able to grasp its deepest mysteries.”

Me - “Artificial Intuition” - Huawei Connect Europe - 8 November 2018



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**Thank you!**

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