



## **«Associazione Rete Fondazioni ITS ITALIA»**

The national strategy of Rete ITS ITALIA as  
national organization

**Alessandro Mele**  
(Chairman)

Chain5 Conference  
Como, 15 marzo 2019

How our life is changing?  
***The impact of technology***



Too busy with the present to be **conscious**?

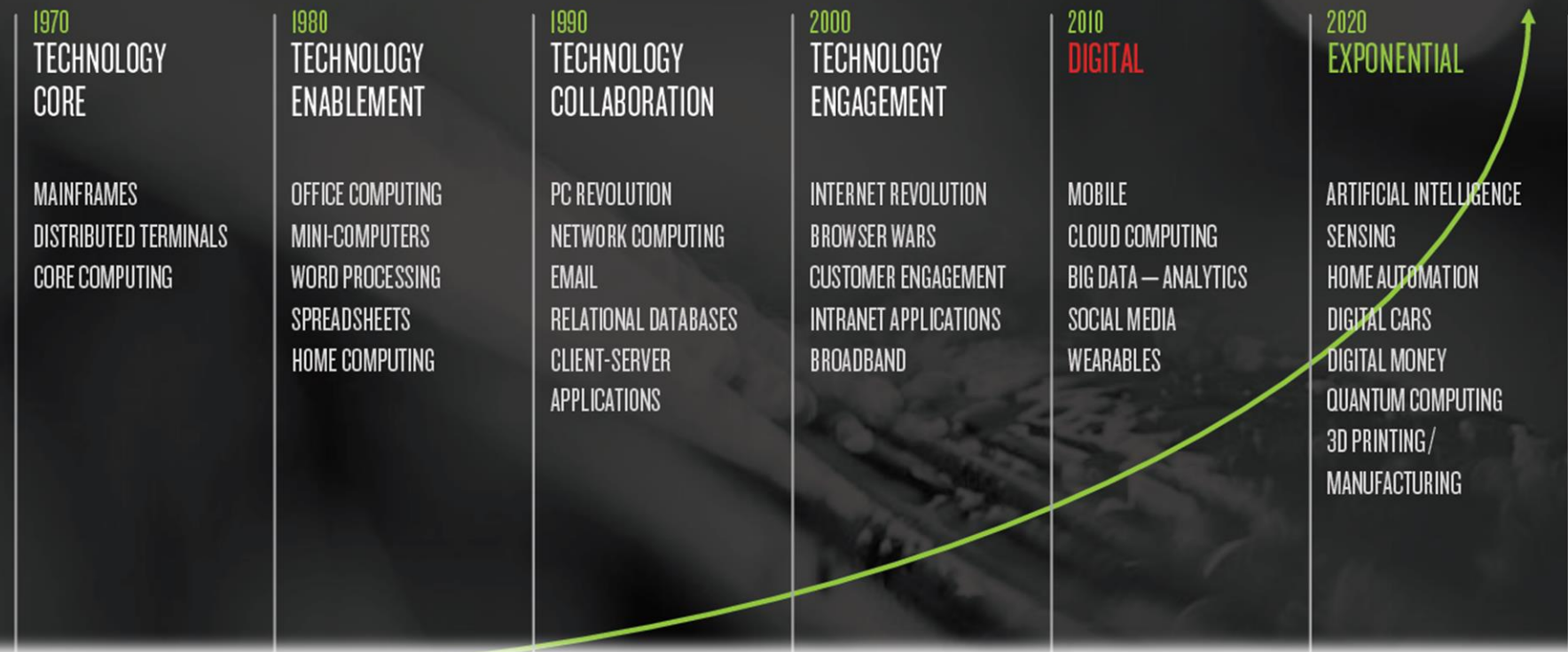


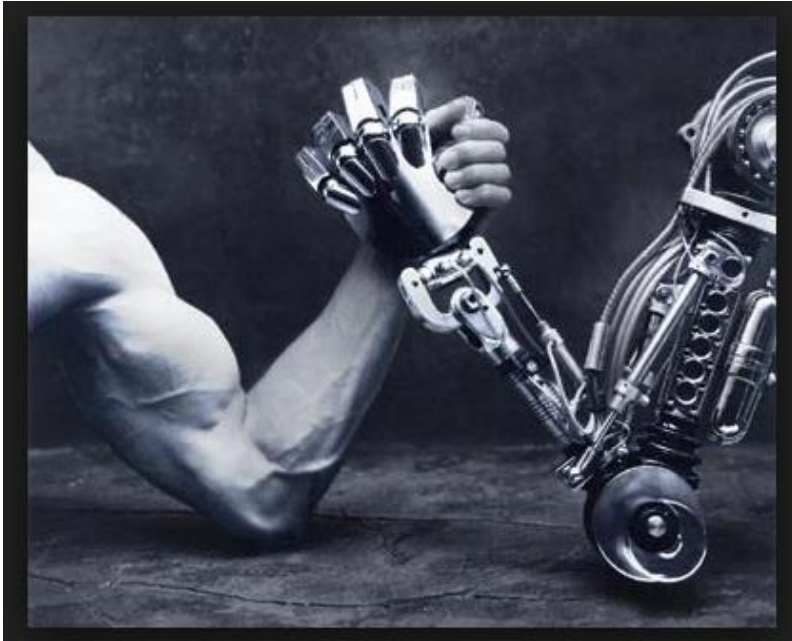
# In the Exponential Era



## TECHNOLOGY CYCLES <sup>1</sup>

Technology eras are characterized by exponential growth and connectivity.





## Human being v/s Robots

*where humans make the difference*

1. Consciousness
2. Awareness
3. Creativity and innovation
4. Critical Thinking

1. Monotonous works
2. Calculation and execution orders
3. Works for efficiency

# digitalisation and...

- **Localization:** labour costs and skills.
- **Competences:** less workers more skills
- **Flexibility:** a mindset to anticipate needs and adapt to them
- **Personalisation:** Towards Renaissance laboratories

To go **beyond** the **dualism**  
*Humanistic and Technique*

# Integration School And Work

**To change the education and training approach**

## **1 THE EDUCATIONAL VALUE OF WORK**

- School-Enterprise / Learning Enterprise Model

## **2 REALITY-BASED LEARNING / EXPERIENTIAL LEARNING APPROACH**

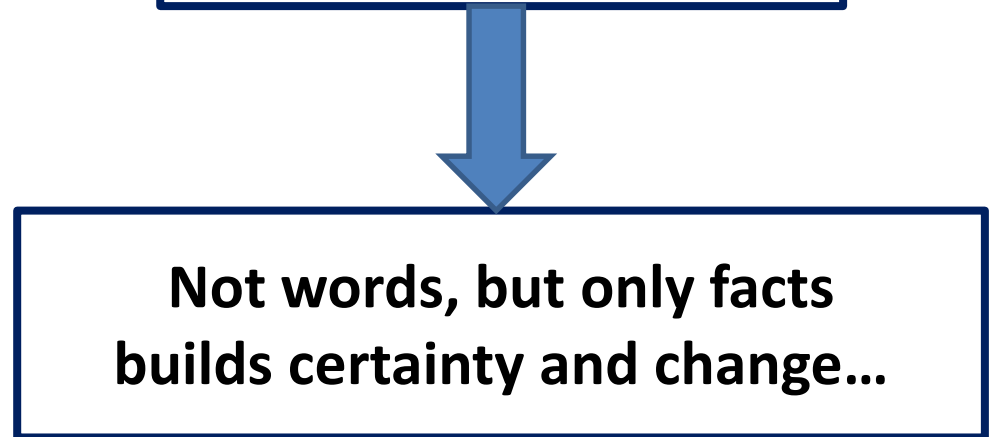
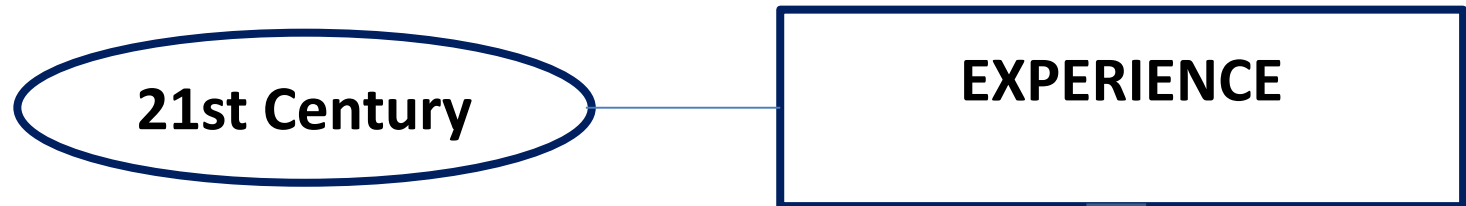
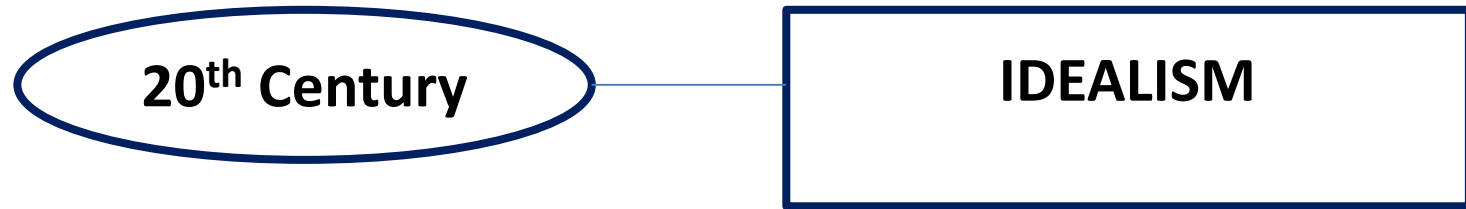
- To change the Idealist School in a Realistic School where the first teacher is the real life

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# in the new century...





# Italy: Two negative records



1

## HIGH YOUTH UNEMPLOYMENT RATES



Youth Unemployment Rate <sup>[2]</sup>

31%

14.8%

Population aged 30-34 with **Tertiary Educational Level** <sup>[3]</sup>

26%

39.9%

2

## CHRONIC LACK OF SKILLED WORKFORCE



26% of businesses struggle to find the **skills they need** <sup>[4]</sup>



Recruitments for 2018-2022 concerns **2,5 mln workers, 70%** of them will be **high-skilled workers** <sup>[5]</sup>

# ITS - Istituti Tecnici Superiori (Higher Technical Institutes)









## ITS: THE SOLUTION TO THE TWO ITALIAN ISSUES



### ITS graduates

- **82,5% employed** <sup>[6]</sup>
- **87,3% with a job related to the major** <sup>[7]</sup>

## 6 Technological Areas

	1 - Energy Efficiency		4 - New Technologies for “Made In Italy” Products
	2 - Sustainable Mobility		5 - Innovative Technologies for Cultural Heritage and Tourism
	3 - New Technologies for Life		6 - Information and Communication Technologies



### 4 – New Technologies for “Made In Italy” Products

- Agribusiness
- Home
- Mechanic and mechatronic
- Fashion
- Service for enterprises

# ITS - Istituti Tecnici Superiori



Since  
2010

- **93 ITS**  
**2,074 partners**  
**712** of which are **businesses**.

- **445 courses** (last year)



SISTEMA  
**ITS**

TODAY

- **10.476** enrolled **students**.

# ITS - Istituti Tecnici Superiori

## Integration School-Enterprise

SECRET TO SUCCESS

- Focus on **technical and vocational education**
- Strong **links** with the **labour market**
- Strong focus on **local need**

# ITS - Istituti Tecnici Superiori

SECRET TO SUCCESS

## Personalisation

- **Didactic laboratory** (20/30 students)
- **Compulsory traineeship: 30%** of the total course hours
- At least **50% of trainers from the labour market**

## Pay for results

- **Impact evaluation:** attractiveness, n. of employed people, professionalization, active participation, networks

# ITS: What they need

- Infrastructures: **ITS Technological Campus**
- Go beyond start up: **stabilize public funding** (no annual call)
- **Public Investments** and freedom to grow
- Curriculum: more than **Level 5 (6, 7, and 8)**
- Skills Hub: Academy, training center, or...
- and above all... a **cultural change**







# **Let's build it together!**

## **Thank You**

**Alessandro Mele**

President

Associazione Rete Fondazioni ITS ITALIA

# Main References



- [1] Deloitte, *Putting digital to work*, 2016
- [2] Eurostat, *Euro area unemployment at 8.1%*, October 2018
- [3] Eurostat, *Population aged 30–34 with tertiary educational attainment (ISCED 5–8)*, 2018
- [4] [5] Unioncamere, *Excelsior informa. I programmi occupazionali delle imprese rilevati dal sistema delle Camere di Commercio*, September 2018
- [6] [7] INDIRE, *Formazione Terziaria Professionalizzante. Istituti Tecnici Superiori Monitoraggio Nazionale 2018. Quadro di Sintesi*, 2018

# ITS - Istituti Tecnici Superiori

- Set up in **2010**
- Italy's experiment of **Vocational Tertiary Education**
- Top-class centres **highly specialised in technology**
- **Mixed public-private institutions**
- **Level V EQF**: credits recognized by single university

## OBJECTIVES:

1. To train **skilled technicians** in **strategic areas** for Italy's **economic development** and **competitiveness**
2. To answer **industry's** need for **new high-level technical and technological skills** to promote **innovation processes**.