



UNIVERSITÀ
DEGLI STUDI
DI PADOVA

M31: a Technological Adventure

**Economics and Management of Innovation
Master's degree in Computer Science**

**Prof. Silvia Rita Sedita
Prof. Amir Maghssudipour**

**30th November 2023
12:30 - 14:00
Room: LUF-1**



m31

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Chief Innovation Officer**

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Question:

University

“Three Missions”

*"To disseminate culture, knowledge,
and transfer research findings
beyond the academic context,
contributing to social growth and the
cultural direction of the territory."*

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and transfer research findings
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Progress

Question:

**How can we transfer
Technology to Society?**





All we need is
a Brain and a Motivation



Impact of MIT on Economy (2015)

- MIT has 10.000 students (6.000 [60%] of them are PhD)
- 25% of the alumni have been involved as founders or cofounders of a hi-tech startup.
- UniPD has 63.000 students (2021/22) – (3.700 [5.8%] are PhD, Master, Specialization Schools).

Impact of MIT on Economy (2015)*

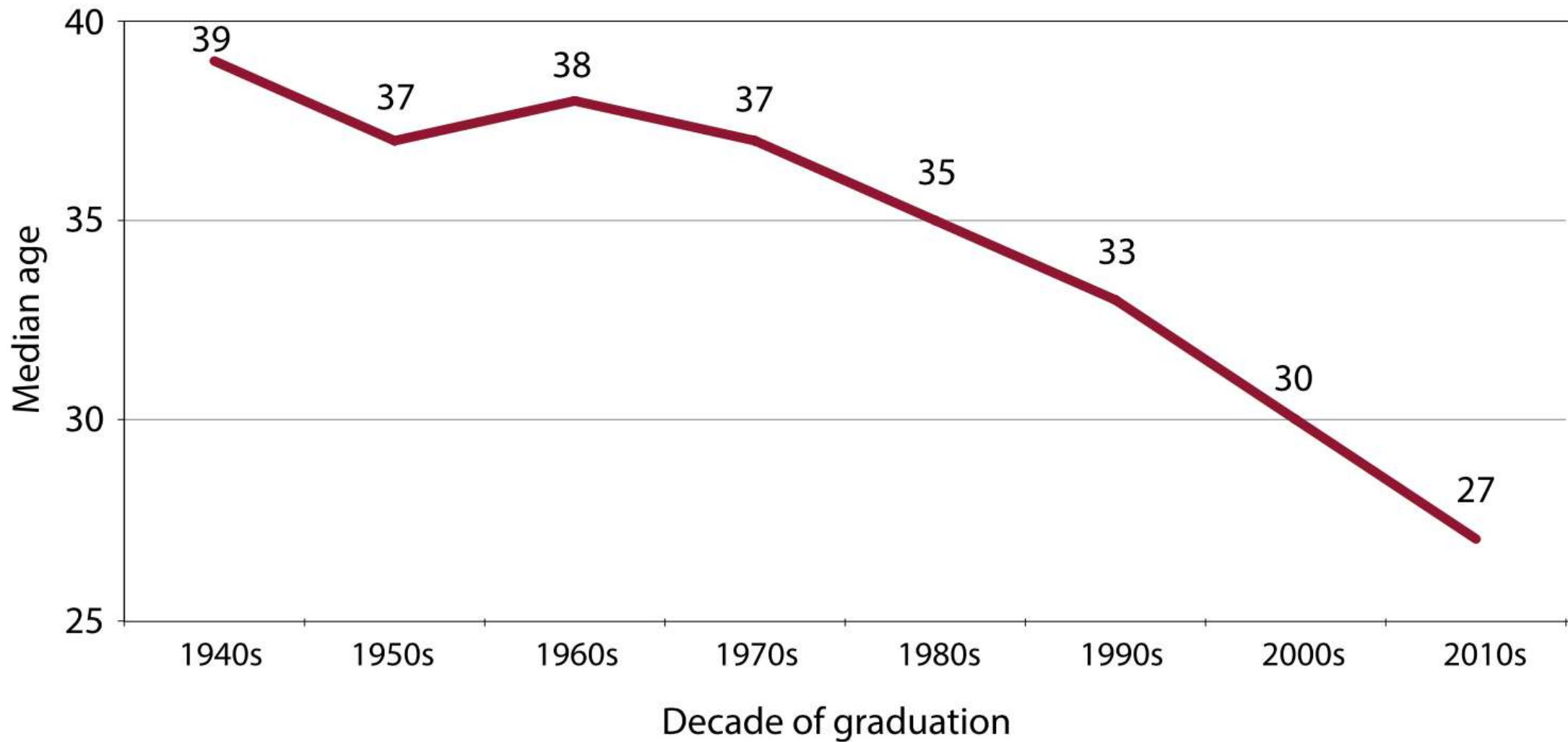
- MIT alumni launched:
 - **30.200** companies
 - that globally employ over **4.3 mln** people
 - and generate revenues for **1.9 trillion US\$** per year.
- How much is 1.9 trillion US\$?
- How much was Italy GDP in 2015?

* <https://innovation.mit.edu/assets/EntrepreneurshipInnovationMIT-8Dec2015-final.pdf> - Entrepreneurship and Innovation at MIT (2015)

Table 3. Serial Entrepreneurship by MIT Alumni, 1940s through April 2014

Companies founded (no.)	MIT alumni
1	61.7%
2	21.1%
3	9.1%
4	4.5%
5	2.1%
6+	1.5%

Figure 6. Median age of first-time MIT alumni company founders, by decade of graduation, 1940s through April 2014.



* These figures may reflect "right-censoring bias," i.e., an underestimation of the ultimate median age among recent graduates.

*Ok, cool, but aren't we
supposed to be here to
talk about M31?*

Quite simple – M31 is a team of around 40 people (mostly digital scientists; hardware, mechanics, firmware, software, mobile, cloud, AI, ...), spending their whole days trying to

“go beyond”.



Meet people – look for problems – see if we can help “our way”.





FLIGHT	STATUS	TIME
A 1001	ON TIME	10:00
A 1002	ON TIME	10:05
A 1003	ON TIME	10:10
A 1004	ON TIME	10:15

FLIGHT	STATUS	TIME
A 1001	ON TIME	10:00
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A 1004	ON TIME	10:15

VENEZIA
TODAY

A man in a white t-shirt and dark pants stands in the center of a crowded, blurred indoor space. He is holding a black VR headset with the word 'UQIDO' on it. The background is filled with many other people, mostly wearing white shirts, who are out of focus, suggesting a busy event or exhibition. The lighting is bright and even.

UQIDO

*“Why should I stay here
waiting my turn? Can
“**something else**” do the
queue while I take a
coffee?”*



*“Why can we just see
retina diseases when it’s
too late and can’t we
forecast them...
somehow?”*



center**v**ue



*“... and why has that machine to be so big and expensive?? Can't we make it **much smaller?**”*





*“What about if we made
a medical grade ECG a
portable device attached
to a smartphone **in some
way?**”*





*“What about if there was
a... sort of an airbag for
bikers?”*



*“We just do cameras... what if we launch a **kind of** intelligent surveillance platform made by scratch?”*

Ps. and, no AI, DL or GPUs at that time ☺

the intelligent armonia.

Con Albert inicia la nueva era de los sistemas de vídeo inteligentes.

Nace una nueva sinfonía concentrada en la cooperación armónica entre las unidades, porque cada elemento juega su papel de manera independiente con absoluta eficiencia.

Albert es intuitivo e interactivo, detecta y analiza automáticamente los eventos anómalos y los señala sólo si es necesario.

Es sinfonía tecnológica. Es armonía inteligente.





*“What about if we
kind of transform a
professional reflex
camera in an entire
photo studio?”*

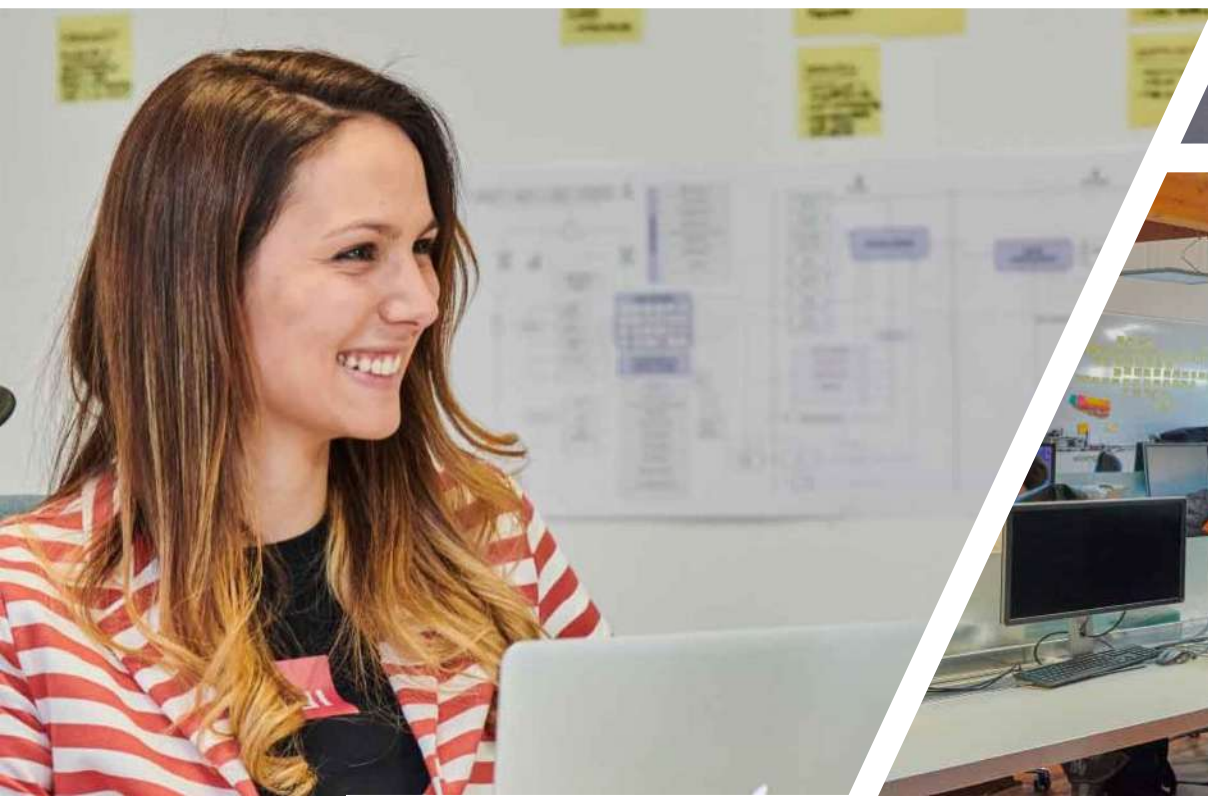


Manfrotto



*“Why can’t a looming machine be able to
“**somehow understand**”
there is a quality problem
on the textile while it
is making it?”*







mei

with You. Beyond.



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DIPARTIMENTO DI MATEMATICA "TULLIO LEVI-CIVITA"

Thanks



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