



The Reduction of COVID-19 Transmission Risk as a Driving Force for Pedagogical Innovation

Jorge M. Ascensão Oliveira

| www.ff.up.pt/jorgemao

Prof. Neuroscience and Physiology
President of the Pedagogical Council
University of Porto - Faculty of Pharmacy

U.PORTO

66 million years ago ...

~ 66 weeks ago ...



Cartoon by Oliveira JMA using Apple emoji

Introduction - *A Driving Force for Pedagogical Innovation*

Passive Recipients	→	Active Learning
Procrastination	→	Distributed Assessment
Short-Term Memory	→	Authentic Assessment :: Skills
Opportunity Bias	→	Equal Opportunities
Digital Exclusion	→	Digital Literacy



Co-funded by the
Erasmus+ Programme
of the European Union



Topics - *Innovation emerges from identifying and solving problems*

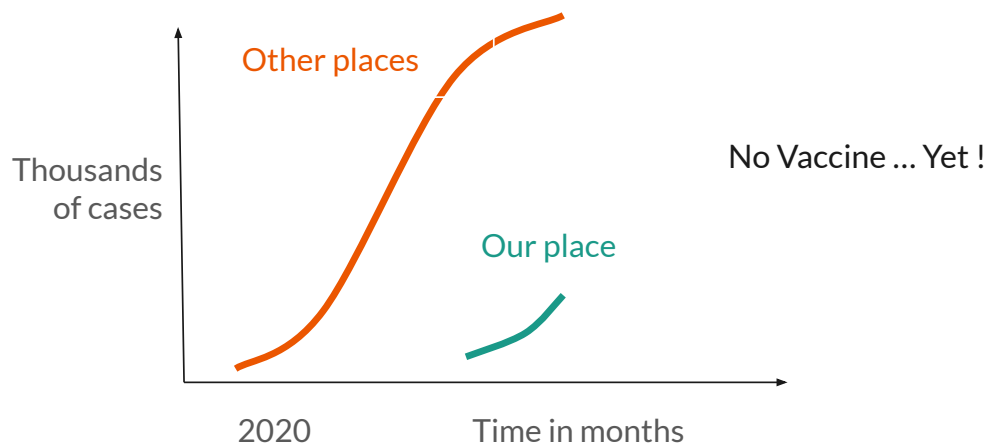
- Early signs
- Strategies
- Easier problem - *Hybrid teaching*
- Hard problem - *Hybrid assessment*
- Cooperative solution
- Rewards



Co-funded by the
Erasmus+ Programme
of the European Union



Early Signs - *A long-lasting disruption*



Co-funded by the
Erasmus+ Programme
of the European Union



Strategies - *Ensure continuity and inclusion*



Easier Problem - Hybrid teaching (Local + Remote)

→ Isolation, Lockdowns, Shifts

Synchronous activities

Lectures & Practicals
In campus + Zoom
Groups: Breakout rooms



Laboratory
“Masquerade in Shifts”
Zoom + Virtual Lab Expt.
Software controls equipment; Data analysis



Asynchronous activities



e-Learning platform (Moodle)
Get contents, Deliver assignments
Interact in Forums; Formative tests

Selecting or Producing videos



Panopto



Hard Problem - Hybrid assessment (Local + Remote)

→ Isolation, Lockdowns, No flights

Complex Ethical & Technical problems

Equity

Equal strategy, synchronous



Why?

More Fraud

Proctoring :: audiovisual

Hacking :: software control

> 90%: chose Remote during lockdowns. Other 10%: mostly 1st year;
Saved 1000s mobilities; Avoided the consequences of Procrastination.

Privacy

Remote NOT mandatory:

Informed consented choice!

“It’s NOT SAFE”

Why?

“Because it’s NOT SAFE”

Alternative for Isolation or Lockdown?

Procrastination

Technophobia

Understanding :: Explain + Train + Support

Responsibility :: Share

Trust !

Cooperative Solution - *Steps towards Hybrid assessment*

Involvement

Teachers
Students
Staff

Rules

Assessment modalities
Freedom of choice
Academic Integrity

Instructions

Integrity statements
Authentication
Moodle + Safe Exam Browser
Remote Proctoring via Zoom
Prevent remote hacking
Incident management
Fraud reporting

Training & Support Network

Trained staff, students, teachers/ invigilators

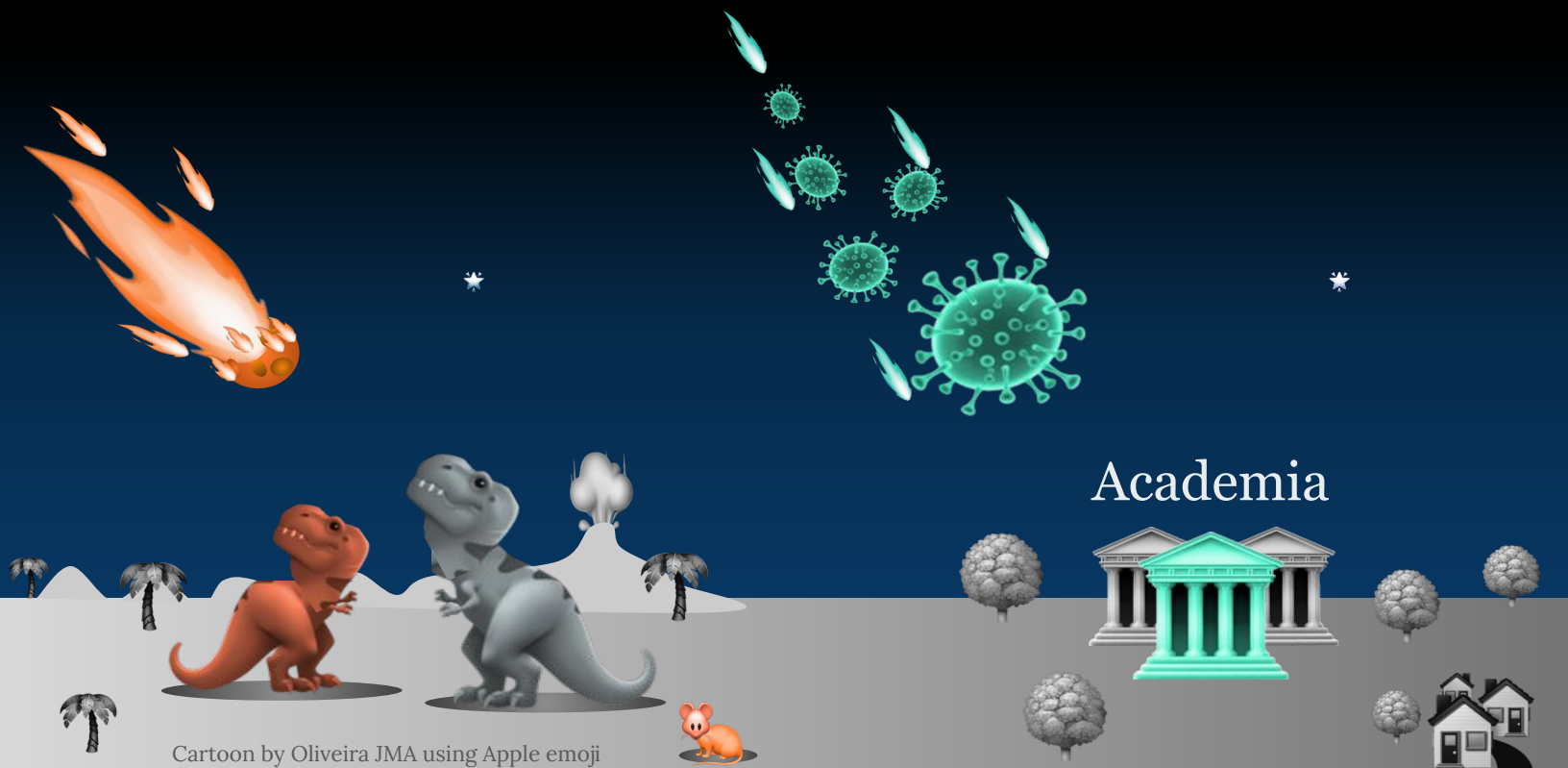
GET-ProS - *Generous Empathic Technophilic Problem Solvers*

Rewards - *The Faculty gained*

- **Strategic Thinking** - *roots vs. chains, prepare the future*
- **Inclusiveness** - *no student left behind*
- **Proactivity** - *less harmed by procrastination*
- **Extended Horizons** - *Virtual mobility*
- *Internationalization*
- *Continuous education*
- *Special needs*
- *Dual systems*

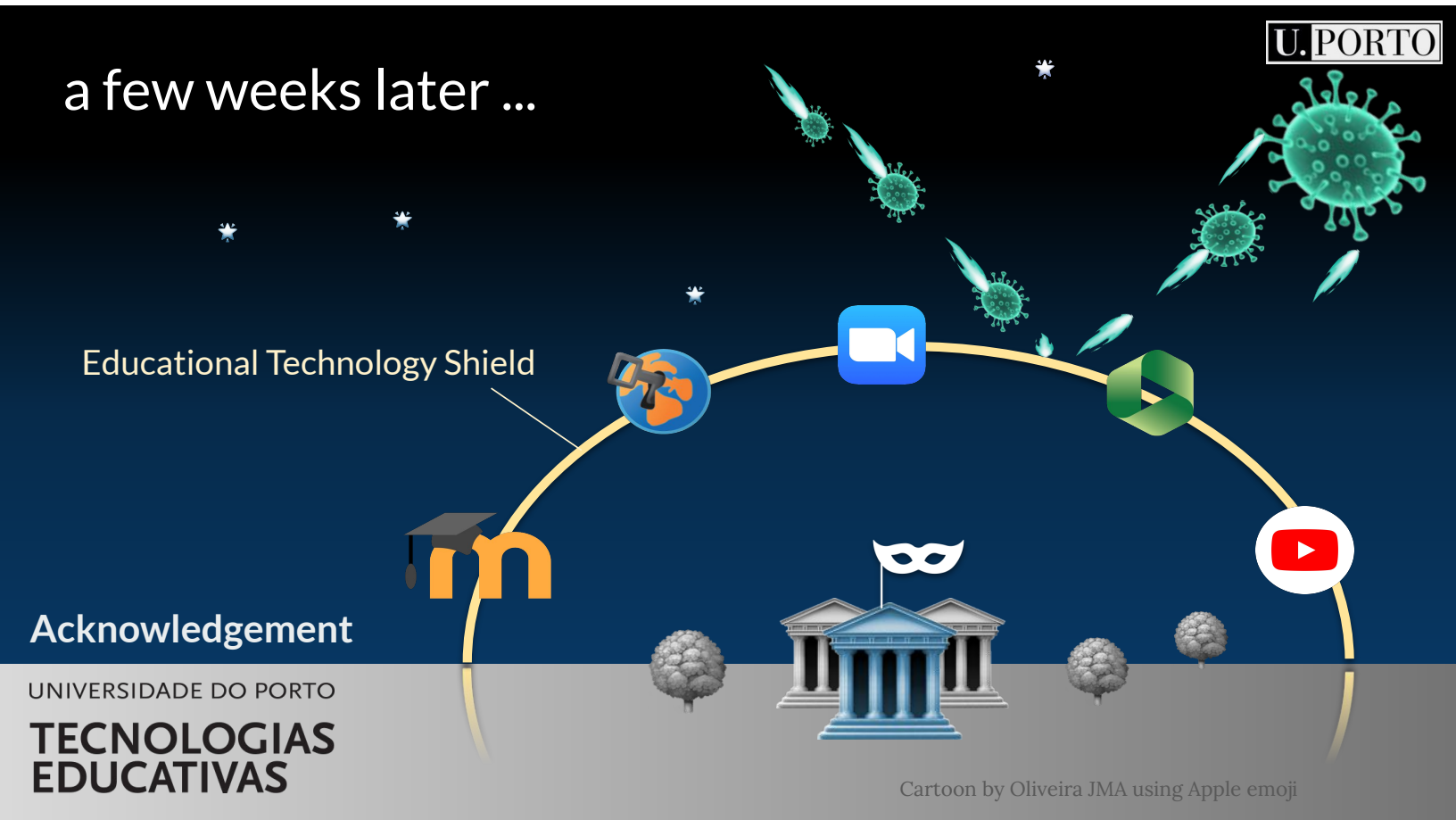
66 million years ago ...

~ 66 weeks ago ...



Cartoon by Oliveira JMA using Apple emoji

a few weeks later ...



Educational Technology Shield

Acknowledgement

UNIVERSIDADE DO PORTO
TECNOLOGIAS
EDUCATIVAS

Cartoon by Oliveira JMA using Apple emoji