

# The Teacher ~~is~~ of the Future

Prof. dr. ir. [Alexandru Iosup](#),  
representing a whole team\*



# 1994: How to spend 1 Billion?

A: **IT** for education!

**ADEVĂRUL** marți, 8 martie 1994

## ÎNVĂȚĂMÂNT

### "România trebuie să devină o putere" - consideră un câștigător (ne)obișnuit -

Alexandru Iosup are 14 ani (născut în 12 iunie 1980) și este elev al Școlii nr. 19 din București. Mic la stat, dar mare la suflet, Alexandru este unul din cei patru câștigători ai concursului. „Ce să faci cu un miliard” inițiat de MTS. Cei 50 de mii de lei primiți ca premiu al revistei „Modelism” i-a cheltuit cu „cap”, luându-și o minge de fotbal **adeverată** pentru că este microbist ca și ca idoli pe Maradona și Van Basten. În privința banilor, copilul are o neașmerire: „Am primit exact 42 de mii lei. De ce s-o fi impozitând și premiul, nu înțeleg”. Nici noi nu pricepem, dar asta e. Oricum, din ce i-a rămas, își va lua ceva pentru calculatorul pe care de curând (după premiere) i-a primit ca dar de la părinți. Jubesc calculatorul și am câștigat acest concurs tocmai propunând celor mari ca din miliard să cumpere 1.000 de calculatoare pentru a se realiza în școli o rețea națională”, spune Alexandru.



vine de la faptul că s-ar simți sărac.



2004: How to improve education?  
A: Make **games** coursework!



# 2014: How to spend 1 Billion?

## A: ICT and Gamification for education!



Q: What is **gamification**?

A: The use of techniques designed for gaming in non-gaming settings, e.g., in education.



<http://goo.gl/v97zSW>



# What Did I Learn?

## The Teacher Counts!

- **Knowledge**
  - Know the latest greatest developments in the field
  - Students trust knowledge
- **Flexibility**
  - Mix in things that students want and have to know
  - Students like variety
- **Adaptability**
  - Different student types
  - Different content types
- **Passion and enthusiasm** (preferably contagious)
  - Students appreciate enthusiasm (even if they don't share it)

# The Current Situation: We're In This Together

- **New** generation of students, including international, but do we understand them?
- **New** ambition of universities, but cannot select students
- **More** demands from industry, but personal skills (society+personal) also matter
- **Old attitude about the task:**  
**The Teacher can just do it!**



<https://quotablequoteunquote.files.wordpress.com/2008/08/walkingcomputergeek.jpg>

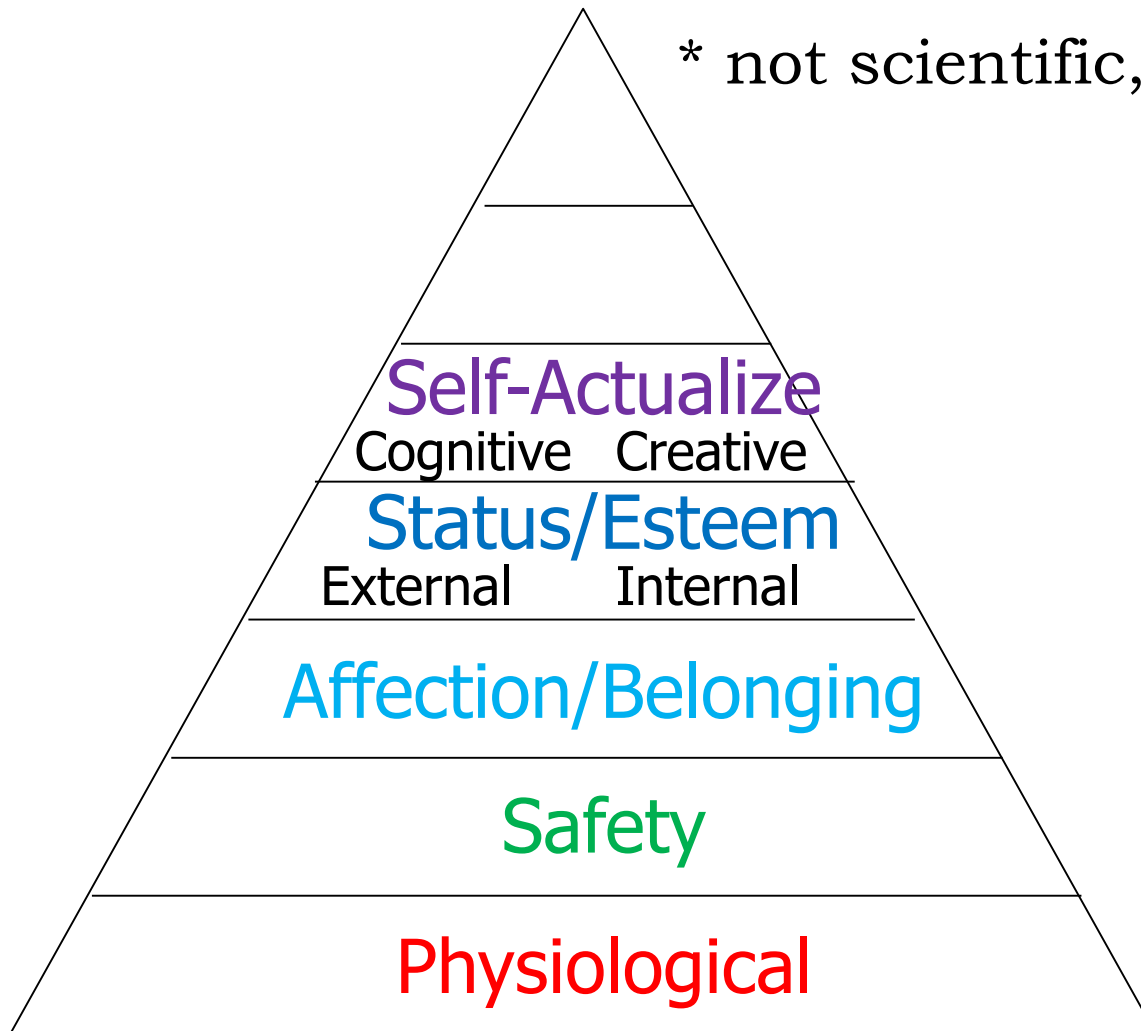
# But Teachers Are Human...

## What Do Teachers Need?

- An intuitive approach
- I do not have proof, data, or even a basic scientific method

# Maslow's Hierarchy of Needs\* (1943)

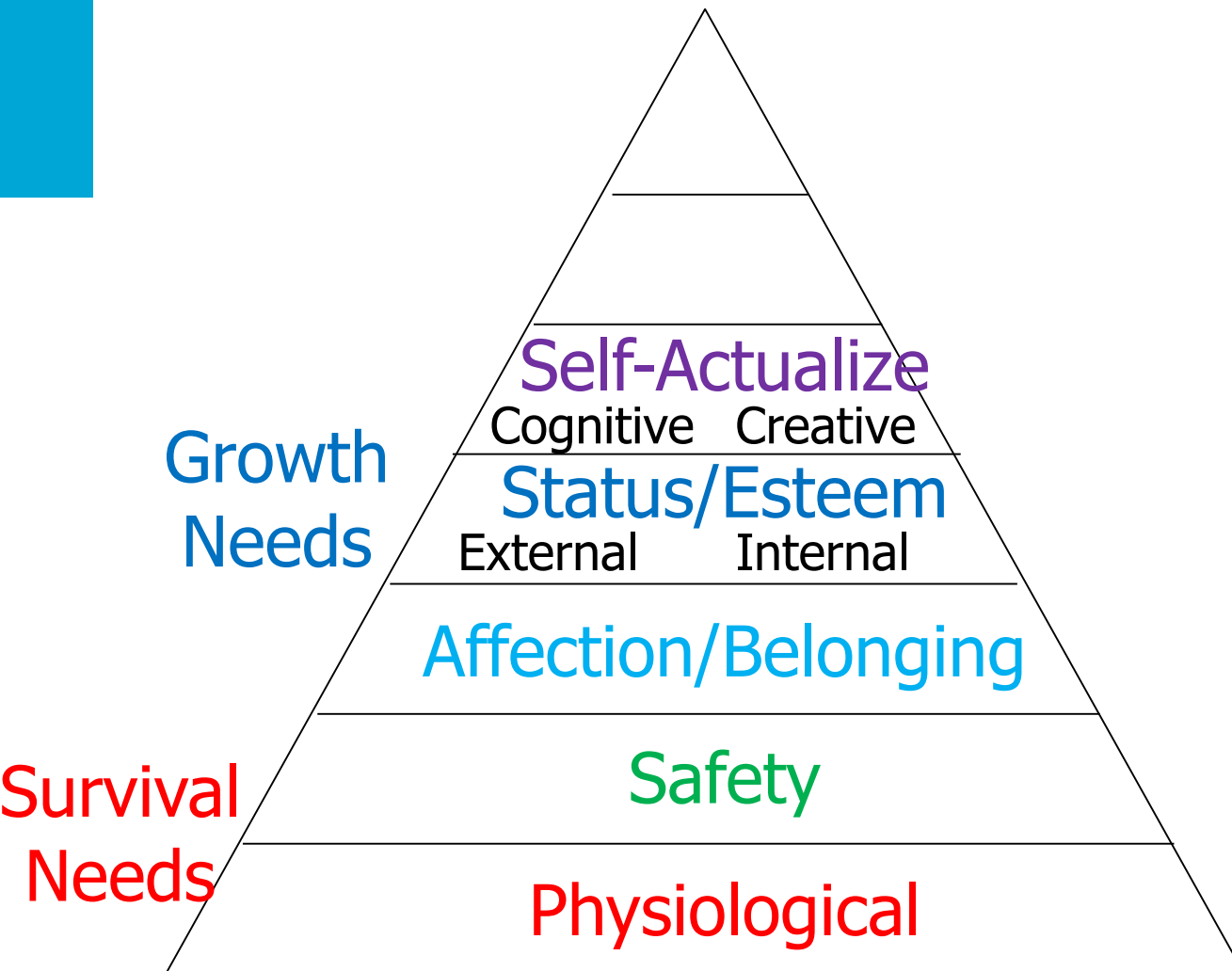
\* not scientific, likely invalid



Abraham Maslow



# Maslow's Hierarchy of Needs (1943)

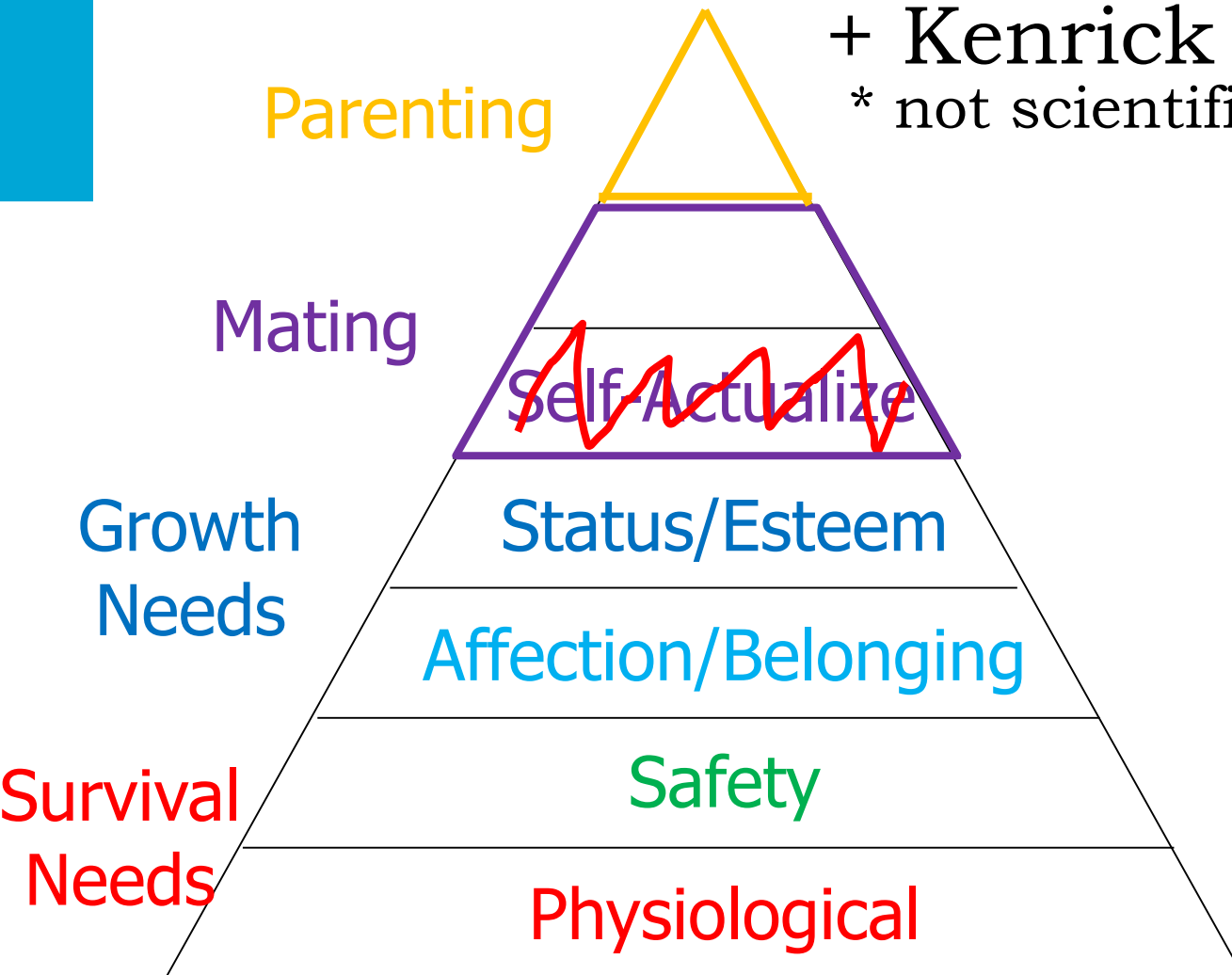


Abraham Maslow

# Maslow's Hierarchy of Needs\* (1943)

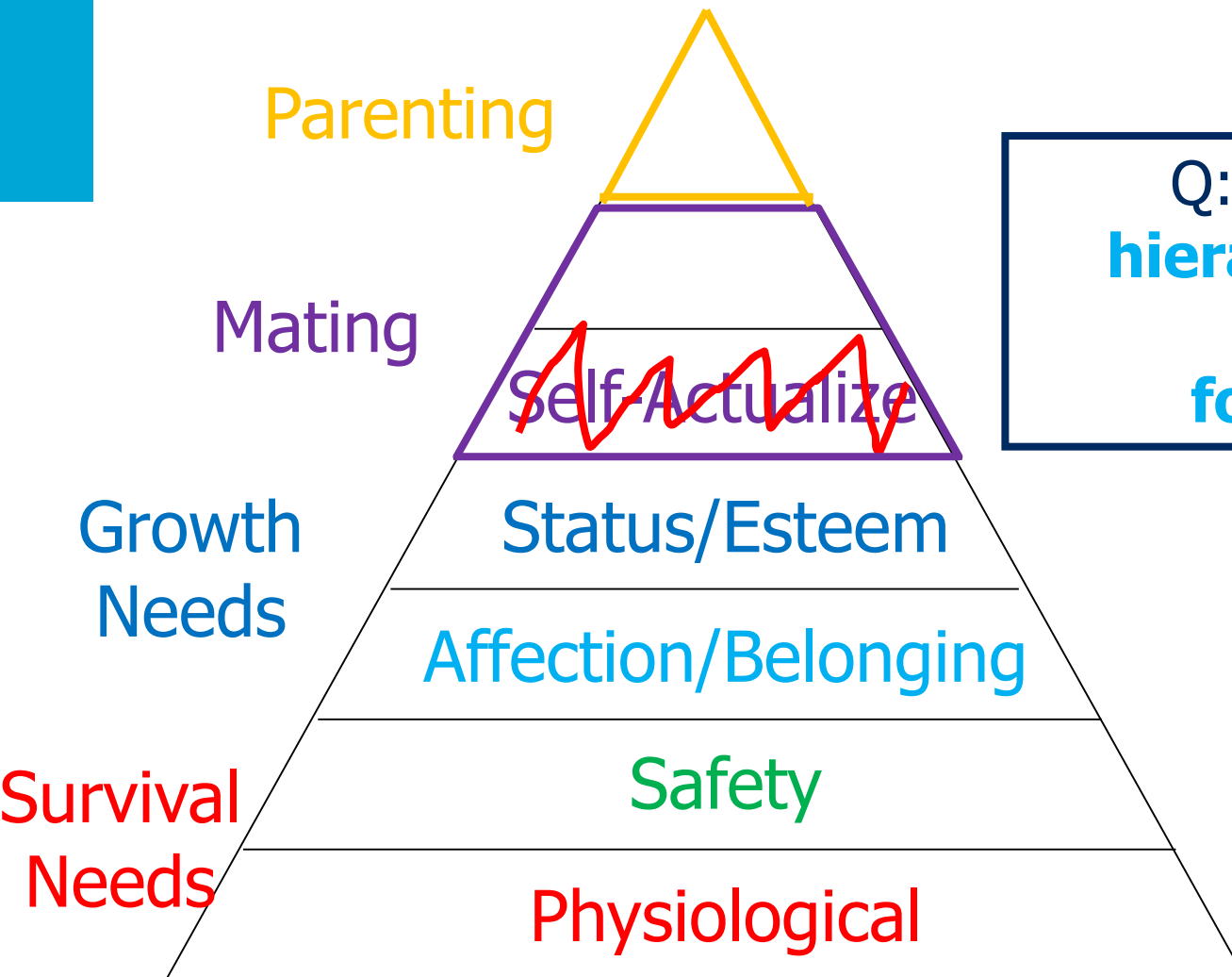
+ Kenrick et al.\* (2010)

\* not scientific, likely invalid



Abraham Maslow

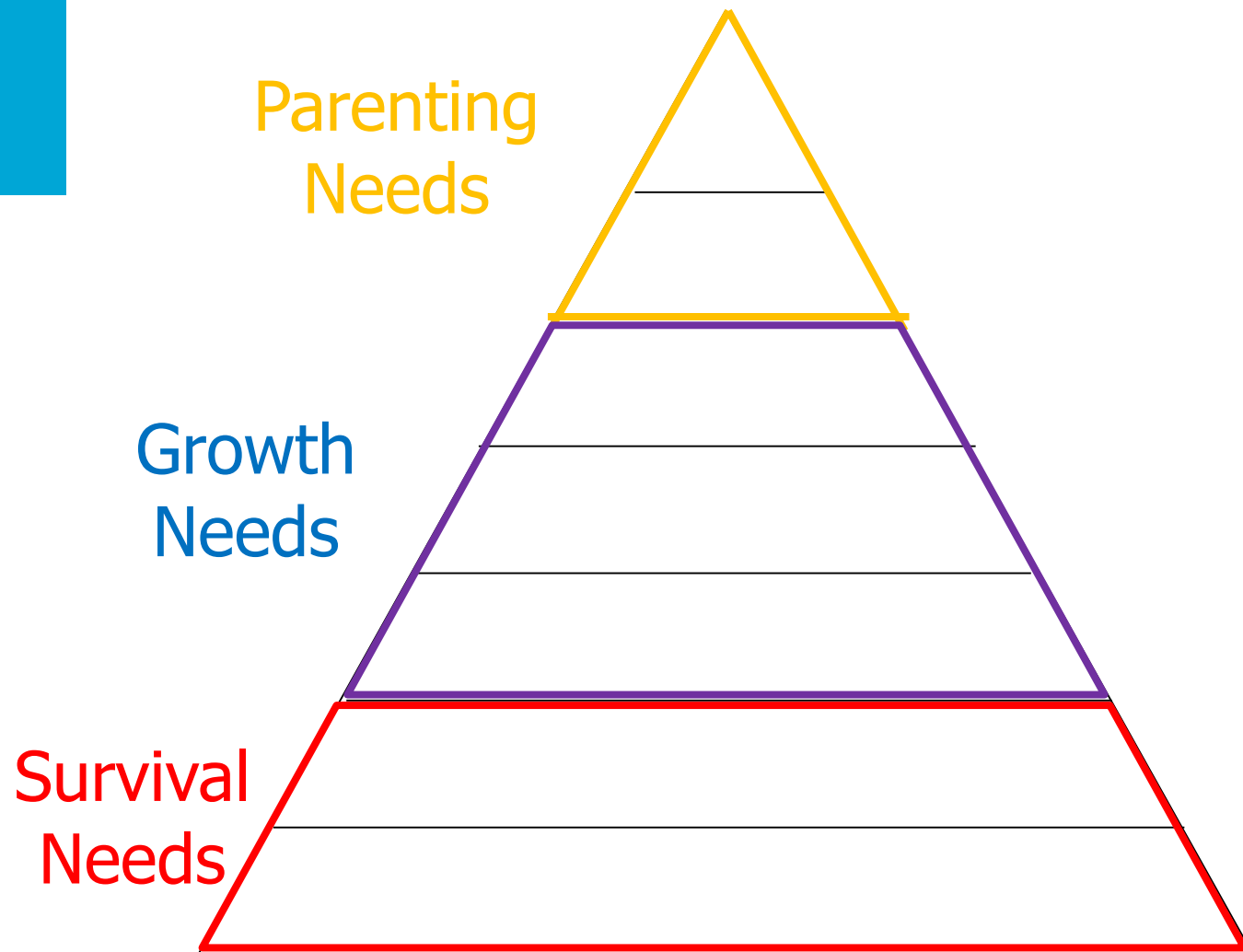
# Exercise: The Imitation Game



Q: How would **a hierarchy of needs** look like **for teachers**?

# The Hierarchy of Needs for Teachers

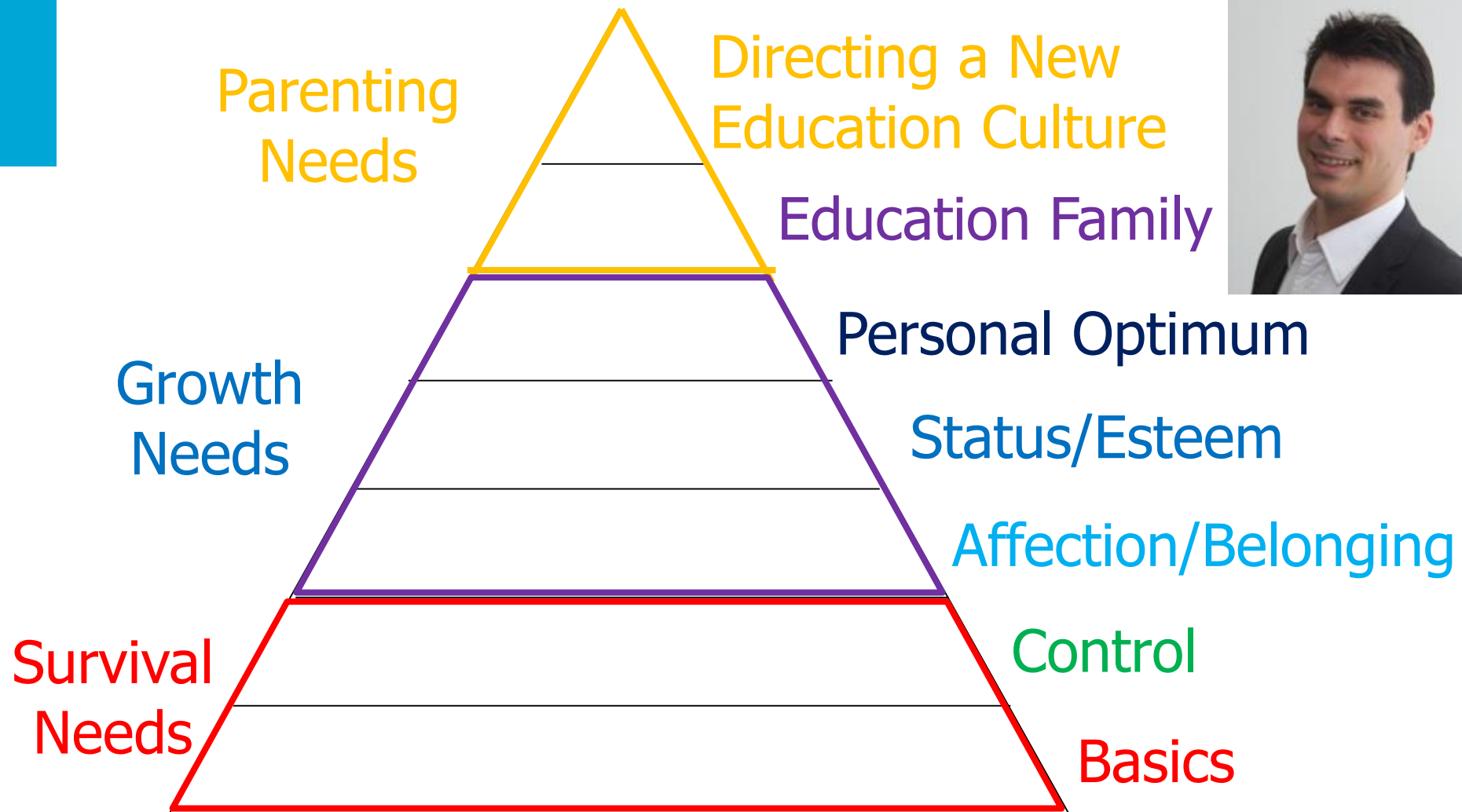
## Alexandru Iosup (2015)





# The Hierarchy of Needs for Teachers

## Alexandru Iosup (2015)



# The Hierarchy of Needs for Teachers (2015)

- We all know about the basics of teaching

- **But:**

- Need to improve the BKO, especially for new conditions
- Need a “diurnal” cycle (sleep=research/valorization/\*)
- Need much better content-authoring **tools**, especially for new conditions (MOOCs, blended, ...)



Survival  
Needs

Basics



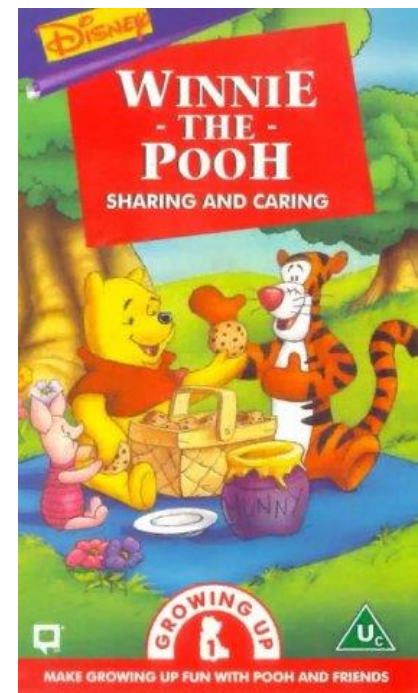


# The Hierarchy of Needs for Teachers (2015)

- Social needs—success is obtained as a team
- **But**
  - Need a culture of “sharing is caring”
  - Need a culture of professional education
  - Need **tools** for management of course teams (Blackboard can be too slow, Facebook could break privacy laws)

Growth  
Needs

Affection/Belonging





# The Hierarchy of Needs for Teachers

(2015)

- Internal feeling of mastering education
- External status, recognition, glory

- **But**
  - Need **tools** for detailed learning analytics
  - Need governance to recognize value of education

SELF-ESTEEM DETECTIVE

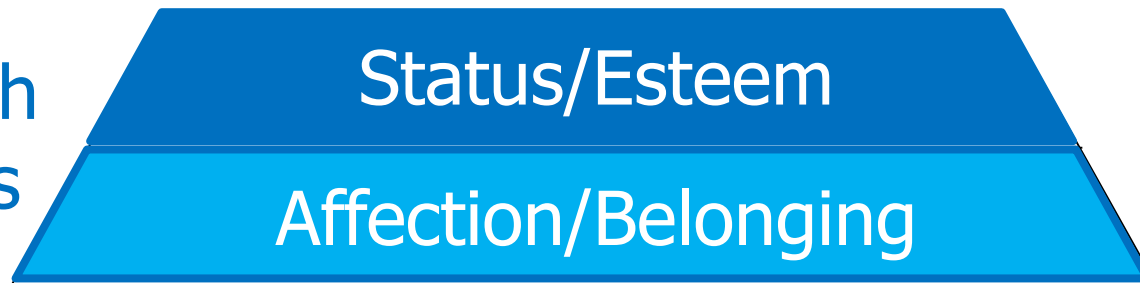


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mimianduncie.com

Growth  
Needs

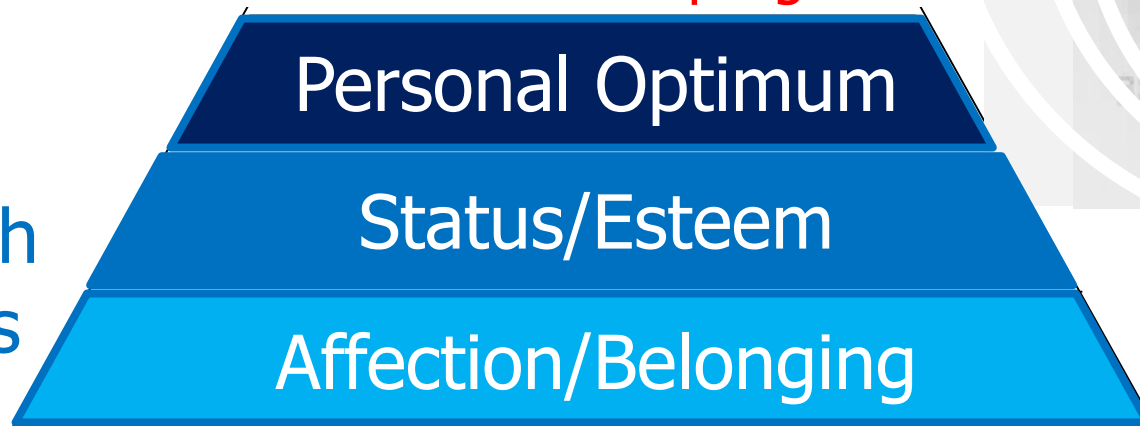


# The Hierarchy of Needs for Teachers (2015)

- Learn and Create new education techniques
- **But**
  - Need to formulate personal vision
  - Need environment to create
  - Need **tools** to validate progress



Growth  
Needs



# The Hierarchy of Needs for Teachers

(2015)

- Teach the teachers!
- **But**
  - The Education Genealogy Project
  - Need **tools** to advise and collaborate with friendly teams
  - Need **tools** for detailed analytics
  - Need **governance** support



Parenting  
Needs

Education Family

# The Hierarchy of Needs for Teachers (2015)

- Establish **a new education culture**:
  - In research, **1,000 citations is the golden standard**
- **But**
  - Need **tools** to create at large scale
  - Need **governance** support and **involvement**

HikriArtst.com





# The Hierarchy of Needs for Teachers

## Alexandru Iosup (2015)

