

# The Future of Education

IN THE WORKPLACE

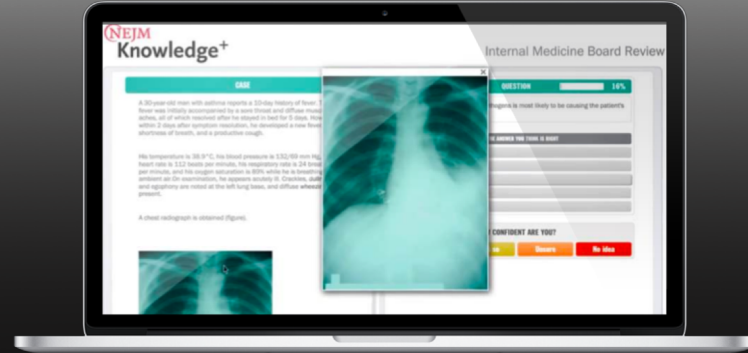
**Ulrik Juul Christensen, MD**  
Executive Chairman, Area9 Group



# Modern Generation of Adaptive Learning



## SMARTBOOK®



# AREA9 LYCEUM

- Over **20 years of research** in human factors, learning science and computer science
- Has powered the learning of over **13m students** in over **2,000 products**, that have collected **billions of learning data-points** – and most importantly:

**The expertise in what really impacts learning**



AREA9  RHAPSODE™

4<sup>TH</sup> GENERATION ADAPTIVE  
FIRST GENERATION 4D



50%

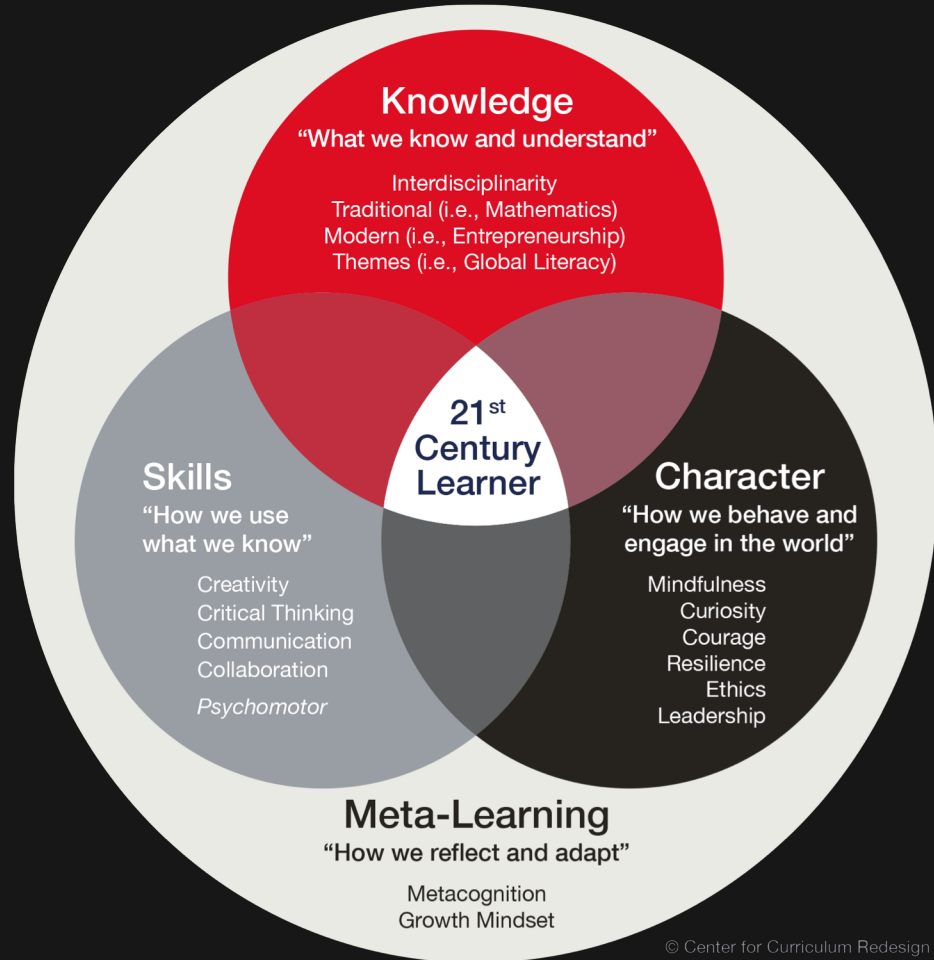
98%

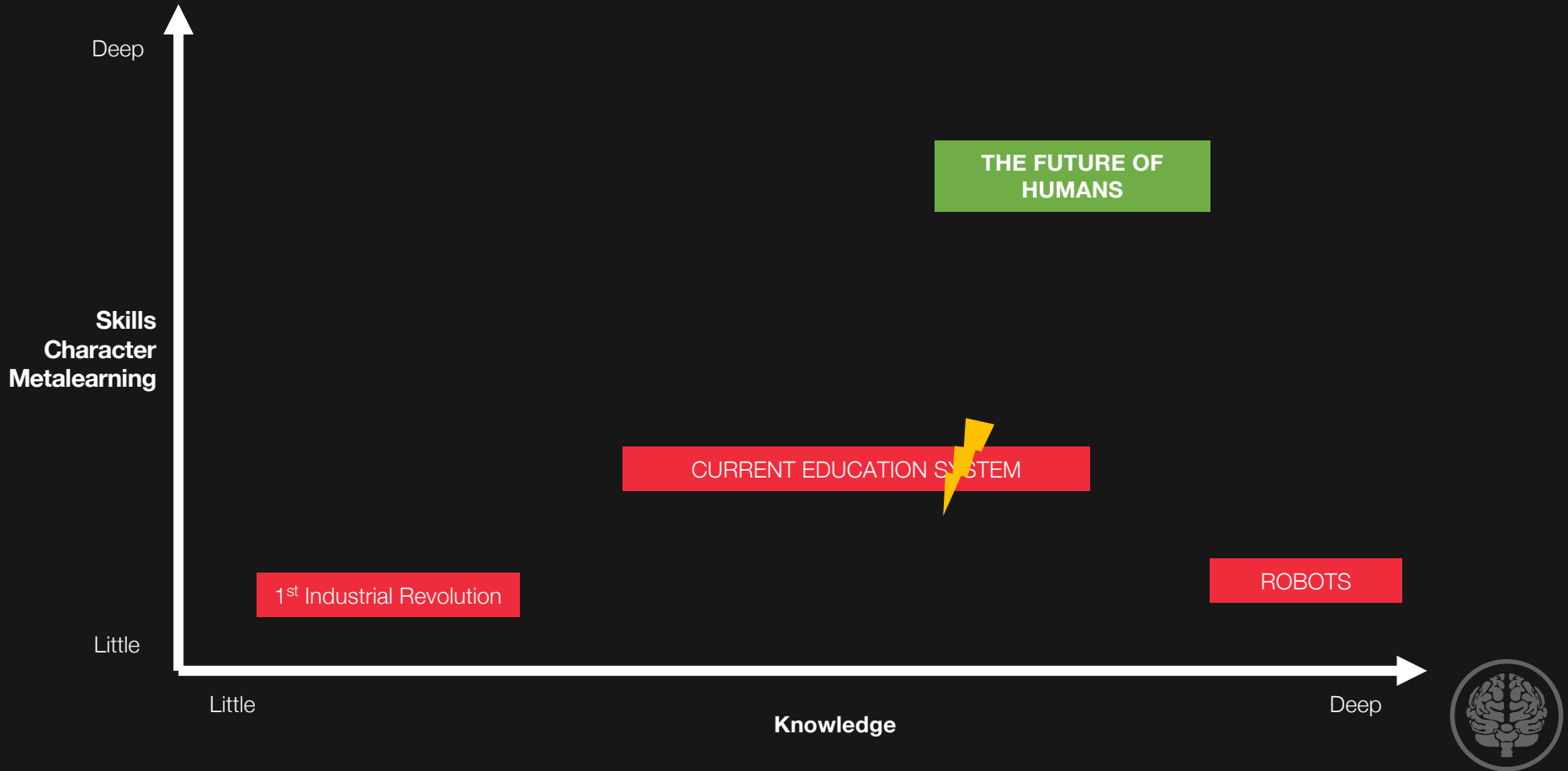
22%

100%











# 4D LEARNING





# DIFFERENT IMPLICATIONS

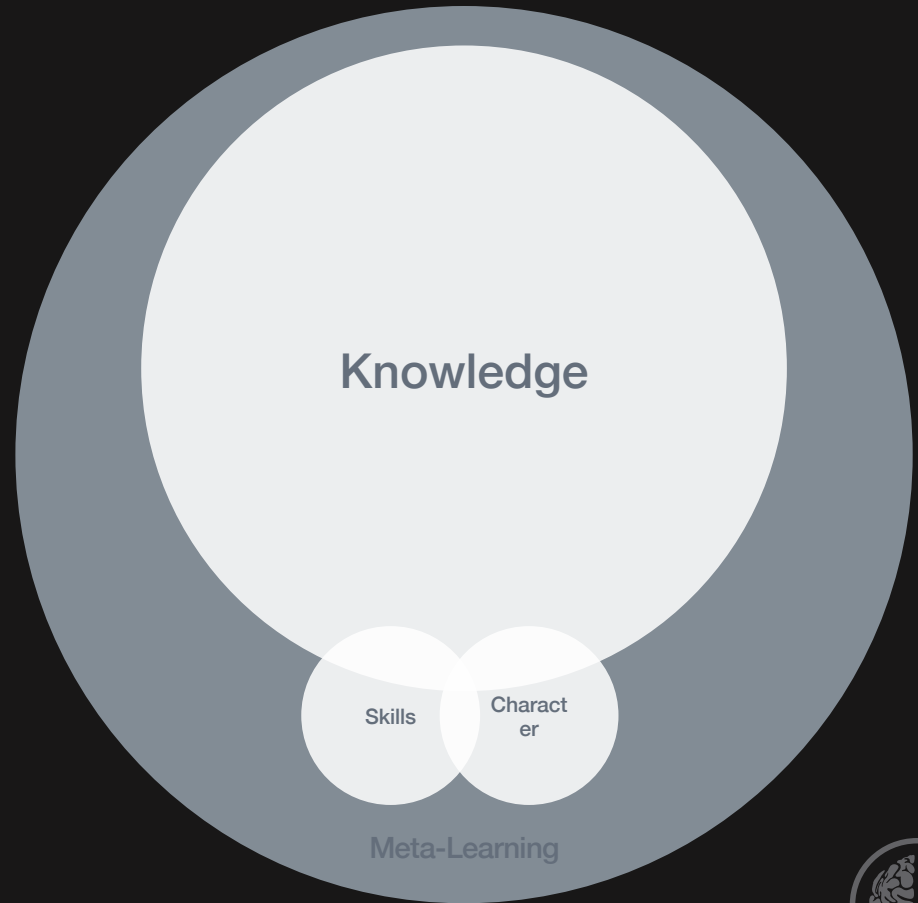
	Knowledge	21 <sup>st</sup> Century Skills
Corporate & Vocational		
Higher Education		
Middle & High-School		
Lower School		





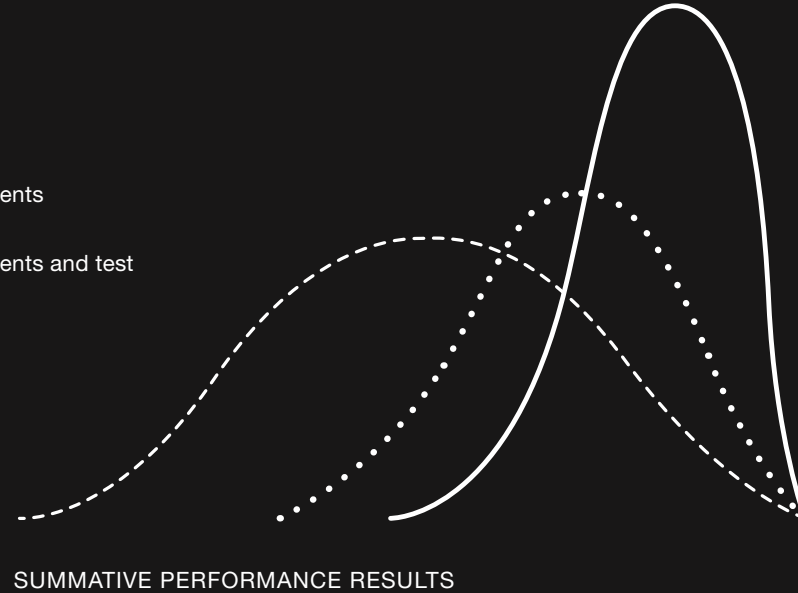
## TODAY

Knowledge acquisition and practice often completely consumes all time and resources – leaving little to no room for the other three dimensions.



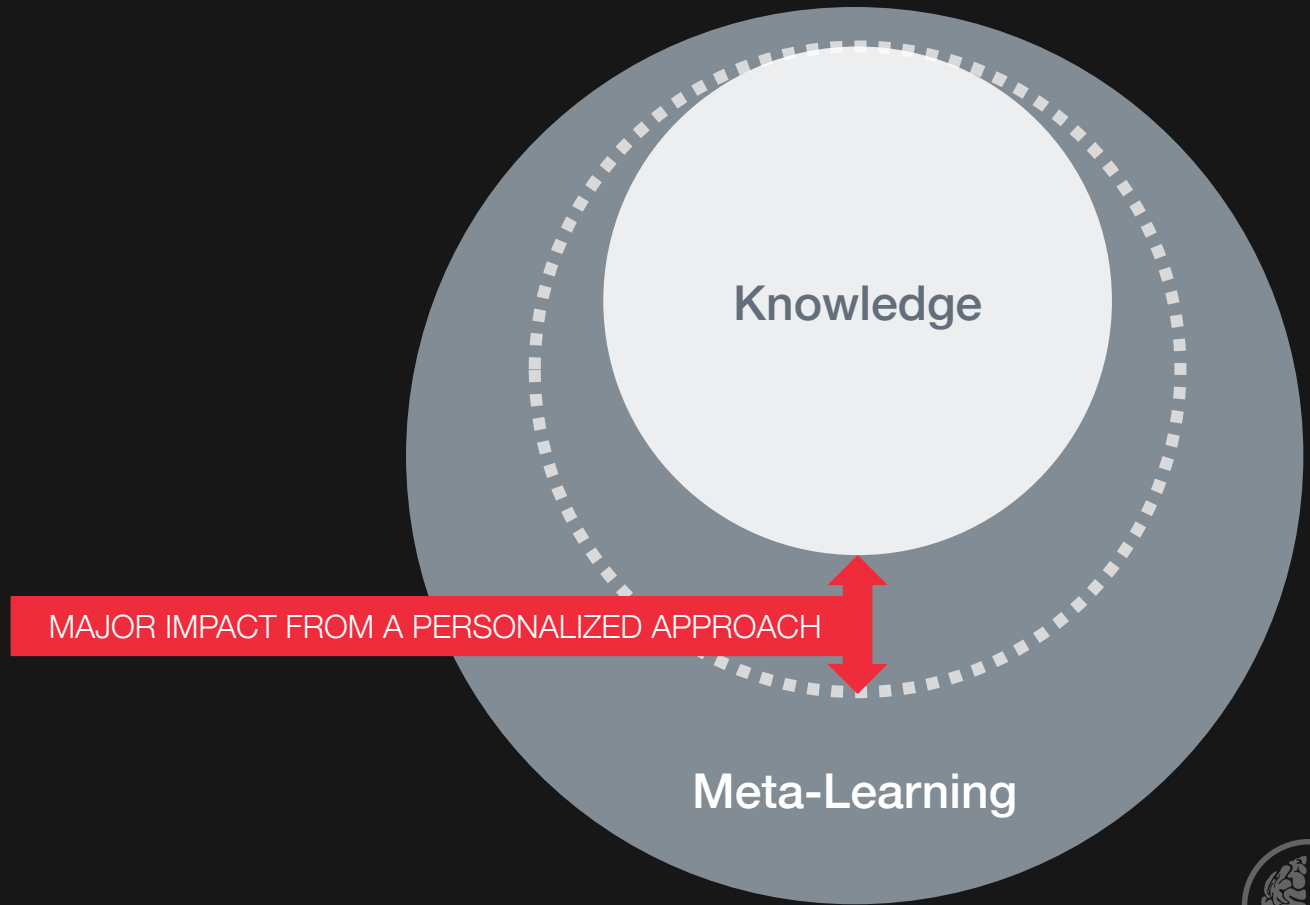
## BLOOM'S 2-SIGMA PROBLEM

- Class teaching with many students
- ..... Class teaching with many students and test
- ~ Personal guidance



Benjamin Bloom proved that the effect of a 1:1 teacher/student situation has a standard deviation of 2 (2-sigma ) or 98% better compared to traditional class teaching. Adaptive learning ensures advantages of personal guidance at a large scale and a low price.

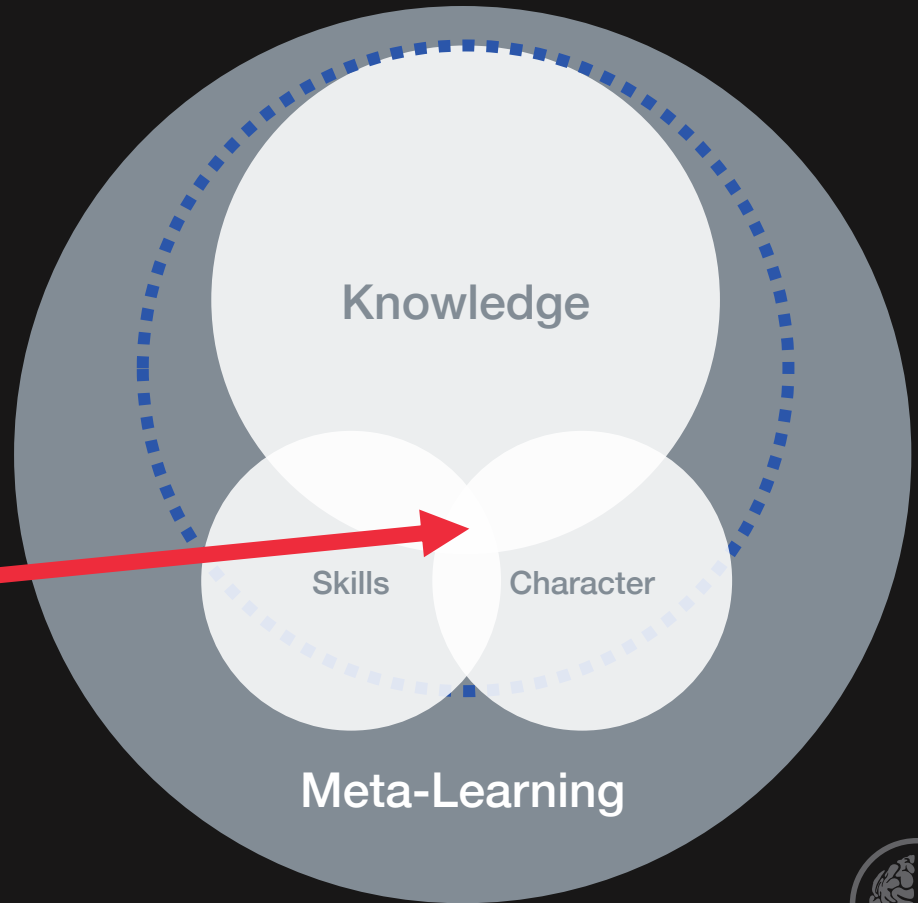




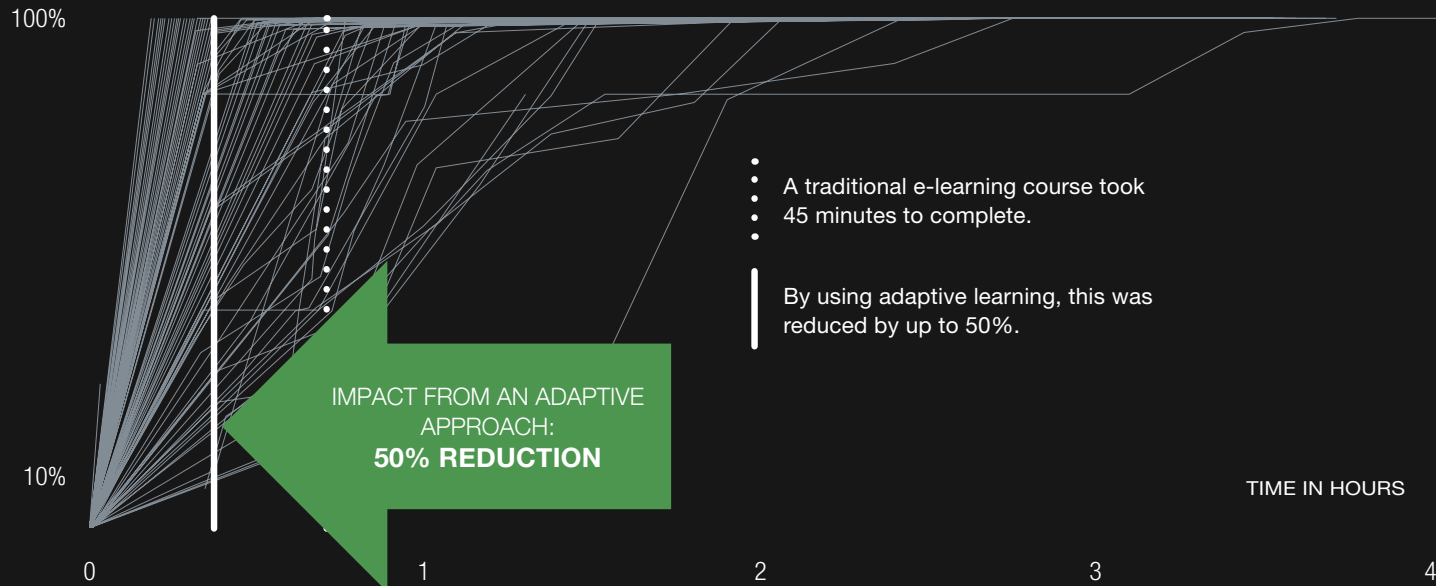
## STEP 2

Higher levels of automaticity and useful knowledge provide the foundation for **relevant and effective practice** of 21<sup>st</sup> century skills, character development and meta-learning.

Collaboration  
Communication  
Critical thinking  
Creativity



## ADAPTIVE LEARNING REDUCES THE TIME SPENT ON LEARNING



Reduction in time achieved by using adaptive learning instead of traditional digital resources.



DEVELOPING EMPLOYEES

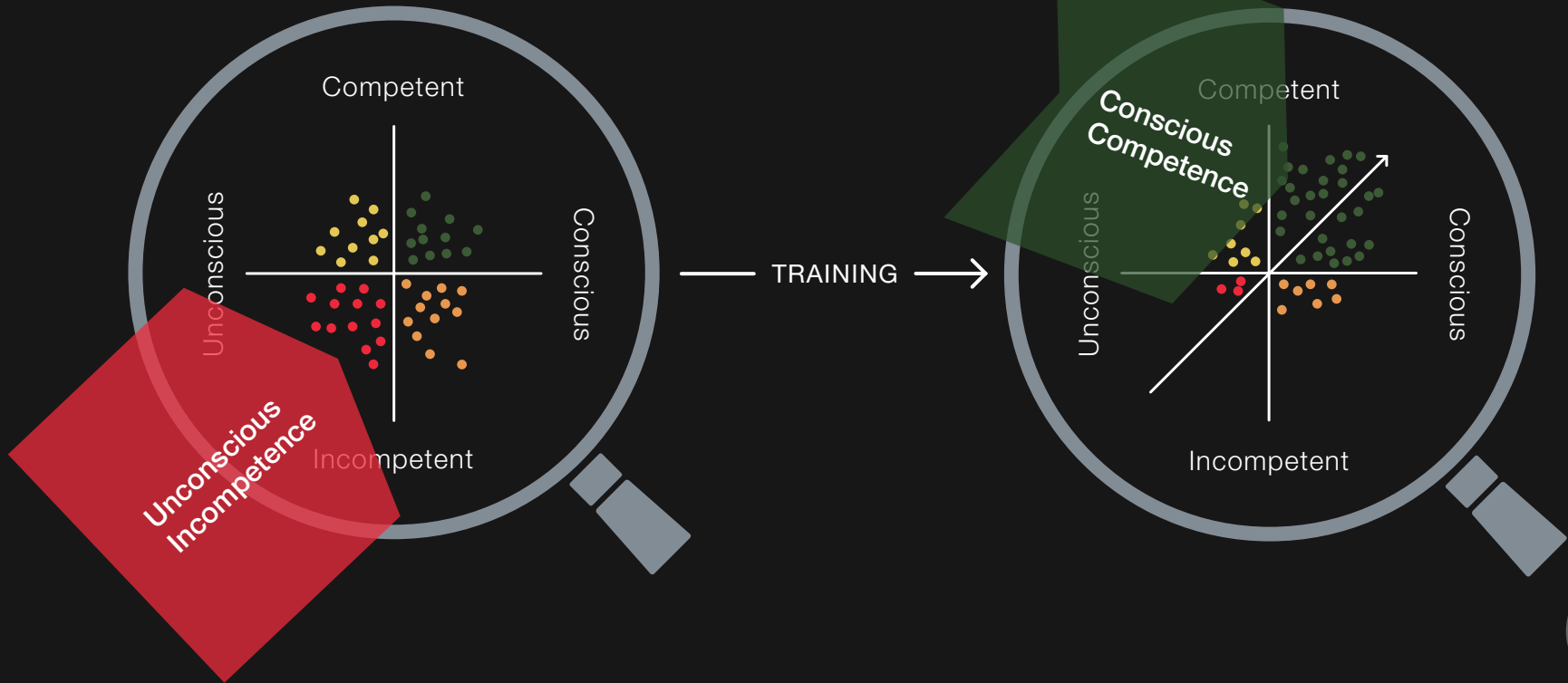
# How to Teach Employees Skills They Don't Know They Lack

by **Ulrik Juul Christensen**

SEPTEMBER 29, 2017



# CONSCIOUS COMPETENCE



# AUTOMATICITY

Automaticity is the ability to do things without occupying the mind with the low-level details required, allowing it to become an automatic response pattern or habit. It is usually the result of learning, repetition, and practice.





50%

WORLD ECONOMY

98%

EFFECT OF  
PERSONALIZATION

22%

UNCONSCIOUS  
INCOMPETENCE

100%

CAN BE REACHED

