

# Artificial Intelligence in ELT: Utopia or dystopia? An exploration of AI's role in ELT and the implications for the future

Mark Osborne, QUALIFY (Athens, Greece)

**8<sup>th</sup>** Future of English  
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## Artificial Intelligence in ELT: Overview

**Part: 1 Historical / Past**

**Part: 2 Currently / Present**

**Part: 3 Tomorrow / Future**

**Questions ? / ??**



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Overview: Mentimeter anonymous polling

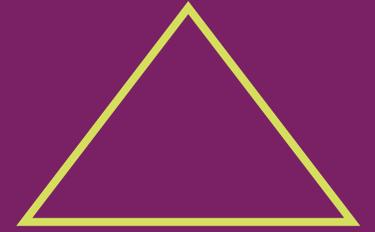
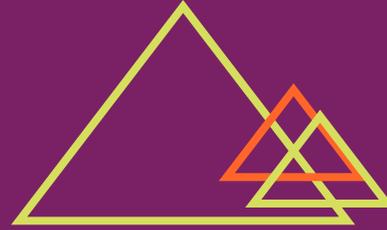
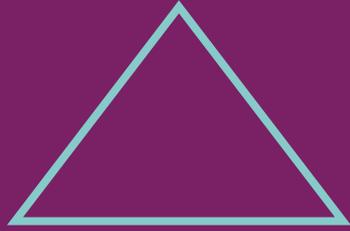
<https://www.menti.com/>

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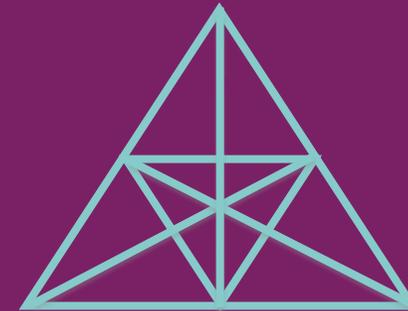
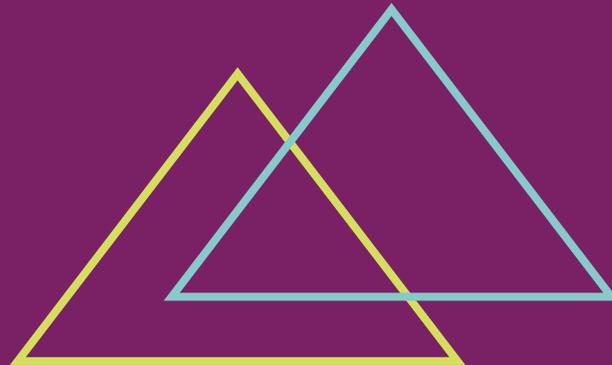
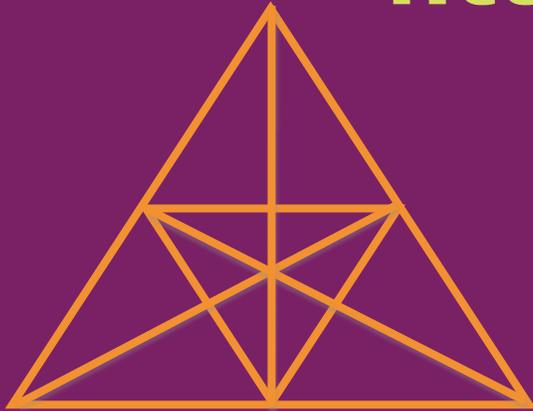
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# Overview: Mentimeter anonymous polling



<https://www.menti.com/>

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Mentimeter anonymous polling

**What do you do in ELT?**



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Mentimeter anonymous polling

**Your level of knowledge of AI in...**



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**How would you describe AI?**



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# Part 1: Historical / Past



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## Part 1: Historical / Past | General

**1968: HAL Kubrick's 2001: A Space Odyssey**

**1996: IBM's Deep Blue–Kasparov**

**2011: IBM's Watson on Jeopardy | Apple's Siri**

**2014: Turing Test passed | Amazon's Alexa**

**2016: Google's AlphaGo**

**2017: Google Assistant**

**2019: OpenAI's ChatGPT2 | Deep Fakes**

**2022: OpenAI's ChatGPT3 | Google LaMDA chatbot**



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**Part 1: Historical / Past | ELT EdTech**

**Computer-Assisted Language Learning (CALL)**

**Intelligent Computer-Assisted Language Learning (iCALL)**

**Multimedia / CD-ROM**

**Worldwide Web (WWW)**

**Interactive Whiteboard (IWB)**

**Mobile-Assisted Language Learning (MALL)**

**Robot-Assisted Language Learning (RALL)**



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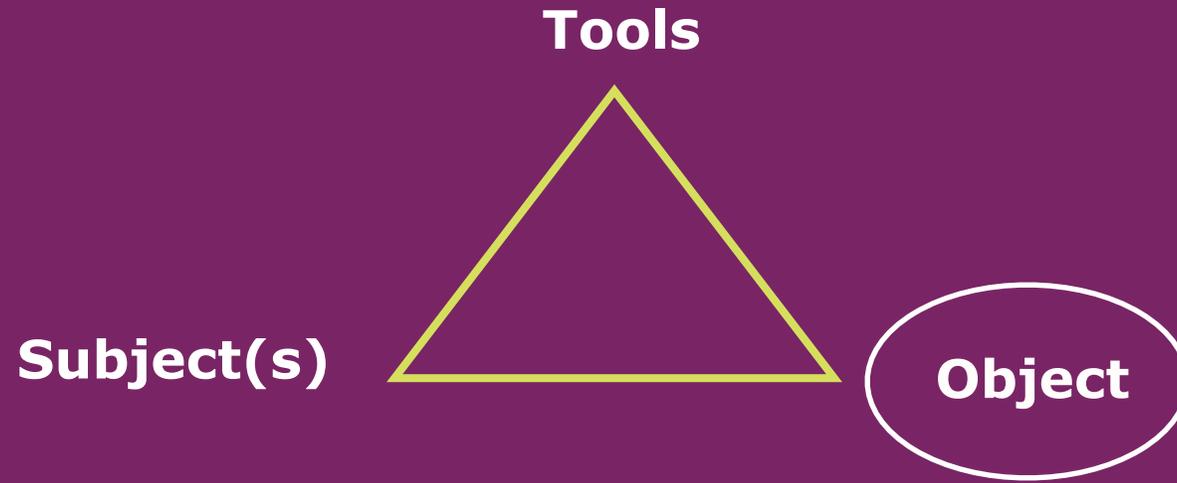


## **Part 2: Currently / Present**



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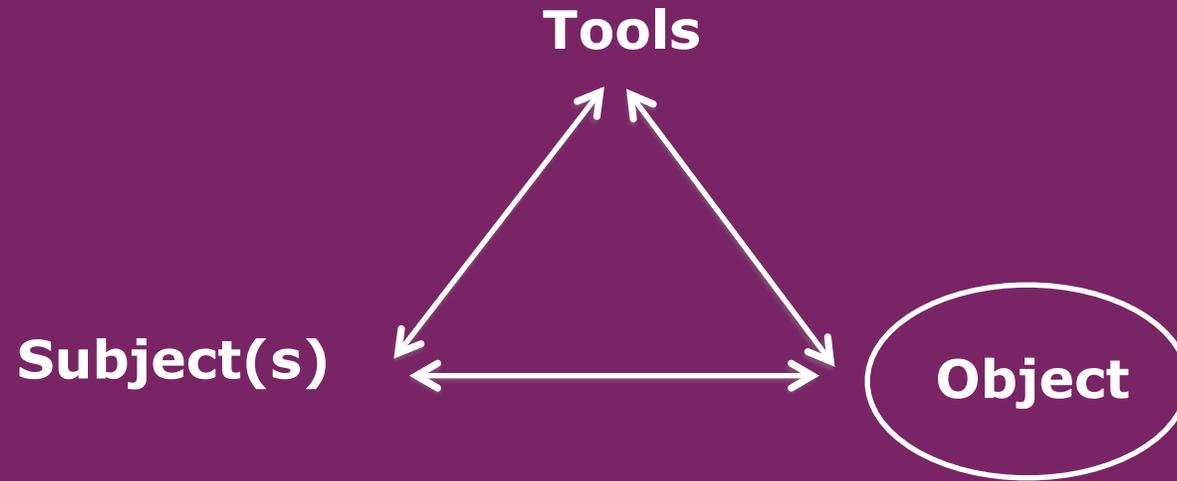
## Part 2: Activity Theory | 1st Generation





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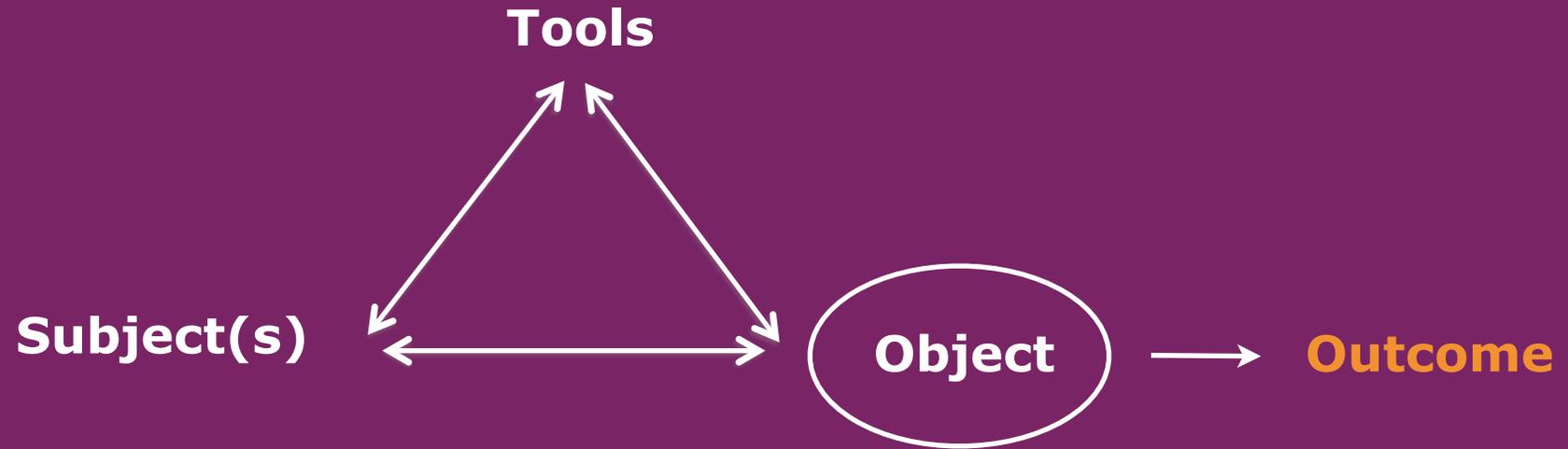
## Part 2: Activity Theory | 1st Generation Activity System





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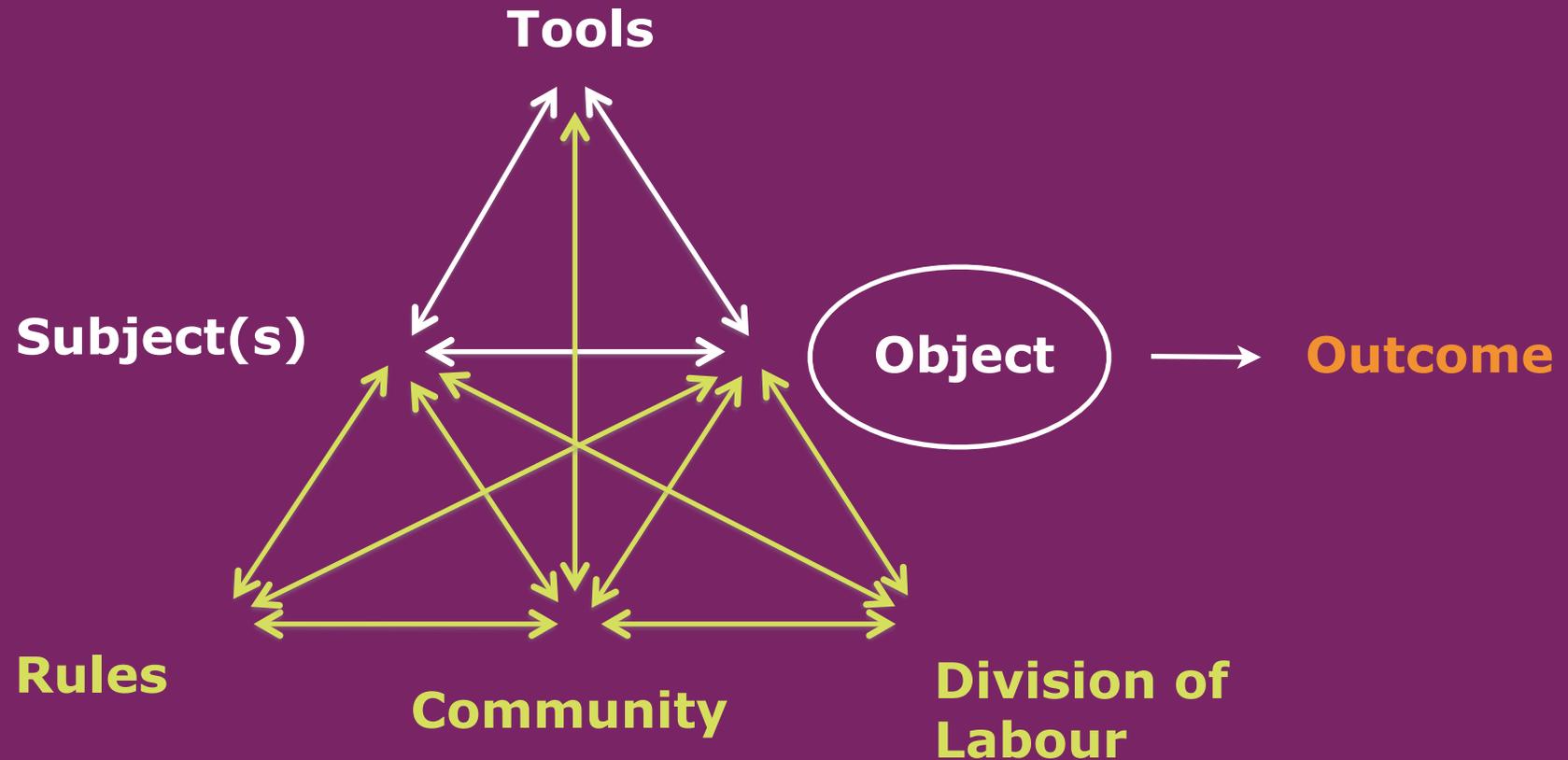
## Part 2: Activity Theory | 1st Generation Activity System





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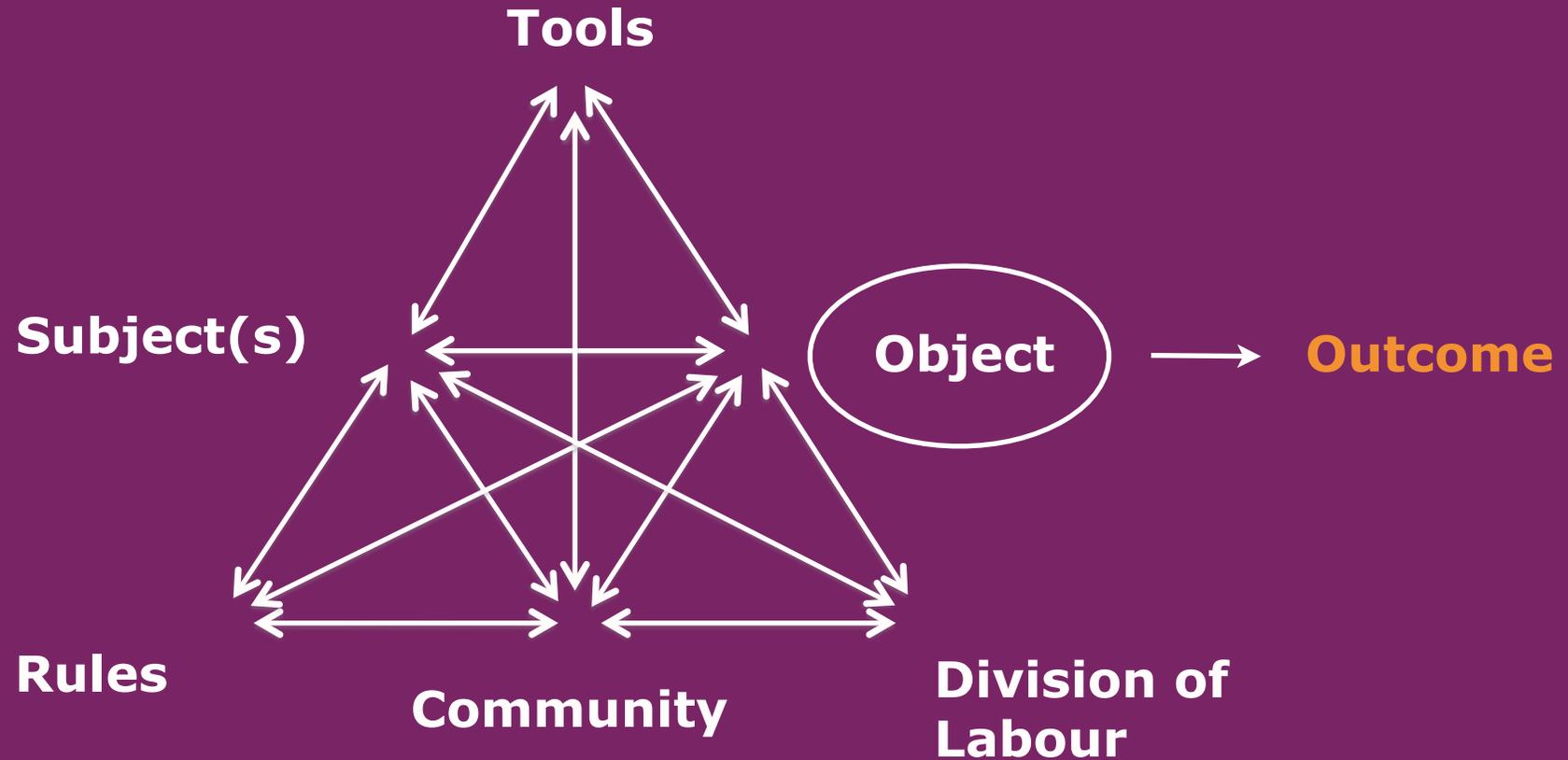
## Part 2: Activity Theory | 2nd Generation Activity System





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## Part 2: Activity Theory | 2nd Generation Activity System

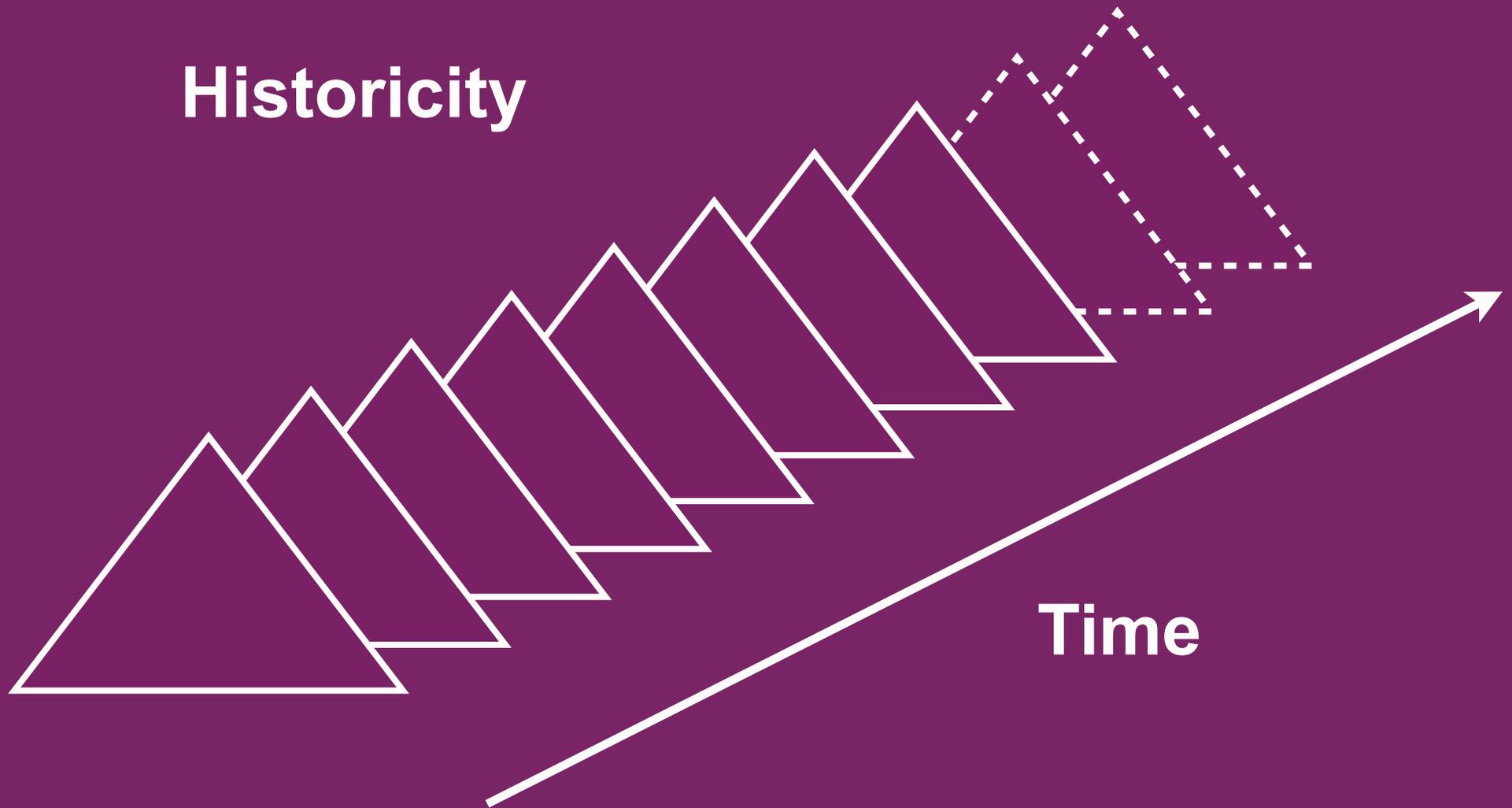






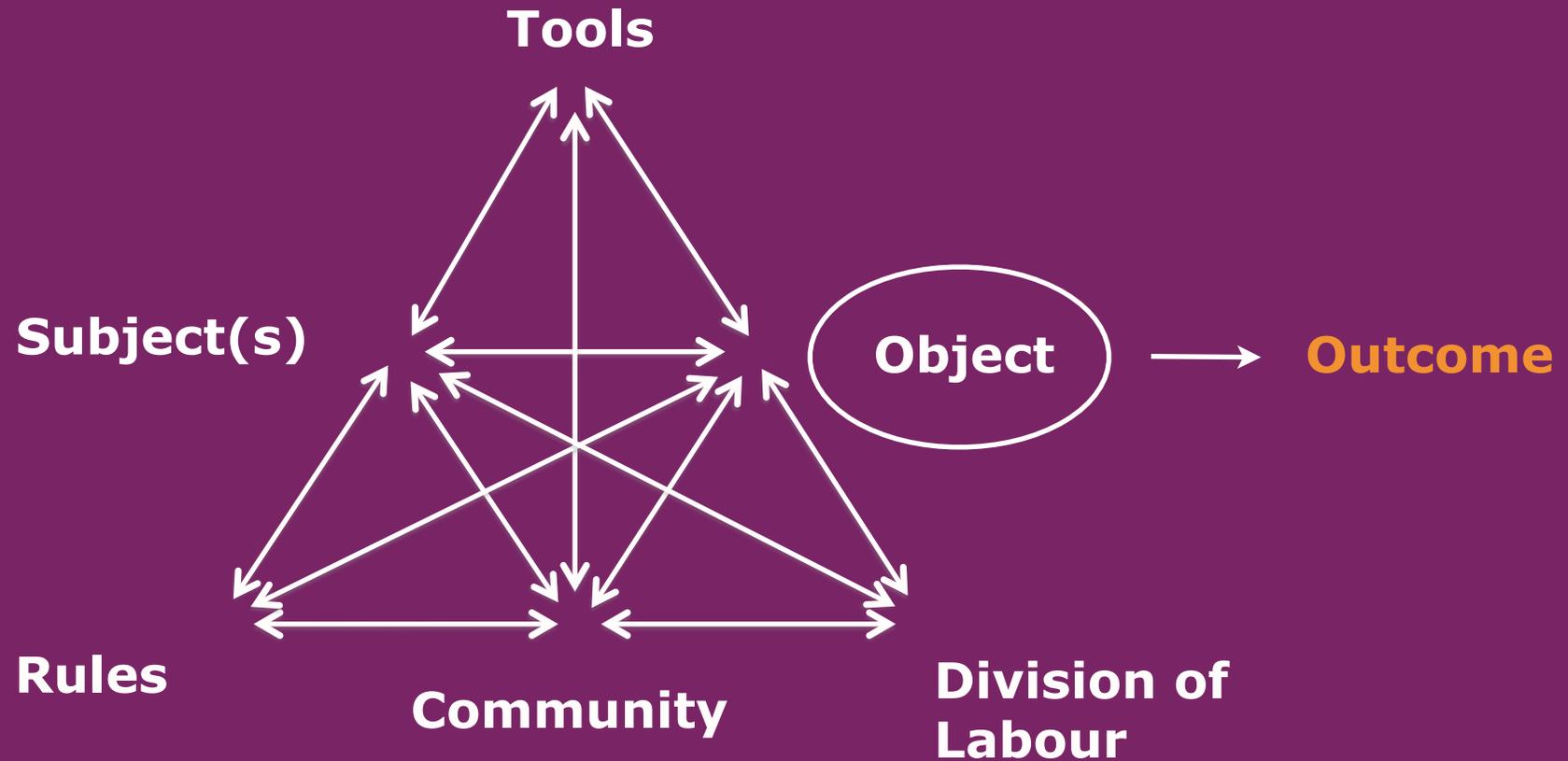
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## Part 2: Activity Theory | 2nd Generation Activity System



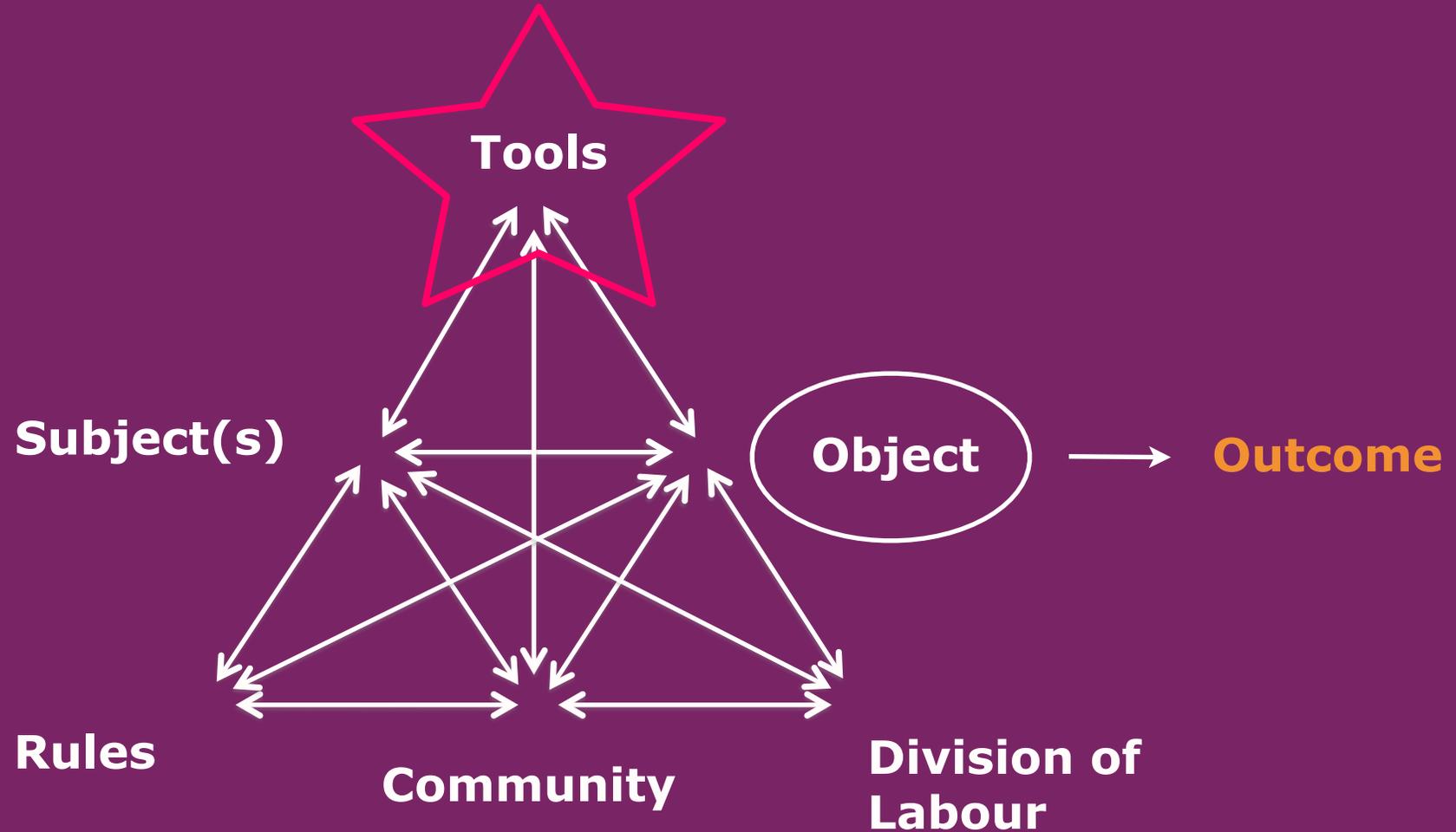


## Part 2: Activity Theory | Tensions & Contradictions





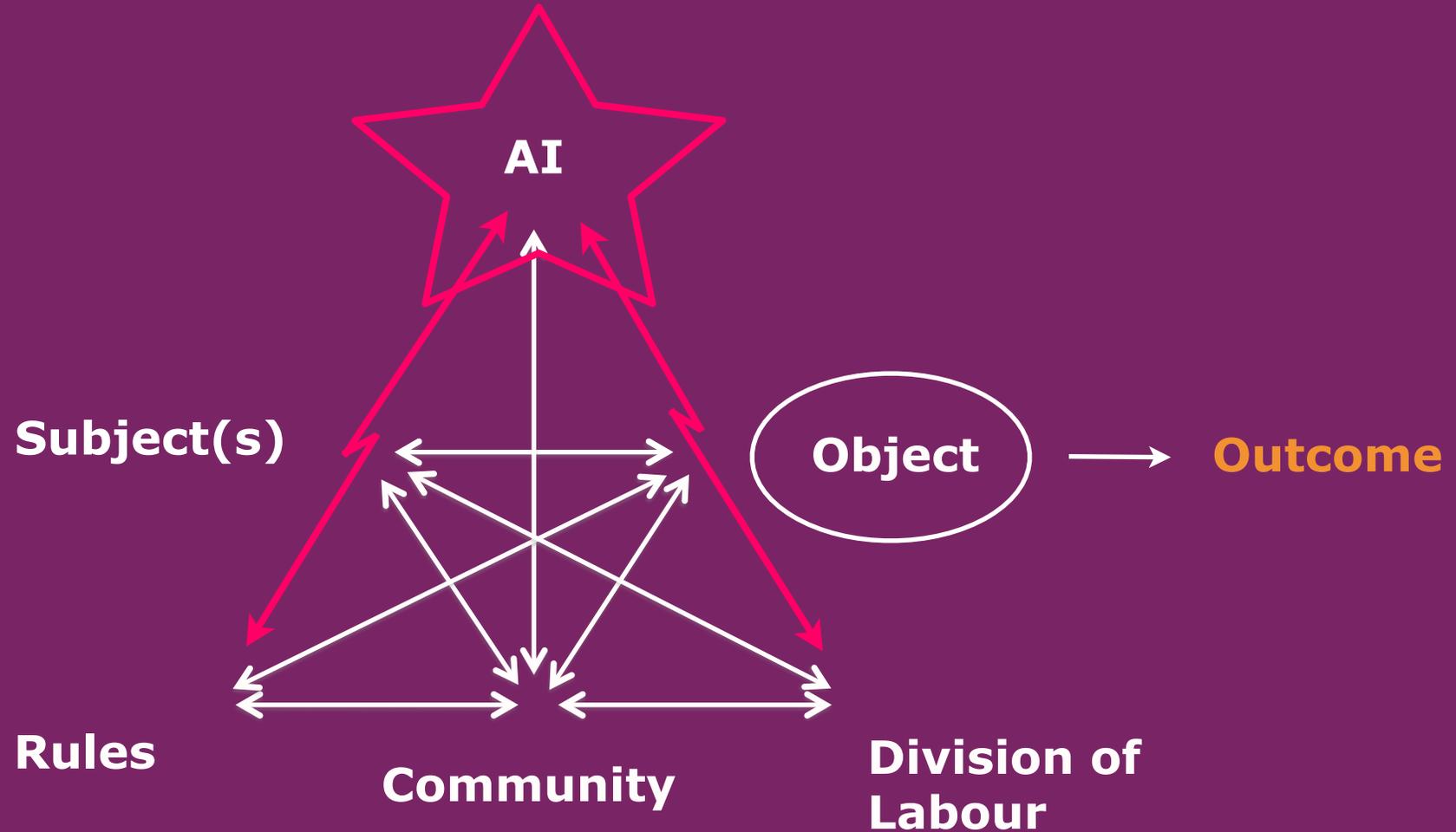
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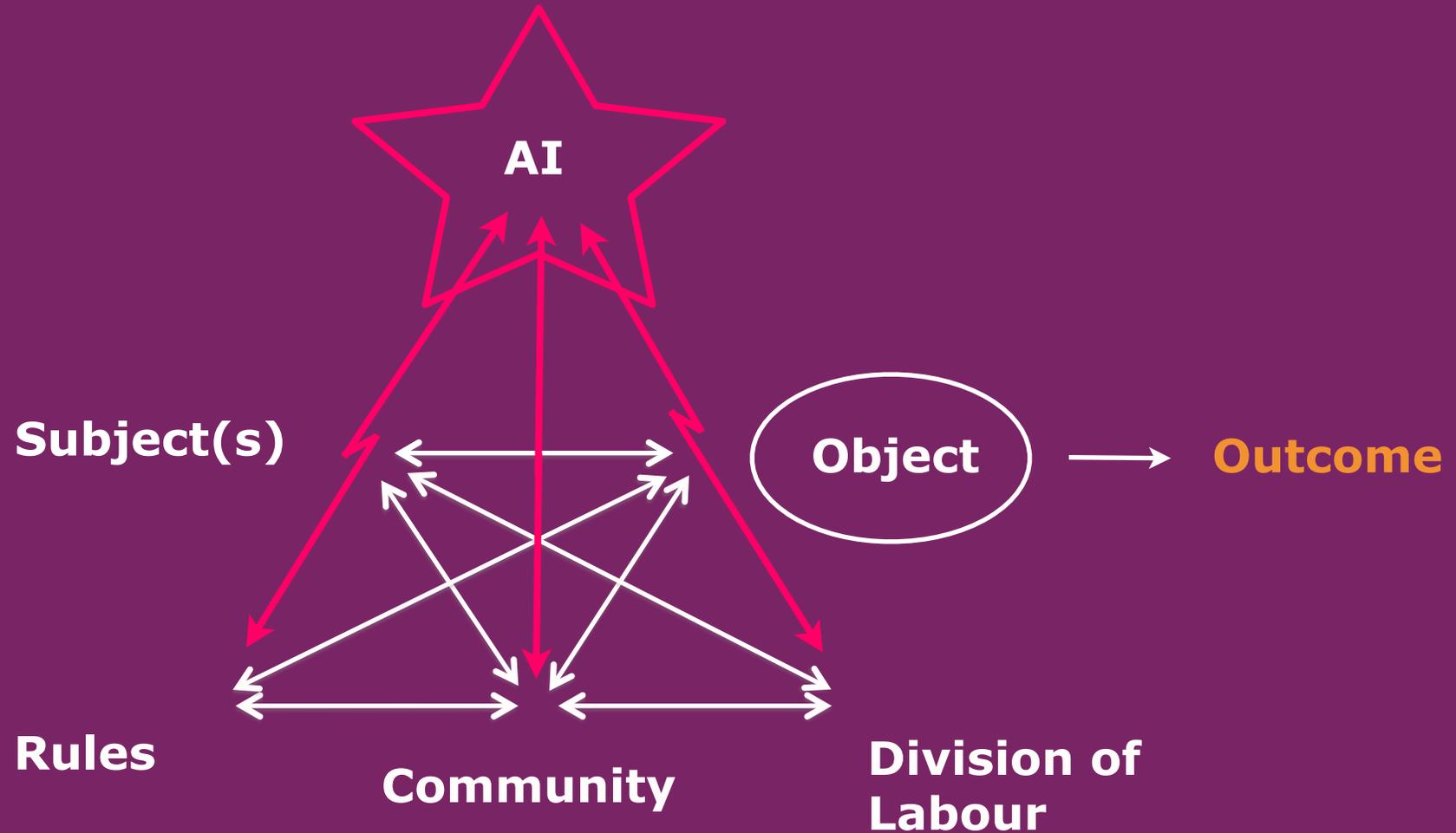


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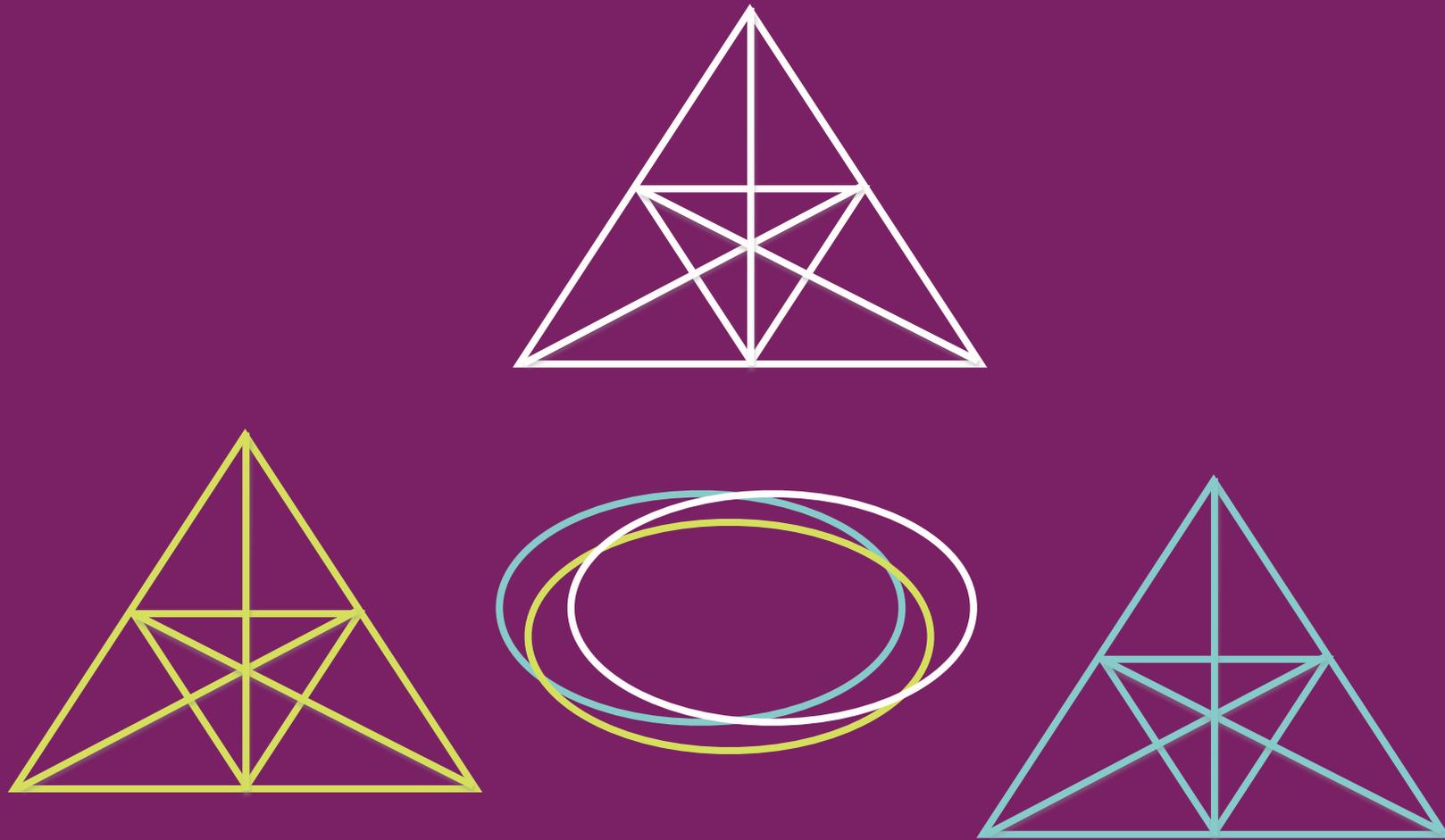
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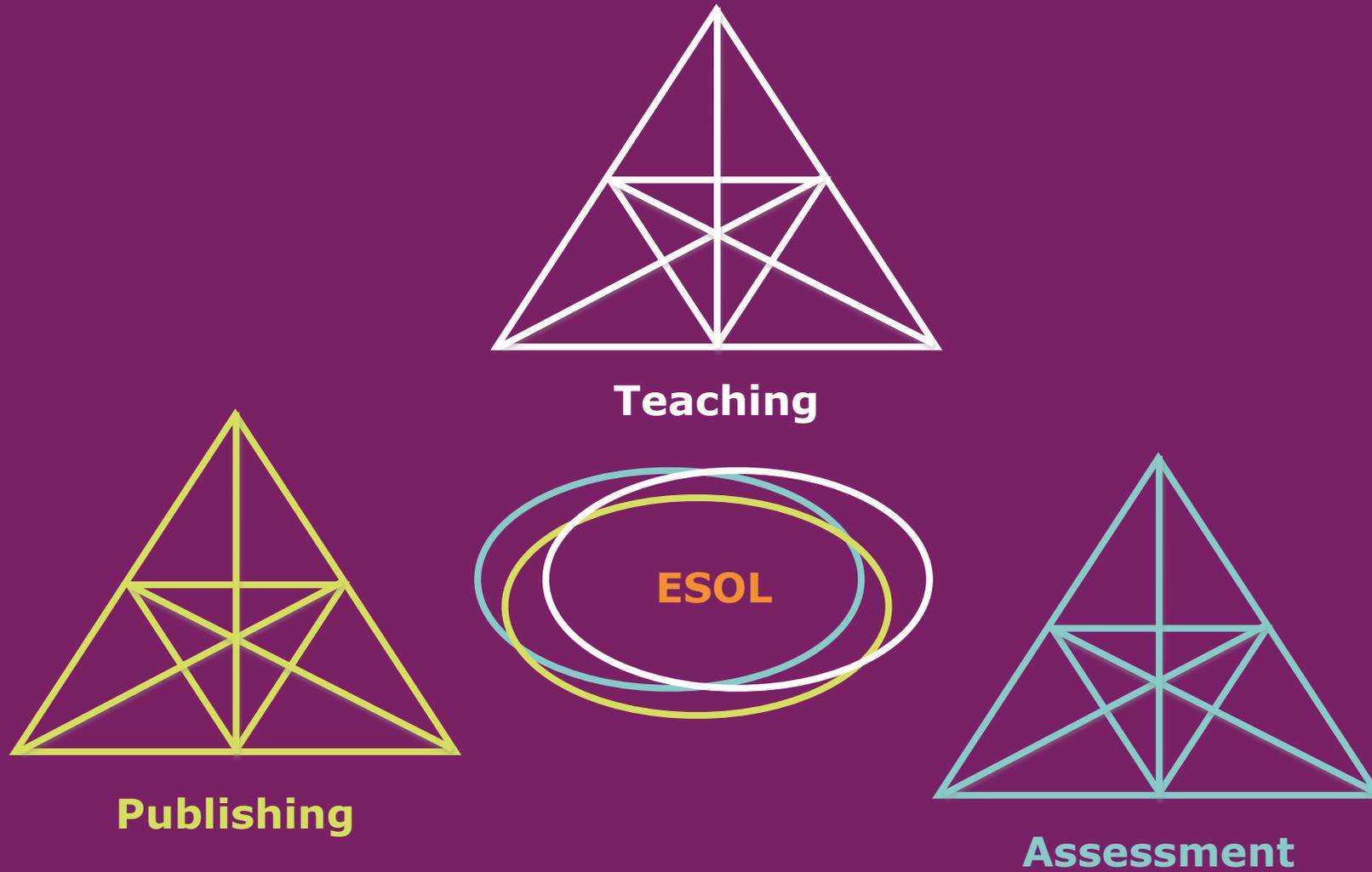
## Part 2: Activity Theory | 3rd Generation Activity System





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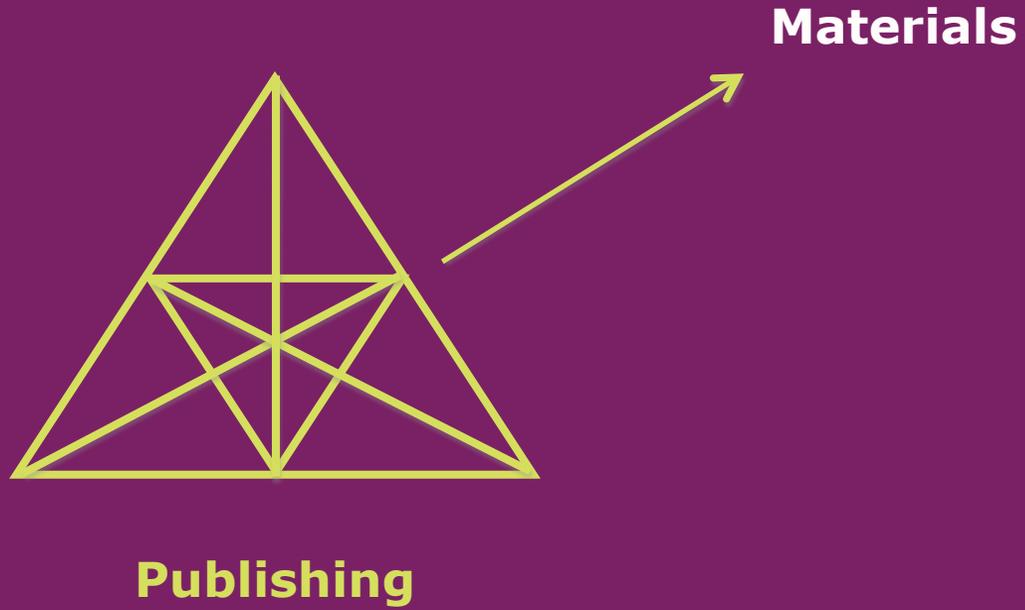
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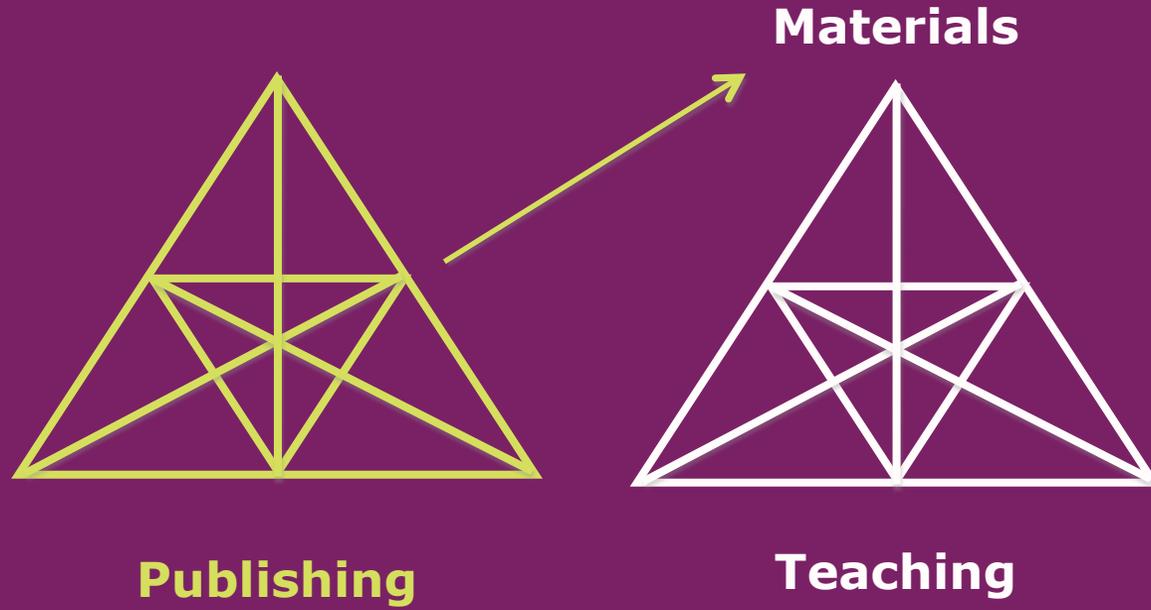
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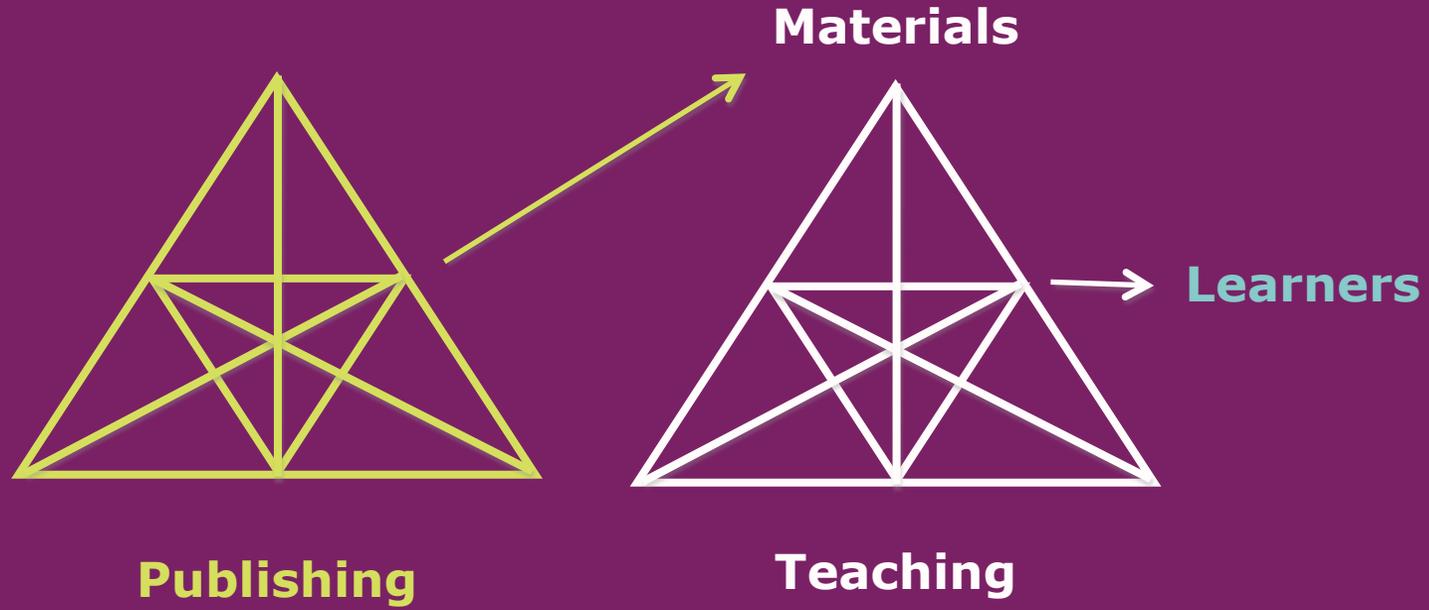
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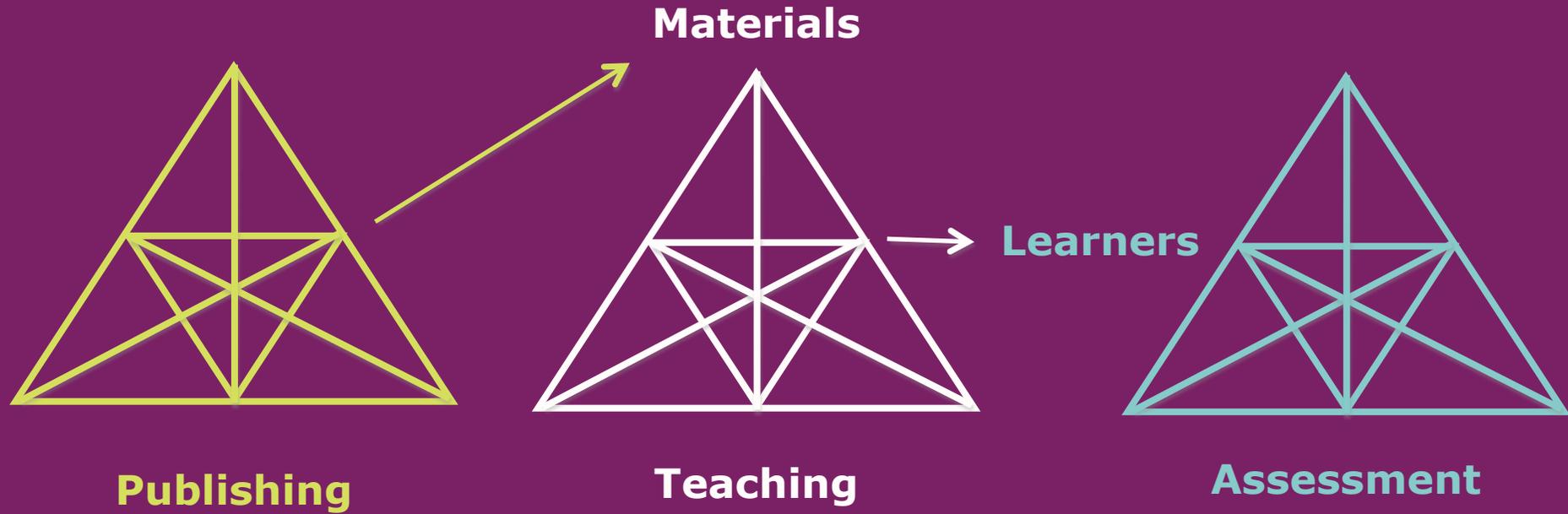
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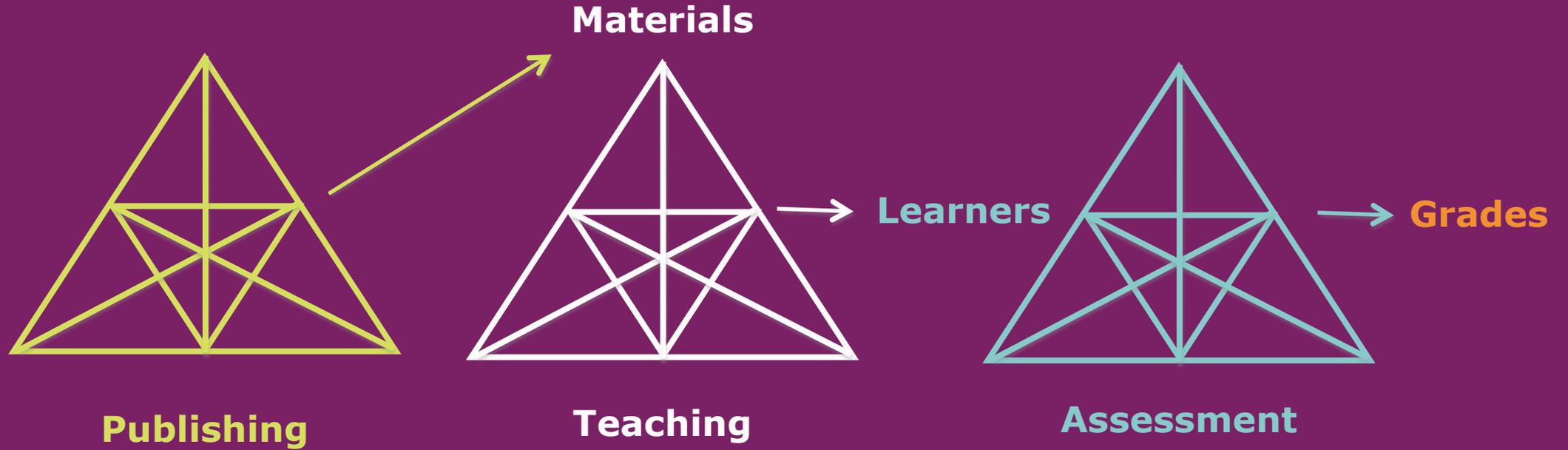
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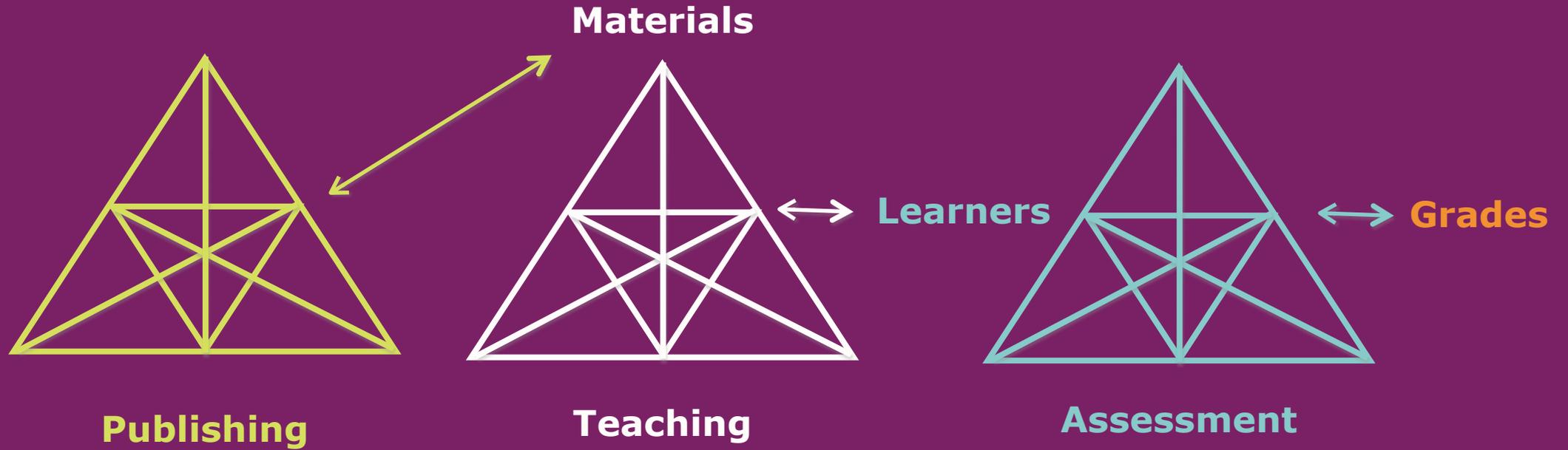
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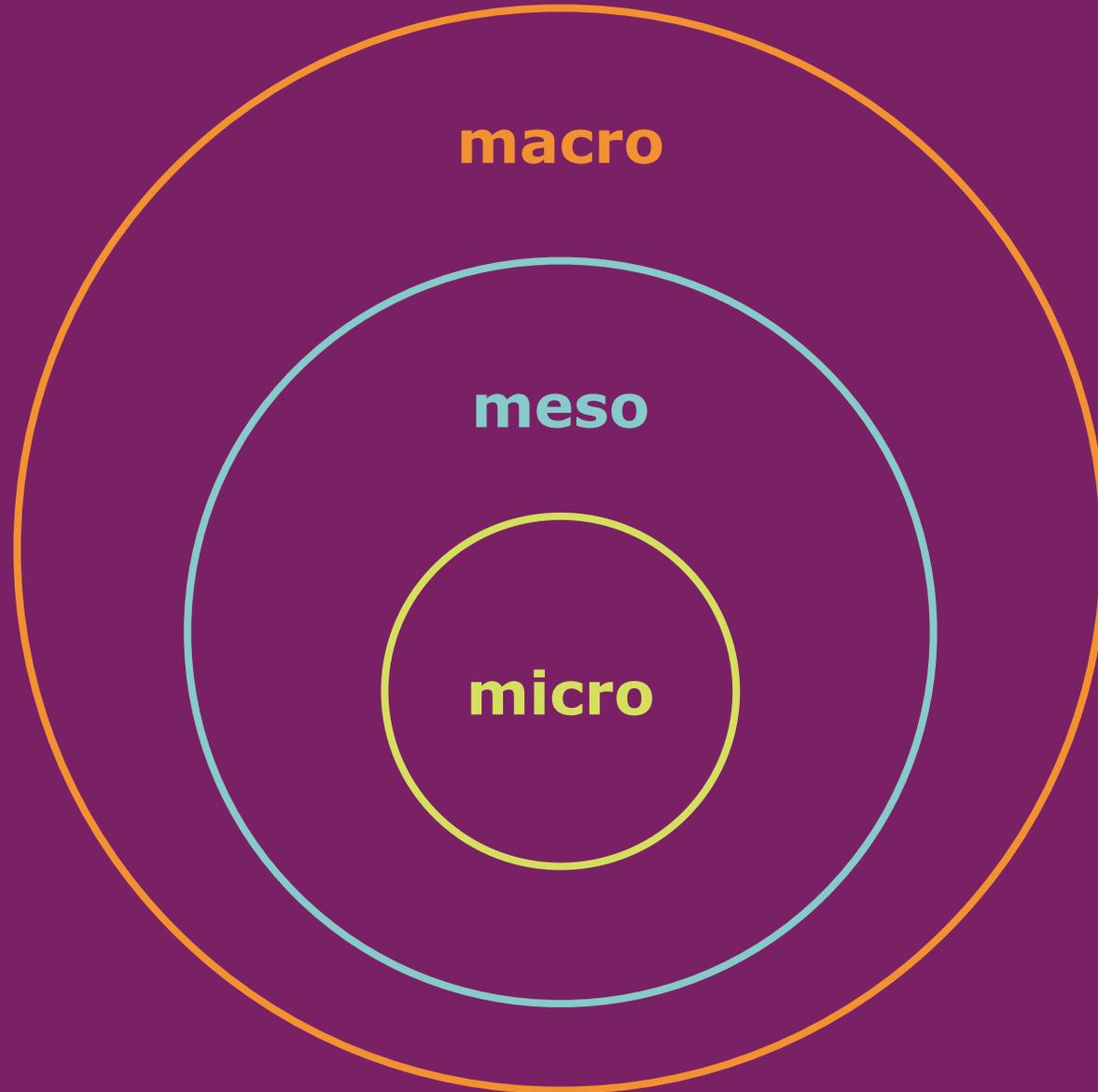
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## Part 2: Activity Theory | 3rd Generation





## Part 2: Activity Theory lens



- national
- global

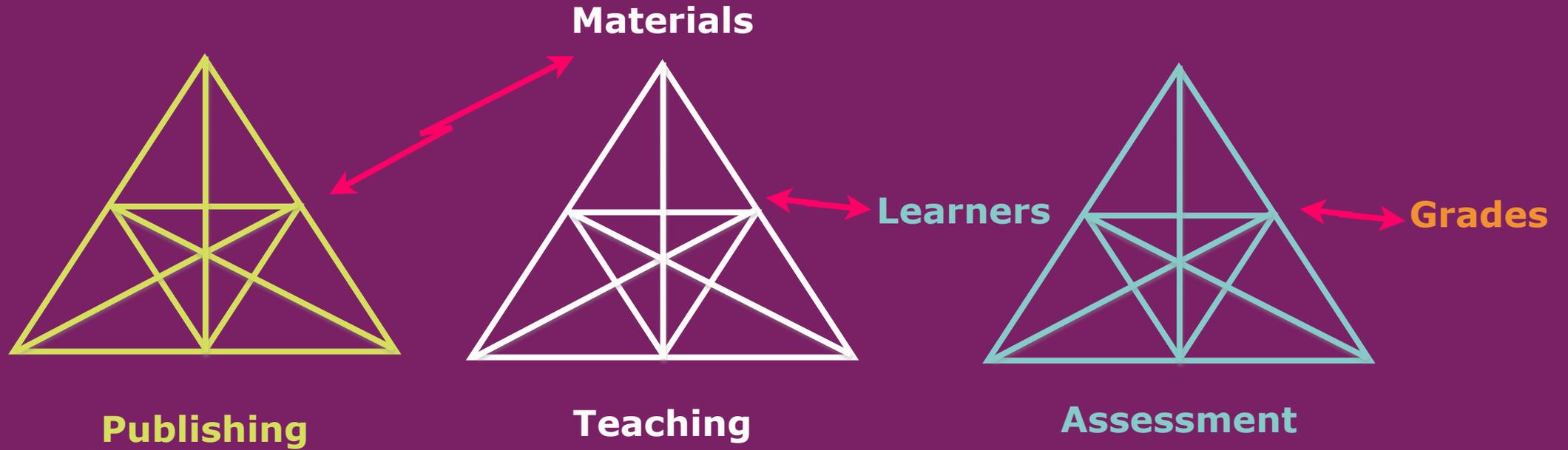
- institution
- publisher

- classroom
- materials



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## Part 2: Activity Theory | 3rd Generation





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## **Part 2: Currently / Present | AI in Education**

**Student-facing AI**

**Teacher-facing AI**

**System-facing AI**



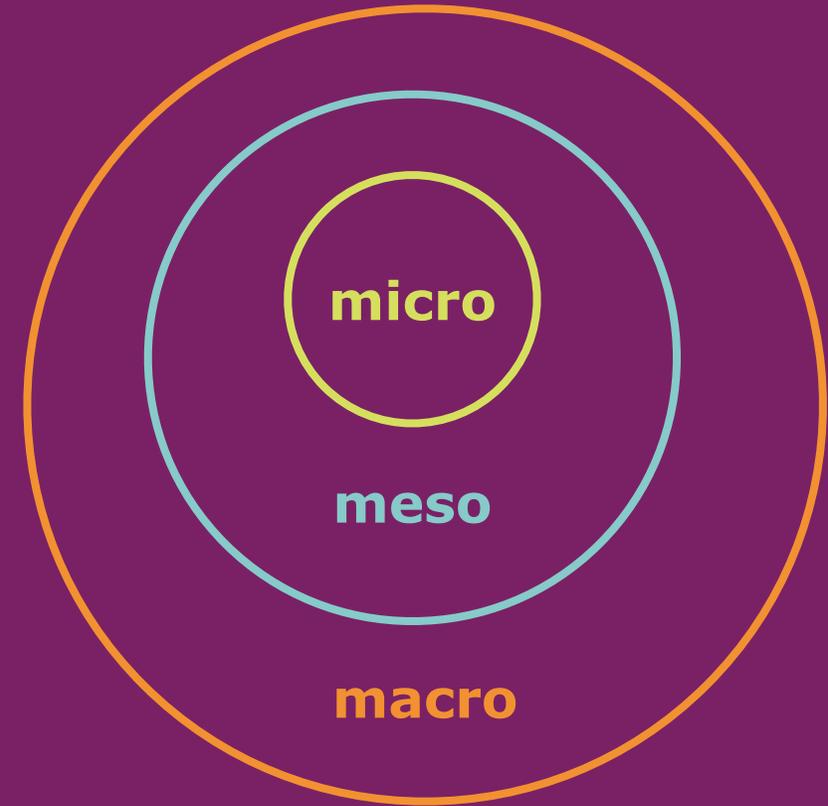
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## Part 2: Currently / Present | AI in Education

**Student-facing AI**

**Teacher-facing AI**

**System-facing AI**





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**Have you used AI in ELT?**



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**What AI have you used?**



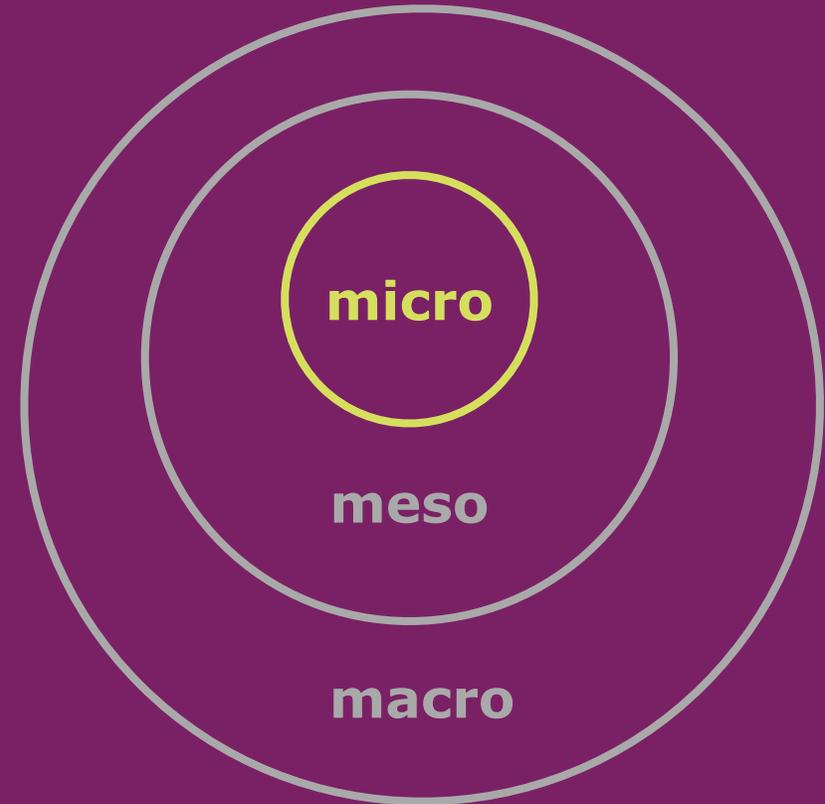
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## Part 2: Currently / Present | Student-facing AI

**Chat bots**

**Text generation**

**Translation**





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## Part 2: Currently / Present | Teacher-facing AI

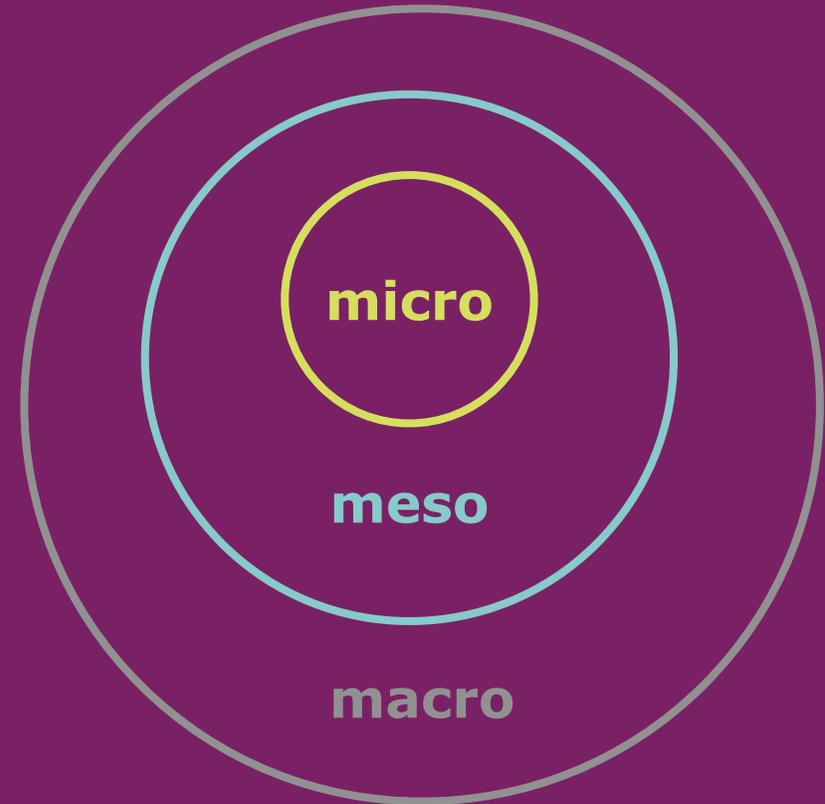
**Materials creation**

**Lesson planning**

**Marking**

**Assessments**

**Schemes of work**

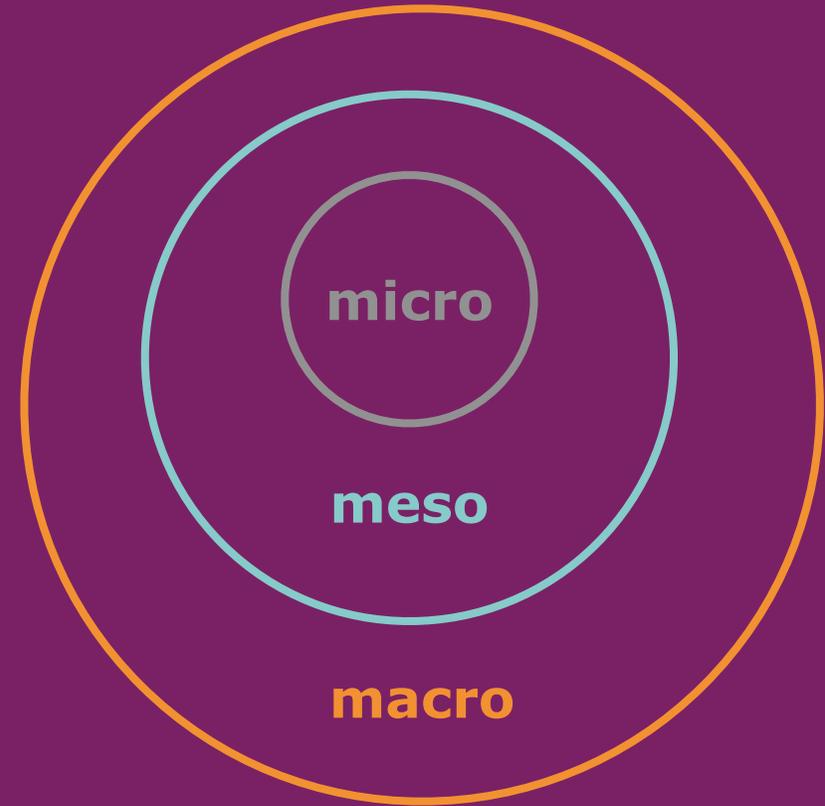




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## Part 2: Currently / Present | System-facing AI

**Timetabling**  
**Marketing**  
**Assessments**



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# **Part: 3 Tomorrow / Future**



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**How do you feel about AI  
in ELT (regarding your  
work / career)?**



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## **Part: 3 Tomorrow / Future | General**

**Deep Fake TV Programmes**

**Social Media Fake Accounts**

**Photorealistic Image Creation**

**TV Advertisement Creation**

**TV Programme Creation (all creative work)**

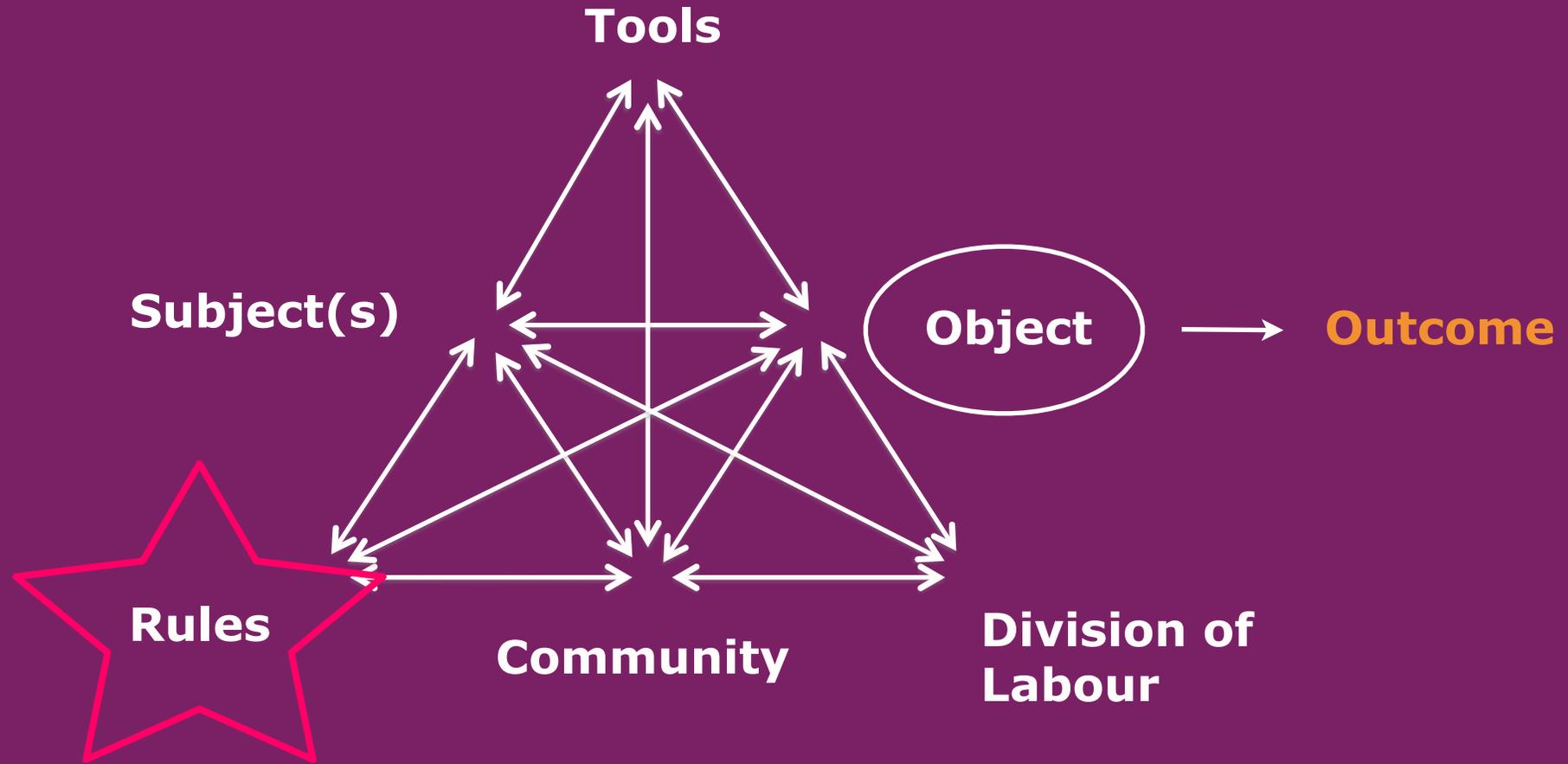
**Apple's (et al.) Virtual Reality Headsets**

**Autonomous Vehicles / Drones**



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## Part: 3 Tomorrow / Future | General





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**How do you feel about  
the future of ELT?**



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## **Part: 3 Tomorrow / Future | AI in ELT**

**Student-facing AI**

**Teacher-facing AI**

**System-facing AI**



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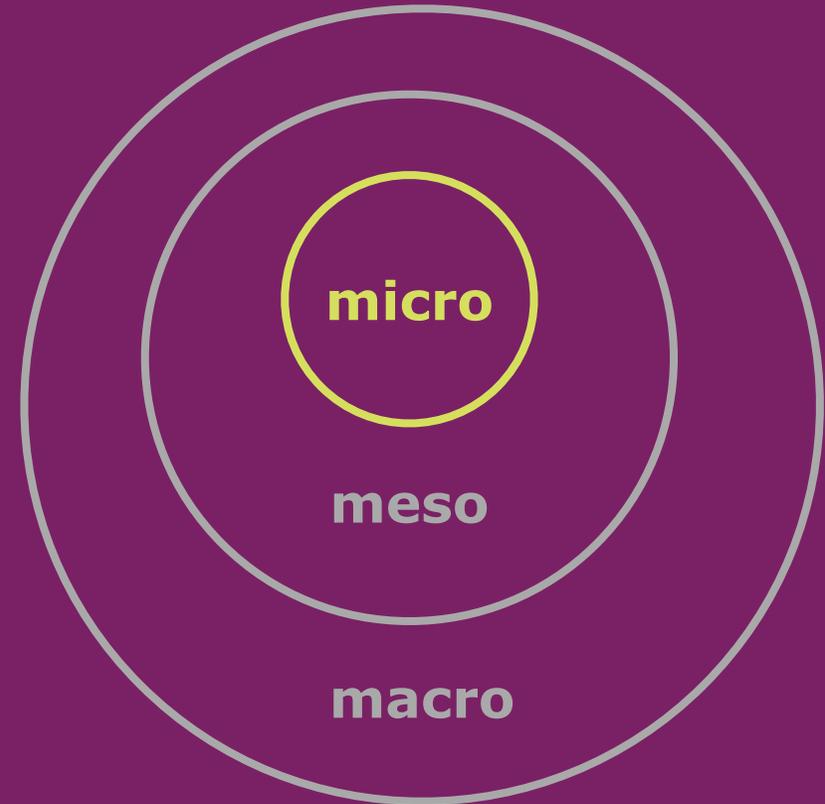
## Part: 3 Tomorrow / Future | Student-facing AI

**Personal tutors**

**Real-time interpreting**

**Personalised courses**

**Continual assessment**





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## Part: 3 Tomorrow / Future | Teacher-facing AI

**Teaching assistants**

**Differentiated lessons**

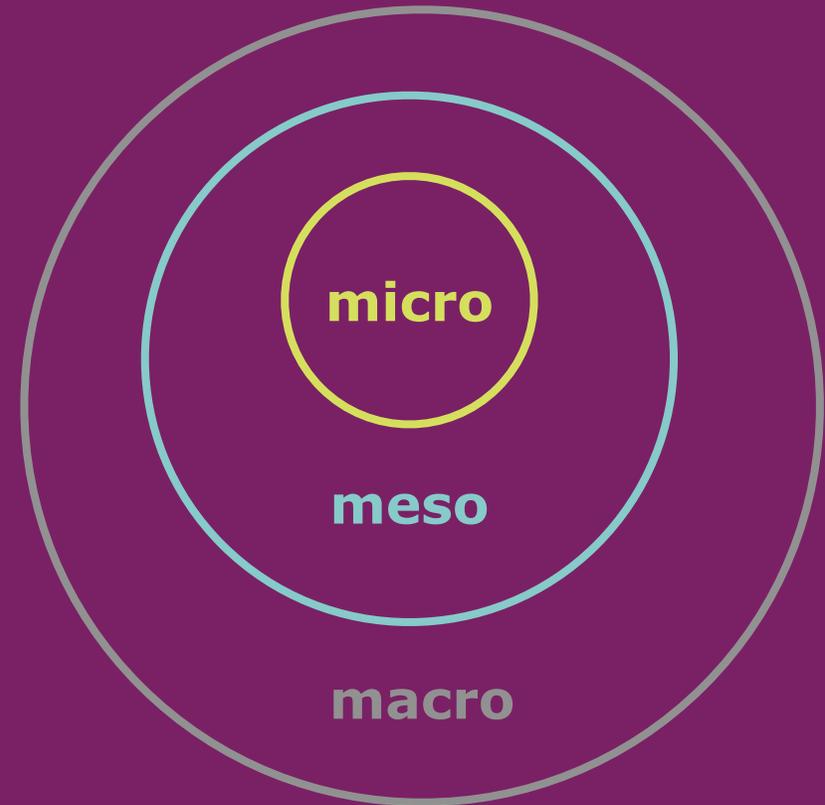
**Adaptive multimedia**

**Automated assessments**

**Surveillance**

**Prompt engineering**

**Proxies**





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## Part: 3 Tomorrow / Future | System-facing AI

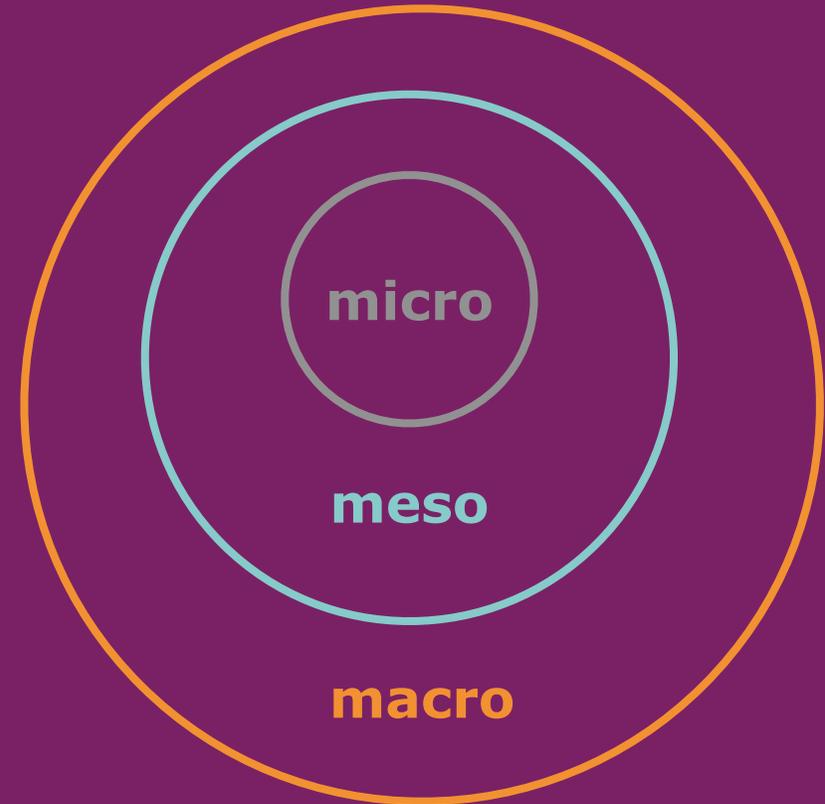
**Big data**

**Analytics**

**Automated recruitment**

**Automated marketing**

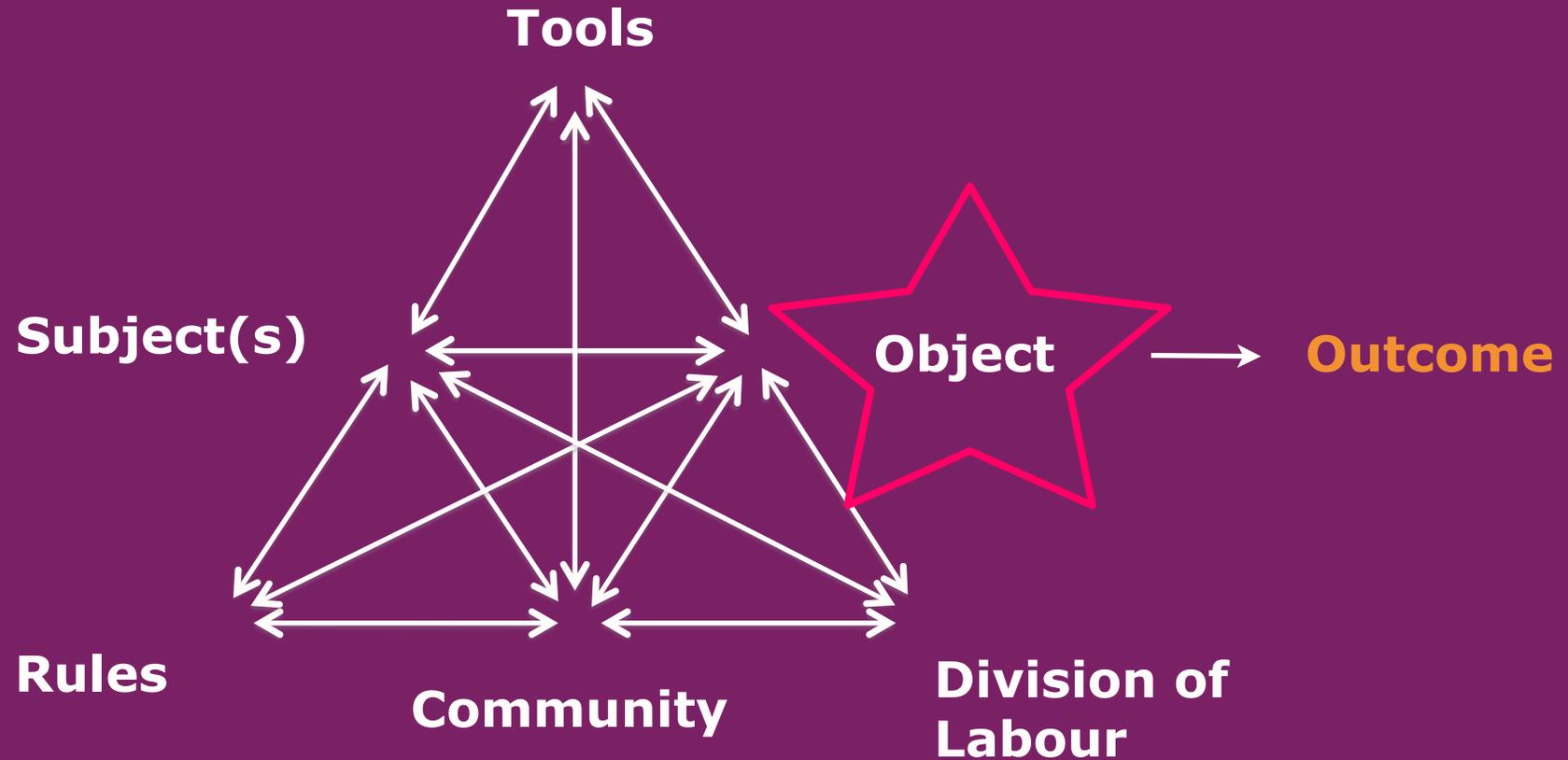
**Automated planning**





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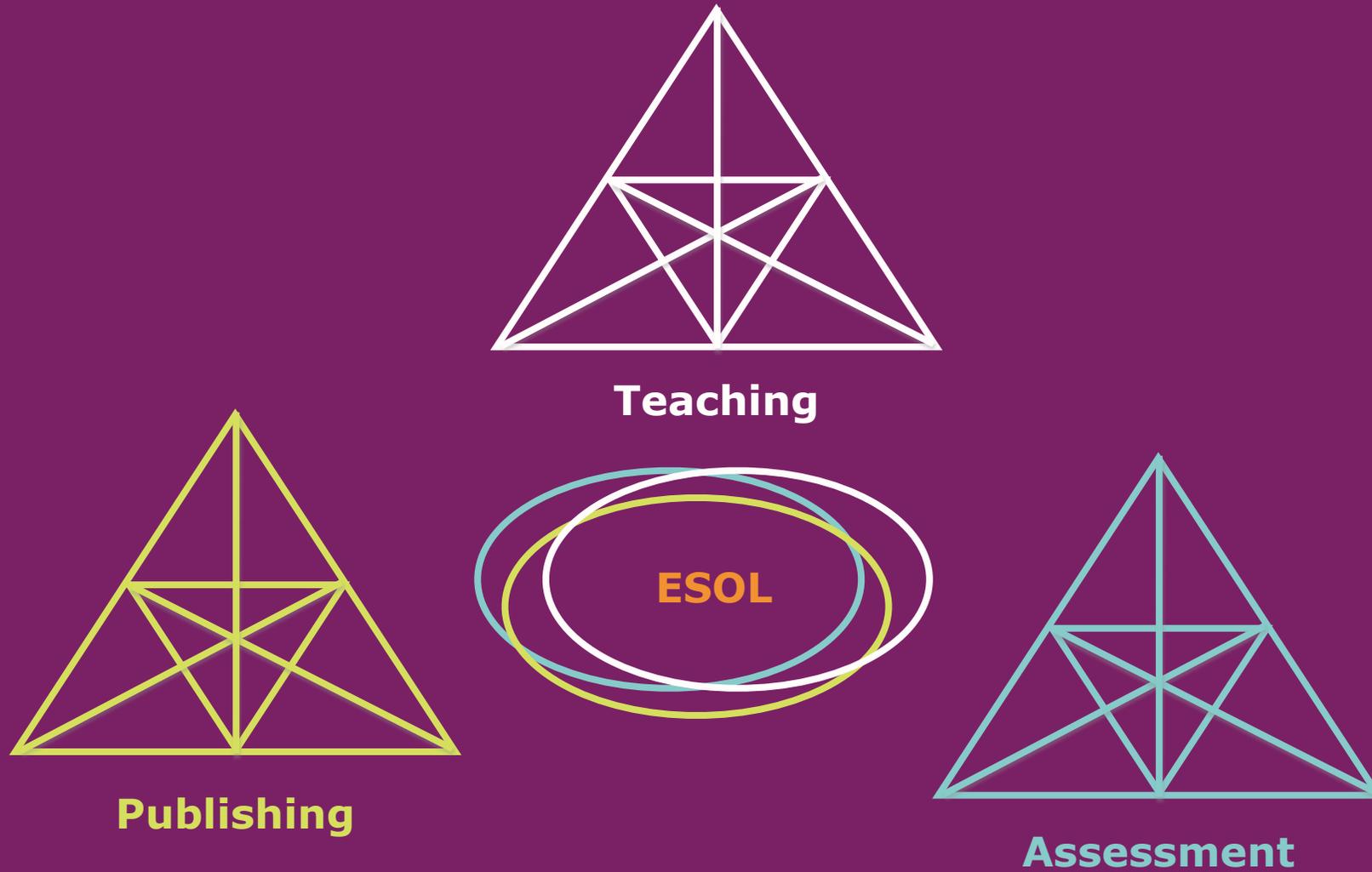
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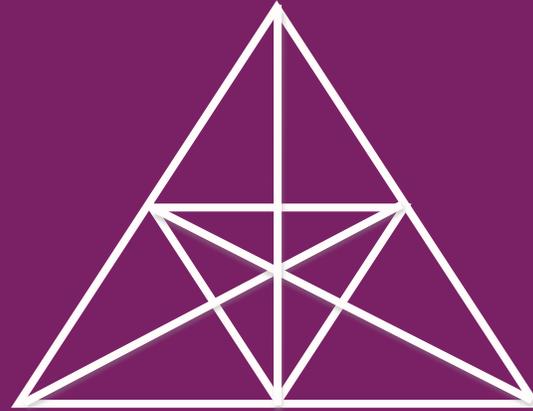
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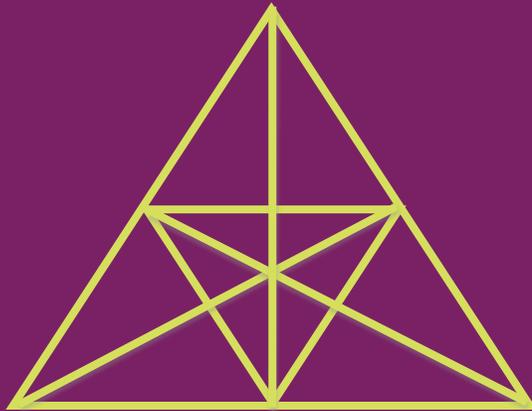


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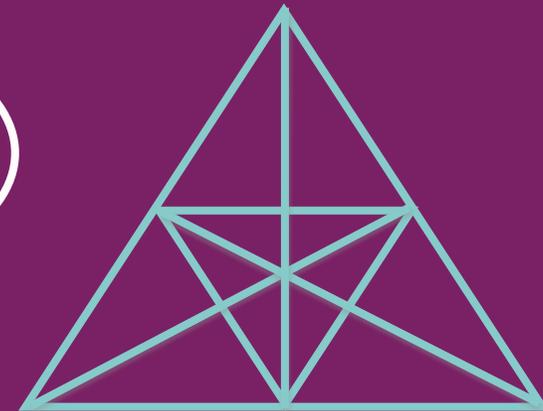
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Teaching



Publishing



Assessment



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## Part: 3 Tomorrow / Future | General

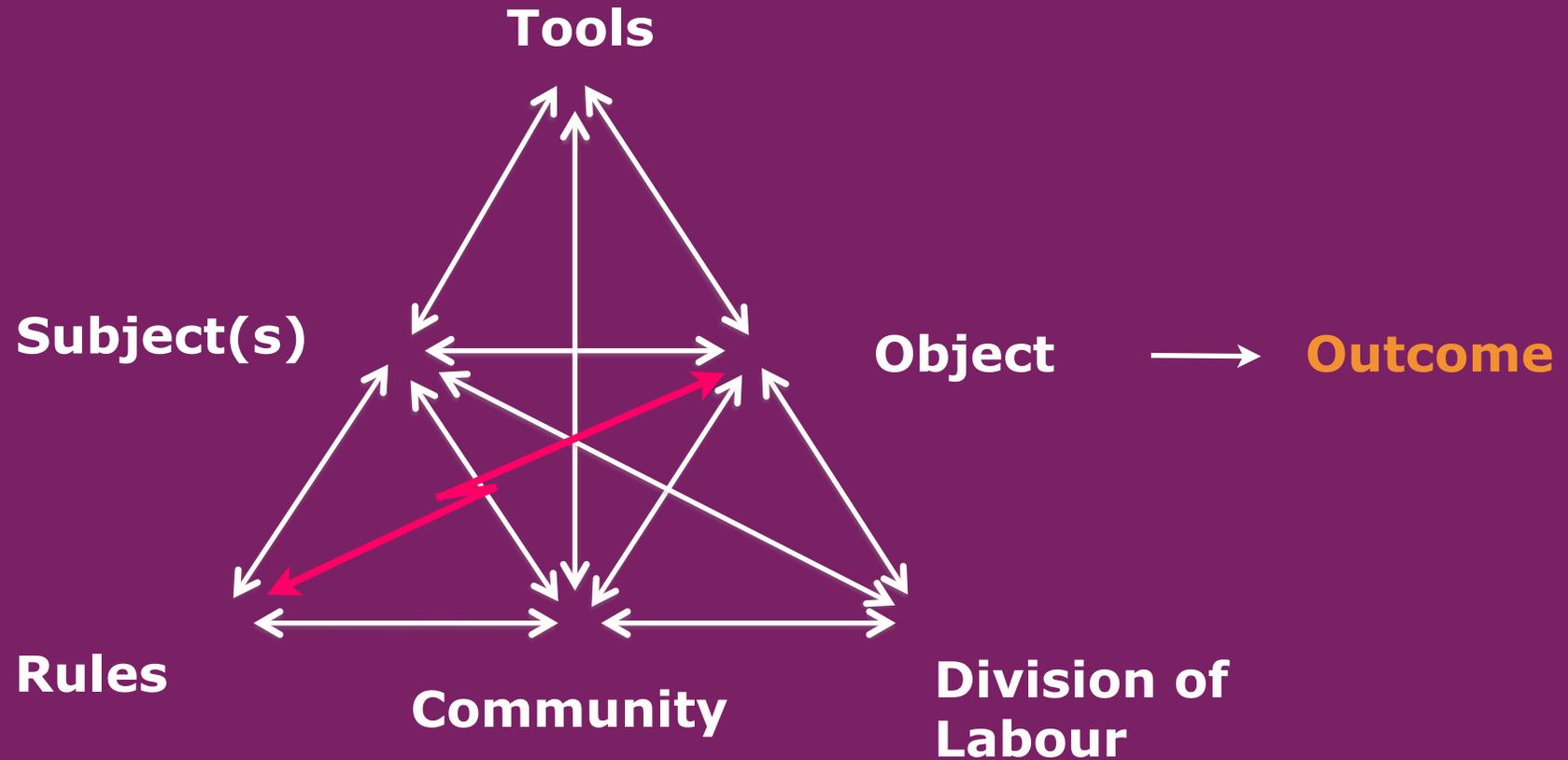
**“It’s not that Google’s been bad. In fact, Google is the leader in this research, the core technical breakthroughs that underlie this wave came from Google, and it decided not to release them directly to the public. Google was worried about all the things we worry about, it has a good reputation and doesn’t want to mess it up. And I think that was a fair, responsible decision. But the problem is, in a capitalist system, if your competitor then does do that, there’s nothing you can do but do the same.”**

**Geoffrey Hinton (2023)**



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## Part: 3 Tomorrow / Future | General





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Questions ? / ??

Questions ? / ??



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**The End**

**Thank you for attending**

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